



ELECTRICAL SAFETY PRODUCTS

12
FACTORIES

The ESP (Electrical Safety Products) Division enjoys worldwide recognition as a manufacturing company providing solutions for the protection of property and persons against electrical hazards.

In this high-risk environment, ESP is demonstrating its capacity for permanent adaptation to the needs of its national and international clients and its ability to develop its products continuously to keep up with changes in regulations.

Our product catalogue is constantly updated with the new solutions developed by our R&D department. It is also supplemented through the development of new functionalities for our products.

The core of this product strategy is the requirement for a targeted, safe technical solution for a precise problem. Electrical network operators put their physical safety at risk when carrying out repairs. We should therefore be vigilant and demanding for each product to ensure that it offers the best service at the best time.



OUR CLIENTS



Utilities and subcontractors



Industries



Oil & Gas

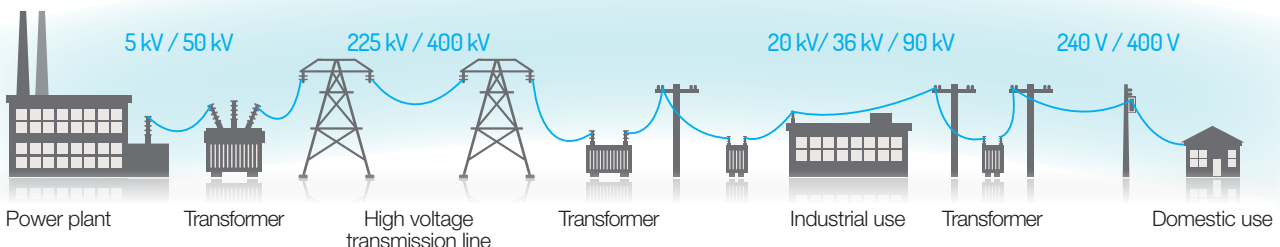


Electric traction



First responders

OUR FIELDS OF APPLICATION



OUR INDUSTRIAL LOCATIONS IN FRANCE

Today, ESP commands a complete industrial process, from design to manufacture of our electrical safety equipment. We have developed specific solutions for electrical network operators, calling on identified know-how :

PULTRUSION MOULDING

INJECTION

MACHINING

PLASTICS

SOFTWARE

PVC COATING

FUNDRY

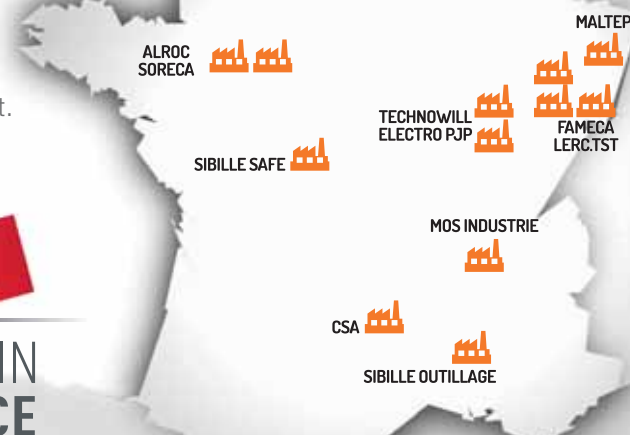
HARDWARE

POLYMERE TRANSFORMATION(LATEX)

LEATHER



MADE IN FRANCE



OUR BRANDS



MAIN PRODUCT RANGES

1000V Insulating tools
1000V Insulated tools



PRODUCT RANGE

Customized solutions for live working



MAIN PRODUCT RANGES

Cable preparation tools for LV/MV/HV
Cable cleats and saddles



MAIN PRODUCT RANGES

Shunt and repowering devices
Cable protectors
Motorized reels



MAIN PRODUCT RANGES

Installation testers and accessories
Test and measurement accessories



MAIN PRODUCT RANGES

Insulating gloves
Arc flash garments
Insulating mats, insulating sheets



MAIN PRODUCT RANGES

Preliminary identification of cables
Voltage detectors for LV/MV/HV
Insulating sticks
Line clamps and earthing clamps



MAIN PRODUCT RANGES

Earthing material
Exothermic welding
Lightning protection



MAIN PRODUCT RANGES

Hand-made bags for professionals
Working at height equipment



PRODUCT RANGE

Hydraulic cable spiking/cutting tool for no voltage-operations



PRODUCT RANGE

Electrical connectors for LV/MV/HV



PERSONAL PROTECTIVE EQUIPMENT AND TEMPORARY INSULATION

Summary	04
Head and eyes	06
Hands	24
Feet	35
Arc flash protection	42
Workwear	52
Working at height	54
Temporary insulation	78



SUBSTATION EQUIPMENT AND RESCUE EQUIPMENT

Summary	86
MV substation equipment	89
Insulating stools	94
Earth circuits	95
Electrical safety kits	104
Fire extinguishers	108
First aid equipment	112
Cable cutters	113



LIGHTS AND BAGS

Summary	114
Headlamps	116
Portable hand-held lighting	118
Spotlights	122
Remote Area Lighting System	123
Power supply	125
Equipment bags	129
Tool boxes	132
Tool bags	135
Tool pouches and accessories	138
Accessory holder	139
Backpacks	140
Tool trays and buckets	141
Other bags	142
Cases	143



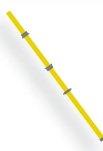
1000V INSULATED AND INSULATING TOOLS

Summary	144
Screwdrivers	146
Pliers	155
Spanners and wrenches	164
Ratchet spanners, sockets and accessories	176
Ratchet torque wrenches	198
Knives, hacksaws and scissors	201
Cable cutters	204
Separators for insulated connectors	213
Electronics hand tools	215
Tools for electricians	220



SHUNT AND REPOWERING

Summary	232
Introduction	234
Shunt cables	234
Connectors	236
Clips, prick wires, adapters	238
Connection devices for fuse holder	243
Sockets and boxes	244
Cable reels	248
Cable protector	250
Complementary accessories	251



INSULATING STICKS

Summary	252
Guide for choosing sticks	254
Telescopic sticks	256
Connectable sticks	258
Hooked sticks	262
Live working sticks	262
Telescopic sticks	264
Pneumatic stick	270
Discharge sticks	271
Stick lifters	272
Stick checking and maintenance	273
Diameter gauges	274
Operating hooks	275
Other tools	276



NO-VOLTAGE TESTING AND SECURE IDENTIFICATION

Summary	280
Preliminary identification of cables and phases	282
Low Voltage detection	290
Medium Voltage detection	294
High voltage detection	310



EARTHING AND SHORT-CIRCUITING

Summary	316
Low Voltage	318
Medium Voltage	330
High Voltage	346
Earthing and short-circuiting cables and accessories	358



CONTROL NETWORK SYSTEMS

Summary	362
Preliminary identification of cable and phase identification	364
Phase comparator	367
Phase rotation indicator	369
LV electrical system testers	370
Measuring equipment	372
Ultrasonic corona/arcing detector	392
Partial discharge scanner	392
Connection	393



CABLE PREPARATION TOOLS

Summary	402
Low Voltage	404
Medium Voltage	408
High Voltage	427
Gas pipes	427



SIGNAGE AND MARKING THE WORK AREA

Summary	428
Safety rules	430
First aid	430
Substation	431
Electrical hazards and earth identification	432
Mandatory signs	433
Fire extinguishers	433
Emergency exit	433
Warning meshes and markers	434
Rods	438
Bases	440
Barriers and railing	441
Danger signs - Safety signs	442
Chains and accessories	443
Ribbons	444
Temporary road signs	446



LOCKOUT - TAGOUT

Summary	448
Padlocks - Keyed alike	450
Padlocks - Keyed different	451
Other padlocks and accessories	453
Lockout hasps	456
Adjustable lockout cables	457
LV circuit breaker lockouts	458
Electrical plug lockouts	460
Valve lockouts	461
Lockout tags	463



LADDERS AND POLE CLIMBERS

Summary	464
Insulated safety ladders	466
Spliced ladders for LV and MV live working	471
Ladders with working platform	473
Aluminium ladders	476
Wooden stepladder	476
Pole climbers	477
Accessories	479



PULLING - UNWINDING - LIFTING

Summary	482
Tirit tensioners and accessories	484
Come along clamps, cable clamps	486
Pulling sleeves	487
Wire pullers, needles and accessories	489
Hand-operated winch	491
Swivels, dynamometers	491
Rope ties, slings	492
Hoists, lashing systems	493
Straps, slings and ropes	496
Anchor clamps, pole extractors, jacks	497
Lifting and handling equipment	499
Unwinding equipment, pulleys, tensioners	501
Pulling/lifting winches	505



MECHANICAL AND HYDRAULIC CRIMPING AND CUTTING TOOLS

Summary	506
Manual ratchet cable cutters	508
Manual hydraulic cable cutters	510
Hydraulic cutting heads	512
Battery operated hydraulic cable cutters	514
Chargers - Batteries	518
Manual crimping tools and accessories	519
Manual hydraulic crimping tools	522
Hydraulic crimping heads	525
Battery operated hydraulic crimping tools	527
Chargers - batteries	532
Hydraulic power units and accessories	532
Connecting accessories	536
Product selector guide for crimping dies	538



TOOLS FOR EXPLOSIVE ATMOSPHERE

Summary	544
Pliers, shears	546
Pipe wrenches, hook spanners	550
Antistatic torque wrench	551
Ratchet spanner gas sockets	554
Gas tightening spanners	558
Gas screwdrivers	566
Gas saw and knives	568
Non sparking tools	568
Devices of electrostatic charges flow	573
Tool sets	574
Tents, umbrellas	576



MISCELLANEOUS TOOLS

Cabinet keys	580
Drills and drill bits	583
Bit braces and gimlets	584
Soldering irons, heating guns and blowtorches	585
Digging tools	586
Tools for laboratory, electronics, telephony, wrapping	588
Marking tools	589
Knives, scissors and sharpening steel	590
Stripping tools	591
Tensioning tools	593
Pliers	595
Bruhes and paintbrushes	595
Miscellaneous wrenches	596
Hammers	598
Anchor and striking tools	600
Distance measuring tool	601
Measures	602
Spirit levels	604
Pruning equipment	604
Hacksaws, frames and blades	605
Tool for LV electricians	605
Binoculars	605

▶ Alphabetical index	606
▶ Numerical index	614





PERSONAL PROTECTIVE EQUIPMENT AND TEMPORARY INSULATION



PERSONAL PROTECTIVE EQUIPMENT

HEAD AND EYES

Helmets and face shields	06
Glasses and headgears	11
Hearing protection	17
Respiratory protection	19

HANDS

Insulating gloves and accessories	24
Work gloves	32

FEET

Shoes	35
Boots	38
Insulating mats	40

ARC FLASH PROTECTION

Introduction	42
Daily wear	44
Switching wear	50

WORKWEAR

High visibility garments	52
Thermo vest	53

WORKING AT HEIGHT

Harness sets	54
Harnesses	57
Energy absorbers	62
Fall arresters	64
Anchorage	67
Connectors	69
Lanyards	71
Ropes	72
Rescue devices	73
Work positioning belts	76

TEMPORARY INSULATION

Insulating sheets	78
Protective covers	79
Insulating sleeves and caps	79
Insulating adhesive tapes	83
Protective bags	84
PVC strips and crepe paper	84
Insulating screen	85



Our selection!



TC42ES : E-Shark helmet

SAFETY HELMET WITH INTEGRATED FACE SHIELD FOR ELECTRICIANS

HELMET : EN 397 / EN 50365 1000 V

FACE SHIELD: EN 166 / EN 167 / EN 168 / EN 170

HELMET AND FACE SHIELD : GS-ET-29

Use:

Intended for systems electricians (operation, industry, offices etc.)
The integrated face shield provides protection against arc flash.

- ⊕ Screen far enough away from the face to allow the wearing of glasses.
- Optical quality class 1 screen: better vision during long term works.
- The face is fully covered thanks to the size of the screen.
- The crash box absorbs shocks up to 40% of the kinetic energy from impact to prevent head contusions.
- Screen is easy to manipulate with insulated gloves.
- 6-point chinstrap provides an excellent fit of the helmet.
- Automatic buckle on chinstrap for rapid closing and opening.
- Automatic release of the screen by lateral pressure.
- Head size adjustment made by turning the headband knob.

Technical specifications:

Helmet :

- Polyethylene outer and inner shells.
- Replaceable black textile harness.
- Side and central inserts for the attachment of accessories (ear muffs, head lamps ...).
- Replaceable absorbent antiperspirant headband.
- Head size: 53 - 62 cm.

Screen:

- Polycarbonate material, thickness : 1,5 mm.
- Optical quality class 1: distortion free for permanent wear.
- Protection against high-speed particles.
- Protection against liquid splashes.
- Protection against electric arc from short circuit.
- Anti-fog treated.
- Anti-scratching treated.

- Marking : 2-1,2 SFE 1 B 8-1-0-K 3.

Lifespan : 5 years.
Helmet delivered without accessory.

Ref.	Description	Weight (g)	
TC42ESBB	White E-Shark helmet with white crash box	720	
TC42ESBBL	White E-Shark helmet with blue crash box	720	
TC42ESBJ	White E-Shark helmet with yellow crash box	720	
TC42ESBR	White E-Shark helmet with red crash box	720	
TC42ESBV	White E-Shark helmet with green crash box	720	
TC42ESBLBL	Blue E-Shark helmet with blue crash box	720	
TC42ESJJ	Yellow E-Shark helmet with yellow crash box	720	
TC42ESRR	Red E-Shark helmet with red crash box	720	
TC42ESVV	Green E-Shark helmet with green crash box	720	
Accessories:		Spare part(s):	
ARCCAG10	Arc flash balaclava, ATPV 12,1 cal/cm ²	TC42ESE	Face shield
TC42ESCI	Multi-position flame retardant balaclava	TC42ESBAS	Forehead band
TC42PN	Neck protector for E-Shark helmet	TC42ESJ4	Four-point chin strap (without chin protector)
HOUTC42	Soft bag for helmet	TC42ESMJ4	Four-point chin strap (with chin protector)
HTC42B	Anti-UV transport bag for helmet	TC42ESH	Harness with forehead band
TC42AB	Ear protection system for helmet 26 dB		
S570SAFE	3 LED headlamp		
S900SAFE	4 LED headlamp		
S600KN	LED photoluminescent flashlight with lateral fixing set		
TC46	Red band for E-shark helmet with 4 fixing hooks		

Other colours available on request. Side/front marking available on request.



Head and eyes • Helmets and face shields

Type of network: LV MV HV

TC45

INDUSTRIAL SAFETY HELMET FOR LINEMEN

EN 397 / EN 50365 / ANSI Z89.1

Use: Industrial safety helmet protects the wearer against accidental electrical contact.

Lightweight

Technical specifications: Regarding EN 397 : -30°C resistant.

Regarding EN 50365 : 1 000V AC class 0

Regarding ANSI : 20 000V AC class E

PEHD shell without ventilation holes.

Lateral inserts to fix accessories (ear muffs, head lamp ...)

Textile harness with 4 points chinstrap.

Removable headband, adjustable from 53 to 63 cm, adjustment made by ratchet knob or by slide.

Life span : 4 years.

Colour : White.

Other colours available on request (quantity of 200).



Ref.	Description	Weight (g)
TC45BC	Industrial safety helmet for linemen - adjustment made by ratchet	305
TC45BG	Industrial safety helmet for linemen - adjustment made by slide	305
Accessories:		
E22E	Adjustable electrician face shield with support for helmet	
Spare part(s):		
TC45JUG	Webbing chinstrap	
TC45BF	Removable headband	

New !

TC47V2

SAFETY HELMET FOR LINEMEN

EN 397 / EN 50365

Use:

Protection of the head against short term accidental contact with live electrical conductors.

New design

Possible options : mountain type chin strap and ear muffs

Technical specifications:

Crash box system for better shock absorption

ABS material without ventilation

Useful life : 6 years

Other colours available on request by quantity of 50



Ref.	Description	Weight (g)
TC47V2	Safety helmet for linemen	410



TC47

SAFETY HELMET FOR LINEMEN WITH SHORT VISOR

EN 397/ EN 50365 / ANSI Z89.1

Use: Industrial safety helmet protects the wearer against accidental electrical contact.

For climbers, work in suspension, or mining work.

Lightweight

Technical specifications: Regarding EN 397 : -30°C resistant.

Regarding EN 50365 : 1 000V AC class 0

Regarding ANSI : 20 000V AC class E

PEHD shell without ventilation holes, with short visor.

Lateral inserts to fix accessories (ear muffs, head lamp ...)

Textile harness with 4 points chinstrap.

Removable headband, fitted with a comfort band and filler foam.

Lifespan : 4 years.

Other colours available on request (quantity of 200).

Ref.	Description	Weight (g)
TC47BG	Safety helmet for linemen - adjustment made by slide	295
TC47BC	Safety helmet for linemen - adjustment made by ratchet	295
Accessories:		
E22E	Adjustable electrician face shield with support for helmet	
Spare part(s):		
TC45BF	Removable headband	
TC47JUG	Chinstrap - mountain type	



TC4712

HELMET AND FACE SHIELD, HRC 2, ATPV 12 CAL/CM²


HELMET : EN 397 / EN 50365 (CLASS 0) / ANSI Z89.1-TYPE 1 CLASS E (TESTED TO 20 000V)

FACESHIELD : EN 166 / EN 170 / ANSI Z87.1 / GS-ET-29 (CLASS 2- 7 KA-0,5S) /

ASTM 2178 (12 CAL/CM²) / NFPA 70E / ANSI Z87.1 / ASTM F 2178-1 (ATPV 12 CAL/CM²)

Use: Arc flash protection for electrical workers.

The four components must be used together as a KIT to achieve the arc rating indicated : helmet, face shield, bracket and chin protector.

 **The face shield maximises the ATPV 12 cal/cm² with a light enhancing green colour providing excellent field of view and ergonomic assembly that is convenient for the worker.**
The chin protector provides additional protection at the chin and neck areas.

Technical specifications: TC4712 is a set composed of : a dielectric hard hat, a face shield with chin protector and a bracket.

Helmet :

Light weight, dielectric (20kV : Class E regarding ANSI Z89.1), heat resistant, slotted hard hat with superior "Fas-Trac" suspension system

Light HDPE shell.

4 points harness shock absorber with integrated headband.

Adjustment made by ratchet.

Face shield :

Anti-fog treatment on both sides

Material : Plastic / chemical alloy

Chin protector and slotted cap bracket : nylon.

Ref.	Helmet colour	Size
TC4712	White	One size fits all
TC4712ORG	Orange	One size fits all



Head and eyes • Helmets and face shields

Type of network: LV MV HV

New!

TC402

ELECTRICIAN HELMET WITH INTEGRATED FACE SHIELD, ATPV 8,4 CAL/CM²

HELMET : EN 397 / EN 50365 CLASS 0 / ANSI Z89.1 (CLASS G)
FACESHIELD : EN 166 / GS-ET-29 CLASS 2 REGARDING BOX TEST - 7KA / 0,5 SEC / ASTM F 2178 (8,4 CAL/CM² REGARDING OPEN ARC)

Use:

Protection against electric Arc-Flash (Box test - 7KA / 0,5 sec).

- ⊕ **Adjustable integrated face shield, with green lens.**
- Face shield with adjustable and removable chin strap.**
- Arc flash protection (class 2).**

Technical specifications:

<p>Helmet :</p> <p>Stroke absorption after conditioning in temperatures of -30°C and + 50°C,</p> <p>Protection against molten metal splash (MM),</p> <p>Protection against lateral deformations (LD),</p> <p>Protection against electric shock (Class 0), 1000V (AC), 1500V (DC), up to 2200 V (Class G regarding ANSI Z89.1)</p> <p>Adjustment range of head circumference : 53-63 cm</p>	<p>Face shield :</p> <p>Optical class 1</p> <p>Protection against UV radiation (2C – 1,2)</p> <p>Protection against thermal hazards of an electric arc (Class 2) Box Test 7 kA / 0,5 sec.)</p> <p>Lifespan up to 4 years.</p>
---	--



Ref.	Description	Colour
TC402B	Electrician helmet with integrated face shield, ATPV 8,4 cal/cm ²	White
TC402R	Electrician helmet with integrated face shield, ATPV 8,4 cal/cm ²	Red

E20

ELECTRICIAN FACE SHIELD WITH HEADBAND AND BROW-GUARD

EN 166 / EN 170

Use: Eyes and face protection against arc flash.

Technical specifications: The set contains: 1 headband, 1 browguard and 1 faceshield :

- Headband with double adjustment and ventilated browguard
- Face shield made of 1,5 mm thick polycarbonate with edging.

Marking : 1 = optical class, B = anti-scratch, 8 = protection against electric arc from short circuit.



Ref.	Description	Weight (g)
E20	Electrician face shield with headband and brow-guard	380



E22E

ADJUSTABLE ELECTRICIAN FACE SHIELD WITH SUPPORT FOR HELMET

EN 166 / EN 170 / GS-ET-29

Use: Face protection against liquid and solid projections, and against arc flash.

+ Fits helmets TC45BC, TC45BG or TC47BC, TC47BG.
Face shield with good optical quality that avoids visual distortions.
Metal free.

Technical specifications: Face shield : colourless 1,5 mm thick polycarbonate.

Delivered with the support for helmet and without helmet.

Fixation on helmet : elastic.

Ref.	Description	Weight (g)
E22E	Adjustable electrician face shield with support for helmet	265
Spare part(s):		
E22ES	Face shield alone	
E22P	Support for helmet	



CF39

FORESTRY SAFETY HELMET

EN 397 / EN 352-3 / EN 1731

Use: Protection of the face, head and ears during chainsaw operations.

+ Metal free

Technical specifications: This set is composed of :

- PE forestry helmet
- Adjustable protective grid screen in nylon
- Ear muffs 26 dB, metal free

Colours : orange and black.

Ref.	Description	Weight (g)
CF39	Forestry safety helmet	650



Head and eyes • Glasses and headgears

Type of network: LV MV HV

C43

SAFETY CAP

EN 812

Use: Protection of the head against accidental bumps and scratches.

This is not a safety helmet.

Technical specifications: Baseball cap 35% polyester 65 % cotton.

Inner shell in ABS with no metal part.

Ventilation holes.

Size adjustment: 56 - 61 cm made by Velcro strap.

Colour : blue.

Logo marking on request.

Advice:



Ref.	Description	Weight (g)
C43	Safety cap	160

TC42ESCI

MULTI-POSITION FLAME RETARDANT BALACLAVA

EN 340 / EN ISO 11612-08 / EN 1149-5/08

Use: Protects against thermal effects from an arc flash.

Can be worn under all helmets.

+ Very comfortable (extensible, returns to its original shape, seamless).
High versatility in terms of position on the head or on the face.
Quick drying.

Technical specifications: Seamless multi-position balaclava : balaclava, scarf, mask, forehead band, beanie, pirate.

Material : breathable flame retardant technical fabric 180 g/m², 87 % Meta-Aramid Nomex, 5% Para-Aramid Kevlar, 4% antistatic fibres P-140 and 4% Elastolefine

One size fits all.

Colour : navy blue.



Ref.	Description
TC42ESCI	Multi-position flame retardant balaclava



Our selection!



ARCCAG10

FLAME RESISTANT AND ARC FLASH RESISTANT BALACLAVA, ATPV 12,1 CAL/CM²

EN ISO 11612 (A1 AND A2 B1 C1 F1) / IEC 61482- 2 / EN 61482-1-2 (CLASS 1 ACCORDING TO BOX TEST), ASTM F1959-05 (12,1 CAL/CM², HAF 81,6% ACCORDING TO OPEN ARC METHOD).

Use:

Provides protection of the face and the neck against thermal hazards, especially against burn hazards from an arc flash.

To be used in addition of electrician helmet E-shark (ref : TC42ESBB) or with an helmet + face shield with protection level lower or equal to class 2 or lower or equal to 12 cal/cm².

It does not spread the flame when accidentally it comes in contact.

+ Very comfortable, ergonomic shape with flatlock seams. Possibility to wear corrective glasses.

Technical specifications:

Single layer fabric : 88% cotton and 22% nylon

Aramid thread, flatlock seams.

Ergonomic shape, length to shoulders with only one opening for the eyes.

Colour : navy blue

One size fits all.

Supplied in individual bag with user's instructions.

Ref.	Description	Size
ARCCAG10	Arc flash balaclava, ATPV 12,1 cal/cm ²	One size fits all

New!



ARCCAG24

ARC FLASH BALACLAVA - ATPV 24,7 CAL/CM²

EN ISO 11612 / EN 61482-1-2 / ASTM F1506 / NFPA70E

Use:

Provides protection of the face and the neck against thermal hazards, especially against burn hazards from an arc flash.

It does not spread the flame when accidentally it comes in contact.

+ Very comfortable, ergonomic shape with flatlock seams. Possibility to wear corrective glasses.

Technical specifications:

Single layer fabric : 88% cotton and 22% nylon

Ergonomic shape, length to shoulders with only one opening for the eyes.

Colour : navy blue

One size fits all.

Ref.	Description	Size
ARCCAG24	Arc flash balaclava - ATPV 24,7 cal/cm ²	One size fits all



Head and eyes • Glasses and headgears

Type of network: LV MV HV

B107

BEANIE

Technical specifications: Material : polyester fleece.
Colour : navy blue.



Ref.	Description	Size	Weight (g)
B107	Beanie	One size fits all	20

B108

BEANIE

Use: To be placed under the helmet for the protection of ears, cheeks and nape of the neck against cold and bad weather.

Protective beanie adapted for any type of helmet.

Technical specifications: Outside in poly cotton, inside in acrylic fur.
The ear flaps fastener, made in Velcro, acts as a chinstrap.



Ref.	Description	Size	Weight (g)
B108	Beanie	One size fits all	92

C279

DISPOSABLE HAIR RESTRAINT FOR HELMET

Use: For a better hygiene of your helmets.

Technical specifications: Round hair restraint, non woven, made in polyethylene.



Ref.	Description
C279	Disposable hair restraint for helmet



TE4400U

TP05B

WRAP-AROUND MONO-LENS SAFETY GLASSES

EN 166 / EN 169

Use: Protection of the eyes against low energy impacts.

Applications : welding works, live working.

⊕ **Ultra-light glasses**
Wrap-around shape for a side protection.

Technical specifications: Lens : green PC, welding level 2, anti-UV and anti-scratch

Impact resistance : 6 mm ball at 45 m/s

Heat resistance : up to 80°C. Optical class : 1.

Ref.	Description	Size	Weight (g)
TP05B	Wrap-around mono-lens safety glasses	One size fits all	25

Accessories:

TE4200	Standard soft case
TE4300	Rigid case with belt loop
TE4400U	Soft case



TP05B3

SAFETY GLASSES FOR LIVE LINE WORKING

EN 166 / EN 167 / EN 168 / EN 169

Use:

Live line working, welding or brasing.

Can be combined with helmets and balaclava ARCCAG10.

⊕ **Anti-slip tips for a better support**
Welding filters grade 3
Adjust itself to all face shapes

Technical specifications:

Protection against UV, bright light, flying particles and infrared light

Polycarbonate lens, UV protection, anti-scratch and anti-fog

Impact resistant (45m/s) and resistant to extreme temperatures (-5°C to +55°C)

Optical quality : class 1

New!

Ref.	Description	Weight (g)
TP05B3	Safety glasses for live line working	31



TL19

Our selection!

CLEAR ANTI-UV SAFETY GLASSES

EN 166 / EN 167 / EN 168 / EN 170

⊕ **Temples with reduced section designed for a perfect interaction with ear muffs**
Wraparound model, guarantees optimal lateral protection
Ultra-light and handy

Technical specifications:

Lens : anti-scratch and anti-fogging PC

Optical class : 1

Visible light transmittance : 91,20 %, field of view 180°

Sidearms in clear PC with lateral protection Colour : transparent

Soft nose pad

Marking = 2C-1,2 U 1 FT K

Ref.	Description	Weight (g)
TL19	Clear anti-UV safety glasses	19



Head and eyes • Glasses and headgears

Type of network: LV MV HV

TP05A

MONO-LENS SAFETY GLASSES ANTI UV

EN 166 / EN 170

Use: Protection of the eyes against low energy impacts.

+ Very light-weight

- Extra soft comfortable side arms
- Unlimited vision across the whole lens
- Integrated upper protective lip
- Ideal protection from particles

Technical specifications: Lens : clear PC, anti-scratch, impact resistant, UV resistant and resistant to chemical splashes.

Optical quality : class 1.

Adjustable sidearms in length and height

Soft nose pad.

Impact resistance : 6 mm ball at 45 m/sec.

Light transmittance : 99.5% UV absorption up to 385 nm.

Visible light transmittance : above 95%.



Ref.	Description	Weight (g)
TP05A	Mono-lens safety glasses anti UV	24
TP05AC	Mono-lens safety glasses anti UV with neck cord	30

TL20 - TL21

WRAP-AROUND SAFETY GLASSES

EN 166 / EN 170

Use: Protection of the eyes against low energy impacts (45m/sec).

+ Sportive design

- Perfect fit for high user comfort and acceptance
- Adjustable soft nose pads
- Wrap-around design for good protection from all sides

Technical specifications: Lens : anti-scratch and impact resistant PC, antistatic and anti-fogging, anti-UV and chemical resistant.

Adjustable sidearms in length and height with comfort tips.

Soft nose pad can be adjusted for a personalised comfort fit.

Impact resistance : 6 mm ball at 45 m/sec.

Light transmittance : 99.5% UV absorption up to 370 nm.

Visible light transmittance : above 95%.



Ref.	Description	Weight (g)
TL20	Clear anti-UV safety glasses	28
TL21	Solar tinted anti-UV safety glasses	28

Accessories:

TE4300	Rigid case with belt loop
TE4400U	Soft case



TS51B

MONO-LENS SAFETY OVERSPEC

EN 166 / EN 170

Use: Protection of the eyes against low energy impacts.
Eye protection for visitors or overspec for spectacle wearer.

⊕ **Wide field of view.**
Lateral protection.
Ideal for spectacle wearer.

Technical specifications: Lens : clear anti-scratch and anti-UV PC
Adjustable sidearms with soft tips
impact resistance : 6 mm ball at 45m/sec.
Light transmittance : 99.5% UV absorption up to 370 nM.
Visible light transmittance : above 95%.

Ref.	Description	Weight (g)
TS51B	Mono-lens safety overspec	42

Accessories:

TE4200	Standard soft case
TE4300	Rigid case with belt loop
TE4400U	Soft case



L5500

SAFETY ANTI-FOGGING MASK

EN 166 / EN 170

Use: Protection against low energy flying particles : liquids and dust.

⊕ **Panoramic mask.**
Allows to wear corrective glasses.

Technical specifications: Lens : clear anti-UV PC, anti-fogging with lateral protection
Frame : soft PVC with ventilation
Large elastic band.
Impact resistance : 120 m/s.
Light transmittance : 99.5% UV absorption up to 385 nM.
Visible light transmittance : above 95%.
Heat resistance : up to 60°C.

Ref.	Description	Weight (g)
L5500	Safety anti-fogging mask	130



E62

SOFT CASE

Use: Soft case for lead pliers.

Technical specifications: Cloth case with Velcro closure, with belt loop on the back.

Ref.	Dimensions (mm)	Weight (g)
E62	270 x 80 x 70	62



Head and eyes • Hearing protection

Type of network: LV MV HV

C4000

EAR MUFFS SNR 23 DB

EN 352

Use: Protection against noise, for non-intensive use.

Metal free

Technical specifications: Plastic headband and elastomer cushions.

Noise reduction: 23 dB (SNR).

Pressure on ears: 10,2 N.



Ref.	Description	Weight (g)
C4000	Ear muffs SNR 23 dB	190

C4500

EAR MUFFS SNR 32 DB

EN 352

Use: Protection against noise, for intensive use.

Technical specifications: Adjustable headband.

Elastomer cushions with ABS cups.

Noise reduction : 32 dB (SNR).

Pressure on ears: 8,2 N.



Ref.	Description	Weight (g)
C4500	Ear muffs SNR 32 dB	265

TC42AB

EAR PROTECTION SYSTEM FOR HELMET 26 DB

EN 352-3

Use: Protection against noise in places where a safety helmet is required.

Designed to be worn on ear muffs compatible safety helmet, like the E-shark helmet.

Technical specifications: Plastic headband, PVC cushions, black and yellow plastic cups.

Noise reduction: 26 dB (SNR).

Pressure on ears: 10,2 N.



Ref.	Description	Weight (g)
TC42AB	Ear protection system for helmet 26 dB	200



AB126

REUSABLE EARPLUGS 33 DB WITH CORD

EN 352-2

Use: Reusable earplugs for protection against noise.

⊕ Reusable and excellent level of noise reduction.

Technical specifications: Foamed silicone plugs with cord.

Noise reduction : 33 dB.

Packaging : box of 200 pairs of earplugs in individual bags.

Ref.	Description
AB126	Reusable earplugs 33 dB with cord



AB127

DISPOSABLE EARPLUGS 37 DB

EN 352-2

Use: High performance disposable earplugs.

⊕ High performance earplugs.

Technical specifications: Disposable foamed PU earplugs.

Noise reduction : 37 dB

Packaging : box of 200 pairs of earplugs.

Ref.	Description
AB127	Disposable earplugs 37 dB



AB129

SEMI-AURAL BANDED EARPLUGS 33 DB

EN 352-2

Use: Protection against noise for repeated non-intensive use.

⊕ Lightweight with no discomfort for non-intensive use.

Technical specifications: Adjustable headband with reusable silicone plugs.

Noise reduction : 33 dB.

Ref.	Description	Weight (g)
AB129	Semi-aural banded earplugs 33 dB	10



MRP252

SINGLE USE, FOLDABLE DUST PROOF MASK FFP2 D

EN 149 : 2001 + A : 2009 / EN 14683 : 2006 FFP2 = MINIMUM FILTRATION LEVEL: 94%

Use: Respiratory protection against fine particles such as dust from concrete, cement, plaster (demolition, structural works, sanding), fine paint and resin particles, plastics (sandblasting, sanding), etc.

For intensive use, for prolonged activities.

Anti-virus, pollution-proof and hypoallergenic.

- **Patented innovation: better wearing comfort (greatly reduced breathing efforts) and optimal protection at inhalation as well as exhalation.**
- **Ultra lightweight and ergonomics thanks to the adjustable nose piece.**
- **Hypoallergenic, latex-free and PVC-free.**
- **Environmentally friendly: 80% recyclable.**

Technical specifications: - Single use polypropylene mask fitted with 2 elastic holding straps, metal-free.

- Valve-less technology: provides optimal breathing ease for mask wearers.
- Colour : white, colour coded according to filtration level.
- Hygiene guaranteed by individual packaging.
- Made in France.

Minimum order : box of 25 masks.



Ref.

Description

MRP252

Single use, foldable dust proof mask FFP2 D

MRP352

SINGLE USE, FOLDABLE DUST PROOF MASK FFP3 D

EN 149 : 2001 + A1 : 2009 / EN 14683 : 2006 / FFP3 = MINIMUM FILTRATION LEVEL: 99%

Use: Respiratory protection against the finest particles such as asbestos fibres, mineral wool, fibreglass dust, wood and hardwood dust, lead, metal welding fumes, etc.

For intensive use, for prolonged activities.

Anti-virus, pollution-proof and hypoallergenic.

- **Patented innovation : better wearing comfort (greatly reduced breathing efforts) and optimal protection at inhalation as well as exhalation.**
- **Ultra lightweight and ergonomics thanks to the adjustable nose piece.**
- **Hypoallergenic, latex-free and PVC-free.**
- **Environmentally friendly : 80% recyclable.**

Technical specifications: - Single use polypropylene mask fitted with 2 elastic holding straps, metal-free.

- Valve-less technology : provides optimal breathing ease for mask wearers.
- Colour : white, colour coded according to filtration level.
- Hygiene guaranteed by individual packaging
- Made in France.

Minimum order : box of 25 masks.



Ref.

Description

MRP352

Single use, foldable dust proof mask FFP3 D



MRP253

SINGLE USE, DUST PROOF SOFT CUP MASK FFP2 D

EN 149 : 2001 + A1 : 2009 FFP2 = MINIMUM FILTRATION LEVEL: 94%

Use: Respiratory protection against fine particles such as dust from concrete, cement, plaster (demolition, structural works, sanding), fine paint and resin particles, plastics (sandblasting, sanding), etc.

For intensive use, for prolonged activities.

Anti-virus, pollution-proof and hypoallergenic.

- **Patented innovation : better wearing comfort (greatly reduced breathing efforts) and optimal protection at inhalation as well as exhalation.**
- **Airtightness is guaranteed thanks to its patented nose seal.**
- **Hypoallergenic latex-free and PVC-free.**
- **Environmentally friendly : 100% recyclable.**

Technical specifications: - Single use polypropylene cup shape mask fitted with 2 elastic holding straps, metal-free.

- Integrated nasal seal.
- Valve-less technology: provides optimal breathing ease for mask wearers.
- Colour : white, colour coded according to filtration level.
- Made in France.

Minimum order : dispenser box of 10 masks.

Ref.	Description
MRP253	Single use, dust proof soft cup mask FFP2 D



MRP353

SINGLE USE, DUST PROOF SOFT CUP MASK FFP3 D

EN 149 : 2001 + A1 : 2009 FFP3 = MINIMUM FILTRATION LEVEL: 99%

Use: Respiratory protection against the finest particles such as asbestos fibres, mineral wool, fibreglass dust, wood and hardwood dust, lead, metal welding fumes, etc.

For intensive use.

Anti-virus, pollution-proof and hypoallergenic.

- **Patented innovation: better wearing comfort (greatly reduced breathing efforts) and optimal protection at inhalation as well as exhalation.**
- **Airtightness is guaranteed thanks to its patented nose seal.**
- **Hypoallergenic, latex-free and PVC-free.**
- **Environmentally friendly: 100% recyclable.**

Technical specifications: Single use polypropylene cup shape mask fitted with 2 elastic holding straps, metal-free.

- Integrated nasal seal.
- Valve-less technology : provides optimal breathing ease for mask wearers.
- Colour : white, colour coded according to filtration level.
- Made in France.

Minimum order : dispenser box of 5 masks, a pack contains 18 boxes, being 90 masks.

Ref.	Description
MRP353	Single use, dust proof soft cup mask FFP3 D



Head and eyes • Respiratory protection

Type of network: LV MV HV

DM171

DUAL CARTRIDGE HALF MASK

EN 140

Use: Respiratory protection against organic gases and vapours (with filter A), inorganic gases and vapours (with filter B), fine particles (with filter P2), toxic fumes...

For intensive use and prolonged activities.

- One of the lightest mask on the market.
- Hypoallergenic, latex-free and PVC-free.

Technical specifications: - Reusable mask body containing : valve respirator, headband and rear attachments and prefilter retainers.

- 2 exhalation valves.
- Ergonomic headband.
- Colour : white and blue.

Delivered without filter.

Advice: Do not use when oxygen concentration is less than 19% in volume.



Ref.	Description	Weight (g)
DM171	Dual cartridge half mask	53

D171AB

FILTERING CARTRIDGES

EN 14387

Use: Respiratory protection against :

- organic gases and vapours (filter A)
- inorganic gases and vapours (filter B)

For intensive use and long-term work.

To be combined with a pre-filter P2.

Technical specifications: Minimum order : bag of 2 filters.

Advice: Precaution of use : it is advised to regularly change the filter before it becomes clogged (difficulty to breath).

Ref.	Description
D171AB	Filtering cartridge A2B1 (bag of 2 units)

D172FFP2

PRE-FILTERS P2

EN 143

Use: Respiratory protection against dust from concrete, cement, plaster, fine paint and resin particles, plastics, etc.

Anti-virus (avian influenza, SARS), anti-bacteria (tuberculosis), pollution proof, anti-allergen.

Technical specifications: Minimum order : bag of 10 units.

Ref.	Description
D172FFP2	Pre-filters P2



M133

FREE AIR BREATHING APPARATUS

EN 138:1995

Use: PPE class 2 , designed for respiratory protection with spontaneous breathing .

It provides isolation with atmospheric pressure air.

Designed to be used with a full-face mask EN 136 class 2.

The apparatus operates without external power

+ Autonomous work in confined areas

Technical specifications: Content :

- Strainer
- Plastic bend
- Corrugated hose
- Harness
- Collar 24-36 mm with safety-hook
- Hose Ø 35 mm (8 meters)
- Female Rd40 Connection - Ø 36 mm Male
- Broken ring Ø 20
- Collar 43-46 mm with two ears
- Collar 28-31 mm with two ears
- Open die 28 mm
- Peg for anchorage
- O-ring seal R21

Designed to be used with a full-face mask EN 136 class 2 (not supplied).

Ref.	Description	Dimensions (mm)	Weight (g)
M133	Free air breathing apparatus	500 x 550 x 200	14



SFE ARIBASIC

CLASSIC MULTI-SITUATION SELF-CONTAINED BREATHING APPARATUS

EN 137, TYPE 2

Technical specifications: Standard comfort harness.

Includes:

- Non-metallic, self-extinguishing and ergonomic back-plate
- Three carry handles and an attachment point for a lifeline
- Padding on the shoulders and bottom of the back for greater comfort
- Compatible with all types of standard 4L/200 bar compressed air cylinders
- Adjustable cylinder collar; can be converted to dual cylinder by simple addition of a cross member
- Reducer with built-in second user outlet
- Harness with aramid fibre straps, compliant with EN 137, Type 2
- Flame-resistant fluorescent straps on shoulder and belt straps
- Low pressure alarm whistle close to the ear
- HP/MP reducer with safety valve
- Demand valve with bypass button
- Full mask compliant with standard EN 136 – Class III

Supplied without air cylinder

Ref.	Description
SFE ARIBASIC	Classic multi-situation self-contained breathing apparatus



Head and eyes • Respiratory protection

Type of network: LV MV HV

SFE ARIPRO

SPECIAL SELF-CONTAINED BREATHING APPARATUS FOR EXTREME CONDITIONS

EN 137, TYPE 2

Technical specifications: Includes :

- Non-metallic, ergonomic and flexible back-plate
 - Four carry handles and an attachment point for a lifeline
 - Padding on the straps, belt and at the top of the back for greater comfort
 - Multiple anchoring points for addition of accessories
 - Fast tightening adjustment buckles
 - Full mask with impact-resistant polycarbonate lens with scratch-resistant coating, wide field of vision without optical distortion
 - Positive pressure demand valve with quick connection and first breath activation
 - Reducer with built-in second user outlet
 - Thermo-compressed harness and straps made of self-extinguishing aramid
 - Flame-resistant photo-luminescent strips on the straps and belt
 - Low air warning whistle integrated in the manometer with an antistatic HP/MP hose
 - HP/MP reducer with safety valve
- Supplied without air cylinder



Ref.

Description

SFE ARIPRO

Special self-contained breathing apparatus for extreme conditions

SFE ARIBOT6

6L 300 BAR AIR CYLINDER FOR SCBA

Technical specifications: Steel

Delivered empty



Ref.

Description

SFE ARIBOT6

6L 300 bar air cylinder for SCBA

SFE ARIBOT6C

6.9L 300 BAR AIR CYLINDER FOR SCBA

Technical specifications: Composite insulation

Delivered empty



Ref.

Description

SFE ARIBOT6C

6.9L 300 bar air cylinder for SCBA

GASDETECT

MULTI-GAS DETECTOR

• Compact and lightweight, easy to wear

Technical specifications: • Safety : one-button operating

- Fully functional self-test that checks the sensor, battery status, circuit integrity and audio/visual alarm upon switching on
- Integrated impact-resistant housing, watertight (IP66/67)
- Internal vibrating alarm for very noisy locations
- Alarms: visual, vibrating and audio alarm (95dB) - low, high, boundary and average exposure limits and off scale
- Gases detected : H2S, CO, O2, gas and fuel
- Marking : CE Ex II 1 G Ex ia IIC T4 Ga
- Battery life: 10 hours on average, quick recharging



Ref.

Description

GASDETECT

Multi-gas detector



NEW RANGE

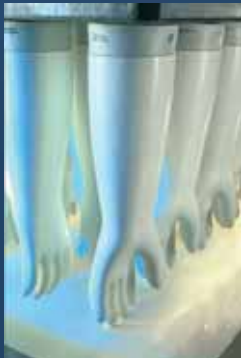
GLOVE RANGE

OUR RANGE OF INSULATING GLOVES FOR LIVE WORKING IS MANUFACTURED IN FRANCE ON A SITE WITH ISO 9001:2008 CERTIFICATION. CONTROL OVER THE ENTIRE MANUFACTURING OPERATION GUARANTEES VERY HIGH QUALITY STANDARDS.

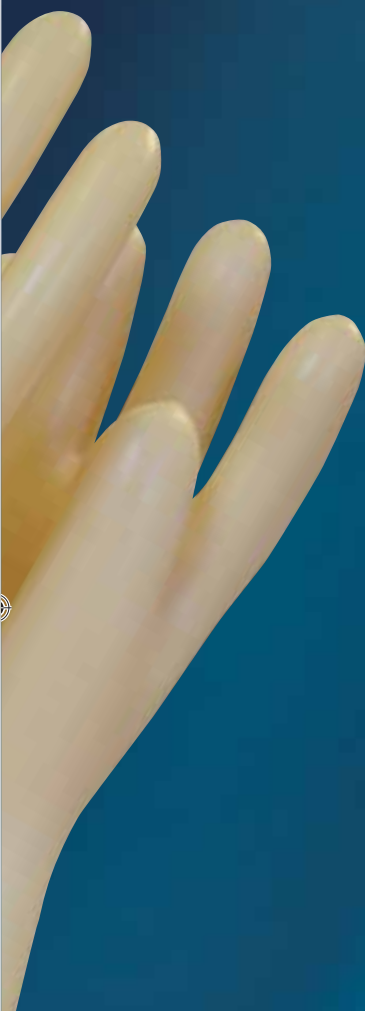
Unlike other industrial processes, our gloves are manufactured in aqueous form (water based), without the use of solvents. That quality, combined with the use of natural materials (latex), provides assurance of greater concern for the environment.

Our quality assurance laboratory is integrated into our production lines and allows us to carry out all the tests according to applicable EN 60903 and IEC 60903 standards and future standards.

The quality approach with visual and dielectric inspection of 100% of the production offers users the guarantee of conformity.



**MADE IN
FRANCE**



GENERAL INFORMATION

According to applicable standards EN 60903 and IEC 60903

Class	Max. operating voltage AC	Max. operating voltage DC
00	500V	750V
0	1000V	1500V
1	7500V	11250V
2	17000V	25500V
3	26500V	39750V
4	36000V	54000V

MEANING OF THE NORMATIVE MARKING ON EACH GLOVE

example of a composite glove, with the 'hammer' pictogram in addition

Special properties

Category	Resists
A	Acid
H	Oil
Z	Ozone
R	Acid, Oil, Ozone
Mechanical protection	
C	Very low temperature

Note 1: the R category combines the characteristics of categories A, H and Z

Note 2: Any combination of categories may be used

The diagram shows a composite marking on a glove with the following components and labels:

- Class of gloves:** Indicated by two upward-pointing triangles.
- Category:** Indicated by the text '00 / AZC'.
- Month of manufacture:** Indicated by the number '11'.
- Year of manufacture:** Indicated by the number '14'.
- Trademark logo:** The 'SIBILLE SAFE' logo.
- Part number and size:** Indicated by the text '10 GLB 00 36'.
- Mechanical resistance of the glove:** Indicated by a hammer pictogram.
- Manufacturing batch no.:** Indicated by the text 'LOT XXXX'.
- Identification of manufacturer:** Indicated by the text 'REG'.
- Inspection body no./CE marking:** Indicated by the text 'CE 0333'.
- Date of commissioning:** A row of five empty boxes.
- Date of the periodic inspection:** A row of five empty boxes.



NEW RANGE

INSULATING LATEX GLOVES

EN 60903 AND IEC 60903

Use :

- Insulation of hands by class and according to the nominal supply voltage.
- Must be used with a pair of leather overgloves for a mechanical protection.

Technical specifications :

- Beige natural latex insulating gloves for electricians, cut edges.



- > Wide range of glove sizes available: from 7 to 10 according to the classes
- > Its ergonomic shape and lightly powdered interior make the glove easy to slip on and off.
- > Its natural latex base offers high dielectric characteristics.



Meaning of the references

GLB4-41-10

Glove code

Class 4

Length 41 cm

Size 10

Ref.	Class	Max. operating voltage	Length	Sizes	Category
GLB00-36-*	00	500 V AC	36 cm	7-12	AZC
GLB0-36-*	0	1 000 V AC	36 cm	7-12	AZC
GLB1-36-*	1	7 500 V AC	36 cm	7-12	AZC
GLB2-36-*	2	17 000 V AC	36 cm	7-12	RC
GLB3-36-*	3	26 500 V AC	36 cm	8-12	RC
GLB4-41-*	4	36 000 V AC	41 cm	8-12	RC

Complete the reference with the desired size, example : GLB1-36-10 for a pair of gloves class 1 size 10.

Other colours available on request (red or black).

Other lengths available on request (28 and 41 cm according to the class).



INSULATING COMPOSITE GLOVES

EN 60903 AND IEC 60903

Use :

- Insulation of hands by class and according to the nominal voltage and mechanical protection.
- Maintenance operations with high mechanical risk.

Technical specifications :

- Natural latex insulating glove, outside in orange red elastomer, cut edges.
- Special properties (RC category) with mechanical protection.



- > Product appreciated for its long last and precision.
- > The chemical formula of the exterior cladding ensures exceptional grip gloves in humid environment.
- > The outer orange elastomer layer provides excellent mechanical resistance, for use without leather overglove.
- > Its anatomical shape makes flexing easier while ensuring a high level of protection.
- > To reduce effects of sweating, a pair of mittens is delivered with each pair of gloves.

Meaning of the references

GC4-41-10

Glove code
Class 4
Length 41 cm
Size 10

Ref.	Class	Max. operating voltage	Length	Sizes	Category
GC00-36*	00	500 V AC	36 cm	7-12	RC
GC0-36*	0	1 000 V AC	36 cm	7-12	RC
GC1-36*	1	7 500 V AC	36 cm	7-12	RC
GC2-36*	2	17 000 V AC	36 cm	8-12	RC
GC3-36*	3	26 500 V AC	36 cm	8-12	RC
GC4-41*	4	36 000 V AC	41 cm	8-12	RC

Complete the reference with the desired size, example GC1-36-11 for a pair of gloves class 1 size 11.
Other lengths available on request.



Innovation !



GCA-41

COMPOSITE INSULATING GLOVES CLASS WITH ARC FLASH PROTECTION

EN 60903 / CEI 60903 TEST REPORT REGARDING IEC 61482-1-2 (CLASS 2 / 7KA - 0,5 SEC) TEST REPORT REGARDING ASTM F2675 (ATPV = 71,6 CAL/CM²)

Use:

Composite insulating gloves with dielectric and arc flash protection for working in full safety without leather protectors.

- +** - 3 protections in 1 glove : dielectric, mechanical and thermal protection
- Special formula outer coating provides an exceptional grip even in wet conditions

Technical specifications:

Latex glove with a reddish orange outer coating of special high performance elastomer formula, black inner coating, cut edges, length 41 cm.

Special properties (RC category) with mechanical protection.

To reduce the effects of sweating, each pair is sold with a pairs of cotton liner. Separated, the cotton liners may be replaced, thus limiting bacteriological problems associated with residual humidity caused by sweating

Ref.	Class	Thickness (mm)	Max operating voltage	Arc Rating Category	Size
GCA0-41	0	2,1	1 000V AC	Level 4	7 to 12
GCA2-41	2	3,1	17 000V AC	Level 4	8 to 12
GCA3-41	3	3,6	26 500V AC	Level 4	8 to 12
GCA4-41	4	4,8	36 000V AC	Level 4	8 to 12

Complete the reference with the desired size, example : GCA0-41-10 for a pair of gloves class 0 size 10. Complete the reference with the desired size, example : GCA0-41-10 for a pair of gloves class 0 size 10.



TG40 to TG48

SILICONIZED LEATHER OVERGLOVES

EN 420 / EN 388 (MECHANICAL RESISTANCE : ABRASION 2 - SLICING 1 - TEAR 2 - PERFORATION 2)

Use: The gloves assure a mechanical protection of latex insulating gloves.

Technical specifications: Natural full grain leather 5 finger gloves, American cut, wing thumb, tightening strap on the back of the hand, 100 mm split leather cuff.

Ref.	Size
TG47 08	8
TG40 09	9
TG45 10	10
TG48 11	11



Hands • Insulating gloves and accessories

Type of network: LV MV HV

New!

SG

LEATHER OVERGLOVES

EN 420 / EN 388 (MECHANICAL PROTECTION : ABRASION 2 - SLICING 1 - TEAR 2 - PERFORATION 2)

Use:

The gloves assure a mechanical protection of latex insulating gloves.

+ Good fitting regarding our insulating gloves, with large range of sizes in accordance with the whole class of linemen gloves.

Technical specifications:

Full grain leather 5 finger gloves, water repellant and siliconized for better flame resistance. Wing thumb, 100 mm split leather cuff, tightening strap on the back of the hand.



Table of equivalence of the latex gloves (GLB) with leather overgloves

		Class of the latex gloves (GLB)					
		00	0	1	2	3	4
Size of the latex gloves (GLB)	7	A	A	B	B	N/A	N/A
	8	B	B	C	C	E	E
	9	B	B	C	C	E	E
	10	C	C	D	E	F	F
	11	D	D	E	F	G	G
	12	E	E	F	G	G	G

Ref.	Size
SGA	A
SGB	B
SGC	C
SGD	D
SGE	E
SGF	F
SGG	G

New!

SGM-OS

COTTON FINGERLESS INNER GLOVES

Use:

To be worn under insulating gloves.

+ Limits the effects of sweating
Its fingerless shape provides optimum dexterity

Technical specifications:

Knitted cotton fingerless gloves, flat cut. edge coasts.

One size fits all.

Ambidextrous gloves.

Packaged per 12 pairs.



Ref.	Description	Size
SGM-OS	Cotton fingerless inner gloves	One size fits all



GSG100

FLAME RESISTANT INNER GLOVES

EN 420 / EN 407 / EN 388

Use: Protection against thermal hazards up to 250°C.

Ideal for handling sharp edged components in hot and dry work spaces.

+ **Comfortable :** the knitted process provides good dexterity and comfort
Resistant : Nomex fibres have a low tendency to fluff and provides great heat resistance up to 250°C.

Technical specifications: Knitted Nomex gloves, knitted cuff, ambidextrous, size 9.

Ref.	Description	Size
GSG100	Flame resistant inner gloves	9 (one size only)



G86

COTTON INNER GLOVES

EN 420

Use: May be efficiently used under Latex gloves.

+ **Excellent dexterity, sweat absorbent, lint-free.**

Technical specifications: Made in cotton.

2 sizes available:

D = ladies (sizes 7 and 8) - H = men (sizes 9 to 11)

Ref.	Description	Size
G86D	Cotton inner gloves - ladies	7 and 8
G86H	Cotton inner gloves - men	9 and 11



TV10

TESTER FOR INSULATING GLOVES

Use: The purpose of the tester is to ensure that the glove is absolutely air-tight.

Technical specifications: Moulded plastic body:

- truncated end with two grooves for holding the glove under test
- a central piston at the bottom of the tester
- a flexible valve at the bottom of the bowl on the upper part
- two rubber rings to hold the glove during inflation

Ref.	Weight (g)	Dimensions (mm)
TV10	504	135 x 135 x 125



Hands • Insulating gloves and accessories

Type of network: LV MV HV

TC108

INSULATING STORAGE BOX FOR ELECTRICIANS' GLOVES

Use: To be placed in all substations.

Technical specifications: The transparent anti-UV ray window is for checking the presence of gloves.

Made entirely of insulating material, shock proof, it is strong enough for use as a carrying box.

Its size prevents internal compression of insulating gloves up to class 4 (up to 36kV).

Secured by 2 holes.

Colour : orange.

Delivered with powder flask TS10T.



Ref.	Dimensions (mm)	Weight (g)
TC108	480 x 220 x 80	750

TS10

CANVAS STORAGE BAG FOR ELECTRICIAN'S GLOVES

Technical specifications: Made of tough reinforced waterproof material for transporting electrician's gloves in vehicles, bags or toolboxes.

Bag fitted with a snap fastener and inside gusset for the flask of talcum powder.

Delivered without flask of talcum powder.



Ref.	Description
TS10	Canvas storage bag for electrician's gloves

TS10T

POWDER FLASK

Technical specifications: Powder flask with removable nozzle and cap, filled with talcum powder.

Capacity : 50 g

Specially designed for boxes TC108 and bags TS10.



Ref.	Capacity (g)	Weight (g)
TS10T	50	70



TG55 to TG68

HANDLING LEATHER GLOVES

EN 420 / EN 388 (MECHANICAL PROTECTION : ABRASION 2 - SLICING 1 - TEAR 2 - PERFORATION 3)

Use: For small and medium handling, inside or outside works.

To protect against mechanical risks.

Technical specifications: 5 finger glove, cowhide full grain leather, American cut, wing thumb, elastic wrist.

Sewed with polyester/cotton thread.

Ref.	Description	Size
TG55 08	Handling leather gloves size 8	8
TG56 09	Handling leather gloves size 9	9
TG57 10	Handling leather gloves size 10	10
TG58 11	Handling leather gloves size 11	11
TG65 08	Handling leather gloves with aeration size 8	8
TG66 09	Handling leather gloves with aeration size 9	9
TG67 10	Handling leather gloves with aeration size 10	10
TG68 11	Handling leather gloves with aeration size 11	11



TG73 to TG76

HANDLING LEATHER GLOVES

EN 420 / EN 388 (MECHANICAL PROTECTION : ABRASION 2 - SLICING 1 - TEAR 1 - PERFORATION 1)

Use: For small and medium handling, inside or outside works.

Designed to protect against mechanical risks (and prevention of wrist light cuts).

Technical specifications: 5 finger glove, water-repellent cowhide full grain leather, American cut, wing thumb, elastic wrist with arterial protection.

Ref.	Size
TG73 08	8
TG74 09	9
TG75 10	10
TG76 11	11



G01

DOCKER GLOVES

EN 420 / EN 388 (MECHANICAL PROTECTION : ABRASION 4 - SLICING 1 - TEAR 3 - PERFORATION 3)

Technical specifications: 5 finger glove, American cut, wing thumb with one-piece index finger, elastic wrist with cuff.

Cowhide split leather for the palm with lining and split leather reinforcement, back and cuff in red cloth with split leather reinforcement.

Fingertips are reinforced with split leather.

Ref.	Description	Size
G01	Docker gloves	One size fits all



Hands • Work gloves

Type of network: LV MV HV

TG05

HANDLING LEATHER GLOVES WITH CUFF

EN 420 / EN 388 (MECHANICAL PROTECTION : ABRASION 3 - SLICING 1 - TEAR 2 - PERFORATION 3)

Use: For medium handling.

Designed to protect against mechanical risks (prevention of wrist cuts).

Technical specifications: 5 finger glove, cowhide full grain leather palm, split leather back, American cut, wing thumb and one-piece index finger, 150 mm split leather cuff.

Sewed with polyamide thread.



Ref.	Description	Size	Overall length (mm)
TG05	Handling leather gloves with 15 cm cuff	1 size only (9-10)	330
TG05B	Handling leather gloves with 21 cm cuff	1 size only (9-10)	335

G02

WELDING GLOVES

EN 420 / EN 388 (MECHANICAL PROTECTION : ABRASION 3 - SLICING 1 - TEAR 3 - PERFORATION 2)

Technical specifications: 5 finger glove, premium quality fireproof red cowhide full grain leather, American cut, wing thumb and one-piece index finger, 150 mm split leather cuff with arterial protection.

Sewed with aramid thread



Ref.	Overall length (mm)	Size
G02	355	One size fits all

G109

PETROLEUM PVC GLOVES

EN 374 / EN 388 (MECHANICAL PROTECTION : ABRASION 4 - SLICING 1 - TEAR 1 - PERFORATION 1)

Use: Special handling PVC-coated gloves for hydrocarbons and acids.

Gloves recommended for the handling of batteries.

Technical specifications: Interlock cotton frame, PVC-coated.

Anti-static smooth model.

Colour : red.



Ref.	Length (cm)	Size
G109	40	One size fits all



GA25

SOFT LEATHER GLOVES

EN 420 / EN 388 (MECHANICAL PROTECTION : ABRASION 3 - SLICING 1 - TEAR 3 - PERFORATION 3)

Use: Designed to protect against mechanical risks.

For small and medium handling, inside or outside work.

Technical specifications: 5 finger glove, cowhide full grain leather, American cut, wing thumb and one-piece index finger, elastic wrist.

Sewed with polyester/cotton thread.

Ref.	Size	Length (mm)
GA25	8 to 11	250

Complete the reference with the desired size, example : GA2509 for a pair of gloves size 9.



G115N

CUT RESISTANT GLOVES WITH PU COATED PALM

EN 420 / EN 388 (MECHANICAL PROTECTION : ABRASION 4 - SLICING 5 - TEAR 4 - PERFORATION 3)

Use: Thanks to its technical characteristics, this glove is suitable for all major work requiring dexterity and a significant protection against mechanical risks including cut (level 5).

⊕ **Seamless knitting : the seamless liner provides exceptional comfort and reduces hand fatigue.**
Elasticated knitted wrist for a snug fit.

Technical specifications: Construction : seamless knitted pattern. Liner made up of high density polyethylene fibres (HDPE) mixed with other technical fibers (such as polyamide, wrapped glass fibres).

Elasticated knitted wrist.

Open back

Ref.	Size
G115N	6 to 11

Complete the reference with the desired size, example : G115N09 for a pair of gloves size 9.



G116N

PU COATED HANDLING GLOVES

EN 420 / EN 388 (MECHANICAL PROTECTION : ABRASION 4 - SLICING 1 - TEAR 3 - PERFORATION 1)

Use: Thanks to its technical characteristics, this glove is particularly suitable for all major works requiring dexterity and an high touch as well.

⊕ **Tight fitting construction to give maximum dexterity.**
The soft seamless liner provides exceptional comfort, reduces hand fatigue and will not irritate hand even during long periods of wear.
Elasticated knitted wrist for a snug fit.
The back of the glove uncoated allowing the hand to breathe.

Technical specifications: Seamless knitted liner.

Polyamid fibres.

PU coated palm.

Open back (ventilated).

Elasticated knitted wrist.

Grey colour

Ref.	Size
G116N	7 to 11

Complete the reference with the desired size, example : G116N09 for a pair of gloves size 9.



Our selection!

C974- C975

SAFETY BOOTS S3 HRO FOR LINEMEN

EN ISO 20345 : 2011 / MARKING : S3 HRO SRC

Use:

Especially designed for linemen and recommended for wearing pole climbers.

- +** **Metal free.**
- No side seams on the upper to avoid risk of tearing while wearing pole climbers.
- Optimal comfort in all types of weather thanks to its breathable-waterproof membrane.
- Sole with nitrile rubber pads to improve grip on all types of floors.

Technical specifications:

Upper features:

Water-repellent full-grain leather, top of the upper in Cordura®.
Inner lining with Sympatex® breathable-waterproof membrane for ankle boots only.
Cushioned and gusseted tongue.

Sole : polyurethane/ Vibram® rubber with cleats.

Protection: non metallic toecap (200 j) and anti-puncture non metallic mid sole.



Ref.	Description	Size
C974--	Low cut safety shoes S3 HRO for linemen	39 to 47
C975--	Safety ankle boots S3 HRO for linemen	39 to 47

Complete the reference with the desired size, example : C97445 for a pair of shoes model C974 size 45.

C960 - C970

SAFETY SHOES S3CI , FULLY NON-METALLIC

EN ISO 20345 : 2011 SLIP RESISTANCE : SRC

Use: Recommended for usual LV electrical works.

This is not a dielectrical insulating outsole footwear.

- +** **Model entirely non-metallic :**
- Non-magnetic : non-detectable through security gates
- Electrically non-conductive
- Non thermal conductive.
- Oil and water repellent full-grain leather.

Technical specifications: Unisex design.

Sole features:

Made of isothermal double density polyurethane, very resistant to hydrolysis and hydrocarbons.
Parabolic concept : concave structure of the Parabolic sole allows the progressive deformation of the sole in order to optimise grip and recycle energy (giving dynamism and a spring effect for better comfort and less fatigue).
Shock cushion system on the heel.

Upper features:

Oil and water repellent full-grain leather.
Cambrelle lining: very resistant to abrasion, absorbs humidity and dries quickly.
2,2 mm thickness leather for better resistance and durability.
Gusseted tongue.

Protection:

Ergonomic toecap in polycarbonate (200 joules).
Anti-puncture mid sole in high-tenacity fibres (1100 N).



Ref.	Description	Size	Average weight (kg)
C960 --	Low cut safety shoes S3CI	37 to 48	1,1
C970 --	Safety ankle boots S3CI	37 to 48	1,2

Complete the reference with the desired size, example : C96045 for a pair of shoes model C960 size 45.



C980

SAFETY ANKLE BOOTS SC3CI, FULLY NON-METALLIC WITH BREATHABLE-WATERPROOF MEMBRANE

EN ISO 20345 SLIP RESISTANCE : SRC

Use: Recommended for construction industry, in moist environments or extreme conditions.

+ Model entirely non-metallic :

- Non-magnetic : non-detectable through security gates
- Electrically non-conductive
- Non thermal conductive.

Lining with breathable-waterproof Sympatex membrane that keep the foot dry and comfortable.

Technical specifications: Unisex design.

Sole features :

Made of isothermal double density polyurethane, very resistant to hydrolysis and hydrocarbons.

Parabolic concept: concave structure of the Parabolic sole allows the progressive deformation of the sole in order to optimise grip and recycle energy (giving dynamism and a spring effect for better comfort and less fatigue).

Shock cushion system on the heel.

Upper features :

Oil and water repellent premium full-grain leather.

Cambrelle lining (very resistant to abrasion absorbs humidity and dries quickly) with breathable-waterproof membrane.

2,2 mm thickness leather for better resistance and durability.

Gusseted tongue.

Protection:

Ergonomic toecap in polycarbonate (200 joules).

Anti-puncture mid sole in high-tenacity fibres (1100 N).

Ref.	Size	Average weight (kg)
C980 --	38 to 48	1,2

Complete the reference with the desired size, example : C98045 for a pair of shoes size 45.



C90B - C90H

NON-METALLIC SAFETY SHOES S3

EN ISO 20345 : 2011 / MARKING S3 CI WRU SLIP RESISTANCE: SRC

Use: Electrical and industrial maintenance.

+ Entirely non-metallic : thermal insulation and non-magnetic, lightweight.

Wide fit. Great sole resistance to hydrolysis (heat and moist).

C91H : PU/Nitrile sole for a better heat resistance to heat, hydrocarbons and hydrolysis.

Technical specifications: Water repellent full grain leather, thickness : 2,2 mm for improved mechanical resistance and durability

Three-dimensional micro-porous textile : excellent breathability and sweat absorption

PU2D sole resistant to hydrocarbons

Shock cushion system on the heel.

protection :

Non-metallic toecap 200 J.

Non metallic anti-puncture mid sole for models C90B and C90H only.

Ref.	Description	Size
C90B	Non-metallic safety shoes S3	38 to 48
C90H	Non-metallic safety ankle boots S3	38 to 48
C91H	Safety ankle boots S3 with PU/nitrile sole	38 to 48

Complete the reference with the desired size, example : C90B45 for a pair of shoes model C90B size 45.



Feet • Shoes

Type of network: LV MV HV

C80B – C80H

SAFETY SHOES S1P

Technical specifications: Full grain leather upper, cushioned top.
Fastened with laces, stainless steel bodkins.
PU2D Sole.
Non-metallic toecap 200 J and stainless steel anti-puncture mid sole



Ref.	Description	Size
C80B--	Safety ankle boots S1P	35 to 47
C80H--	Low cut safety shoes S1P	35 to 47

Complete the reference with the desired size, example C80B45 for a pair of shoes model C80B size 5.

New!

C99-ISOL

SAFETY SHOES WITH INSULATING SOLES UP TO 20 KV

EN ISO 20345:2011

Use:

Recommended for applications in the electrical industry in dry conditions.

+ HRO = heat resistance of the sole (300 °C during 1 min),
EH = Dielectric resistance of the sole : up to 20 kV (regarding
ASTM F2412)
SRA = antislip profile

Technical specifications:

Entirely non-metallic.
Low upper : water repellant full grain leather, derby-type, thickness : 2 mm
Breathable micro-aerated inner lining.
Fastened with laces.
Removable antistatic and antibacterial insole
PU/Nitrile sole, resistant to oil and hydrocarbons, insulated up to 20 kV in dry conditions

Protection :

- Non-metallic toecap : 200 J, non-magnetic, lightweight
- Non-metallic flexible mid sole.



Ref.	Description	Size
C99B-ISOL	Safety low cut safety shoes with insulating soles up to 20 kV	38 to 47
C99H-ISOL	Safety ankle boots with insulating soles up to 20 kV	38 to 47

Complete the reference with the desired size, example : C99B-ISOL45 for a pair of shoes model C99B-ISOL size 45.



TC51N

LIVE WORKING BOOTS WITH INSULATED SOLES

EN ISO 20345 : 2011 / MARKING SB P HRO WRU E FO

Use: Safety boots with insulated soles for live working, protection against step voltage in dry conditions.

- ⊕ • Side zip : quick slip on/off
- Perfect ankle support and very comfortable boot
- Cap protection and reinforced stitches
- Stiffened sole for work on scales and poles

Technical specifications: Sole :

- Textile antiperforation midsole 1430 N
- Nitrile rubber sole
- High resistance to extreme heat (>300°C)
- Heel grip : 18 mm / 0,71 inch
- Tested up to 6KV regarding Technical Specification HTA 70A from EDF

Upper :

- Composite toe cap 240 J
- Full grain leather, water & oil resistant
- Waterproof tongue
- Thinsulate lining : breathable and great insulation fabric

Ref.	Height (cm)	Size	Average weight (kg)
TC51N	24	38 to 48	1,8

Complete the reference with the desired size, example : TC51N45 for a pair of boots size 45.

New !



TC52

LIVE WORKING BOOTS WITH INSULATING SOLES

EN ISO 20345 : 2011 / MARKING SBP E WR FO

Use:

Safety boots with insulating soles for live working, protection against step voltage in dry conditions.

- ⊕ • Very sturdy and comfortable
- Made in France
- Individually tested regarding the Technical Specification HTA70A from EDF, but up to 10kV instead of 6kV

Technical specifications:

- | | |
|--|--|
| Sole : | 2,7 mm |
| Norwegian stitch : sturdy and waterproof shoes | Leather inner lining, thickness : 1 / 1,2 mm |
| Nitrile sole resistant to hydrocarbons with cleats | Quilted fold-down collar |
| Dielectric rubber mid sole, thickness : 2,5 mm | Leather inner mid sole |
| Dielectric resistance of the insole : up to 10 kV leather half insoles | Rustproof eyelets |
| | Steel toecap 200 joules with protective foam |
| | Stainless steel anti-puncture mid sole |

Upper :

Water repellant full leather, thickness : 2,5 /

Ref.	Size
TC52	38 to 48

Complete the reference with the desired size, example : TC5245 for a pair of boots size 45.



Feet • Boots

Type of network: LV MV HV

TB19BT

LV DIELECTRIC SAFETY BOOTS 1000 V

EN 50321 CLASS 0 / EN ISO 20347 / MARKING OBE SRA

Use: Insulating boots that protect workers from risks of step voltage during live working operations with a maximum nominal voltage of 1000V AC.

Technical specifications: Made of dielectric rubber.
Individually tested.



Ref.	Size	Average height (mm)	Average weight (kg)
TB19BT --	36 to 48	370	1.85

Complete the reference with the desired size, example : TB19BT45 for a pair of boots size 45.

TB19

LIVE WORKING SAFETY BOOTS 20 000 V

EN ISO 20345 / MARKING SB P E CI SRC

Use: Insulating boots that protect workers from risks of step voltage during live working operations with a maximum nominal voltage of 20 000V AC.

+ Anti-puncture midsole made of high-tenacity fibres.
Non-metallic toecap.

Technical specifications: Made of dielectric rubber.
Hydrocarbons-resistant sole.
Individually tested at 13 000V.
Maximum leakage current : 7mA.



Ref.	Size	Average height (mm)	Average weight (kg)
TB19 --	36 to 48	370	1.95

Complete the reference with the desired size, example TB1945 for a pair of boots size 45.

New !

TBOB

DIELECTRIC OVERBOOTS

EN ISO 20347 I E HRO SRA FO / EN 50321 CLASS 0 / ASTM F1117

Use: TBOB dielectric overboots provide protection of up to 20kV over the complete boot for 3 minutes.

To be worn over shoes or boots.

Ideal for personnel who have to continually enter and exit hazardous areas.

Technical specifications:

Boot Shaft

- Ingenious rear entry design ensures the boot is quick and easy to fit and remove
- Yellow dielectric compound shaft
- Seamless construction
- Kick off lug
- REACH Compliant

Boot Sole

- Vulcanized rubber sole for maximum grip
- Two to three times the wear resistance of conventional soles
- Fuel and oil resistant
- Resistance to hot contact 60 seconds 300°C

Machine washable at up to 40°C
Shelf life of over 10 years.



Ref.	EU shoe size equivalence	UK shoe size equivalence	US shoe size equivalence	Size
TBOB-M	39 - 42	6 - 8	7 - 9	M
TBOB-L	43 - 45	9 - 11	10 - 12	L
TBOB-XL	46 - 49	12 - 14	13 - 15	XL



RANGE OF MATS

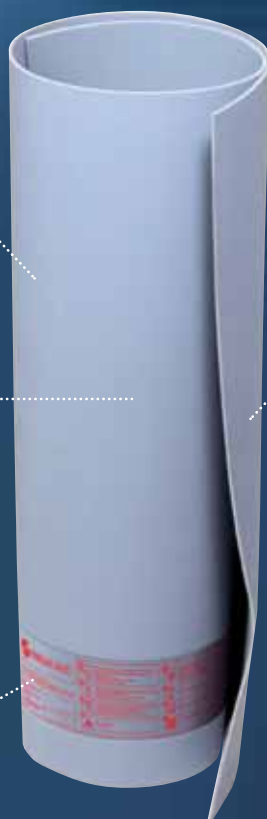
INSULATING MATS

STANDARD IEC 61111:2009

In addition to the Personal Protective Equipment, the mat insulates the worker from the ground to avoid him being crossed by electrical current in case of direct contact or pace voltage.

The choice of the class must be determined according to the maximal nominal voltage of the network (IEC 61111 annex A). Simple use and maintenance rules must be respected (IEC 61111 annex B). This rules appear on each mat. The marking colour is made according to the colour coding of the IEC 61111.

Class	Max. operating voltage (AC)	Max. operating voltage (DC)
0	1000V	1500V
1	7500V	11250V
2	17000V	25500V
3	26500V	39750V
4	36000V	54000V



Elastomer

Non-slip surface on both sides

From 60 cm to 10 m according to the models

EXCLUSIVE!

Conditions of use directly printed on the mat



PATENTED DESIGN

TTCL0^{LV} INSULATING MAT CLASS 0

Use : Max. operating voltage : 1000 V AC

Material : grey elastomer

Nominal thickness : 1,5 mm

Other dimensions available on request.



> Ultra lightweight mat facilitating usual Low Voltage operations

Ref.	Dim. (m)	Weight	Marking
TTCL0,6X0,6	0,6 x 0,6	0,9 Kg	■
TTCL0,6X1	0,6 x 1	1,4 Kg	■
TTCL0,1X1	1 x 1	2,4 Kg	■
TTCL0,1X10	1 x 10	24 Kg	■

TTCL2^{MV} INSULATING MAT CLASS 2

Use : Max. operating voltage 17 000V AC

Material : grey elastomer

Other dimensions available on request.



> Ultra lightweight mat facilitating usual Middle Voltage operations

Ref.	Dim. (m)	Weight	Marking
TTCL2,0,6 X 1	0,6 x 1	2,4 Kg	■
TTCL2,1 X 1	1 x 1	4 Kg	■

TTCL3^{MV} INSULATING MAT CLASS 3

Use : Max. operating voltage 26 500V AC

Material : grey elastomer

Other dimensions available on request.

Ref.	Dim. (m)	Weight	Marking
TTCL3,0,6X0,6	0,6 x 0,6	1,7 Kg	■
TTCL3,0,6X1	0,6 x 1	2,9 Kg	■
TTCL3,1X1	1 x 1	4,8 Kg	■
TTCL3,1X10	1 x 10	48 Kg	■

TTCL4^{MV} INSULATING MAT CLASS 4

Use : Max. operating voltage 17 000V AC

Material : grey elastomer

Other dimensions available on request.

Ref.	Dim. (m)	Weight	Marking
TTCL4,0,6 X 1	0,6 x 1	4,3 Kg	■
TTCL4,0,6 X 10	0,6 x 10	43 Kg	■
TTCL4,1 X 1	1 x 1	7,2 Kg	■
TTCL4,1X10	1 x 10	72 Kg	■



Feet • Insulating mats

Type of network: LV MV HV

HTISAFE

TRANSPORT COVER FOR INSULATING MATS

Use: Carrying bag with removable shoulder strap for insulating mats.

Technical specifications: Made in : PVC coated polyamide canvas with removable high resistance strap.

Zip fastener on the entire length.

Label holder.

Flexible grid on both extremities for ventilation.

Carrying : Removable and adjustable shoulder strap and carry handle.



Ref.	Length (cm)	Largeur sangle (cm)	Diameter (cm)	Weight (g)
HTISAFE	112	4	11	400

STISAFE

CARRYING STRAP FOR INSULATING MATS

Use: Light adjustable carrying strap for insulating mats.

+ Allows to carry more than one mat.

Technical specifications: Made of high resistance polypropylene strap.

Fastening with automatic plastic buckles.

Carrying : adjustable strap.



Ref.	Longueur totale sangle (cm)	Largeur sangle (cm)	Diamètre max. (cm)	Weight (g)
STISAFE	112	4	13	150

H125D

LARGE CARRYING BAG FOR INSULATING MATS

Technical specifications: Polyamide canvas with zip fastener and 2 handles.

Label holder on side.



Ref.	Length (cm)	Width (cm)	Height (cm)
H125D	125	30	20

TS707 - TS711

CANVAS BAG FOR INSULATING MATS

Technical specifications: Black polyamide canvas.

Carry handle and drawstring closure.



Ref.	Length (mm)	Diameter (mm)	Weight (g)
TS707	700	110	290
TS711	1 100	110	450



ARC FLASH

1- ARC-FLASH HAZARD

What is an arc-flash?

An arc-flash or an electric arc is the result of an electric short circuit conducted by the air. It is a violent eruption of thermal energy from a source of electricity, which can lead to serious or even irreversible burns and injuries, depending on the seriousness of the incident. Electric arc or arc flash hazards become an essential concern when the rated voltage of the installation is greater than 220 Volts.

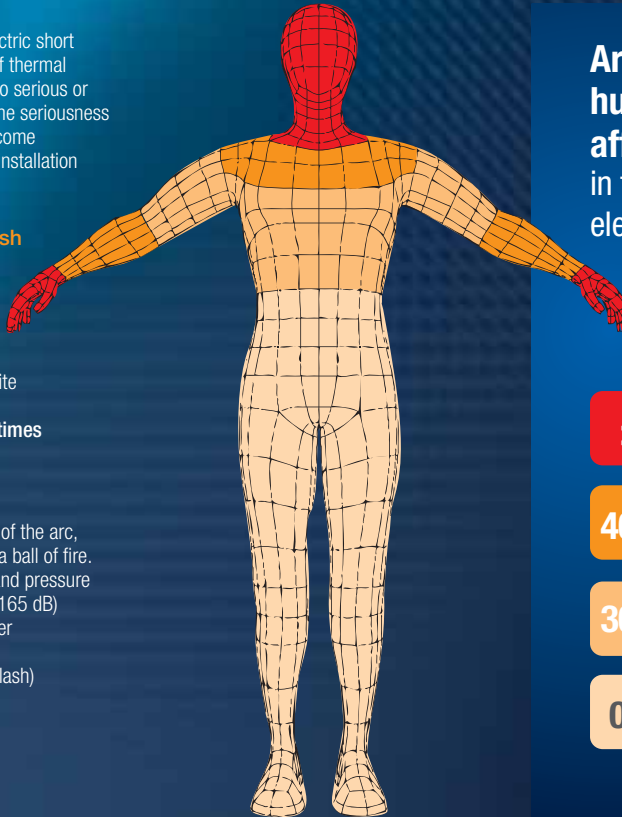
Thermal energy generated by an arc-flash

- It is expressed in calories/cm²,
- 1 cal/cm² is equivalent to exposing a finger to a lighter flame for a second,
- With only 1.2 cal/cm², individuals can suffer from second-degree burns,
- Standard non fire-retardant work clothing can ignite from energy levels of 2 calories.

Thermal radiation can reach 19 000°C , or four times the heat of the sun.

Results of arc flash hazards

- Burns (third degree) due to the **radiation energy** of the arc, and **splatter of molten metal**. It is equivalent to a ball of fire.
- Risk of hearing damage or loss due to the noise and pressure of the shock wave (sound wave of approximately 165 dB)
- Injuries due to the inhalation of toxic fumes (copper vaporisation...)
- Eye injuries or dazzling due to the light intensity (flash)



Areas of the human body affected by burns in the event of electric arc faults.

(source : IVSS)

> 60 %

40%-60%

30%-40%

0%-30%

2- EFFECTIVE PROTECTION

- **Step 1 : Identify the effects** of electric arcs, safety limits and working conditions in the presence of such risks
- **Step 2 : Identify the operations** and places where there is a potential electric arc risk
- **Step 3 : Analyse the risk**, given that the resistance value of the arc is expressed :
 - in cal/cm² (ATPV*) according to **NFPA 70 E regulations**, the **ASTM standards** or the standard **IEC 61482-1-1** (open arc test),
 - or in protection class (1 ou 2) according to **standard IEC 61482-1-2** (constrained arc test / Box test at 4kA or 7kA for 0.5 seconds at a distance of 0.3 m)

*ATPV = Arc Thermal Performance Value

The choice of equipment will depend on the following :

- maximum fault current value
- phase/earth rated voltage
- approach distance from the source of the arc
- type of circuit (single or three-phase)
- environment in which the arc occurs (confined space...)
- **Step 4 : Select and wear PPE that are thermally resistant to arcs**, (Class III PPE : irreversible risks)
- **Step 5 : Follow the safety rules** required in order to eliminate injury due to an arc flash,

... You are now protected from arc-flash risks



NB : Arc flash protective clothing is equipment that offers protection from the thermal risk caused by an electric arc. In no event it is insulating clothing. It is the responsibility of employer to ensure that the appropriate protection is selected in accordance with the level of danger.



3- STANDARD PICTOGRAMS

The entire daily wear range has the multi-hazards pictograms visible directly on the outside of the garment. Below you will find a reminder of the different pictograms and their meaning.

EN 13034



Protection against liquid chemicals

EN 1149-5



Protection against static electricity

IEC 61 482-2



Protection against thermal effects of an electric arc

EN ISO 11612



Protection against Heat and flames

EN ISO 11611



Protection against welding and other related applications



Garments marked with the ATEX logo can be used in explosive atmospheres according to ATEX directive.

4- RANGE PRESENTATION

We offer a range of arc flash clothing according to the type of use that will be made.

- Daily wear range in which you will find garments that can be used everyday
- Switching wear range for occasional use for application with level performance higher than 40 cal/cm².

To satisfy whole market expectations, we have structured a double entry offer.

On the one hand, performance level of clothing is expressed on cal/cm².

On the other hand, we indicated clothing class protection.

In addition of arc flash hazard, our clothing range comply with standards in terms of protection against others various risks.

Arc Flash high visibility range is also proposed and conform with standard requirement EN ISO 20471.



NEW



ATPV 10 cal/cm² • Class 1 • A.R.C Level 2

AFCOM10

ARC FLASH COVERALL WITH
RETROREFLECTIVE TAPES,
ATPV 10 CAL/CM², CLASS 1

EN1149-5 : 2008, EN ISO 11611 : 2007, EN ISO 11612 : 2008,
EN 13034 : 2005, EN 61482-2 (CLASS 1 AND ATPV 10 CAL/CM²)
ATEX AREA COMPLIANCE WITH REQUIREMENTS OF INERIS

Use :

Daily workwear for electrical workers, designed for an intensive use.

Features :

- High durability, even after repeated industrial washing
- Wear resistance, tearing strength and abrasion resistance
- Double non metallic zipper with flap on the entire length of the garment : easy donning and doffing even over normal work clothing
- High collar : maximum neck protection
- 50 mm retrorreflective tapes on shoulders, elbows and legs
- Adjustable cuffs
- Elasticated waist
- Numerous pockets
- Knee pad pockets
- Standard pictograms visible on the garment
- Suitable for ATEX environment

Technical specifications :

Fabric composition : 79% cotton, 20% polyester, 1% antistatic, 260 g/m²

Flame retardant and antistatic

Available colours : orange, blue or grey

Available in sizes : XS to 3XL



High collar and double non-metallic zipper with flap



Elasticated waist



Standard pictograms visible on the garment

Ref.	Description	Sizes
AFCOM10-OR	Arc flash coverall, 10 cal/cm ² , class 1, orange with retro reflective tapes	XS to 3XL
AFCOM10-BL	Arc flash coverall, 10 cal/cm ² , class 1, blue with retro reflective tapes	XS to 3XL
AFCOM10-GR	Arc flash coverall, 10 cal/cm ² , class 1, grey with retro reflective tapes	XS to 3XL

Complete the reference with the required size, example : AFCOM10-BL-XL for a blue coverall size XL
For sizes greater than 3XL, please contact us.



Arc flash protection • Daily wear

Type of network: LV MV HV

NEW



ATPV 12 cal/cm² • Class 1 • A.R.C Level 2

AFSIB-12

**ARC FLASH JACKET AND TROUSERS SIBILLE SAFE ,
ATPV12 CAL/CM², CLASS 1
ARC FLASH COVERALL SIBILLE SAFE,
ATPV 12 CAL/CM², CLASS 1**

EN 13034 : 2005, EN 1149-5 : 2008, EN ISO 11611 : 2007
EN ISO 11612 : 2008,
IEC 61482-2 : 2009 (CLASS 1 AND ATPV 12 CAL/CM²)
ATEX AREA COMPLIANCE WITH REQUIREMENTS OF INERIS

Use :

Daily workwear for electrical workers, suitable for an intensive use.

Features :

- Easy to clean
- Comfortable and breathable
- Durable and solid : tear and wear resistance
- Half-elasticated and adjustable cuffs
- Elasticated waist
- Non metallic zipper with flap
- High collar : maximum neck protection
- Numerous pockets
- Standard pictograms visible on the garment
- Suitable for ATEX environment

Technical specifications :

Fabric : 79% cotton, 20% polyester, 1% antistatic, 300g/m²
Flame retardant and antistatic
Colours : navy blue, and orange
Available in sizes : XS to 3XL



Elasticated waist



Standard pictograms and ATPV visible on the garments



Longer back for a better protection

Ref.	Description	Sizes
AFSIB-VES12	Arc flash jacket Sibille Safe 12 cal/cm ² , class 1	XS to 3XL
AFSIB-PAN12	Arc flash trousers Sibille Safe 12 cal/cm ² , class 1	XS to 3XL
AFSIB-COM12	Arc flash coverall Sibille Safe 12 cal/cm ² , class 1	XS to 3XL

Complete the reference with the required size, example : AFSIB-COM12-XL for a coverall size XL
For sizes greater than 3XL, please contact us.



NEW



Standard pictograms visible on the garments

ATPV 12 cal/cm² • Class 1 • A.R.C Level 2

AFPRO-12

ARC FLASH JACKET AND TROUSERS WITH RETROREFLECTIVE TAPES, ATPV 12 CAL/CM², CLASS 1

ARC FLASH COVERALL WITH RETROREFLECTIVE TAPES, ATPV 12 CAL/CM², CLASS 1

EN 13034 : 2005, EN 1149-5 : 2008, EN ISO 11611 : 2007, EN ISO 11612 : 2008, IEC 61482-2 : 2009 (CLASS 1 AND ATPV 12 CAL/CM²), ATEX AREA COMPLIANCE WITH REQUIREMENTS OF INERIS

Use :

Daily workwear for electrical workers, suitable for an intensive use.

Features :

- Comfortable and breathable : absorbs 50% of moisture more than cotton
- High collar : maximum neck protection
- 50 mm retroreflective tapes : shoulders, elbows and legs
- Non-metallic zipper with flap
- Adjustable cuffs
- Gusset on back for more comfort
- Back protection
- 2 radio loops
- Standard pictograms visible on the garment
- Numerous pockets
- Suitable for ATEX environment

Technical specifications :

Fabric : 54% modacrylic, 44% lyocell, 5% para-aramid, 1% antistatic, 300g/m²
Colour : Navy blue and orange
Flame resistant and antistatic
Available in sizes : XS to 3XL



High collar and non-metallic zipper with flap



Gusset on back for more comfort



Suitable for ATEX environment



Adjustable cuffs

Ref.	Description	Sizes
AFPRO-VES12	Arc flash jacket, 12 cal/cm ² , class 1 with retro reflective tapes	XS to 3XL
AFPRO-PAN12	Arc flash trousers, 12 cal/cm ² , class 1 with retro reflective tapes	XS to 3XL
AFPRO-COM12	Arc flash coverall, 12 cal/cm ² , class 1 with retro reflective tapes	XS to 3XL

Complete the reference with the required size, example : AFPRO-COM12-XL for a coverall size XL
For sizes greater than 3XL, please contact us.



Arc flash protection • Daily wear

Type of network: LV MV HV

NEW

ATPV 15 cal/cm² • Class 1 • A.R.C Level 2

AFHV-15

**ARC FLASH HIGH VISIBILITY JACKET AND TROUSERS, ATPV 15 CAL/CM², CLASS 1
ARC FLASH HIGH VISIBILITY COVERALL, ATPV 15 CAL/CM², CLASS 1**

EN 13034 : 2005, EN 1149-5 : 2008, EN ISO 11611 : 2007,
EN ISO 11612 : 2008,
IEC 61482-2 : 2009 (CLASS 1 AND ATPV 15 CAL/CM²),
ATEX AREA COMPLIANCE WITH REQUIREMENTS OF INERIS

Use :

Daily workwear for electrical workers, suitable for an intensive use.

Features :

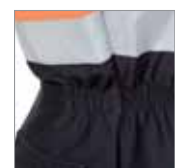
- 3 in 1 garments : multi-hazards, high visibility and arc flash
- Easy to clean
- Durable and solid : tear and wear resistance
- Non metallic zipper
- Double non metallic zipper with flap on the entire length of the coverall : easy donning and doffing even over normal work clothing
- High collar : maximum neck protection
- 50 mm retroreflective tapes : shoulders, chest, elbows and legs
- Elasticated waist
- Adjustable cuffs
- 2 radio loops
- Standard pictograms visible on the garments
- Numerous pockets
- Knee pad pockets
- Suitable for ATEX environment

Technical specifications :

Fabric : 44% polyester, 30% Protex, 25% cotton, 1% antistatic, 335 g/m²
Flame retardant and antistatic
Colours : navy blue and orange
Available in sizes : XS to 3XL



Suitable for ATEX environment



Elasticated waist



Standard pictograms visible on the garments

Ref.	Description	Sizes
AFHV-VES15	Arc flash jacket, 15 cal/cm ² , class 1, HV with retro reflective tapes	XS to 3XL
AFHV-PAN15	Arc flash trousers, 15 cal/cm ² , class 1, HV with retro reflective tapes	XS to 3XL
AFHV-COM15	Arc flash coverall, 15 cal/cm ² , class 1, HV with retro reflective tapes	XS to 3XL

Complete the reference with the required size, example : AFHV-COM15-XL for a coverall size XL
For sizes greater than 3XL, please contact us.



NEW

ATPV 25 cal/cm² • Class 2 • A.R.C Level 3**AFSIB-25****ARC FLASH JACKET AND TROUSERS SIBILLE SAFE, ATPV25 CAL/CM², CLASS 2****ARC FLASH COVERALL SIBILLE SAFE, ATPV 25 CAL/CM², CLASS2**EN 13034 : 2005, EN 1149-5 : 2008, EN ISO 11611 : 2007, EN ISO 11612 : 2008, IEC 61482-2 : 2009 (CLASS 2 AND ATPV 25 CAL/CM²)

ATEX AREA COMPLIANCE WITH REQUIREMENTS OF INERIS

Use :

Daily workwear for electrical workers, suitable for an intensive use.

Features :

- Comfortable and breathable
- Easy to clean
- Durable and solid: tear and wear resistance
- High collar : maximum neck protection
- Vest with long back for a better protection
- Non metallic zipper with flap
- Half-elasticated and adjustable cuffs
- Elasticated waist
- Standard pictograms and ATPV visible on the garments
- Numerous pockets
- Suitable for ATEX environment

Technical specifications :

Fabric: 35% modacrylic, 30% cotton, 20% viscose, 14% para-aramid, 1% antistatic

Flame resistant and antistatic

Colours : navy blue and orange

Available in sizes : XS to 3XL



High collar and non-metallic zipper with flap



Half-elasticated and adjustable cuffs



Standard pictograms and ATPV visible on the garments

Ref.	Description	Sizes
AFSIB-VES25	Arc flash jacket Sibille Safe 25 cal/cm ² , class 2	XS to 3XL
AFSIB-PAN25	Arc flash trousers Sibille Safe 25 cal/cm ² , class 2	XS to 3XL
AFSIB-COM25	Arc flash coverall Sibille Safe 25 cal/cm ² , class 2	XS to 3XL

Complete the reference with the required size, example : AFSIB-COM25-XL for a coverall size XL
For sizes greater than 3XL, please contact us.



Arc flash protection • Daily wear

Type of network: LV MV HV

NEW

ATPV 41,3 cal/cm² • Class 2 • A.R.C Level 4

AFPRO-41

**ARC FLASH JACKET AND TROUSERS NOMEX[®],
ATPV 41,3 CAL/CM², CLASS 2**

EN 1149-5 : 2008, EN ISO 11611 : 2008, EN ISO 11612 : 2008,
IEC 61482-2 (CLASS 2 AND ATPV 41,3 CAL/CM²)
ATEX AREA COMPLIANCE WITH REQUIREMENTS OF INERIS

Use :

Daily workwear for electrical workers, suitable for an intensive use.

Features :

- Modern and ergonomic design
- Inherently flame resistant fibres Nomex[®], meta-aramid fibres
- Performance of the garment is guaranteed for its lifetime
- High collar : maximum protection of the neck
- Back protection
- Gusset on back for more comfort
- Non metallic zipper
- 2 radio loops
- Standard pictograms visible on the garments
- Numerous pockets
- Suitable for ATEX environment

Technical specifications :

Outer fabric : 75% Nomex[®], 13 % modacrylic, 10,5% cotton, 1,5% antistatic,
410g/m²

Inner fabric : 100% Nomex[®]

Flame retardant, antistatic

Colours : Navy blue and red

Available in sizes : XS to 3XL



High collar
and
non-metallic
zipper with
flap



Gusset on
back for more
comfort



Standard
pictograms
visible on
the garments



Adjustable
cuffs

Ref.	Description	Sizes
AFPRO-VES41	Arc flash jacket Nomex [®] 41 cal/cm ² , class 4	XS to 3XL
AFPRO-PAN41	Arc flash trousers Nomex [®] 41 cal/cm ² , class 4	XS to 3XL

Complete the reference with the required size, example : AFPRO-VES41-XL for a jacket size XL
For sizes greater than 3XL, please contact us.



NEW



ATPV 40 cal/cm² • A.R.C Level 4

ARCCO140, ARCVES40, ARCSAL40

ARC FLASH JACKET SIBILLE SAFE 40 CAL/CM²

ARC FLASH BIB AND BRACE SIBILLE SAFE 40 CAL/CM²

ARC FLASH HOOD SIBILLE SAFE 40 CAL/CM²

EN ISO 11612 : 2008

IEC 61482-2 : 2008

EN 1149-5 : 2008

Use :

Switching suits for electrical workers, designed for an intermittent use.

Features :

- The joins between the different garments overlap : Even while moving, all the parts of the body are protected.
- High collar covering the totality of the neck
- Non metallic zipper with flap
- Elasticated cuffs with velcro closure
- Face shield tested according to ASTM F2178
- ATPV visible on the garment

Technical specifications :

Fabric Westex: 88% cotton et 12% nylon

Flame retardant and antistatic

Colour : Grey

Available in sizes : M to 2XL



Ref.	Description	Sizes
ARCVES40	Arc flash jacket Sibille Safe 40 cal/cm ²	M to 2XL
ARCSAL40	Arc flash bib and brace Sibille Safe 40 cal/cm ²	M to 2XL
ARCCO140	Arc flash hood Sibille Safe 40 cal/cm ²	1 size fits all

Complete the reference with the required size, example : ARCVES40-XL for a jacketsize XL
For sizes greater than 2XL, please contact us.



Arc flash protection • Switching wear

Type of network: LV MV HV

NEW



ATPV 53 cal/cm² • A.R.C Level 4

ARCCOI53, ARCVES53, ARCSAL53
ARC FLASH JACKET SIBILLE SAFE 53 CAL/CM²
ARC FLASH BIB AND BRACE SIBILLE SAFE 53 CAL/CM²
ARC FLASH HOOD SIBILLE SAFE 53 CAL/CM²

EN ISO 11612 : 2008
 IEC 61482-2 : 2009
 EN 1149-5 : 2008

Use :
 Switching suits for electrical workers, designed for an intermittent use.

- Features :**
- The joins between the different garments overlap : Even while moving, all the parts of the body are protected.
 - High collar covering the totality of the neck
 - Non metallic zipper with flap
 - Elasticated cuffs with velcro closure
 - Face shield tested according to ASTM F2178
 - ATPV visible on the garment

Technical specifications :
 Fabric Westex : 88% cotton and 12% nylon
 Flame retardant and antistatic
 Colour : Blue
 Available in sizes : M to 2XL



Ref.	Description	Sizes
ARCVES53	Arc flash jacket Sibille Safe 53 cal/cm ²	M to 2XL
ARCSAL53	Arc flash bib and brace Sibille Safe 53 cal/cm ²	M to 2XL
ARCCOI53	Arc flash hood Sibille Safe 53 cal/cm ²	1 size fits all

Complete the reference with the required size, example : ARCVES53-XL for a jacket size XL
 For sizes greater than 2XL, please contact us.



HVGIL

HIGH VISIBILITY WAISTCOAT CLASS 2

EN 340 / EN 471 CLASS 2

Use: This product is for signalling the user's presence visually in order to detect him and see him clearly even in dangerous situations, in all light conditions, by day or by night in headlights.

⊕ **Lightweight, high quality product.**

Technical specifications: High visibility polyester waistcoat.
Grey retro-reflective bands (1 horizontal and 1 vertical above the shoulders).
Front velcro fastening.

Ref.	Colour	Size
HVGILJ	Yellow	L to 2XL
HVGILO	Orange	L to 2XL

Complete the reference with the desired size.

New!



HVGIL2

SAFETY FLUORESCENT WAISTCOAT ANTISTATIC AND FLAME RETARDANT

EN 471 CLASS 2:2 / EN 14116 / EN 1149

Use:

This product is for signaling the user's presence visually in order to detect him and see him clearly even in dangerous situations, in all light conditions, by day or by night in headlights.

⊕ **Bands positioning allows to be seen at night, even in leaning position.**
Flame retardant and antistatic properties

Technical specifications:
High visibility polyester waistcoat.
Grey retro-reflective bands (1 horizontal and 2 vertical above the shoulders).
Light weight and comfortable, this product is ideal for working in hot temperatures
Front self grip fastening
Size available: S/M, L/XL, XXL/3XL
100% polyester, flame retardant.

Ref.	Size
HVGIL2	S/M, L/XL, XXL/3XL

Complete the reference with the desired size. Complete the reference with the desired size.



S109

REFLECTING SAFETY ARMBAND

Technical specifications: PVC armband.

Velcro fastening

Dimensions : 460 x 75 mm

Weight : 30 g

Ref.	Colour	Marquage
S109J	Yellow	none
S109R	Orange	none



Workwear • High visibility garments

Type of network: LV MV HV

VETPLUIE

HIGH VISIBILITY RAIN JACKET AND PANTS

EN 340 / EN 471 / EN 343 (1 – 2)

Technical specifications: Retro-reflective stripes : 2 on chest, 2 on shoulder, 2 on each arm, 2 on legs

PU coated polyester

Sizes : L to 3XL



Ref.	Colour	Size
VETPLUIE	Yellow	L to 3XL
VETPLUIEO	Orange	L to 3XL

Complete the reference with the desired size.

VPEJ -VPEV

RAIN SUIT (JACKET AND PANTS)

EN 343 (3-1)

Technical specifications: Ensemble veste et pantalon pour travaux sous pluie.

Polyurethane / PVC on polyester base.

Sizes : L to 2XL



Ref.	Colour	Size
VPEJ	Yellow	M to 2XL
VPEV	Green	M to 2XL

New !

CRYOVEST

HIGH PERFORMANCE COOLING VEST

Use:

High performance cooling vest for technicians working with physical effort in a thermal environment higher than 28°C.

⊕ Physiological advantages

- Decreases and stabilisation of heart rate (-8 to 12 BPM)
- Stabilisation of water status (less sweating)
- Improvement of thermal comfort
- Help recovery after an effort

Psycho-cognitive advantages

- Maintains memory, thinking and motor skills function
- Maintains coordination of movement function and improves reaction time

Technical specifications:

Composition Cryovest outer fabric 55% Protex , 43% cotton, 2% antistatic

nylon/polyester, 5,11% glycol, 3,53% polymere, 0,16% preservative, 0,02% polyester

Lining : 100% polyester/inner fabric : wadding 100% polyester + aluminium foil

Autonomy : up to 2 hours in extreme environments (>50°C)

Composition Fist-Ice : 82,76% water, 8,41%

Reusable : 60 times before replacement



Ref.	Description	Size
CRYOVEST	High performance cooling vest	S to 6XL
CRYOVEST-HV	High performance cooling vest - high visibility	S to 6XL



K400H4

SET FOR WORKS ON CRADLE

EN 361 / EN 354

Ref.	Description
K400H4TM	Set for works on cradle size M/XL
K400H4GT	Set for works on cradle size XXL
Contents:	
H4	Harness with 1 anchorage point for works on cradle (size M/XL or XXL)
C1	Galvanized steel connector, opening 18 mm
C62C1	Lanyard securing rope with connector
C274GM	Empty plastic case 510 x 360 x 120 mm



K310H1A

COMPLETE LINEMEN SET (ELECTRICAL DISTRIBUTION)

EN 361 / EN 355 / EN 358 / EN 795

Ref.	Description
K310H1ATM	Complete linemen set size M/XL
K310H1AGT	Complete linemen set size XXL
Contents:	
H1A	Harness for linemen with moving belt 180° and automatic buckles (size M/XL or XXL)
LT1400	Work positioning lanyard in twisted rope 4 meters
ABD118200	Tear webbing energy absorber with fixed safety lanyard 2 m
ANS2120	Anchorage ring 1,20 m
TS75	High resistance coated canvas bag



Working at height • Sets

Type of network: LV MV HV

K100H6

SET FOR WORKS ON SCAFFOLDING

EN 361 / EN 355



Ref.	Description
K100H6TM	Set for works on scaffolding size M/XL
K100H6GT	Set for works on scaffolding size XXL
Contents:	
H6	Harness for industry with 3 anchorage points (size M/XL or XXL)
ABS150Y180	Tear webbing energy absorber, with fixed double elastic safety lanyard, length 1,8 m, opening 50 mm
TS75	High resistance coated canvas bag

K200H6

SET FOR INDUSTRY

EN 361 / EN 360 / EN 795



Ref.	Description
K200H6TM	Set for industry size M/XL
K200H6GT	Set for industry size XXL
Contents:	
H6	Harness for industry with 3 anchorage points (size M/XL or XXL)
ARS1	Retractable webbing fall arrester with energy absorber
ANS2120	Anchorage ring 1,20 m
TS75	High resistance coated canvas bag



K630H3

SET FOR SUSPENSION WORKS

EN 361 / EN 358 / EN 813 / EN 360- EN 353-2 / EN 795

Ref.	Description
K630H3TM	Set for suspension works size M/XL
K630H3GT	Set for suspension works size XXL
Contents:	
H3N	Suspension safety harness (size M/XL or XXL)
AMD130	Guided type fall arrester on braid rope 30 m
ANS2120	Anchorage ring 1,20 m
ARS3	Retractable webbing fall arrester
LT1200	Work positioning lanyard in twisted rope 2 meters
TS75	High resistance coated canvas bag



K500H1A

SET FOR WORKS ON TELECOMMUNICATION NETWORK

EN 361 / EN 358 / EN 353-2 / EN 795

Ref.	Description
K500H1ATM	Set for works on telecommunication network size M/XL
K500H1AGT	Set for works on telecommunication network size XXL
Contents:	
H1A	Harness for linemen with moving belt 180° and automatic buckles (size M/XL or XXL)
A046100	Hook with small rope
AMD120	Guided type fall arrester on braid rope 20 m
ANS2120	Anchorage ring 1,20 m
LT1200	Work positioning lanyard in twisted rope 2 meters
PPOL7/090DA	Insulating telescopic stick 1,7m/9,1m with DAL28 end fitting
H225D	Transport bag, length 2,25 m



Working at height • Sets

Type of network: LV MV HV

KH2A-AR

FLAME RESISTANT, INSULATED EQUIPMENT

EN 361 / EN 358 / EN 355 / EN 354

Use: Recommended for oil and gas industry.

Technical specifications: The kit contains :

- Flame resistant aramid harness with insulated buckles
- 2 attachment points : sternal and dorsal
- Automatic buckles with an insulating coating.
- The rings on the positioning belt and the adjusting buckles also have an insulating coating.
- 11 mm braided rope lanyard with 2 metres aramid shock absorbing lanyard



Ref.	Size
KH2A-ARGT	XXL
KH2A-ARTM	M-XL

H4

HARNESS WITH 1 ANCHORAGE POINT FOR WORKS ON CRADLE

EN 361

Use: Recommended for works on cradle.

Technical specifications: Full body harness with 1 back anchorage point by metal D-ring including:

- Leg loops adjustment and fastening by male/female metal buckles.
- A sit strap linked to leg loops.
- A chest strap with adjustment and fastening by automatic plastic buckle.

Polyamide/polyester straps.

Metallic buckles in steel.



Ref.	Size	Weight (g)
H4TM	M-XL	700
H4GT	XXL	710

H6

HARNESS FOR INDUSTRY WITH 3 ANCHORAGE POINTS

EN 361

Use: Recommended for the industry.

Technical specifications: Full body harness with three anchorage points (2 back and 1 front) :

- A first back attachment point by metal D-ring.
- A second one by webbing lanyard (to use exclusively for a very easy connection to a retractable type fall arrester EN 360).
- Front attachment point by two webbing buckles to link. Shoulder adjustment by metal buckles.
- Leg loops adjustment and fastening by male/female metal buckles.
- A sit strap linked to leg loops and a chest strap with adjustment and closing by automatic plastic buckle.

Polyamide/polyester straps

Metallic buckles in zinc plated steel



Ref.	Size	Weight (kg)
H6TM	M-XL	1.050
H6GT	XXL	1.100



New!



H5

HARNES WITH 3 ANCHORAGE POINTS FOR INDUSTRY

EN 361

Use:

Recommended for the industry.

⊕ **Lightweight harness, easy to use, easily adjustable with 2 lateral anchorage points that facilitates working on sloped planes.**

Technical specifications:

Harness with 3 anchorage points (1 back and 2 shoulders) with :

- 1 back anchorage with metal D-ring
- anchorage on each shoulder strap by metal D-ring
- adjustment of shoulder straps by metal buckles
- chest strap and leg loops adjustment and fastening by male/female metal buckles
- a sit strap linked to leg loops

Polyamide/polyester straps.

Ref.	Weight (kg)	Size
H5TM	1,10	M-XL
H5GT	1,17	XXL



H2

INDUSTRY/BUILDING INDUSTRY HARNES WITH 3 ANCHORAGE POINTS

EN 361 / EN 358

Use: Recommended for industry and building industry applications.

Technical specifications: Harness with 3 anchorage points (2 back and 1 front) with :

- A work positioning belt with 2 lateral attachment points.
- A first back anchorage point settled by metal D-ring and a second back point by webbing lanyard
- Front anchorage point by 2 webbing buckles to link.
- Adjustment of shoulder straps by metal buckles. Belt and leg loops adjustment and fastening by male/female metal buckles.
- A sit strap linked to leg loops and a chest strap with adjustment and closing by automatic plastic buckles.
- 3 accessory plastic loops integrated to belt.

Polyamide/polyester straps.

Metal buckles in zinc plated steel.

Ref.	Size	Weight (kg)
H2TM	M-XL	1.600
H2GT	XXL	1.740



New!

H2A

INDUSTRY / BUILDING INDUSTRY HARNESS WITH 3 ANCHORAGE POINTS AND AUTOMATIC BUCKLES

EN 361 / EN 358

Use:

Recommended for industry and building industry applications.

⊕ Webbing lanyard on the back and automatic buckles.

Technical specifications:

Harness with 3 anchorage points (2 back and 1 front) with :

- A work positioning belt with 2 lateral attachment points.
- A first back anchorage point settled by metal D-ring and a second back point by webbing lanyard
- Front anchorage point by 2 webbing buckles to link.
- Adjustment of shoulder straps by metal buckles.
- Belt and leg loops adjustment and fastening by automatic metal buckles.
- A sit strap linked to leg loops and a chest strap with adjustment and closing by automatic plastic buckles.
- 3 accessory plastic loops integrated to belt.

Polyamide/polyester straps.

Metal buckles in zinc plated steel and aluminium.



Ref.	Size	Weight (kg)
H2ATM	M-XL	1,7
H2AGT	XXL	1,8

H1

HARNESS FOR LINEMEN WITH MOVING BELT 180°

EN 361 / EN 358

Use: Recommended for linemen.

**⊕ Shoulder straps made from elastic webbing.
Moving belt 180°**

Technical specifications: Harness with three anchorage points (2 back and 1 front) with :

- A 180° rotation work positioning belt with 2 lateral attachment points
- A first back anchorage point settled by metal D-ring and a second one by webbing lanyard
- Front anchorage point by 2 webbing buckles to link.
- A sit strap linked to leg loops and a chest strap with adjustment and closing by automatic plastic buckle
- Belt and leg loops adjustment and fastening by male/female metal buckles.
- 4 accessory plastic loops integrated to belt.
- A label holder on the back

Polyamide/polyester straps.

Metal buckles in zinc plated steel.



Ref.	Size	Weight (kg)
H1TM	M-XL	2.090
H1GT	XXL	2.170



Our selection!



H1A - H1AS

HARNESS FOR LINEMEN WITH MOVING BELT 180° AND AUTOMATIC BUCKLES

EN 361 / EN 358

Use:

Recommended for linemen.

- ⊕ **Shoulder straps made from elastic webbing.**
- Moving belt 180°**
- Automatic buckles with lock indicator.**

Technical specifications:

Harness with three anchorage points (2 back and 1 front) with :

- A 180° rotation work positioning belt with 2 lateral attachment points
- A first back anchorage point settled by metal D-ring and a second one by webbing lanyard
- Front anchorage point by 2 webbing buckles to link.
- A sit strap linked to leg loops
- Belt and leg loops adjustment and fastening by automatic metal buckles.
- Shoulder straps adjustment by metal buckles
- Chest strap adjustment and fastening by automatic plastic buckles (automatic aluminium buckles for models H1AS)
- 4 accessory plastic loops integrated to belt.
- A label holder on the back

Polyamide/polyester straps.

Metal buckles in zinc plated steel.

Ref.	Size	Weight (kg)
H1ATM	M-XL	2,02
H1AGT	XXL	2,10
H1ASTM	M-XL	2,02
H1ASGT	XXL	2,10

New!



H3N

SUSPENSION SAFETY HARNESS

EN 361 / EN 358 / EN 813

Use:

Recommended for rope-supported works.

- ⊕ **Lightweight with foamed shoulder straps**
- Rear waist attachment D-ring - for attaching restraint and work positioning systems**

Technical specifications:

Harness with 2 anchorage points (1 back and 1 front) including :

- A work positioning belt with 2 lateral attachment points and 1 ventral attachment point by metal D-ring.
- Back and front anchorage point by metal D-ring.
- Belt, leg loops and shoulder straps adjustment by male/female metal buckles.
- Shoulder strap fastening by locking the connector
- 4 accessory loop straps integrated to belt
- Rear waist attachment D-ring - for attaching restraint and work positioning systems

Polyamide/polyester straps.

Aluminium metal buckles and steel connector.

Ref.	Size	Weight (kg)
H3NTM	M-XL	1,95
H3NGT	XXL	2,30



Our selection!

H7

SUSPENSION HARNESS WITH DORSAL REINFORCEMENT

EN 361 / EN 358 / EN 813

Use:

Recommended for rope-supported works.

- +** Dorsal reinforcement
- Shoulder straps made in elastic webbing
- Automatic buckles

Technical specifications:

Harness with 2 anchorage points (1 back and 1 front) including :

- A work positioning belt with 2 lateral attachment points.
- 1 back anchorage point by D-ring
- 1 sternal attachment point by 2 webbing loops to link.
- Belt and leg loops adjustment by metallic automatic buckles.
- 4 accessory plastic loops integrated to belt.

Polyamide/polyester straps.

Aluminium metal buckles and steel connector.



Ref.	Size	Weight (kg)
H7TM	M-XL	1.75
H7GT	XXL	1.85

New!

H7 ISOL

HARNESS WITH INSULATED METAL BUCKLES

EN 361 / EN 358 / EN 813

Use:

Recommended for rope-supported works.

- +** Adjusting metal buckles, dorsal D-ring and belt D-rings are protected by insulation sleeves.

Technical specifications:

Harness with 2 anchorage points (1 back and 1 front) including :

- A work positioning belt with 2 lateral attachment points.
- 1 back anchorage point by D-ring.
- 1 sternal attachment point by 2 webbing loops to link.
- Belt and leg loops adjustment by metallic automatic buckles.
- 4 accessory plastic loops integrated to belt.

Polyamide/polyester straps.

Aluminium metal buckles and steel connector.



Ref.	Size	Weight (kg)
H7TMISOL	M-XL	1.75
H7GTISOL	XXL	1.85



New!



H7N

FULL BODY HARNESS FOR LINEMEN

EN 361 / EN 358 / EN 813

Use:

Full body harness for linemen.

⊕ **Light, comfortable, with automatic safety buckles**
Identification card for periodic inspections.

Technical specifications:

Full body harness with two fall arrest attachment points (1 back by metal D-ring and 1 front by two webbing buckles to link) including

- A work positioning belt with two attachment points by metal D-ring and one ventral attachment point by two webbing buckles to link.
- Belt, chest and leg loops adjustment and fastening by automatic aluminium buckles.
- Shoulders adjustment by male/female metallic buckles.

The harness includes comfortable shoulders, leg loops and belt with rings loops and accessory hangers.

Ref.	Size	Weight (kg)
H7NTM	M-XL	1,72
H7NGT	XXL	1,80

Energy absorbers



ABD1

TEAR WEBBING ENERGY ABSORBER WITH FIXED SAFETY LANYARD

EN 355

Technical specifications: Polyamide tear webbing energy absorber, width 32 mm, with an integrated fixed lanyard.

Fixed lanyard in polyamide kernmantle rope, diameter 10,5 mm.

On each end : a steel screw snap hook 18 mm ref. C1

Ref.	Opening	Length (m)	Weight (g)
ABD118150	18 mm	1,50	640
ABD118200	18 mm	2	680



Working at height • Energy absorbers

Type of network: LV MV HV

ABS1Y

TEAR WEBBING ENERGY ABSORBER, WITH FIXED DOUBLE ELASTIC SAFETY LANYARD

EN 355

Technical specifications: Polyamide tear webbing energy absorber, width 32 mm, with a screw snap hook 18 mm reference C1 at the end, integrating a fixed double elastic safety lanyard.

Fixed polyamide elastic webbing lanyard, width 40 mm, with on each end a double trigger locking snap hook, opening diameter 50 mm, 60 mm or 88 mm.



Ref.	Opening (double trigger locking snap hook)	Length (m)	Weight (kg)
ABS150Y130	50 mm	1,30	1.580
ABS150Y180	50 mm	1,80	1.680
ABS160Y130	60 mm	1,30	1.540
ABS160Y180	60 mm	1,80	1.640
ABS188Y130	88 mm	1,30	2.180
ABS188Y180	88 mm	1,80	2.280

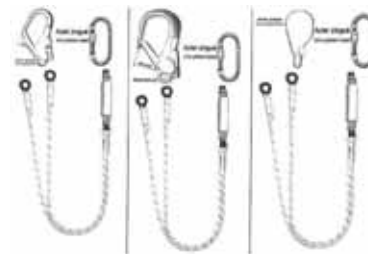
ABD1Y

TEAR WEBBING ENERGY ABSORBER, WITH FIXED DOUBLE ROPE SAFETY LANYARD

EN 355

Technical specifications: Polyamide tear webbing energy absorber, width 32 mm, with a screw snap hook ref. C1, integrating a fixed double lanyard.

Fixed lanyard in polyamide kernmantle rope, diameter 10.5 mm with on each end a double trigger locking snap hook.



Ref.	Opening (double trigger locking snap hook)	Length (m)	Weight (kg)
ABD150Y150	50 mm	1,50	1.580
ABD150Y200	50 mm	2	1.660
ABD160Y150	60 mm	1,50	1.540
ABD160Y200	60 mm	2	1.620
ABD188Y150	88 mm	1,50	2.180
ABD188Y200	88 mm	2	2.260

ABS2-Y

TEAR WEBBING ENERGY ABSORBER WITH FIXED DOUBLE SAFETY LANYARD

EN 355

Technical specifications: Polyamide tear webbing energy absorber, width 32 mm, integrating a fixed double safety lanyard.

Polyamide webbing lanyard, width 30 mm with a thread loop with plastic sleeve at each end able to receive a connector.



Ref.	Length (cm)	Weight (g)
ABS2-Y	68	300



A046

MOBILE FALL ARRESTER

EN 353-2

Use: Linking device to be used with a flexible stainless steel cable, Ø 4,8 mm.

Technical specifications: Moulded aluminium double casing, epoxy resin coated on the outside. 3 pulleys with cable guide groove.

Blocking made by an ex-centred weight.

Delivered with carrying case, user guide and connector.

Advice: Check visually the product before and after each use. Make an annual check or after a fall.

Ref.	Dimensions (mm)	Weight (kg)
A046	165 x 110 x 60	0,53



AMD1

GUIDED TYPE FALL ARRESTER

EN 353-2

Use: Device is designed for one person only and has to be used with Ø 12 mm work ropes.

Technical specifications: Openable guided type fall arrester equipped with a screw snap hook (manual locking) opening 18 mm, ref. C1.

Ref.	Description
AMD1	Guided type fall arrester



AMD110 - AMD120 - AMD130

GUIDED TYPE FALL ARRESTER ON BRAID ROPE

EN 353-2

Technical specifications: Openable guided type fall arrester equipped with a screw snap hook (manual locking) opening 18 mm, ref. C1.

Flexible anchorage line in polyamide braid rope, diameter 12 mm.

On upper end : a spliced loop with thimble, with a screw snap hook (manual locking) opening 18 mm, ref. C1.

On lower end : a spliced loop with thimble.

Ref.	Rope	Length (m)	Weight (kg)
AMD110	D1-10	10	1,87
AMD120	D1-20	20	2,93
AMD130	D1-30	30	3,99



Working at height • Fall arresters

Type of network: LV MV HV

AMT1

GUIDED TYPE FALL ARRESTER WITH ENERGY ABSORBER

EN 353-2

Use: Device is designed for one person only and has to be used with Ø 14 mm polyamide rope.

Technical specifications: Openable guided type fall arrester integrating a polyamide energy absorber, width 30 mm, equipped with a double trigger automatic locking snap hook.



Ref.	Dimensions (mm)	Weight (g)
AMT1	210 x 75 x 75	400

AMT110 - AMT120 - AMT130

GUIDED TYPE FALL ARRESTER WITH ENERGY ABSORBER ON TWISTED ROPE

EN 353-2

Technical specifications: Openable guided type fall arrester integrating a polyamide energy absorber 30 mm width equipped with a double trigger automatic locking snap hook.

Flexible anchorage line in polyamide rope, diameter 14 mm, 3 yarns.

On upper end : a spliced loop with thimble, with a screw snap hook (manual locking) opening 18 mm, ref. C1.

On lower end : a spliced loop with thimble.



Ref.	Rope	Length (m)	Weight (kg)
AMT110	T1-10	10	2.580
AMT120	T1-20	20	3.780
AMT130	T1-30	30	4.980

New!

BACKUP

FALL ARRESTER

EN 353-2 / EN 358 / EN 567

Use:

Fall arrester that follows the operator in both directions and stops the possible falling.

Shifting the special button on the lock mode, it can be used also as a positioning device or a normal locking device. Due to its special manufacture, it supports the strongest stress in semi dynamic way avoiding the shocking effects on the rope caused by the traditional self-locking devices with toothed cams.

+ Light, safe and simple to use with only one hand!

Technical specifications:

Delivered with a Ø 10,5 mm static braided rope with a thread loop with plastic sleeve and a screw lock connector C1 on one end, and a stopper knot on the other end.



Ref.	Rope length (m)
BACKUP10	10
BACKUP20	20
BACKUP30	30



ARS1

RETRACTABLE WEBBING FALL ARRESTER WITH ENERGY ABSORBER

EN 360

Technical specifications: Retractable 2,25 meters polyamide webbing, width 45mm, integrating an energy absorber with an aluminium double trigger automatic locking snap hook, opening 22 mm and swivel function.

Plastic casing with a steel screw connector (manual locking) opening 18 mm reference C1.

Ref.	Thickness	Height (mm)	Width (mm)	Weight (kg)
ARS1	80 mm	670	110	1.250



ARS3

RETRACTABLE WEBBING FALL ARRESTER

EN 360

Technical specifications: Retractable 6 meters polyester/kevlar webbing, width 17 mm, with a double trigger automatic locking snap hook connected on a swivel eye integrating a fall indicator.

Plastic casing with hot forged aluminium with swivel eye and steel screw snap hook (manual locking) opening 18 mm.

Ref.	Thickness	Height (mm)	Width (mm)	Weight (kg)
ARS3	70 mm	520	160	1,7



ARC

RETRACTABLE STEEL CABLE FALL ARRESTER

EN 360

Technical specifications: Retractable 10/20/30 meters galvanised steel cable, diameter 4 mm, with an, aluminium and galvanised steel twist lock snap hook (automatic locking) integrating a swivel function with a fall indicator.

Plastic casing

Ref.	Length (m)	Weight (kg)
ARC110	10	5.500
ARC220	20	11.450
ARC230	30	11.850



New!

RODEOSTOP

AUTOMATIC FALL ARRESTER DEVICE

Use:

The device is made of a 2-way pulley with an automatic blocking system in case of fall. One end is connected to the user and the other end has a counterweight.

Rodeostop stops the rope in the 2 directions of rotation. it is equipped with a device that absorbs the energy generated during a fall by deformation of the anchoring device situated in its upper part.

- ⊕ - RODEOSTOP device is a pulley which activates the instantaneous blocking in 2 directions in case of fall.
- The height of use depends only on the length of the rope.
- It is compact and lightweight (about 1 kg) for great manoeuvrability
- The durability and reliability are increased : made of stainless steel and synthetic materials, it does not rust and it is weather resistant and requires no lubricant

Technical specifications:

The product is delivered with a Ø 10,5 mm static braided rope with a thread loop with double trigger automatic locking connector on one end and a stopper knot on the other end.



Ref.	Rope length (m)
RODEOSTOP10	10
RODEOSTOP20	20
RODEOSTOP30	30

Anchorage

ANS2

ANCHORAGE RING

EN 795 – CLASS B

Technical specifications: Polyamide webbing anchorage ring, width 20 mm.



Ref.	Length (m)	Weight (g)
ANS2050	0,5	41
ANS2100	1	82
ANS2120	1,20	98
ANS2150	1,50	123
ANS2200	2	164

Other sizes available on request.



ANS4

ANCHORAGE RING, WIDTH 44 MM

EN 795 CLASS B: 2012

Technical specifications: Polyester webbing with PU protection, width 44 mm.

Ref.	Length (m)	Weight (g)
ANS44080	0,80	146
ANS44100	1,00	183
ANS44120	1,20	220
ANS44150	1,50	275
ANS44200	2,00	360



LVS1

TEMPORARY TRANSPORTABLE ANCHORING DEVICE

EN 795-CLASS B

Technical specifications: Transportable horizontal webbing lifeline composed of a fixed webbing, width 50 mm, with sewn loop equipped with a swivel eye integrating a fall indicator and a double trigger automatic locking snap hook.

This lifeline integrates a working webbing, width 35 mm, adjustable by strong ratchet tensioner with plastic handle. On the end a sewn loop equipped with a swivel eye integrating a fall indicator and a double trigger automatic locking snap hook.

Ref.	Length (m)
LVS110	10
LVS120	20



A046100

HOOK WITH SMALL ROPE FOR TELESCOPIC STICK

Use: For linemen and suspension work.

Allows, with a stick, to remotely create an anchorage for a rope lifeline.

Technical specifications: Made of aluminium.

Fastening by safety latch.

Components : end fitting with rope for stick, anchorage point for snap hook Ø 20 mm.

Ref.	Max opening	Resistance	Weight (kg)
A046100	100 mm	1500 daN	1.060
Option(s):			
PPOL7/090DA	Insulating telescopic stick 1,7m/9,1m with DAL28 end fitting		



Working at height • Connectors

Type of network: LV MV HV

C1

GALVANIZED STEEL CONNECTOR, OPENING 18 MM

EN 362 – CLASSE B

Technical specifications: Basic connector, length 110 mm, screw-lock (manual locking).



Ref.	Opening	Dimensions (mm)	Weight (g)
C1	18 mm	110 x 60	180

C2

ALUMINIUM ALLOY CONNECTOR OPENING 24 MM

EN 362 – CLASSE B

Technical specifications: Basic connector, length 113 mm, opening 24 mm, with automatic locking gate device by swivel ring.



Ref.	Opening	Dimensions (mm)	Weight (g)
C2	24 mm	113 x 73	80

C3 - C4

STAINLES STEEL CONNECTOR IN 6 MM ROD

EN 362 – CLASSE A

Use: Locking after opening, positioning on the structure and 90° degree rotation of the connector.

Technical specifications: Anchorage connector, stainless steel rod, diameter 6 mm.



Ref.	Opening	Dimensions (mm)	Weight (g)
C3	123 mm	390 x 180	350
C4	151 mm	435 x 215	380

C5

ALUMINIUM ALLOY CONNECTOR, OPENING 61 MM

EN 362 – CLASSE A

Technical specifications: Anchorage snap hook, length 245 mm, with pivoting gate, automatic locking by sliding ring (twist lock) and inside latch.



Ref.	Opening	Dimensions (mm)	Weight (g)
C5	61 mm	245 x 110	240



C62F

TWIST LOCK CONNECTOR

EN 362

Use: Modèle à verrouillage automatique du haut du linguet par bague coulissante en tirant.

Technical specifications: Zinc plated steel snap hook.

Automatic locking by sliding ring.

Wire diameter: 10 mm.

Ref.	Opening	Dimensions (mm)	Weight (g)
C62F	28 mm	155 x 70	255



C62FL

ALUMINIUM ALLOY SNAP HOOK WITH SAFETY INSIDE LATCH

EN 362 – CLASSE A

Use: Anchorage snap hook, length 159 mm, automatic locking by swivelling ring (twist lock) and inside latch.

Ref.	Opening	Dimensions (mm)	Weight (g)
C62FL	28 mm	159 x 74 x 12	130



MRAC-D10

HALF MOON QUICK LINK 10 MM

EN 362-Q / EN 12275-Q

⊕ **High breaking strength for the different axes.**

Technical specifications: Half moon quick link in steel, diameter 10 mm, opening 10 mm.

Resistance : 45 kN

Ref.	Opening	Dimensions (mm)	Weight (g)
MRAC-D10	10 mm	86 x 67	152



MRAC-008

OVAL QUICK LINK 8 MM

EN 362-Q / EN 12275-Q

Use: To be used as a lowering anchorage, for fixed quickdraws, work at height, industrial safety and rescue.

⊕ **High breaking strength for the different axes.**

Technical specifications: Oval quick link in zinc-plated steel, diameter 8 mm, opening 11 mm.

Resistance : 35 kN.

Ref.	Opening	Dimensions (mm)	Weight (g)
MRAC-008	11 mm	74 x 34	77



MRAC-T10

TRIANGULAR QUICK LINK

EN 362-Q / EN 12275-Q

⊕ **High breaking strength for the different axes.**

Technical specifications: Triangular quick link in zinc-plated steel, diameter 10 mm, opening 12 mm.

Resistance : 45 kN.

Ref.	Opening	Dimensions (mm)	Weight (g)
MRAC-T10	12 mm	87 x 66	152



Working at height • Lanyards

Type of network: LV MV HV

C62C1

LANYARD SECURING ROPE WITH CONNECTOR

EN 354

Technical specifications: Polyamide security rope Ø 12 mm. Length : 1,50 m.

Spliced loop at each end, identification label fixed on splicing and protected by a heat-shrinkable transparent sheath.

Equipped with 1 manual connector (ref. C1).

The lanyard can be sold alone and be used with other connectors (C2, C5, C62F and C62FL).



Ref.	Length (m)	Lanyard diameter (mm)	Weight (g)
C62C1	1,65	12	365
Contents:			
C1	Galvanized steel connector, opening 18 mm		
CORC62A	Securing rope alone		

LD1

WORK POSITIONING LANYARD IN BRAIDED ROPE

EN 358

Technical specifications: Kernmantle polyamide rope, diameter 12 mm, with steel rope shortener equipped with a steel screw snap hook. Protective sleeve on rope.

On one end (upper part) : double trigger automatic locking snap hook, opening 20 mm.

On other end (lower part) : stopper knot.



Ref.	Length (m)	Weight (kg)
LD1200	2	1
LD1400	4	1.200

LT1

WORK POSITIONING LANYARD IN TWISTED ROPE

EN 358

Technical specifications: Polyamide twisted rope, diameter 16mm, with stainless steel rope shortener equipped with zinc plated steel screw snap hook (manual locking). Protective sleeve on rope.

Lanyard upper end : galvanized steel double trigger automatic locking snap hook, opening 18 mm.

Lanyard lower end : stopper knot.



Ref.	Length (m)	Weight (kg)
LT1200	2	1.080
LT1400	4	1.330



LS1-200

ADJUSTABLE WEBBING LANYARD 2 M

EN 358

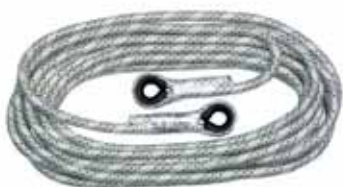
Technical specifications: Webbing lanyard, width 30 mm, equipped with a steel regulating buckle to adjust one of the anchoring loop.

Adjustable anchoring loop equipped with a zinc plated steel screw snap hook (manual locking), opening 18 mm, reference C1.

Second anchoring loop equipped with a double trigger automatic locking snap hook, opening 18 mm.

Ref.	Length (m)	Weight (g)
LS1-200	2	550

Ropes



D1

KERNMANTLE ROPE Ø 12 MM

EN 353-2

Technical specifications: Material : Polyamide

Diameter : 12 mm

Spliced loop with thimble on each end;w

Ref.	Length (m)
D1-05	5
D1-10	10
D1-20	20
D1-30	30



C319

SEMI-STATIC ROPE 10,5 MM

Use: For lifting and working at height.

Technical specifications: Very strong semi-static polyamide rope Ø 10,5 mm.

Ref.	Length (m)	Packaging	Weight (kg)
C319050	50	Roll of rope	3,2
C319060	60	Roll of rope	3,9
C319100	100	On reel	6,5
C319	200	On reel	13



CORSTA105

STATIC ROPE 10,5 MM

EN 1891 TYPE A

Technical specifications: Polyamide

Breaking load : 3000 daN (kg)

Resistance with sewn ends : 2400 daN (kg)

Weight per metre : 65 g

Extremities with plastic sleeve, safety stitching protected by a heat-shrink tubing or by a figure-eight knot.

Ref.	Length (m)
CORSTA10510	10
CORSTA10520	20
CORSTA10530	30
CORSTA10550	50
CORSTA105100	100



Working at height • Rescue devices

Type of network: LV MV HV

H108

RESCUE SET

Technical specifications: Delivered without bag.



Ref.	Description
H108	Rescue set
Contents:	
S26	Rescue strap width 45 mm
C1	Galvanized steel connector, opening 18 mm
H108M	Safety 8-shaped descent device

H108M

SAFETY 8-SHAPED DESCENT DEVICE

Affordable and simple to use.
Abseiling / belaying.

Technical specifications: Polished hot-forged 8-shaped descent device
Strength : 30 kN



Ref.	Description	Weight (g)
H108M	Safety 8-shaped descent device	132

S26

RESCUE STRAP

Technical specifications: Rescue strap, width 45 mm, D-ring, adjusting and fastening by buckle.



Ref.	Weight (g)
S26	250

EASYUP

HAUL SYSTEM WITH 2 DOUBLE PULLEYS

EN 12278 / EN 567

Reduction of effort.

Technical specifications: Pulley system with 2 double pulleys.



Ref.	Description
EASYUP	Haul system with 2 double pulleys



New range!

ASCHEST

CHEST ASCENDER

EN 12841-B / EN 567

Use:

Light alloy right-hand chest ascender for climbing up ropes, to use together with the ascender handle ASCPD or ASCPG.

To be used with rope with a diameter between 8 to 13 mm.

- External profile for the opening lever, which makes climbing up the rope smoother and more effective
- Shape for the hole in the opening lever, to facilitate use even when wearing gloves
- Lower hole design, so that the device always stays parallel to the user
- Patented system for unlocking the cam, with just one downwards movement necessary
- New steel cam, manufactured with technology that implements the resistance to wear and tear. Equipped with a set of teeth that protects the wear of the rope, but it is equally effective in blocking and ascending the rope. It also has three slots to prevent the accumulation of mud and reduce the effort needed to slide the device up the rope under any condition (muddy rope, frozen etc.);
- Anti-inversion cam system.

Technical specifications:

Ascender with aluminium body, blocking cam, opening lever and attachment holes.

Maximum load : 100 kg

Ref.	Dimensions (mm)	Weight (g)
ASCHEST	106 x 76 x 25	145



New range!

ASCPD - ASCPG

ASCENDER

EN 567 / EN 12841-B

Use:

Left or right-hand light alloy ascender handle with ergonomic rubber grip for climbing ropes.

To be used with rope with a diameter between 8 to 13 mm.

- Ergonomic grip, with support for index finger, for improved effectiveness when pulling during climbing
- Cam opening lever usable with one hand, patented system for unlocking the cam, with just one downwards movement necessary
- New steel cam, manufactured with technology that implements the resistance to wear and tear. Equipped with a set of teeth that protects the wear of the rope, but it is equally effective in blocking and ascending the rope. It also has three slots to prevent the accumulation of mud and reduce the effort needed to slide the device up the rope under any condition (muddy rope, frozen etc.)
- Two attachment holes for various possible uses, anti-inversion cam system, secondary hole for connecting a quick link for an etrier.



Technical specifications:

Ascender handle with aluminium body, blocking cam, opening lever, ergonomic rubber grip and attachment holes.

Maximum load : 100 kg

Ref.	Handle	Dimensions (mm)	Weight (g)
ASCPD	Right	189 x 93 x 25	215
ASCPG	Left	189 x 93 x 25	215



New range!

ASCS

ASCENDER

EN 12841-B / EN 567

Use:

Multi-use light-alloy right-hand rope ascender for climbing ropes or as a clamp for hauling/rescue.

To be used with rope with a diameter between 8 to 13 mm.

- ⊕ **Cam opening lever usable with one hand; patented system for unlocking the cam, with just one downwards movement necessary**
- **New steel cam, manufactured with technology that implements the resistance to wear and tear. Equipped with a set of teeth that protects the wear of the rope, but it is equally effective in blocking and ascending the rope. It also has three slots to prevent the accumulation of mud and reduce the effort needed to slide the device up the rope under any condition (muddy rope, frozen etc.)**
- **Two attachment holes for various possible uses, anti-inversion cam system**

Technical specifications:

Ascender with aluminium body, blocking cam, opening lever and attachment holes.

Maximum load : 100 kg.



Ref.	Dimensions (mm)	Weight (g)
ASCS	110 x 74 x 25	150

New!

INDYEVO

ANTI-PANIC DESCENDER

EN 341 /2A - EN 12841/C

Use:

Manually operated descender device with double auto-locking system, that locks both when the lever is released or when it is pressed (anti-panic).

This product is also a descender device (conform to EN 12841 type C) for working rope and it allows a descent at a controlled speed and stop at any time, hands free, on a static rope (EN1891) or dynamic rope (EN 892).

- ⊕ **Lightweight and compact size, long life guaranteed by the stainless steel cams and low maintenance make it a working tool very appreciated by the industry. It allows the lowering of two people at the same time.**

Technical specifications:

Main material : stainless steel.



Ref.	Dimensions (mm)	Weight (g)
INDYEVO	195 x 58 x 30	450



TSAFE

EVACUATION HARNESS

EN 1498 CLASS B

Use: Emergency situation, evacuation of people working at height.

The evacuation is done by a single person.

Technical specifications: Elastic straps.

Maximum load : 130 kg

Ref.	Dimensions (mm)
TSAFE	1310 x 670



KSAFE01-20

EMERGENCY KIT FOR 20 M HEIGHT

EN 362 / EN 795 / EN 12278 / EN 567

Use: Emergency set for the evacuation of a fallen worker suspended to its working space.

⊕ Complete set containing the EASYUP haul system to ease the victim elevation, and the INDYEVO anti-panic descender.

Technical specifications: Emergency kit for max. 20 m height.

Ref.	Description
KSAFE01-20	Emergency kit for 20 m height
Contents:	
TSAFE	Evacuation harness
ANS2200	Anchorage ring 2 m
EASYUP	Haul system with 2 double pulleys
C2 x2	2 connectors opening 24 mm
C1 x2	2 connectors opening 18 mm
CORSTA10520	Static rope 20 m
INDYEVO	Anti-panic descender
SAFECUT	Knife
TS75	High resistance coated canvas bag

Work positioning belts



C4D

WORK POSITIONING BELT

EN 358

Technical specifications: • Belt integrating a full grain leather backpad for optimal support of the waist.

- High resistance retaining strap sewn between 2 thicknesses of leather equipped with 2 D-rings acting as lateral attachment points with large diameters for an easy connection with a lanyard
- Reinforced seams with copper rivets for better resistance
- Belt adjustment and fastening by metal roller pin buckle
- 2 accessory holders by metal D-rings

Materials : belt in leather and metal buckles in zinc plated steel

Ref.	Weight (g)
C4D	1500



Working at height • Work positioning belts

Type of network: LV MV HV

C65

WORK POSITIONING BELT

C 18435 / EN 358

Technical specifications: Leather belt, reinforced with a polyamide strap

- One piece working belt 50 mm wide in chromed leather reinforced with polyamide strap, equipped with 2 D-rings
- Leather backpad with 4 D-rings for belt suspension when used as a double belt or «American belt» during live working operations.

This backpad also has 2 D-rings for service rope or tools.



C65 with optional OP1-C65 leather belt

Ref.	Description	Size	Average weight (kg)
C65TM	Work positioning belt, medium size 950/1250 mm	Medium : 950/1250 mm	2,3
Option(s):			
OP1-C65	Additional leather belt		

C67N2

WORK POSITIONING BELT SET



Ref.	Description
C67N2	Work positioning belt set
Contents:	
C65TM	Work positioning belt, medium size 950/1250 mm
C62B	Textile rope Ø 15 mm length 4 m
C62D	Lanyard tensioner
C62F	Twist lock connector

C67N3

WORK POSITIONING BELT SET



Ref.	Description
C67N3	Work positioning belt set
Contents:	
C65TM	Work positioning belt, medium size 950/1250 mm
C62A	Lanyard securing rope Ø 12 mm length 1,5 m with connector
C62B	Textile rope Ø 15 mm length 4 m
C62F	Twist lock connector
C62D	Lanyard tensioner



TN05 - TN10

INSULATING SHEET 3/10 MM

IEC 61112 CLASS 0 (1000V)

Use: Soft transparent sheet, for insulating during work in progress by covering over bare conductors or insufficiently insulated conductors on a LV network.

Max operating voltage : 1000V AC

Technical specifications: Material: insulating fireproof PVC film.

Ref.	Thickness	Length (m)	Width (m)	Weight (g)
TN05	3/10e	12,5	1,3	700
TN10	3/10e	25	1,3	1390



TN15

INSULATING TAPE

IEC 61112 CLASS 0 (1000V)

Use: Soft transparent sheet 0,80 mm thick, for insulating during work in progress by covering over bare conductors or insufficiently insulated conductors on a LV network.

Max operating voltage : 1000V AC

Technical specifications: Material : insulating fireproof PVC film.

Ref.	Thickness	Length (m)	Width (mm)	Weight (g)
TN15	3/10e	25	90	900



TN18N

INSULATING MAT WITH FRINGES

Use: For LV network installations, used to cover and insulate live parts or conducting elements with which the lineman may come into contact.

Max operating voltage : 1000V AC

Ref.	Class	Dimensions (m)	Weight (kg)
TN18N02X1	0	2 x 1	
TN18N 2x1	3	2 x 1	6
TN18N 3x1	3	3 x 1	9
TN18N 5x1	3	5 x 1	15



TN17

INSULATING SHEET WITH ADHESIVE STRIPS (VELCRO)

ST TST BT 410

Use: Insulation by covering over of bare conductors or those with faulty, doubtful or insufficient insulation.

Several sheets may be added together.

For LV network, to be re-used.

Ref.	Length (m)	Width (m)	Weight (g)
TN17 0,66M	0,66	0,36	60
TN17 0,90M	0,9	0,5	120
TN17 1,20M	1,2	0,8	250



Temporary insulation • Insulating sheets

Type of network: LV MV HV

TP60P

PLASTIC CLIP FOR INSULATING SHEETS AND BANDS

Use: Used to fix and hold in position temporary insulation like insulating sheets.
For overhead network, underground network and indoor installations.

Weather resistant.

Technical specifications: Plastic spring clip.
Capacity : 25 mm.



Ref.	Length (mm)	Width (mm)	Weight (g)
TP60P	165	18	82

TP60PS

SMALL PLASTIC CLIP FOR INSULATING SHEETS AND BANDS (3MM)

Use: Used to fix and hold in position temporary insulation like insulation sheets or banners.
For overhead networks, underground networks and indoor installations.

Weather resistant



Ref.	Dimensions (mm)	Weight (g)
TP60PS	67 x 27 x 22	10

Protective covers

TB05 - TB10

PROTECTIVE COVER

Use: May be placed on the ground for assembly and laying out of all tools required for line and installation work.

Technical specifications: Linen cloth protective cover for protecting tools, lineman's model.
Fireproof category M2



Ref.	Dimensions (m)	Weight (kg)
TB05	2 x 1	1,6
TB10	3 x 1	2,6

Other dimensions available on request.

Insulating sleeves and caps

TP105

INSULATING SLEEVE FOR LV CONDUCTOR WIRE

Use: Insulates live conductor wire up to 15mm diameter during work on or near the conductor.
For overhead networks.

Max operating voltage : 1000 V AC.

Technical specifications: The sleeves can be maintained in position with plastic clips (ref. TP60).



Ref.	Length (m)	Weight (g)
TP105S 1	1	380
TP105 1,5M	1,5	520
TP105 3M	3	1400



TP115

LONG LENGTH LV NOTCHED INSULATING SLEEVE

Use: To be used when working near live LV network installations to avoid direct or indirect accidental contact (tools, scaffolding, ladder, body).

For overhead networks.

Technical specifications: Light diagonal opening to ease the fitting.
Assembly of several sleeves by notch.

Ref.	Length (m)
TP115 2,5M	2,5
TP115 5M	5



G80

SHEATHING GUIDE

Use: This tool has an 11 mm wide groove to guide and position TP115 sleeves.

Technical specifications: Conductor section : 70 mm².
Made in composite material.

Ref.	Dimensions (mm)	Weight (g)
G80	195 x 100 x 30	160



P85

NOTCHING PLIERS

Use: Pliers specially designed to make a T notch in TP115 insulating sleeves.

Technical specifications: Made in forged alloy steel.

Ref.	Length (mm)	Weight (g)
P85	180	280



TC135

CONTAINER FOR INSULATING SLEEVES

Ref.	Diameter (mm)	Length (m)	Weight (kg)
TC135	125	1,60	5
TC135 3,10M	125	3,10	10
TC135 5,10M	125	5,10	17,4
TC135 A	125	5,10 with female top	17,4
TC135 D	200	3,50	18
TC135 L	125	4	11



Temporary insulation • Insulating sleeves and caps

Type of network: LV MV HV

TS30

BAG FOR INSULATING SLEEVES

Technical specifications: Made of polyamide canvas.
Reinforced bottom with eyelets for evacuation.
The higher part is reinforced.
Rope handle with hook in plastic coated steel.
Capacity : 45 sleeves.



Ref.	Length (m)	Diameter (cm)	Dimensions (mm)	Weight (g)
TS30	1,20	18	1 270 x 210	720

TC15 - TC20

INSULATING CAP FOR LV INSULATOR



Ref.	Use	Diameter (mm)	Height (mm)	Weight (kg)
TC15	For alignment insulator	110	150	0,5
TC20	for backstay insulator (yoke)	162	200	1,3

TS05

BAG FOR INSULATING CAPS

Technical specifications: Made of polyamide canvas.
Reinforced bottom with eyelets for evacuation.
The higher part is reinforced.
Rope handle with hook in plastic coated steel.
Capacity : 20 x TC15 or 10 x TC20



Ref.	Diameter (cm)	Height (cm)	Weight (g)
TS05	30	40	700

TS26

BUCKET FOR WORKING AT HEIGHT

Use: Carrying of small hand tools.

Technical specifications: Twisted yarn rope and thimble loop for suspension.
Polyamide canvas bag, evacuation hole at the bottom.
The higher part is reinforced.



Ref.	Diameter (cm)	Height (cm)	Weight (g)
TS26	26	37	600



TS20 - TS21

INSULATING BAG FOR CONNECTORS

Use: Placed under a fixed connector at the free end of a conductor wire, this insulating bag is used to prevent accidental contact between it and a conducting component carrying a different potential. Used on overhead power lines and inside installations.

Transparent polyvinyl bag with elastic fastener:

- for working by remote control using a hook pole TP 26, by pulling the bag grip ring;
- for working by contact, by pulling the bag grip ring or by tilting and sliding the bag the length of the connector until its is clear.

Technical specifications: Transparent polyvinyl bag with velcro fastening and eyelet on one extremity.

Ref.	Width (mm)	Length (mm)
TS20	130	210
TS21	225	305



TC25 - TC30 - TC35 - TC40 - TC41

LV INSULATING CAP FOR CONDUCTOR ENDS

Use: Used for overhead and underground networks and indoor installations.

Its purpose is to cover the stripped end of an insulated conductor during operations : the length of the stripped end should be at most equal to the cap length minus 10 mm.

Technical specifications: Cylindrical cap in soft insulating material with a cross shaped opening to introduce the conductor.

Sold per unit, order in multiples of 4 for each LV conductor.

Ref.	Capacity	Diamètre ext. (mm)	Diamètre maxi (mm)	Length (mm)
TC25	3 to 10 mm ²	10	6,5	60
TC30	6 to 35 mm ²	15	11	100
TC35	20 to 70 mm ²	20	15	120
TC40	30 to 100 mm ²	25	20	120
TC41	240 mm ²	35	30	120



TC43

LV INSULATING CAP FOR CONDUCTOR ENDS

Use: The LV insulating cap is used to insulate by covering the ends of conductors and terminals during a replacement operation or removal of equipment on indoor installations.

Ref.	N°	Diameter (mm)	Ø on conductor sheath (mm)	Length (mm)	Sold by
TC43P	-	6	Min 3 - Max 4	50	1
TC43 N1	1	7,5	Min 5 - Max 9	45	10
TC43 N2	2	9,5	Min 8 - Max 11	48	10
TC43 N3	3	13,5	Min 10 - Max 16	68	10
TC43 N4	4	17,5	Min 15 - Max 20	90	10



Temporary insulation • Insulating sleeves and caps

Type of network: LV MV HV

BSUB16

SUBSTITUTION POWER TERMINAL BLOCK

Use: Substitution power terminal block for meter panel before electrical meter installation. Can be sealed with a lead seal or with the universal lockout device USB14X200.

+ Unlosable screws in the lid.



Ref.	Application	Dimensions (mm)	Weight (g)
BSUB16	Electrical meter instalation/change	170 x 100 x 65	200

Insulating adhesive tapes

TR055

INSULATED ADHESIVE TAPES

EN 60454 TYPE 2

Use: Colour coding and insulation of electrical cables.

+ Flame retardant and self extinguishing - safe to use on electrical cables.
Wide range of colours - suitable for colour coding.
UV resistant.

Technical specifications: Thickness : 0,13 mm.

Breaking Load : 26 N/cm.

Elongation : 180%.

Adhesion to steel : 2.4 N/cm.

Adhesion to self : 2.1 N/cm.

Service Temperature : -5°C to +70°C.

Breakdown Voltage : 8 kV.



Ref.	Application	Colour	Width (mm)	Length (m)	Weight (g)
TR055B	-	White	15	10	30
TR055BE	neutral	Blue	15	10	30
TR055J	phase 2	Yellow	15	10	30
TR055M	phase 3	Brown	15	10	30
TR055N	-	Black	15	10	30
TR055V	phase 1	Green	15	10	30
TR055VJ	Earth	green/yellow	15	10	30

S182

PVC PHASE MARKING TAPES

EN 60454/TYPE 6

Use: Electrical insulation and Alphanumeric coding of 3 phases electrical installations

+ Bold, easy to read white print on contrasting background - L1, L2, L3, N.
Flame retardant and self-extinguishing.
Flexible.
Good resistance to ageing.
UV resistant.

Technical specifications: Thickness : 0,18 mm.

Breaking load : 40 N/cm.

Elongation : 250%.

Adhesion to steel : 2,3 N/cm.

Adhesion to self : 1,17 N/cm.

Service temperature : -5°C to +70°C.

Breakdown voltag e: 10 kV.



Ref.	Description	Width (mm)	Length (m)	Weight (g)
S182L1	PVC Phase marking tape, black L1	15	10	37
S182L2	PVC Phase marking tape, black L2	15	10	37
S182L3	PVC Phase marking tape, black L3	15	10	37
S182N	PVC Phase marking tape; blue N	15	10	37



TN200

PROTECTION BAG FOR ELECTRICAL CABINETS S22

Use: Protects people against deteriorated control panels.

Technical specifications: Made in reinforced PVC, made in insulating sheets for LV Live Working.

Red elastic headband 60 mm

Marking: Danger.

Diameter: 90 cm.

Ref.	Version	Dimensions (mm)	Weight (g)
TN200PM	Small version	340 x 390 x 710	580
TN200GM	Big version	660 x 290 x 710	900

PVC strips and crepe paper



CREPPK

CREPE PAPER

Use: Crepe paper is used in the electrical equipment industry to wrap wire and major leads and cables.

Technical specifications: Non adhesive crepe paper, brown colour, flexible and resistant, with restoration properties.

Ref.	Width (mm)	Length (m)	Roll diameter
CREPPK	50	16,50	100 mm



FTRUB

PVC STRIP FOR JUNCTIONS

Use: Allows to reinforce bundles on phone cables, especially while realising junctions.

Technical specifications: Non adhesive PVC, transparent, flexible and resistant, with memory properties.

Ref.	Thickness	Width (mm)	Length (m)	Roll diameter	Weight (g)
FTRUB 4050	20/100e	40	50	110 mm	550
FTRUB 7050	30/100e	70	50	145 mm	1340



Temporary insulation • Insulating screen

Type of network: LV MV HV

TE08

INSULATING SCREEN 20 KV FOR SUBSTATION

Use: Insulating panels to separate busbars, protective device to prevent MV switch-disconnectors from being closed, protective panel to separate working areas, insulating baseplate for transformer

Technical specifications: Material : fibreglass reinforced polyester

Fire classification : M3 self-extinguishing UL94V-0

Dielectric test : according to standard IEC 60243-1

Mechanical test : according to standard ISO 178/527/604/179 and 180

Colour : white.

Assembling of combined screens is done with insulating corner pieces (ref. TC144C) and bolts (ref. TC144B).



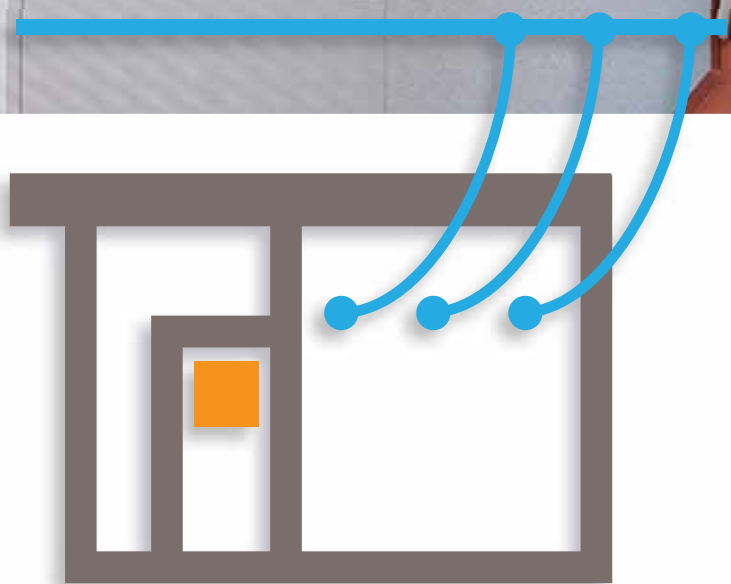
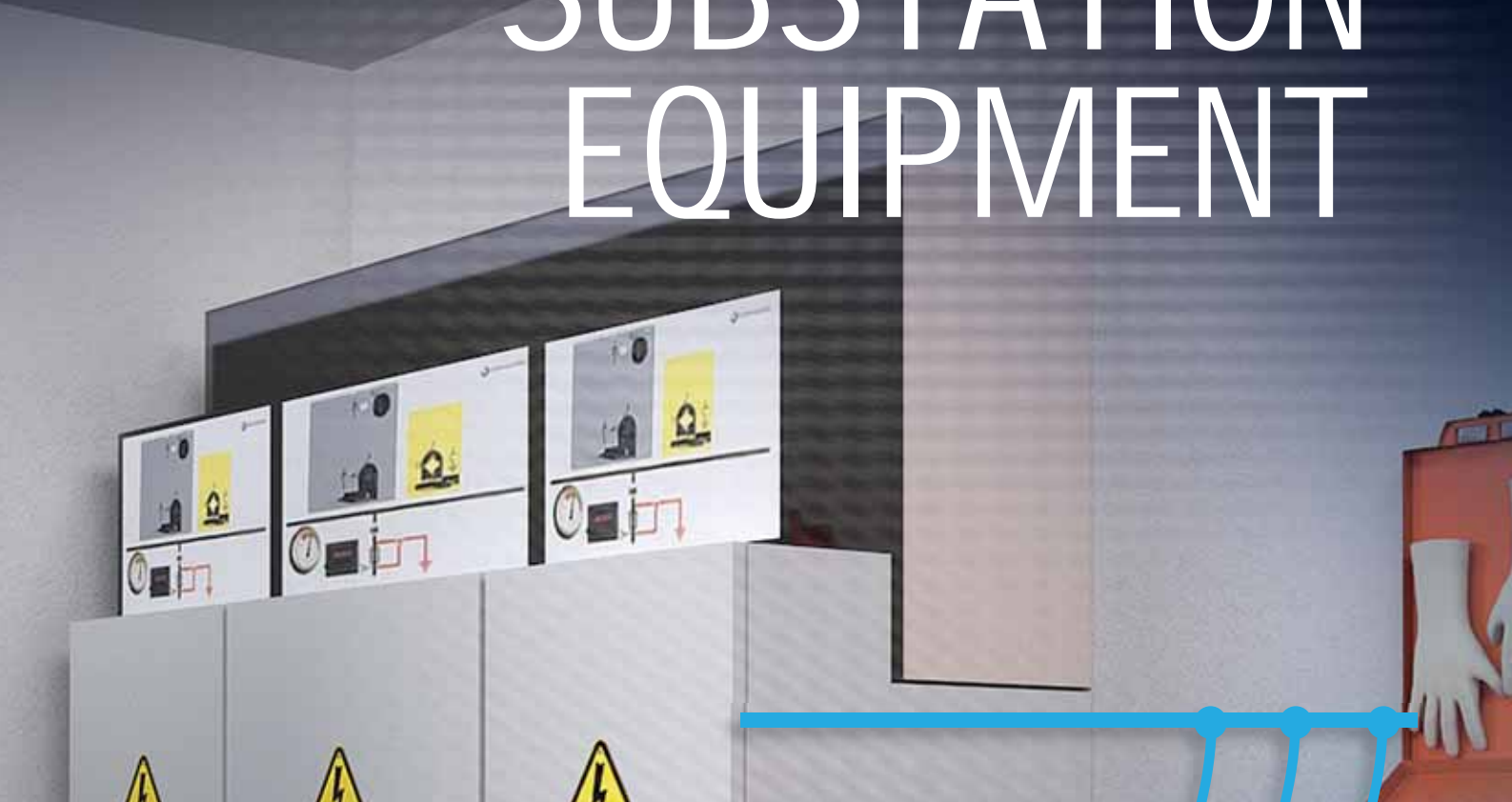
Ref.	Dimensions (mm)	Version	Weight (kg)
TE08PM	1000 x 1000 x 3	Small version	5,9
TE08GM	2000 x 1000 x 3	Big version	11,8

Other dimensions and operating voltages available on request.





SUBSTATION EQUIPMENT



SUBSTATION EQUIPMENT

MV substation equipment	89
Insulating stools	94
Earth circuits	95
Electrical safety kits	104
Fire extinguishers	108
First aid equipment	112
Cable cutters	113



page 89

STAND FOR MV FUSES



page 89

INSULATING STORAGE BOX FOR ELECTRICIANS' GLOVES



page 89

VOLTAGE DETECTOR STICK WITH AIR GAP ARRESTER



page 92

ABC POWDER FIRE EXTINGUISHER



page 94

INSULATING STOOL



page 91

WORK LIGHT FOR INTERVENTION

TK3S

SAFETY SET FOR SUBSTATIONS WITH BARE CONDUCTORS



Ref.	Description
TK3S	Safety set for substations with bare conductors
Contents:	
GLB3-36-10	Latex insulating gloves class 3 size 10
TB11D	Stand for MV fuses
TC108	Insulating storage box with window for electricians' gloves
TT015M 24KV	Insulating stool 24 kV
TP13P	1 element insulating stickn range 5 to 36 kV 5-36 kV
S4310	Work light for intervention

The pair of insulating gloves is also available in size 9 (GLB3-36-09) or in size 11 (GLB3-36-11), please specify in your order.

TP13P - TP13T

VOLTAGE DETECTOR STICK WITH AIR GAP ARRESTER FOR INDOOR USE

IEC 61235 / IEC 60855-1

Use: Stick for detecting the absence of voltage before earthing a line or a transformer to carry out work in MV substations or cells.

The detector's battery-free operation and built-in self-test make it possible, in indoor substations, to have a testing device that is always ready for use.

Technical specifications: TP13PM:

- 1 section insulating stick with a universal end fitting
- Fibreglass composite tube, diameter 32 mm.
- Operating voltage: 5 to 45 kV.
- Test voltage on 300 mm: 50 kV.
- Overall length: 1,17 m.
- Weight: 500 g.

TR245U :

- Telescopic insulating stick with a universal end fitting
- Polyurethane foam-filled fibreglass composite upper tube, Ø 32 mm.
- Fibreglass composite lower tube, Ø 39 mm.
- Operating voltage: 25 to 63 kV kV.
- Test voltage on 300 mm: 100 kV (upper section) / 50 kV (lower section).
- Folded length: 0,85 m.
- Extended length: 1,50 m.
- Weight: 1,050 kg.

TDP536 : See next product description.



Ref.	Description	Detector	Stick	Length (m)	Weight (g)
TP13P	1 element insulating stickn range 5 to 36 kV 5-36 kV	TDP536	TP13 PM	1,17	800
TP13T	Insulating telescopic stick 5-36 kV	TDP536	TR245U	0,85/1,50	1350



TDP536 - TDP572

VOLTAGE ABSENCE DETECTOR WITH AIR GAP ARRESTER FOR INDOOR USE

Technical specifications: - 2 standard voltage ranges: 5-36 kV (ref. TDP536) or 5-72.5 kV (ref. TDP572)

- Operates without battery
- Flashing warning light.
- Integrated piezoelectric self-test system for checking all moving parts.
- Dimensions compatible with use of stick holder rings.
- Black polycarbonate container, fixed using universal end-fittings.
- Fixing on all types of stick using available intermediary joints.
- Supplied with straight antenna of dimensions - L 40 mm - Ø 10 mm

Ref.	Voltage	Dimensions (mm)	Weight (g)
TDP536	5-36 kV	Body Ø 49 mm x L 195 mm	300
TDP572	5-72,5 kV	Body Ø 49 mm x L 195 mm	300



TP13C

COMPACT VOLTAGE DETECTOR STICK

COMPLYING TO EUROPEAN DIRECTIVES AND CE MARKING

Use: TP13C is designed to check absence or presence of nominal voltage by direct contact. It is usually used prior to earthing operation of a three-phase voltage system.

TP13C was specially adapted to be used in MV substations through 50 mm diameter spy holes.

- ⊕ **Compact voltage detector**
- Working without battery**
- Black polycarbonate shell**
- All weather use**
- Temperature : -20°C to +40°C**
- Red telescopic stick with 6 elements included**
- Soft handle with hand guard**
- Visual indication by 1 red light**
- Integrated auto-test without battery (with piezoelectric)**

Technical specifications: 3-phase AC indoor system

Nominal voltage from 5 kV up to 36 kV

Frequency : 50Hz - 60hz

Telescopic stick size : 900 mm extended / 320 mm folded

Delivered with 40 mm straight probe

Supplied with carrying bag suitable for belt fixing



Ref.	Voltage range	Frequency	Dimensions (mm)	Weight (g)
TP13C	5 - 36 kV	50 - 60 Hz	350 x 70 x 60 mm	400

TP13CS

VOLTAGE DETECTOR 5-36 KV WITH COMPACT STICK

Use: Voltage detector with compact insulating stick to check the presence of the nominal voltage by direct contact inside MV substations.

Specially adapted for Ø 50 mm pole access holes in MV substations.

Technical specifications: Detector :

- Use : indoor
- Voltage range : 5 kV to 36kV.
- Frequency : 50 Hz or 60Hz
- Integrated self monitoring function that checks the integrity of the electronics as well as the battery level
- Indication of voltage presence : red light signal and audible signal
- Indication of proper functioning : green light signal
- Supply : 9 V alkaline battery 6LR61
- Sturdy white polycarbonate casing
- 40 mm Y-shaped universal contact probe (straight, V-shaped and hook probes are available upon request)
- Temperature range : -20°C to +40°C

Stick :

- Red telescopic stick with 6 elements
- Soft handle with handguard

Length with extended stick : 900mm

Length with folded stick : 320 mm

Delivered in a soft case with contact probe D40.



Ref.	Voltage range	Frequency	Weight (g)
TP13CSF5	5 to 36 kV	50 Hz	550
TP13CSF6	5 to 36 kV	60 Hz	550

S4310

WORK LIGHT FOR INTERVENTION

Use: Light designed for safety operations and checking operations in technical facilities such as:

- electrical station and substation,
- boiler room,
- lift machinery.

It can be used for night rounds.

This lamp has a LED lighting in standby mode and in emergency mode.

➕ Extra flat portable light
Light source 100% LED

Technical specifications: Articulated handle.

Switch with 2 positions : 45 lm and 100 lm.

On request: configuration in «Automatic switch on in case of power break».

Delivered with a bracket (without screw) for wall mounting and a carrying handle.

Voltage : 230 VCA ~ -10% +6% 50/60Hz

Lamp output : 1 white LED 1W

Charge monitor : 1 Green LED

Battery : 1 x 2,4V 1,5Ah

Autonomy : 1 hour (100 lumens) or 3 hours (45 lumens)

Temperature of use : 0° to +40° C

IP42.

IK10.



Ref.	Dimensions (mm)	Weight (g)
S4310	240 x 138 x 60	680



TB11D

STAND FOR MV FUSES

Use: For holding spare fuses kept available in MV substations or cells.

Technical specifications: Stand comprising 2 elements (1 upper element with 3 slots for fuses up to max. Ø 65 mm, 1 lower element with flat base).

Material: white injected thermoplastic material.

Supplied with rear holes for fixing to wall (supplied with fixing screws and hooks).

Ref.	Dimensions (mm)	Weight (g)
TB11D	2 elements of 280 x 90 x 150	540



TC108

INSULATING STORAGE BOX FOR ELECTRICIANS' GLOVES

Use: To be placed in all substations.

Technical specifications: The transparent anti-UV ray window is for checking the presence of gloves.

Made entirely of insulating material, shock proof, it is strong enough for use as a carrying box.

Its size prevents internal compression of insulating gloves up to class 4 (up to 36kV).

Secured by 2 holes.

Colour : orange.

Delivered with powder flask TS10T.

Ref.	Dimensions (mm)	Weight (g)
TC108	480 x 220 x 80	750



E06 2KGS

ABC POWDER FIRE EXTINGUISHER, CAPACITY 2 KG

IN CONFORMITY WITH THE PRESSURE EQUIPMENT DIRECTIVE PED97/23/EC, MED96/98/EC AND CEN EN3

Use: Suitable for all fires (except metal fires).

May be used on live electrical networks with nominal voltage below 1000 V AC.

Fire classes : A13 - B89 - C

- ⊕ Light aluminium alloy body.
- Manometer for pressure control.
- Plastic bracket with luminescent strip for an easy location in the dark.

Technical specifications: Stored pressure, multi-purpose dry powder fire extinguisher with pressure gauge:

- Body : Single piece, deep drawn aluminium alloy body, externally painted with polyester resin.
- Valve : The handy compact valve is ergonomically designed to guarantee an easy use with one hand. A pressure gauge is provided. All external parts are either in plastic material or protected against corrosion.
- Propellant : The propellant gas is nitrogen. A small percentage of helium is added, to facilitate electronic leak detection.
- Extinguishing agent : ABC multi-purpose dry powder. All parts in contact with the extinguishing agent are compatible with the same.
- Bracket : Plastic bracket specially designed for vehicle and marine use.

Operating temperature range: -30°C / + 60°C

Fire classes: 13A - 89B - C

Ref.	Capacity (kg)	Weight empty (kg)	Weight loaded (kg)	Dimensions
E06 2KGS	2	0,70	2,70	Ø 108 x 380 mm

E06 6KGS

ABC POWDER FIRE EXTINGUISHER, CAPACITY 6 KG

IN CONFORMITY WITH THE PRESSURE EQUIPMENT DIRECTIVE PED97/23/EC

Use: Suitable for all fires (except metal fires).

May be used on live electrical networks with nominal voltage below 1000V AC.

Fire classes : A27 - B183 - C

Manometer for pressure control.

Technical specifications: Stored pressure, multi-purpose dry powder fire extinguisher:

- Body : 160 mm diameter deep drawn mild steel cylinder, MIG welding externally painted with polyester resin.
- Valve : Lever operated with nickel plated brass body. All external parts are protected against corrosion.
- Propellant : The propellant gas is nitrogen. A small percentage of helium is added, to facilitate electronic leak detection.
- Extinguishing agent : ABC multi-purpose dry powder. All parts in contact with the extinguishing agent are compatible with the same.
- Hose : Reinforced rubber hose with pressure connections, complete with nozzle.
- Bracket : Mild steel, zinc-plated wall bracket suitable for vertical mounting.

Operating temperature : -30° C to +60° C.

Fire classes : A27 - B183 - C



Ref.	Capacity (kg)	Weight empty (kg)	Weight loaded (kg)	Dimensions
E06 6KGS	6	3,30	9,30	Ø 160 x 520 mm

TS48

WALL BRACKETS FOR STICKS

Technical specifications: Semi-rigid plastic, supplied with wood fixing screws.



Ref.	Top diameter (mm)	Bottom diameter (mm)	Weight (g)
TS48 06	28 to 30	36	90
TS48 10	32 to 36	58	150

TL06

STICK ACCESS HOLE

Use: Access hole for passing voltage detection stick through the protective wall of an "open" installation, guaranteeing personal protection.

Technical specifications: Materials: moulded plastic.

External installation by 3 screws tightened onto a steel fixing flange.



Ref.	Opening	Weight (g)
TL06	Ø 60 mm	110



TT015M

INSULATING SINGLE PIECE PLASTIC STOOL FOR INSIDE USE

Use: Used to provide insulation for a technician during 1st category work or operating on manually operated 2nd or 3rd category separating instruments (switchgear...).

Technical specifications: One-piece moulded plastic stool with anti-slip tray.
Fixed insulating legs in PVC, inclined in order to keep the platform away from contact with vertical wall.
All stools are supplied with anti-slip pads.

Ref.	Voltage	Height under platform (mm)	Dimensions (cm)	Weight (kg)
TT015M 24KV	24 kV	150	50 x 50	3,60
TT015M 45KV	45 kV	237	50 x 50	3,90



TT016

INSULATING PLASTIC STOOL FOR INSIDE USE

Use: Used to provide insulation for a technician during 1st category work or operating on manually operated 2nd or 3rd category separating instruments (switchgear...).

Technical specifications: Plastic stool with anti-slip tray.
Insulating PVC legs, inclined in order to keep the platform away from contact with vertical wall.
All stools are supplied with anti-slip pads.
Screw legs.

Ref.	Voltage	Height under platform (mm)	Dimensions (cm)	Weight (kg)
TT016 24KV	24 kV	150	50 x 50	3,60
TT016 45KV	45 kV	237	50 x 50	3,90
TT016 63KV	63 kV	317	50 x 50	4,10



TT018

INSULATING PLASTIC STOOL FOR OUTSIDE USE

Use: Used to provide insulation for a technician during 1st category work or operating on manually operated 2nd or 3rd category separating instruments (switchgear...).

Technical specifications: Plastic stool with anti-slip tray.
Insulating PVC legs with insulating skirts, inclined in order to keep the platform away from contact with vertical wall.
All stools are supplied with anti-slip pads.
Screw legs.

Ref.	Voltage	Number of skirts	Height under platform (mm)	Dimensions (cm)	Weight (kg)
TT018 24KV	24 kV	2	245	50 x 50	4,15
TT018 45KV	45 kV	3	362	50 x 50	4,60
TT018 63KV	63 kV	3	413	50 x 50	4,80

TPEPVC

PVC COVERED FLAT COPPER BRAIDS



Ref.	Section (mm ²)	Dimensions nominales (mm)	Length (lm)	Weight (kg/100m)
TPE10PVC	10	12 x 3,5	100	12
TPE16PVC	16	17 x 3,5	100	18
TPE25PVC	25	27 x 4	50	29
TPE35PVC	35	29 x 4	50	39
TPE50PVC	50	28 x 7	50	56
TPE75PVC	75	33 x 8	25	82

TREPVC

PVC COVERED ROUND COPPER BRAIDS



Ref.	Section (mm ²)	Diameter over insulation (mm)	Length (lm)	Weight (kg/100m)
TRE10PVC	10	7	100	12
TRE16PVC	16	8	100	17
TRE25PVC	25	10	50	29
TRE35PVC	35	12	50	39
TRE50PVC	50	13	50	55
TRE75PVC	75	15	25	81
TRE95PVC	95	18	25	101
TRE120PVC	120	21,5	Drum	127



TPE

TINNED FLAT COPPER BRAID

Ref.	Section (mm ²)	Dimensions nominales (mm)	Length (m)	Weight (kg/100m)
TPE2,5	2,5	4,5 x 13	100	2,5
TPE5	5	8 x 1,4	100	5
TPE10	10	12 x 1,8	50 - 100	10
TPE16	16	15 x 2	25 - 50 - 100	16
TPE25	25	22 x 2,3	25 - 50	25
TPE35	35	27 x 2,8	25 - 50	35
TPE50	50	30 x 3,5	25 - 50	50
TPE70	70	30 x 5	25	70
TPE75	75	33 x 5	25	75
TPE95	95	38 x 5	25	95
TPE120	120	40 x 6	10	120
TPE150	150	50 x 6	10	150
TPE185	185	50 x 8	10	185
TPE10/50	10	12 x 1,8	50	
TPE16/25	16	15 x 2	25	
TPE25/25	25	22 x 2,3	25	



TRE

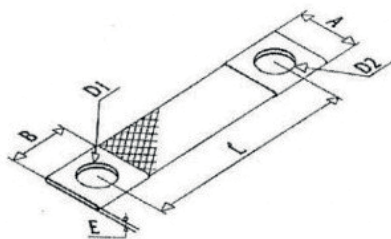
TINNED ROUND COPPER BRAIDS

Ref.	Section (mm ²)	Nominal diameter (mm)	Length (lm)	Weight (kg/100m)
TRE6	6	4	50 - 100	6
TRE10	10	5	50 - 100	10
TRE16	16	6	25 - 50	16
TRE25	25	8	25 - 50	25
TRE35	35	9	25	35
TRE50	50	11	25	50
TRE70	70	13	25	70
TRE75	75	13,5	25	75
TRE95	95	15	25	95
TRE120	120	17,5	Drum	120

TME   

HIGH FLEXIBLE EARTHING TAPES OUT OF TINNED COPPER

Technical specifications: Manufactured out of flexible tinned copper braids (15/100 or 20/100 mm single wire diameter) with pressed tinned copper ferrules on the ends.



Ref.	Section (mm ²)	D1 D2 hole diameter (mm)	Length between holes (mm)	A B E terminal sizes (mm)	Sold in packs of	Weight (kg/100)
TME10100-65	10	6,5	100	14 - 15 - 3,5	50 - 100	1,63
TME10150-65	10	6,5	150	14 - 15 - 3,5	50 - 100	2,11
TME10200-65	10	6,5	200	14 - 15 - 3,5	50 - 100	2,59
TME10250-65	10	6,5	250	14 - 15 - 3,5	50 - 100	3,07
TME10300-65	10	6,5	300	14 - 15 - 3,5	50 - 100	3,55
TME16100-85	16	6,5	100	17 - 17 - 4	50 - 100	2,52
TME16150-85	16	8,5	150	17 - 17 - 4	50 - 100	3,20
TME16200-85	16	8,5	200	17 - 17 - 4	50 - 100	3,88
TME16250-85	16	8,5	250	17 - 17 - 4	50 - 100	4,56
TME16300-85	16	8,5	300	17 - 17 - 4	50 - 100	5,24
TME16350-85	16	8,5	350	17 - 17 - 4	50 - 100	5,92
TME16400-85	16	8,5	400	17 - 17 - 4	50 - 100	6,60
TME25100-85	16	8,5	100	17 - 17 - 4	50 - 100	5,16
TME25150-85	25	8,5	150	23 - 25 - 4	25 - 50	6,36
TME25200-85	25	8,5	200	23 - 25 - 4	25 - 50	7,56
TME25250-85	25	8,5	250	23 - 25 - 4	25 - 50	8,76
TME25300-85	25	8,5	300	23 - 25 - 4	25 - 50	9,96
TME25350-85	25	8,5	350	23 - 25 - 4	25 - 50	11,16
TME25400-85	25	8,5	400	23 - 25 - 4	25 - 50	12,36
TME35100-105	35	10,5	100	27 - 25 - 4,2	25 - 50	6,70
TME35150-105	35	10,5	150	27 - 25 - 4,2	25 - 50	8,42
TME35200-85	35	10,5	200	27 - 25 - 4,2	25 - 50	10,13
TME35250-105	35	10,5	250	27 - 25 - 4,2	25 - 50	11,85
TME35300-105	35	10,5	300	27 - 25 - 4,2	25 - 50	13,56
TME35350-105	35	10,5	350	27 - 25 - 4,2	25 - 50	15,28
TME35400-105	35	10,5	400	27 - 25 - 4,2	25 - 50	17,00
TME50100-105	50	10,5	100	33 - 30 - 5	25	9,85
TME50150-105	50	10,5	150	33 - 30 - 5	25	12,15
TME50200-105	50	10,5	200	33 - 30 - 5	25	14,50
TME50250-105	50	10,5	250	33 - 30 - 5	25	16,80
TME50300-105	50	10,5	300	33 - 30 - 5	25	19,10
TME50350-105	50	10,5	350	33 - 30 - 5	25	21,45
TME50400-105	50	10,5	400	33 - 30 - 5	25	23,75
TME50500-105	50	10,5	500	33 - 30 - 5	25	28,40
TME70150-13	70	13	150	32 - 30 - 5,5	25	15,75
TME70200-13	70	13	200	32 - 30 - 5,5	25	19,70
TME70250-13	70	13	250	32 - 30 - 5,5	25	22,40
TME70300-13	70	13	300	32 - 30 - 5,5	25	25,70
TME70400-13	70	13	400	32 - 30 - 5,5	25	32,35
TME70500-13	70	13	500	32 - 30 - 5,5	25	39,00



P146

STANDARD COPPER-COATED STEEL RODS

Technical specifications: Non-extensible copper-coated steel rod with one pointed end, 254 µm minimum according to UL SPEC 467.

P146 Systematically supplied with 16 mm crimped cable lug ref. P149C.

P146-2 Systematically supplied with 19 mm crimped cable lug ref. P149C..

Ref.	Length (m)	Nominal Ø	Actual Ø	Weight (kg)
P146 1M	1,00	16 mm (5/8")	14,3 mm	1,27
P146 1.50M	1,50	16 mm (5/8")	14,3 mm	1,91
P146 2M	2,00	16 mm (5/8")	14,3 mm	2,54
P146-2 1.50M	1,50	19 mm (3/4")	17,3 mm	2,77
P146-2 2M	2,00	19 mm (3/4")	17,3 mm	3,69



P147

SELF-EXTENSIBLE COPPER-COATED STEEL RODS

Technical specifications: Self-extensible copper-coated steel rod with one pointed end, 254 µm or 350 µm minimum.

Ref.	Length (m)	Nominal Ø	Actual Ø	Type	Weight (kg)
P147-2 1M	1,00	19 mm (3/4")	17,3 mm	350 µm	1,80
P147-2 1.50M	1,50	19 mm (3/4")	17,3 mm	254 µm	2,70



P148

SELF-EXTENSIBLE STAINLESS STEEL RODS

Technical specifications: Self-extensible, Z33C13 stainless steel rod, with one pointed end.

Ref.	Length (m)	Nominal Ø	Actual Ø	Weight (kg)
P148 1M	1	16 mm	16 mm	1,50
P148 1.50M	1,50	16 mm	16 mm	2,25
P148 2M	2	16 mm	16 mm	3

TG105 to TG122

HEARTHING GRIDS

Technical specifications: Earthing grid in expanded red copper.

115 x 55 mm meshing

Section 3 x 3 mm

Solid band for connecting a conductor 50 to 100 mm wide.



Ref.	Grid dimensions (m)	Length of the solid band (m)	For quantity	Weight (kg)
TG105	1 x 0,50	0,50	1 to 4	2
TG106	1 x 0,50	0,50	5 to 10	2
TG107	1 x 0,50	0,50	11 and +	2
TG110	1 x 1	1	1 to 4	4
TG111	1 x 1	1	5 to 10	4
TG112	1 x 1	1	11 and +	4
TG120	2 x 1	2	1 to 4	8
TG121	2 x 1	2	5 to 10	8
TG122	2 x 1	2	11 and +	8

IFFM

POLYESTER FIBREGLASS INSULATORS (FEMALE/FEMALE)

Technical specifications: Self extinguishing (standard UL-94)

Operating temperature : -40°C up to +130°C

Water absorption ASTM570 : <0,2%

Tracking resistance ASTMD2302 : 3W/min



Ref.	Height (mm)	Thread size and depth	Operating voltage (V)	Rated withstand voltage (kV)	Minimum flashover voltage (kV)	Sold in packs of	Weight (g)
IFFM635	35	M6 x 10	750	10	40	25	100
IFFM835	35	M8 x 10	750	10	40	25	100
IFFM850	50	M8 x 15	1500	12	40	10	200
IFFM1050	50	M10 x 15	1500	12	40	10	200
IFFM1250	50	M12 x 15	1500	12	40	10	200
IFFM1280	80	M12 x 25	3600	25	50	4	250



BET

EQUIPOTENTIAL BONDING BARS

Technical specifications: The equipotential bonding bars are manufactured out of 50 x 5 mm bare copper with free holes of diameter 6,5 mm.

Assembled on insulators and hot dip galvanised slotted channels (9 x 25 mm) for an easy fixing. Stainless steel hardware.

Ref.	Type	Length (mm)	Number of possible connections	Weight (kg)
BET10	Without disconnecting link	420	10	1,75
BET15	Without disconnecting link	595	15	2,25
BET20	Without disconnecting link	770	20	2,80
BET25	Without disconnecting link	945	25	3,35
BET6	With disconnecting link	280	6	1,25
BETC10	With disconnecting link	490	10	2,15
BETC15	With disconnecting link	665	15	2,65
BETC20	With disconnecting link	840	20	3,20
BETC25	With disconnecting link	1015	25	3,75
BETC6	With disconnecting link	350	6	1,65
BTC	Disconnecting link	105	-	0,70



SEFRBM

BRASS CABLE HOLDERS WITH BIMETALLIC WASHERS



Ref.	Section (mm ²)	Min/max conductor diameter (mm)	Thread under base	Max thickness (mm)	Sold in packs of	Weight (kg/100)
SEF25-6/2RBM	25	3 - 6	M6	6	50	4,20
SEF35-6/2RBM	35	4 - 8	M6	6	50	4,80
SEF50-6/2RBM	50	7 - 10	M6	6	50	6,40
SEF95-6/2RBM	95	8 - 12	M6	6	25	8,40
SEF95-6/RBM/30	95	8 - 12	M6	12	25	8,60
SEF120-6/2RBM	120	10 - 14	M6	12	25	10,60
SEF150-6/2RBM	150	10 - 16	M6	12	25	15,80
SEF185-6/2RBM	185	12 - 18	M6	12	25	16,80
SEF25-7/2RBM	25	3 - 6	M7	12	50	4,30
SEF35-7/2RBM	35	4 - 8	M7	12	50	4,90
SEF50-7/2RBM	50	7 - 10	M7	12	50	6,50
SEF95-7/2RBM	95	8 - 12	M7	12	25	8,50
SEF120-7/2RBM	120	10 - 14	M7	12	25	10,70
SEF150-7/2RBM	150	10 - 16	M7	12	25	16,00
SEF185-7/2RBM	185	12 - 18	M7	12	25	17,00
SEF120-8/2RBM	120	10 - 14	M8	14	25	11,20
SEF150-8/2RBM	150	12 - 16	M8	14	25	16,20
SEF185-8/2RBM	185	12 - 18	M8	14	25	17,50
SEF240-8/2RBM	240	16 - 20	M8	14	25	25,90
SEFB300-8/BM	300	22 - 23	M8	14	10	32,70

RBM

COPPER/ALUMINIUM BIMETALLIC WASHERS



Ref.	Hole diameter (mm)	Outer diameter (mm)	Thickness (mm)	Sold by	Weight (kg/100)
RBM6.5	6,5	20	1	100	0,11
RBM6.5/20	6,5	30	2	100	0,46
RBM8.5	8,5	30	2	100	0,45
RBM10.5	10,5	30	2	100	0,45
RBM13	13	30	2	100	0,45
RBM14.5	14,5	30	2	100	0,45
RBM16.5	16,5	30	2	100	0,45
PBM20.5/33X33	20,5	30	2	100	0,50

P149S

BRASS CABLE HOLDERS



Ref.	Capacity min Ø - max Ø	Cross-section	Threading	Dimensions (mm)	Weight (g)
P149S1	3 à 6 mm	25 mm ²	M 6	16 x 14 x 14	20
P149S2	4 à 8 mm	35 mm ²	M 6	20 x 15 x 15	40
P149S3	7 à 10 mm	60 mm ²	M 6	24 x 20 x 20	60
P149S4	10 à 15 mm	95 mm ²	M 6	25 x 21 x 21	80

PBM

COPPER/ALUMINIUM BIMETALLIC PLATES



Ref.	Hole diameter (mm)	Dimensions (mm)	Sold in packs of	Weight (kg/100)
PBM10.5	10,5	55 x 40 x 1	100	0,80
PBM12.5	12,5	55 x 40 x 1	100	0,77
PBM14.5	14,5	55 x 40 x 1	100	0,75
PBM16.5	16,5	55 x 40 x 1	100	0,70



P149

ROD TO CONDUCTOR CLAMPS

Technical specifications: Body made in high resistance copper alloy protected against corrosion. Screw and bolts made in stainless steel.

Ref.	Description
P149C 16MM	Clamps for rods of Ø 5/8" (14 mm) with cables of 16 mm ² up to 70 mm ²
P149C 19MM	Clamps for rods of Ø 3/4" (18 mm) with cables of 25 mm ² up to 95 mm ²
P149F	Clamp for rods of Ø 14 up to 20 mm with flat conductors of max. 30 x 6 mm



P149B

DRIVING HEADS FOR HEARTH RODS

Ref.	Dimensions (mm)	Weight (g)
P149B1	80 x 25 x 25	400
P149B2	106 x 30 x 30	460



TB11B

EARTH CONNECTION AND MEASUREMENT PLATE ON SUPPORT

Use: Connection plate designed to group earth or earthed neutral using a connecting strip, to facilitate measurement of earth in substations.

Technical specifications: Materials: 40 mm² copper strips fitted to ABS insulators, assembly then screwed onto a support in bakelized paper. 113 mm² copper testing terminal.

Ref.	Dimensions (mm)	Weight (g)
TB11B	200 x 250 x 85	640



TB11C2

EARTH CONNECTION AND MEASUREMENT PLATE HN 64S33

Use: Connection plate designed to group together earth and earthed neutral compliant with standard HN 64S33 with cable connections in substations.

Technical specifications: Set including 1 earth plate HN 64M and 1 earthed neutral plate HN 64N. Material : 120 mm² copper strips fixed to insulated plate in bakelized paper. 113 mm² copper testing terminal.

Ref.	Dimensions (mm)	Weight (g)
TB11C2	210 x 180 x 95	890

TC107GB24KV

RESCUE SET 24 KV

Use: The TC107P rescue set contains all the items needed to quickly rescue a victim from electrical contact up to 24 kV.

Designed to be placed near electrical hazardous areas.



Ref.	Description	Dimensions (mm)	Weight (kg)
TC107GB24KV	Complete rescue set 24 kV	1850 x 760 x 16	23,50
Contents:			
GLB3-36-11	Insulating latex gloves class 3 size 11		
TC108	Insulating storage box with window for electricians' gloves		
CCIVES	Insulated cable cutter 36 kV		
TT015M 24KV	Insulating stool 24 kV		
TP12X	Rescue stick 90 kV 1,97 m with adaptor for TDP536		
TDP536	Voltage absence detector with air gap arrester 5-36 kV		
TB1943	Live working boots 20 kV size 43		
S80ALGB 210	Electric shock first aid sign		
PBE	Wooden panel		

TB19 Dielectric boots are available in size from 36 to 48, please specify when you order.

TC107GB36KV

RESCUE SET 36 KV

Use: The TC107P rescue set contains all the items needed to quickly rescue a victim from electrical contact up to 36 kV.

Designed to be placed near electrical hazardous areas.



Ref.	Description
TC107GB36KV	Complete rescue set 36 kV
Contents:	
S80ALGB 210	Electric shock first aid sign
GLB4-41-10	Insulating latex gloves 41 cm class 4 size 10
TC108	Insulating storage box with window for electricians' gloves
CCIVES	Insulated cable cutter 36 kV
TDP536	Voltage absence detector with air gap arrester 5-36 kV
TP12X	Rescue stick 90 kV 1,97 m with adaptor for TDP536
TB1943	Live working boots 20 kV size 43
TT015M 45KV	Insulating stool 45 kV
PBE	Wooden panel

TB19 Dielectric boots are available in size from 36 to 48, please specify when you order.

NEW

VES

ELECTRICAL SAFETY KIT

Use :

The electrical safety kit allows to assist people in presence of electrical hazards, up to 25 kV network with model VES25 or up to 36 kV network with model VES36. This kit is particularly suitable for the following situations :

- Road accidents
- Electric and hybrid cars
- Cable removal
- Work on photovoltaic panels
- Work on electrified railways
- Industry

Technical specifications :

Contents :

- Insulating stool : 25 000V or 36 000V models available
- Insulating gloves : GLB3-36-10 (class 3) for model VES25 or GLB4-36-10 10 (class 4) for model VES36
- Insulating boots TB19 : protection against step voltage (voltage gradient in the ground).
- Insulating telescopic stick PPOLVES, equipped with a hook CSVES
- Voltage detector TDPESEC : detects all voltages of 127 V AC and above (does not detect DC voltages)
- Cable cutter CCIVES : Insulated 36 000 V cable cutter
- Talc shaker TS10T : for easier donning of gloves
- Fabric case for gloves TS10 : Mechanical and UV protection
- Adhesive marker tape S174JN : for marking off an area, preventing a disconnect switch from being reset, etc
- Instruction for use VESNOT : in diagram form for quick reading and guidance



AN ELECTRICAL SAFETY KIT FOR FIELD OPERATIONS

> COMPACT :

For easier storage in vehicles, the case is 600 x 400 x 310 mm size.

> MOBILITY :

Exclusive wheel system and handle to facilitate access to the intervention area.

> TOUGH :

The materials and the manufacturing process have been chosen to give the case optimum service life.

> HIGH VISIBILITY :

Retro reflective strips are used for greater visibility.

> OPTIMISED STORAGE :

The case packs a lot of equipment into a small space.

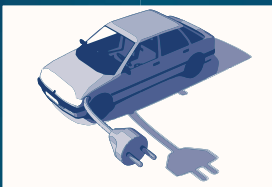




ASSISTANCE TO PEOPLE IN PRESENCE OF ELECTRICAL HAZARDS



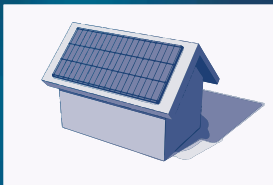
Road accidents



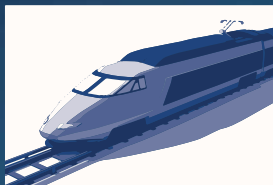
Electric and hybrid cars



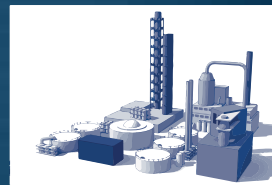
Cable removal



Work on photovoltaic panels



Work on electrified railway lines



Industry



Ref.	Max. operating voltage	Distinctive features	Dimensions	Weight
VES25	25 000 V	25 kV stool and gloves class 3	600 x 400 x 310 mm	15 kg
VES36	36 000 V	36 kV stool and gloves class 4	600 x 400 x 310 mm	15 kg



VES250B - VES360B

ELECTRICAL SAFETY KIT

Use: The electrical safety kit allows to assist people in presence of electrical hazards, up to 25 kV network with model VES250B or up to 36 kV network with model VES360B.

The content of these kits are identical to models VES25 and VES36 with the exception of the dielectric boots that have been replaced with dielectric overboots.

Technical specifications: Contents :

- Insulating stool : 25 000V or 36 000V models available
- Insulating gloves : GLB3-36-10 (class 3) for model VES25 or GLB4-41-10 (class 4) for model VES36
- Dielectric overboots size XL : protection against step voltage (voltage gradient in the ground). Compliant with EN 50321 Class 0 and ASTM F1117
- Insulating stick PPOLVES, equipped with a hook CSVES : telescopic stick with pentagonal shape for a perfect grip
- Voltage detector TDPESEC : detects all voltages of 127 V AC and above (does not detect DC voltages)
- Cable cutter CCIVES : Insulated 36 000 V cable cutter
- Talc shaker TS10T : for easier donning of gloves
- Fabric case for gloves TS10 : Mechanical and UV protection
- Adhesive marker tape S174JN : for marking off an area, preventing a disconnect switch from being reset, etc
- Instruction for use VESNOT : in diagram form for quick reading and guidance

Ref.	Max operating voltage	Distinctive feature	Dimensions (mm)	Weight (kg)
VES250B	25 000V	25 kV stool and gloves class 3	600 x 400 x 310	15
VES360B	36 000V	36 kV stool and gloves class 4	600 x 400 x 310	15



TDPESEC

VOLTAGE DETECTOR WITH INTEGRATED SELF-TEST 127 V TO 90 KV

COMPLIES WITH CE

Use: Voltage detector with self-test, running on a voltage range of 127 V to 90 kV.

⊕ **Easy to use :** The detection voltage is indicated by a red flashing light and a sound.
Body made in black polycarbonate with incorporating universal nozzle attachment.
Its attachment is possible on any type of sticks by intermediate couplings available.

Technical specifications: Field voltages on contact with the element to check : 127V to 90kV.

AC mains frequency : 50 Hz

Climatic resistance : -20 ° C to +50 ° C depending on battery type.

Automatic wake up when voltage detected.

This detector is powered by a 9V IEC / IEC 6LR61 alkaline, it's self-test embedded control all parts.

Self-test is controlling all functions and the voltage level of battery.

Indication of live voltage : Sound and red Light.

Ref.	Body diameter (mm)	Length (mm)	Weight (g)
TDPESEC	49	195	270

Rescue equipment

Type of network: LV  MV  HV 

TP12

INSULATING RESCUE STICK

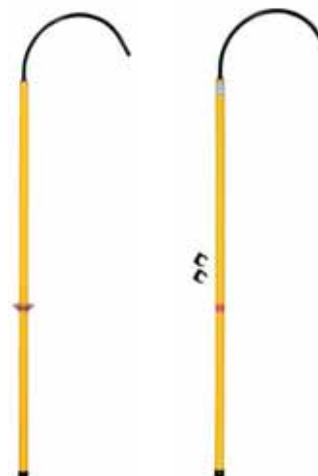
Use: Stick for rescuing an injured technician (electrocution, dizziness...), working on category 1, 2 and 3 substations. It is used to grasp the injured person by the waist and bring him back to a protected area.

Technical specifications: Test voltage on 300 mm : 100 kV.

Hook : steel tube 18 x 1,5 cm.

Length : 600 mm, delivered dismantled.

Ref. TP12X includes stick (Ref.TP12) with adaptor for voltage detector 5-36 kV (TDP536).



Ref.	Description	Operating voltage	Overall length w/o hook (m)	Length of the protected area : shaft (mm)	Weight (kg)
TP12 45KV	Rescue stick 45 kV with handguard and hook	45 kV	1,47	600	1,4
TP12 90KV	Rescue stick 90kV with handguard and hook	90 kV	1,97	600	1.7
TP12EC	Rescue stick 45 kV with handguard, without hook	45 kV	1,47	600	1,35
TP12SC225	Rescue stick 225 kV without hook	225 kV	2,25	600	1.95

TP12EC stick is delivered with wall brackets.

TP31ST2

3 ELEMENTS RECSUE STICK 50 KV

Use: Stick for rescuing an injured technician (electrocution, dizziness...).

It is used to grasp the injured person by the waist and bring him back to a protected area, it can aslo be used to push a cable away from a victim.

Indoor and outdoor use.

Technical specifications: The 3 sections are assembled by aluminium screw connectors.

Dielectric strength : 100 kV/30 cm

Hook : steel tube 180 x 15 mm, length 500 mm The hook can be equipped with the voltage detector TDPESEC (detector not included).



Ref.	Length (m)	Weight (kg)
TP31ST2	2	1,70



E06 2KGS

ABC POWDER FIRE EXTINGUISHER, CAPACITY 2 KG

IN CONFORMITY WITH THE PRESSURE EQUIPMENT DIRECTIVE PED97/23/EC, MED96/98/EC AND CEN EN3

Use: Suitable for all fires (except metal fires).

May be used on live electrical networks with nominal voltage below 1000 V AC.

Fire classes : A13 - B89 - C

- ⊕ Light aluminium alloy body.
- Manometer for pressure control.
- Plastic bracket with luminescent strip for an easy location in the dark.

Technical specifications: Stored pressure, multi-purpose dry powder fire extinguisher with pressure gauge:

- Body : Single piece, deep drawn aluminium alloy body, externally painted with polyester resin.
- Valve : The handy compact valve is ergonomically designed to guarantee an easy use with one hand. A pressure gauge is provided. All external parts are either in plastic material or protected against corrosion.
- Propellant : The propellant gas is nitrogen. A small percentage of helium is added, to facilitate electronic leak detection.
- Extinguishing agent : ABC multi-purpose dry powder. All parts in contact with the extinguishing agent are compatible with the same.
- Bracket : Plastic bracket specially designed for vehicle and marine use.

Operating temperature range: -30°C / + 60°C

Fire classes: 13A - 89B - C

Ref.	Capacity (kg)	Weight empty (kg)	Weight loaded (kg)	Dimensions
E06 2KGS	2	0,70	2,70	Ø 108 x 380 mm



E06 6KGS

ABC POWDER FIRE EXTINGUISHER, CAPACITY 6 KG

IN CONFORMITY WITH THE PRESSURE EQUIPMENT DIRECTIVE PED97/23/EC

Use: Suitable for all fires (except metal fires).

May be used on live electrical networks with nominal voltage below 1000V AC.

Fire classes : A27 - B183 - C

- ⊕ Manometer for pressure control.

Technical specifications: Stored pressure, multi-purpose dry powder fire extinguisher:

- Body : 160 mm diameter deep drawn mild steel cylinder, MIG welding externally painted with polyester resin.
- Valve : Lever operated with nickel plated brass body. All external parts are protected against corrosion.
- Propellant : The propellant gas is nitrogen. A small percentage of helium is added, to facilitate electronic leak detection.
- Extinguishing agent : ABC multi-purpose dry powder. All parts in contact with the extinguishing agent are compatible with the same.
- Hose : Reinforced rubber hose with pressure connections, complete with nozzle.
- Bracket : Mild steel, zinc-plated wall bracket suitable for vertical mounting.

Operating temperature : -30° C to +60° C.

Fire classes : A27 - B183 - C

Ref.	Capacity (kg)	Weight empty (kg)	Weight loaded (kg)	Dimensions
E06 6KGS	6	3,30	9,30	Ø 160 x 520 mm

E07 2KGS

CARBON DIOXIDE (CO₂) FIRE EXTINGUISHER, CAPACITY 2 KG

CERTIFIED TO THE PRESSURE EQUIPMENT DIRECTIVE PED 97/23/EC, MARINE EQUIPMENT DIRECTIVE MED 96/98/EC AND CEN EN3

Use: Suitable for class B fires – Flammable liquids.

Fire class : B34

Technical specifications: Carbon dioxide (CO₂) fire extinguisher with lever valve and front horn :

- Body : Single piece steel body, externally painted with polyester resin, signal red RAL 3000.
- Valve : The valve is lever operated with nickel brass body. Front –outlet type, provided with burst disk safety relief valve. All external valve parts are protected against corrosion.
- Extinguishing agent : Carbon dioxide (CO₂). All parts in contact with the extinguishing agent are compatible with the same.
- Horn : Front horn in polyamide.
- Bracket : Mild steel, zinc plated wall bracket suitable for vertical mounting.

Operating temperature : -30°C +60°C

Fire class : B34



Ref.	Capacity (kg)	Dimensions	Weight charged (kg)
E07SEUL2KG	2	535 x Ø 111 mm	5
E07 2KGS	2	535 x Ø 111 mm	5

E07 5KGS

CARBON DIOXIDE (CO₂) FIRE EXTINGUISHER, CAPACITY 5 KG

CERTIFIED TO THE PRESSURE EQUIPMENT DIRECTIVE PED 97/23/EC, MARINE EQUIPMENT DIRECTIVE MED 96/98/EC AND CEN EN3.

Use: Suitable for class B fires – Flammable liquids.

Fire class : B89.

Technical specifications: Carbon dioxide (CO₂) fire extinguisher with lever valve and front horn :

- Body : Single piece steel body, externally painted with polyester resin, signal red RAL 3000.
- Valve : The valve is lever operated with nickel brass body. Front –outlet type, provided with burst disk safety relief valve. All external valve parts are protected against corrosion.
- Extinguishing agent : Carbon dioxide (CO₂). All parts in contact with the extinguishing agent are compatible with the same.
- Hose and horn : Flexible hose with plait made of steel and 3/8 SAE 100 R1A rubber covering completed with horn.
- Bracket : Mild steel, zinc plated wall bracket suitable for vertical mounting.

Operating temperature range : -30°C +60°C

Fire class : B89.



Ref.	Capacity (kg)	Dimensions	Weight charged (kg)
E07SEUL5KG	5	840 x Ø 152 mm	12
E07 5KGS	5	840 x Ø 152 mm	12



E08

DRY POWDER FIRE EXTINGUISHERS ON WHEELS

EN 1866-1:2008 DIRECTIVE 96/98/EC (MED)

Use: Wheeled extinguisher designed for professional use under severe circumstances, resulting in a high level of quality and ease of use.

Fire classes : A - IVB - C

⊕ **Very mobile and easy to operate.**
Extremely high ratings on A, B and C class fires.
Can be used at low temperatures (-30°C)

Technical specifications: Wheeled extinguisher designed for professional use under severe circumstances, resulting in a high level of quality and ease of use.

- Headcap 2" BSP : the headcap is made of brass and equipped with a spring loaded safety valve
- Propellant bottle : N2 nitrogen bottle, chrome molybdenum steel
- Extinguishing agent : dry chemical powder, it is non-corrosive, non-abrasive, and is non toxic for humans and animals
- Discharge device : equipped with a highly flexible hose 5 m long made of EPDM rubber with an excellent resistance. The specially designed patented pistol ensures a steady flow of powder with a very low drop in pressure.
- Ease of mobility : large wheels with rubber tires and push bar ensures good stability during operation.

Discharge time : 25 sec for 25 kg model and 41 sec for 50 kg model

Jet length : 11 m

Operating temperature range : -30°C +60°C

Fire classes : A - IVB - C

Ref.	Capacity (kg)	Weight charged (kg)	Dimensions (mm)
E08 25KG	25	60	1020 x 430 x 535
E08 50KG	50	84	1050 x 450 x 535



E09 9KG

ABC DRY POWDER FIRE EXTINGUISHER, CAPACITY 9 KG

CERTIFIED TO THE PRESSURE EQUIPMENT DIRECTIVE PED 97/23/EC, TO THE MARINE EQUIPMENT DIRECTIVE MED 96/98/EC AND CEN EN3.

Use: Suitable for all fires (except metal fires).

May be used on live electrical network with nominal voltage below 1000V AC.

Fire classes : A43 - B233 - C

Technical specifications: Stored pressure, multi-purpose dry powder fire extinguisher with pressure gauge :

- Body : 190 mm diameter, deep drawn mild steel cylinder, MIG welding externally painted with polyester resin, signal red to RAL 3000. - Valve : Lever operated with nickel plated brass body. All external parts are protected against corrosion.

- Propellant : The propellant gas is nitrogen. A small percentage of helium is added, to facilitate electronic leak detection.
- Extinguishing agent : ABC multipurpose dry powder. All parts in contact with the extinguishing agent are compatible with the same.
- Hose : Reinforced rubber hose with pressure connections, complete with nozzle.
- Bracket : Mild steel, zinc-plated wall bracket suitable for vertical mounting.

Operating temperature range : -30°C +60°C

Fire classes : A43 - B233 - C

Ref.	Capacity (kg)	Weight empty (kg)	Weight charged (kg)	Dimensions (mm)
E09 9KG	9	5,8	13,8	530 x Ø 190

SP18

FIRE SET

Use: To be used in boiler room, substations, fuel storage facilities.

Allows to store sand necessary to stop an incipient fire.

Technical specifications: B01 is delivered in pieces with screws and user guide.

B01 : 740 x 480 x 430 mm, weight 11 kg



Ref.	Description
SP18	Complete rescue set
Contents:	
B01	Metal tank 100 L
C399	Suspension hook for shovel
MS60R	Red shovel handle
P30	Round shovel without handle
Option(s):	
S56	Red steel bucket 11 L with handle
C400	Suspension hook for bucket
B01C	Sheet metal top with 2 handles for metal tank B01

C348

FIRE BLANKETS

BS EN 1869

Use: The fire blanket is useful for the protection of the men and the material.

It must always be accessible in offices, workshops and substations.

Technical specifications: Blanket supplied in an ABS plastic box, which is both chemical and corrosion-resistant.

Instructions provided as symbols that can be readily understood by all.

Box is visible in the dark due to its glow-in-the-dark label.

Ideal where space is limited.

Reusable blankets that must be disposed of when damaged or contaminated.

Temperature range : -20° C to +100° C.

Weight of the blanket : 520 g/m²



Ref.	Dimensions de la couverture (cm)	Dimensions en coffret (cm)
C348A	120 x 120	26 x 16 x 4
C348B	120 x 180	37 x 18 x 4



C347

SURVIVAL BLANKET

Use: Single-use survival blanket.

Used to protect a victim of injury or burns by complete insulation.

High protection against cold, heat, rain, snow, wind and damp.

May also be used as a means of signalling.

⊕ **Essential first aid item.**

Technical specifications: This survival blanket is made from metallic polyester film, which reflects 90% of heat radiation.

Delivered in individual bag.

Ref.	Dimensions (cm)	Weight (g)
C347	210 x 160	60



B134ENS

FOLDING RESCUE STRETCHER SET

Use: Ideal to quickly evacuate a person.

Technical specifications: The set contains :

- a reinforced coated canvas stretcher, foldable along its length and width

Aluminium handles and feet

Dimensions : 229 x 58,5 x 14 cm

Dimensions folded : 115 x 12 x 18 cm

Weight : 8 kg

Max load : 150 kg

- a soft cover with protective frame, handles and carrying straps
- a first aid kit for 4 people
- a survival blanket, 210 x 160 cm
- a pillow with washable cover, 35 x 35 cm
- a blanket 150 x 200 cm

Ref.	Description	Weight (kg)
B134ENS	Folding rescue stretcher set	13



B88-B89

FIRST AID SET

Ref.	Description	Dimensions (cm)	Weight (g)
B88	First aid set - 4 people	18 x 13 x 6	400
B89	First aid set - 8 people	26 x 20 x 9	700

MS29SP

INSULATED BOLT CUTTER

Use: Bolt cutter used by firemen, emergency staff, safety, ...

Technical specifications: Bolt cutter with insulated comfort handles.

Capacity : 10 mm

Insulation : 15 kV



Ref.	Overall length (cm)	Weight (kg)
MS29SP	63	3

CCIVES

INSULATED CABLE CUTTER 36 KV

IEC 60855-1

Technical specifications: Cutting capacity :

Copper : Ø 14 mm

Aluminium : Ø 14 mm

Almelec : Ø 14 mm

Steel :

160 kg/mm² : 14 mm

190 kg/mm² : 7 mm

210 kg/mm² : 6 mm



Ref.	Dimensions (mm)	Weight (g)
CCIVES	520 x 130 x 60	1750



LIGHTS AND BAGS



LIGHTS

HEADLAMPS

Headlamps	116
ATEX headlamps	117

PORTABLE HAND-HELD LIGHTING

Portable hand-held lighting	118
Inspection lights	119
ATEX portable hand-held lighting	121

SPOTLIGHTS

Spotlights 12 - 24 V	122
----------------------------	-----

REMOTE AREA LIGHTING SYSTEM

Remote Area Lighting System	123
ATEX Remote Area Lighting System	124
Mobile emergency lighting	124

POWER SUPPLY

Batteries	125
Cable reels, extension leads	126
Power supply block	128
Generating sets	128

BAGS

Equipment bags	129
Tool boxes	132
Tool bags	135
Tool pouches and accessories	138
Accessory holder	139
Backpacks	140
Tool trays and buckets	141
Other bags	142
Cases	143



S950

LONG DISTANCE LED HEADLAMP

Use: Robustness, lightness, low volume... combined with a long distance beam («Power» or «Booster» modes) or a very high quality proximity lighting («Medium» mode).

Very well adapted on outside roadworks, high works, railways or electricity works.

Multi-purpose use : Frontal (with headband), Free standing (with or without headband), Clipped to a helmet (with a 20x3 mm slot), Clipped to a belt or pocket.

+ Battery gauge makes it possible to check the remaining autonomy of the lamp before use.

Safety : automatic switch to « economic mode » when battery capacity turns under 15% capacity.

Lighting distance : up to 100 metres.

Product designed and made in France.

Product tested individually and guaranteed for 3 years.

Technical specifications: 3 white LED: 1 power LED and 2 x 5mm LED.

Energy source : 3 LR03 / AAA (1,5V) alkaline batteries supplied.

Temperature of use : -25°C to +50°C.

Vertically adjustable through 180°.

Anti-reflection for glasses-wearers.

4 lighting intensities : Power, Medium, Economic and Booster.

Waterproofness : IP54 (dust and weather resistant).

Ref.	Light output	Battery life	Weight (g)
S950	70 lumens	Up to 160 h	96
Accessories:			
S134C	Set of 4 hooks for helmet fixation		



S900SAFE - S570SAFE

LED HEADLAMP (3 OR 4 LED)

Use: Professional applications.

Multi-purpose use:

- frontal (with headband)
- free-standing (with or without headband)
- clipped to a helmet with a 20 x 3 mm slot
- clipped to a belt

+ Strong resistance to shocks and protection of the glass.

Switch-on safety device.

Multi-purpose wearing: as a frontal torch on the forehead or on a helmet (with hooks), clipped onto a helmet or a pocket or a belt, placed on a flat surface...

Simple and fast battery changing.

Electronic protection of the lamps in case of polarity inversion.

Technical specifications: Vertically adjustable through 180°.

Anti-reflection conception for glasses-wearers.

Protection IP 54 : Weather resistant (rain, snow...). Resistant to dust or hydrocarbon splashes.

Energy source : 3 LR03 / AAA (1,5V). Alkaline batteries supplied.

Headlamp supplied with 4 hooks.

Product tested individually and guaranteed for 3 years.

Made in France.

Ref.	Description	Light output	Lighting surface area	Battery life	Weight (g)
S900SAFE	4 LED headlamp	36 lumens	60 m ²	Up to 160 h	91
S570SAFE	3 LED headlamp	25 lumens	40 m ²	60 h	90
Accessories:					
S134C	Set of 4 hooks for helmet fixation				

MM2640

NON DEFLAGRATING HEADLAMP

HOMOLOGATION : EX II 3 G EEX NL IIC T3X

Use: Can be fixed on a helmet or worn on the head.

Technical specifications: 1 halogen bulb and 3 LED.

Body in tough ABS resin.

90° pivoting head.

Battery : 4 AA alkaline cells (included).

Delivered with a rubber strap for helmets and an adjustable cloth strap for bare head.



Ref.	Light output	Lighting distance	Battery life	Weight w/o battery (g)
MM2640	29 lumens (high power) 9 lumens (low power)	46 m (halogen) 20 m (LED)	2 h 45 min (high power) 50 h (low power)	305

SFE2690Z0

LED HEADLAMP ATEX ZONE 0

CERTIFIED ATEX GROUP II CATEGORY 1 ZONE 0

Use: Ideal for professionals who work in chemical, pharmaceutical, power, oil and gas, and fire rescue industries.

+ Brighter, more efficient, compact and lighter than other headlamps in its class.

Easy to operate, even when wearing bulky gloves.

Technical specifications: Light source: LED.

Batteries: 3 AAA Alkaline (included).

Equipped with a rotary bezel switch.

Made of impact and chemical resistant ABS.

Water resistant for all-weather use.

Delivered with an adjustable and comfortable cloth strap, as well as a heavy duty rubber strap that will not slip off your helmet.

Marking : CE Ex approval I M1 Ex ia I Ma, II 1 G Ex ia IIC T4 Ga, Ex ia IIC T65°C Da IP65.



Ref.	Light output	Beam distance	Max. peak beam intensity	Battery life	Length (mm)	Weight (g)
SFE2690Z0	60 lumens	81 m	1 664 cd	10 h	71	120



S600N

LED PHOTOLUMINESCENT FLASHLIGHT

Use: Compact and lightweight, it is crafted from a highly durable polymer material and features a photoluminescent finish that absorbs the ambient light allowing it to glow in the dark when the light is off.

The shape of the light's body is engineered to fit perfectly in the natural grasp of gloved hands and the ridges along the handle allow for a strict non-slip grip. A security wrist lanyard is attached to avoid losing the S600N in risky situations.

+ In addition with KFS600N, you can wear this lamp on your electrician helmet.

S600N incorporates photoluminescent technology which emits a bright glow making it highly visible in pitch black environments. Its flat form provides stability and excellent grip.

Technical specifications: Light output : 234 lumens / 28 lumens (high / low)

Autonomy : 8h45 min / 190h (high / low)

Beam distance : 240 m / 81 m (high / low)

Max peak beam intensity : 14500 cd / 1649 cd (high / low)

High/Low/Flashing Modes

Batteries : 3 AA Alkaline (Included)

Compact and Lightweight

Removable Lanyard

IPX7 - Waterproof (submerged to 1 meter for 30 min).

Ref.	Description
S600N	LED photoluminescent flashlight
S600KN	LED photoluminescent flashlight with lateral fixing set
Accessories:	
KFS600N	Lateral fixing set



S515N

HALOGEN RECHARGEABLE LIGHT

Use: Suits all kinds of worksites.

+ Autonomy 8h.

Technical specifications: 3 functioning mode :

- halogen bulb
- 16 LEDs
- 4 LEDs signalling lamp

Beam distance : 200 m

Power supply : 1 x 6V 4.5A rechargeable battery

Autonomy : 8 h

Supplied with a wall charger and a car charger.

Ref.	Dimensions (mm)	Weight (kg)
S515N	250 x 110 x 135	1,42

Portable hand-held lighting

Type of network: LV  MV  HV 

SFE9410

RECHARGEABLE PORTABLE 4 LED LANTERN

Use: Designed to stand on end, the light array can be rotated 120 degrees transforming it into an area work light.

+ **Brightest and lightest in its class.**
The SFE9410 LED also features a sure-grip, all-weather handle and an extra large space to accommodate gloved hands.

Technical specifications: 4 LED lantern.

120° rotating head.

Battery type : lithium-ion (included) .

Body : injected ABS.

Battery status indicator.

Beam distance : 430 m (full power) - 287 m (low power).

3 mode switch (High, Low, Flashing).

Protection : IPX4.

Colour : yellow.

Delivered with removable shoulder strap.



Ref.	Light output	Battery life	Length (mm)	Weight (kg)
SFE9410	553 lumens (low power) / 1203 lumens (high power)	10 h30 (low power) / 4 h30 (full power)	222	1,27

Inspection lights

S920

3 LED CLIP LAMP

Use: Elle se pince, s'aimante ou se pose instantanément.

+ **Clippable on any support up to 36 mm in thickness.**
Magnetizable with any steel part.
Stand alone on any flat surface.
Strong resistance to shocks and protection of the glass.
Switch-on safety device.
Simple and fast battery changing.
Electronic protection of the lamps in case of polarity inversion.

Technical specifications: Lumens : 22.

Enlightened surface : 40 m².

Vertically adjustable through 180°.

Anti-reflection conception for glasses-wearers.

Energy source : 3 x LR03 (AAA), batteries supplied (1,5V).

Autonomy : 60 hours.

Protection : IP 54, weather resistant (rain, snow...). Resistant to dust or hydrocarbon splash.

Product tested individually and guaranteed for 3 years.

Made in France.



Ref.	Light output	Lighting surface area	Battery life	Weight w/ batteries (g)
S920	22 lumens	40 m ²	Up to 60 h	100



B11

HAND LAMP 24V

EN 60598-2-8

Technical specifications: Protective guard and transparent protective glass.

Rubber handle.

Suspension hook.

Cable : 10 metres long - H07RNF 2x1mm² - P17 plug.

Protection IP44.

Ref.	Dimensions (mm)	Weight (kg)
B11	585 x 267 x 194	4
Spare part(s):		
B14A	Spare bulb	



B16

PROFESSIONAL HAND LAMP

EN 60598-2-8

Technical specifications: Cable : 5 meters - H07RNF 2x1 mm².

Protective guard and transparent protective glass.

Anti-glare light deflector.

Rubber handle.

Suspension hook.

Protection IP44.

Ref.	Dimensions (mm)	Weight (kg)
B16	330 x 200 x 120	1.200
Spare part(s):		
S372	Spare bulb E27 250V 100W	



BALFT120

HAND LAMP - FLUORESCENT TUBE 8 W

Use: Designed to be used in an electrical environment.

Technical specifications: Economic class II, protection IP 20, domestic category.

Components :

- 1 hook,

- 1 plug,

- Cable : 5 meters - H05VVF 2 x 0,75 mm², 220 V.

Delivered with magnetic support.

Ref.	Description
BALFT120	Hand lamp - Fluorescent tube 8 W

S300LED

LED HAND LAMP

- ⊕ Can be used in hard to access area.
- No risk of burns.
- Long-lasting LED bulbs (no bulb change).
- Lights like a torchlight.
- User-friendly product.

Technical specifications: Wireless lamp with 26 white LEDs.

Lighting power : 500 lux at 60 cm.

Waterproof IP64, shockproof.

Resists against solvents and hydrocarbons.

Suspension hook, belt clip.

2 intensities (high power : autonomy 3 h / low power : 6 h).

On/Off button on handle.

Delivered in blister.



Ref.	Dimensions (mm)	Weight (g)
S300LED	330 x 163 x 90	650

ATEX Portable hand-held lighting

SFE1965Z0

LED FLASHLIGHT ATEX ZONE 0

CERTIFIED ATEX ZONE 0

Use: Used to work in hazardous locations.

Small enough to fit in your shirt pocket, yet bright enough to illuminate your work area.

- ⊕ Long lasting.
- Energy efficient.
- Bright LED.

Technical specifications: Battery : 2 AAA Alkaline (Included).

Protection : IP65, IPX7.

Marking : CE Ex II 1 GD Ex ia IIC T4 Ga Ex iaD 20 IP65 T90°C Da



Ref.	Light output	Battery life	Beam distance	Length (cm)	Weight w/ batteries (g)
SFE1965Z0	21 lumens	4 h	51 m	13,9	90



FT300

PORTABLE HALOGEN SPOTLIGHT 300W 24 V WITH CABLE HOLDER

EN 60598-2-5

Technical specifications: Anti-heating handle.

Protective guard.

Cable holder.

Head : 2 x 150W/24V.

Supplied with halogen bulbs 150W/24V.

Cable : H07RNF 2x1.5 with power plug P17/24V.

Protection : IP64 for the head.

Ref.	Cable length (m)	Dimensions (mm)	Weight (kg)
S14EC24	5	290 x 250 x 250	3
FT300	10	290 x 250 x 250	4
Spare part(s):			
S376B	Spare halogen bulb 24 V - 150 W		



S375

ORIENTABLE MAGNETIC SPOTLIGHT 12 OR 24 V

Technical specifications: Plastic spotlight rotating 180° with steel base 150 mm, with 3 magnets 55 mm width.

Delivered without bulb.

Extensible power cable up to 2 metres with cigar lighter plug.

Ref.	Dimensions (mm)	Weight (kg)
S375	290 x 170 x 170	1,4
Spare part(s):		
S396	Spare bulb 12 V - 55 W	
S397	Spare bulb 24 V - 70 W - H3	

Spotlights 250 V



S14

TELESCOPIC HALOGEN SPOTLIGHT 500 W 250 V

EN 60598-2-5

Technical specifications: Telescopic model with metallic folding feet.

Max. height : 2 m.

Head : 500W.

Protective guard.

Supplied with 400W bulb class C.

Cable : 5 meters - H07RNF 3G1 with plug.

Protection : IP54.

Ref.	Dimensions (mm)	Weight (kg)
S14	300 x 150 x 1060	6
Spare part(s):		
S371	Spare halogen bulb 250V - 400 W	

Remote Area Lighting Systems

Type of network: LV  MV  HV 

SFE9430

REMOTE AREA LIGHTING SYSTEM

ROHS (RESTRICTION OF HAZARDOUS SUBSTANCES) COMPLIANT

Use: Lighting for construction sites.

- ⊕ • Polycarbonate lens is lightweight and impact resistant
- Maintenance Free LED Array with life expectancy of 50,000 hours
- Fully extendable mast with 360 degree rotating head
- Mast Extension Lock
- Waterproof Rubber Activation Switch
- Low battery warning system

Technical specifications: Number of LED : 6.

Body and head made in polycarbonate/ABS.

Mast made in fibreglass (glass-reinforced plastic).

3 brightness settings : full power, low power and flashing.

Battery type : 12V rechargeable, sealed.

Colour : yellow.

Cord length : 35 cm



Ref.	Light output	Battery life	Max. height (m)	Dimensions (mm)	Weight (kg)
SFE9430	3000 lumens (full power) - 1500 lumens (low power)	8 h (full power) - 15 h (low power)	0,82	400 x 200 x 230	10,27

SFE9440

REMOTE AREA LIGHTING SYSTEM

ROHS (RESTRICTION OF HAZARDOUS SUBSTANCES) COMPLIANT

Use: Moves fast to light up ravines, confined spaces, riverbanks... anyplace generator lights can't go.

- ⊕ **Deployed, the mast extends 7 feet high, shining light over low obstructions encountered by traditional lantern style lights.**
- With a 120 degree beam spread and up to 2400 lumens, the entire emergency area will have the light you need for a safe and swift operation.**
- The SFE9440 is maintenance free, using super tough LED lamp modules and NiMH batteries for up to 6 hours of continuous light.**

Technical specifications: Body and head made in polycarbonate/ABS.

Mast made in aluminium.

2 brightness settings.

Battery type : NiMH, rechargeable.

Battery charging time: 8 hours.

Battery level indicator.

Colour : yellow.



Ref.	Light output	Battery life	Max. height (m)	Weight (kg)
SFE9440	1200 lumens (low power) - 2400 lumens (full power)	6 h (low power) - 3 h (full power)	2,19	7,3



SFE9435

REMOTE AREA LIGHTING SYSTEM ATEX ZONE 2

CERTIFIED ATEX ZONE II ROHS (RESTRICTION OF HAZARDOUS SUBSTANCES) COMPLIANT

Use: Portable device to light construction sites, tunnels and galleries.

Technical specifications: Intensity : 18x LEDs 1W, lumens: 1500.

Body : ABS.

Battery type : NiMH.

Battery autonomy : 5 hours (high power), 10 hours (low power)

Battery charging time : approx. 8 hours.

Colour : Orange.

Marking : Ex ic IIC T4 Gc

Ref.	Light output	Battery life	Max. height (m)	Dimensions (mm)	Weight (kg)
SFE9435	1500 lumens (full power) - 750 lumens (low power)	7 h (full power) - 40 h (low power)	0,82	400 x 200 x 230	8

Mobile emergency lighting



S4310

WORK LIGHT FOR INTERVENTION

Use: Light designed for safety operations and checking operations in technical facilities such as:

- electrical station and substation,
- boiler room,
- lift machinery.

It can be used for night rounds.

This lamp has a LED lighting in standby mode and in emergency mode.

⊕ Extra flat portable light
Light source 100% LED

Technical specifications: Articulated handle.

Switch with 2 positions : 45 lm and 100 lm.

On request: configuration in «Automatic switch on in case of power break».

Delivered with a bracket (without screw) for wall mounting and a carrying handle.

Voltage : 230 VCA ~ -10% +6% 50/60Hz

Lamp output : 1 white LED 1W

Charge monitor : 1 Green LED

Battery : 1 x 2,4V 1,5Ah

Autonomy : 1 hour (100 lumens) or 3 hours (45 lumens)

Temperature of use : 0° to +40° C

IP42.

IK10.

Ref.	Dimensions (mm)	Weight (g)
S4310	240 x 138 x 60	680

Power supply • Batteries

Type of network: LV  MV  HV 

S400

FLAT SALINE BATTERY 4,5 V

Technical specifications: Flat battery CEI 3 R12 - 4,5 volts.
Delivered by unit under blister.



Ref.	Dimensions (mm)	Weight (g)
S400	120 x 80 x 23	105

S402

ROUND ALKALINE BATTERY 1,5 V LR20

Technical specifications: Blister of 2 batteries.



Ref.	Dimensions (mm)	Weight (g)
S402	120 x 80 x 34	265

S403

ROUND ALKALINE BATTERY 1,5 V LR6

Technical specifications: Blister of 4 batteries.



Ref.	Dimensions (mm)	Weight (g)
S403	120 x 80 x 15	88

S413

RECTANGULAR ALKALINE BATTERY 9 V 6LR61

Technical specifications: Delivered by unit under blister.



Ref.	Dimensions (mm)	Weight (g)
S413	127 x 80 x 17	47

S429

ROUND ALKALINE BATTERY 1.5 V LR03

Technical specifications: Blister of 4 batteries.



Ref.	Dimensions (mm)	Weight (g)
S429	120 x 80 x 15	70



D105

REELER-UNREELER WITH SAFETY THERMAL CIRCUIT BREAKER - PROFESSIONAL RANGE

EN 61242 - A11 - 1316

Technical specifications: Cable reel, professional range, with mono-bloc spool and metallic base Ø 25 mm.

Protection : IP 44.

3 waterproof plugs with valve NF 10 - 16A.

Rotating handle.

Wide diameter spool to avoid overheating.

Cable guide.

H07RNF type HAR 3 x 2,5 mm² cable, length max. 80 m.

Thermal circuit breaker with manual reset for immediate reuse.

Max. power : 3680 W - 16A / wound : 1 300 W under 230 V.

Concerning ref. D105-D25, differential circuit breaker must be placed at 2 meters maximum from the end (differential 30 mA forbidden on the drum). The differential protection avoid to be electrocuted if an electrical leak occurs.

Ref.	Length (m)	Protection	Dimensions (mm)	Weight (kg)
D105 25	25	-	340 x 190 x 410	6
D105	40	-	340 x 190 x 410	8
D105 D25	25	Differential circuit-breaker	340 x 190 x 410	6



D31 40M

CABLE REELER 40 M

Technical specifications: Reeler for tradesman, IP 44, with monobloc spool, metallic support Ø 25 mm.

- 4 valves plugs,

- rotating rubber handle,

- thermal circuit breaker,

- cable guide,

- H07RNF 3 x 1,5 mm² cable.

- Max. power : wound = 1 000 Watts under 230 Volts.

Delivered in individual box.

Ref.	Cable length (m)	Dimensions (mm)	Weight (kg)
FT202	25	340 x 190 x 410	4
D31 40M	40	340 x 190 x 410	6



FT211

ALL-PURPOSE REELER

Technical specifications: Reeler for tradesman, IP 44, with monobloc spool, metallic support Ø 25 mm.

4 plugs 16A/250V.

Thermal circuit-breaker.

Moulded plug 16A/250V.

Cable H05VVF 3G 1.

Delivered in individual box.

Ref.	Length (m)
FT211	10

TT15

INSULATING REELER

Use: Allows, for example, to climb a ladder with the mobile plug while the reeler stays on the ground.

Technical specifications: Insulating reeler, waterproof.

Cable 10 meters H07RNF 3 x 1,5 mm².

Automatic brake.

Reeler with 1 power plug 2P + T and 2 plugs 2P + T 10/16 A.



Ref.	Dimensions (mm)	Weight (kg)
TT15	410 x 410 x 240	10

TT17

INSULATING REELER

Use: Allows, for example, to climb a ladder with the mobile plug while the reeler stays on the ground.

Technical specifications: Insulating reeler, waterproof.

Cable 40 meters H07RNF 3 x 1,5 mm².

With automatic brake.

1 rubber power plug 2P + T 10/16 A.

1 mobile plug 2P + T 10/16 A.



Ref.	Dimensions (mm)	Weight (kg)
TT17	410 x 410 x 240	10

S1044

CABLE EXTENSION

Technical specifications: Cable : 5 meters H07RNF 3G2,5

Differential circuit breaker 30 mA – 25 A.



Ref.	Description
S1044	Cable extension

S552NM

POWER ADAPTOR 4 PLUGS + PLUG-IN CIRCUIT BREAKER 30mA

Use: Professional and domestic use in moist environment.

 The plug-in circuit breaker 30 mA provides protection of people and goods by short-circuiting if a leakage current is detected.

Technical specifications: Supplied with a test button.

Plug-in circuit breaker 30mA.

4 valve plugs 16A/230V.

Max. power at 230V : 3500W.



Ref.	Cable	Cable length (m)
S552NM	H07RN-F 3G1,5	2



TB210

POWER SUPPLY BLOCK

EN 60439-4

Technical specifications: Rubber box.

Composition :

- H07RNF cable - 3G2,5 length 2 m,
- 4 valve plugs 2P + T 16 A, 250 volts,
- differential switch 30 mA on 25A,
- protection: IP44.

Ref.	Dimensions (mm)	Weight (kg)
TB21	500 x 140 x 122	2.800

Generating sets



AY

GENERATING SET

Technical specifications: Voltage : 220 V / 50 Hz.

Ref.	Rolling trolley	Max. power	Consumption	Tank	Dimensions (mm)	Weight (kg)
AY-3100KT	Without	3,1 kVA / 2280 W	1,1 L/H (75%)	3,6 L	650 x 480 x 425	47
AY-3800KT	With	3,8 kVA / 3000 W	1,3 L/H (75%)	3,6 L	650 x 630 x 540	50
AY-5000KT	With	5,0 kVA / 4100 W	1,8 L/H (75%)	6 L	770 x 746 x 625	75

NEW RANGE

ST-80

PERSONAL PROTECTIVE EQUIPMENT BAG 100L

Use:

High resistance semi-rigid fabric bag designed to store and transport PPE such as shoes, helmet, gloves, garments, glasses, documents etc.

The bag protects the PPE against dirt, moist and UV.

⊕ High resistance semi-rigid fabric bag
Capacity : 80 L

Technical specifications:

Exterior :

- Back side : 2 large pockets with zip fasteners,
- Right side : shoe pocket with label holder and zip fastener to store shoes or laundry,
- Underneath : elevated and protected by 6 plastic pads,
- On top : wide opening with 2 nylon zip fasteners integrating 2 fastening straps,
- Carrying : with strap handle or with adjustable and removable shoulder strap.

Interior :

- 1 pocket along the entire length.



Ref.	Capacity	Dimensions (mm)	Weight (kg)
ST-80	80 L	750 x 350 x 330	2

NEW RANGE

STT-80

PERSONAL PROTECTIVE EQUIPMENT TROLLEY BAG 80L

Use:

High resistance semi-rigid fabric bag designed to store and transport PPE such as shoes, helmet, gloves, garments, glasses, documents etc.

The bag protects the PPE against dirt, moist and UV.

⊕ Integrated trolley system
Capacity : 80 L

Technical specifications:

Exterior :

- Back side : 2 large pockets with zip fasteners,
- Right side : shoe pocket with label holder and zip fastener to store shoes or laundry,
- Underneath : elevated and protected by 2 plastic pads,
- On top : wide opening with 2 nylon zip fasteners integrating 2 fastening straps,
- Carrying : with strap handle or with adjustable and removable shoulder strap

- Trolley includes telescopic handle and wheels

Interior :

- 1 pocket along the entire length,
- Reinforced bottom



Ref.	Capacity	Dimensions (mm)	Weight (kg)
STT-80	80 L	750 x 360 x 330	3,7



NEW RANGE

ST-100

PERSONAL PROTECTIVE EQUIPMENT BAG 100L

Use:

High resistance semi-rigid fabric bag designed to store and transport PPE such as shoes, helmet, gloves, garments, glasses, documents etc.

The bag protects the PPE against dirt, moist and UV.

+ High resistance semi-rigid fabric bag
Large capacity : 100 L

Technical specifications:

Exterior :

- Front side : 1 large pocket along the entire length with zip fastener,
- Back side : 2 pockets 39 x 23 cm with zip fasteners,
- Right side : shoe pocket with label holder and zip fastener to store shoes or laundry,
- Left side : 1 patch pocket,
- Underneath : elevated and protected by 2 plastic pads,
- On top : wide opening with 2 nylon zip fasteners integrating 2 fastening straps,
- Carrying : with strap handle or with adjustable and removable shoulder strap,

Interior :

- 2 net pockets,
- Reinforced bottom with liner.

Option on request :

Removable interior separation with Velcro fasteners



Ref.	Capacity	Dimensions (mm)	Weight (kg)
ST-100	100 L	800 x 420 x 330	2,6

NEW RANGE

STT-100

PERSONAL PROTECTIVE EQUIPMENT TROLLEY BAG 100L

Use:

High resistance semi-rigid fabric bag designed to store and transport PPE such as shoes, helmet, gloves, garments, glasses, documents etc.

The bag protects the PPE against dirt, moist and UV.

+ Integrated trolley system
Large capacity : 100 L

Technical specifications:

Exterior :

- Front side : 1 large pocket along the entire length with zip fastener,
- Back side : 2 pockets 39 x 23 cm with zip fasteners,
- Right side : shoe pocket with label holder and zip fastener to store shoes or laundry,
- Underneath : elevated and protected by 2 plastic pads,
- On top : wide opening with 2 nylon zip fasteners integrating 2 fastening straps,
- Carrying : with strap handle or with adjustable and removable shoulder strap,
- Trolley includes telescopic handle and wheels.

Interior :

- 2 net pockets,
- Reinforced bottom with liner.

Option on request :

Removable interior separation with Velcro fasteners



Ref.	Capacity	Dimensions (mm)	Weight (kg)
STT-100	100 L	860 x 420 x 330	4,2

S509NM

PERSONAL PROTECTIVE EQUIPMENT BAG

Use: Designed to transport Personal Protective Equipment.

+ Side pocket to store shoes to avoid soiling the rest of the equipment.

Technical specifications: Polyamide canvas bag equipped with:

- 1 big internal pocket with lateral zip fastener (on right side)
- 1 big internal pocket with lateral zip fastener (on left side)
- 1 side pocket especially for shoes
- 3 ventral pockets with zip fastener
- 2 carry handles made in textile strap
- 1 large textile shoulder strap

Delivered empty.

Customisation available with your logo and/or desired text on request.



Ref.	Dimensions (mm)	Weight (kg)
S509NM	700 x 380 x 300	1,1

S510

PERSONAL PROTECTIVE EQUIPMENT BAG

Use: Designed to transport Personal Protective Equipment.

+ Side pocket to store shoes to avoid soiling the rest of the equipment.
High capacity.
Water resistant.

Technical specifications: Main material : high resistance semi-rigid canvas, water resistant.

Exterior :

- Front side : 1 flat pocket with 2 compartments 33x26 cm with zip fastener,
- Left side : label holder, pocket 22x22cm with zip fastener to store shoes or working boots,
- Underneath : protected by 6 plastic feet
- On top : wide opening of 18 cm along the entire length with 2 zip fasteners,
- Carrying : with 2 strap handles or with removable and adjustable shoulder strap

Interior :

- 1 flat pocket along the entire length
- Reinforced bottom

Delivered empty.

Customisation available with your logo and/or desired text on request.



Ref.	Dimensions (mm)	Weight (kg)
S510	700 x 310 x 320	1,9



ART160

TOOL-BOX WITH REMOVABLE TRAY

Technical specifications: Polypropylene tool box, 1 removable tray and 2 compartments in the lid.

Delivered empty.



Ref.	External dimensions (mm)	Dimensions w/o tray (mm)	Dimensions under tray (mm)	Weight (kg)
ART160	406 x 252 x 244	395 x 225 x 220	370 x 205 x 145	1.540



ART163 - ART165

TOOLBOX WITH REMOVABLE TRAY

Technical specifications: Polypropylene tool box, 1 removable tray and 2 compartments in the lid.

Delivered empty.



Ref.	External dimensions (mm)	Dimensions w/o tray (mm)	Dimensions under tray (mm)	Weight (kg)
ART163	394 x 215 x 195	380 x 180 x 190	370 x 165 x 180	1.080
ART165	514 x 280 x 260	505 x 260 x 260	485 x 230 x 115	2.200



B102P - V64V

POLYPROPYLENE TOOL BOX

Use: Plastic box with removable trays.

Technical specifications: Material: polypropylene.

Equipped with :

- Continuous handle with lid fastening function
- 2 fasteners
- 1 movable shelf with cover for small pieces
- 1 movable tray for tools
- 1 padlock locking device

Additional feature of model V64V : 2 riveted straps on the back to hold insulating mat and/or insulating sheets (not included).

Delivered empty.

Ref.	Dimensions (mm)	Weight (kg)
B102P	457 x 257 x 255	2,20
V64V	457 x 257 x 255	2,20

ART162

PLASTIC TOOLBOX


Technical specifications: Delivered empty.



Ref.	Dimensions (mm)	Weight (kg)
ART162	515 x 287 x 275	2,70

C259NM

POLYPROPYLENE TOOL CHEST

-  - With rollers and retractable handle
- 2 removable compartments for small parts
- Oil and chemical resistant

Technical specifications: Equipped with:

- 2 removable trays
- 2 removable shelves for small pieces
- 2 fasteners
- 2 side handles
- 1 padlock locking device

Delivered empty.



Ref.	Dimensions (mm)	Weight (kg)
C259NM	635 x 450 x 420	7,55

ART17048H

MAINTENANCE CASE

Use: High capacity and lightweight, designed to be used on-site.

Technical specifications: Equipped with:

- a document holder.
- inside fitting for tools and accessories.
- 2 tool-holders with straps.
- a padlock locking device.

Delivered empty.



Ref.	Dimensions (mm)	Weight (kg)
ART17048H	482 x 375 x 184	3,71



B96M

CANTILEVER TOOL BOX 5-TRAY

Technical specifications: Made of sheet metal, equipped with:

- 5 compartments.
- Double handle
- Padlock locking device

Delivered empty.

Ref.	Dimensions (mm)	Weight (kg)
B96M	440 x 210 x 210	4.350



B100S

CANTILEVER TOOL BOX 5-TRAY

Technical specifications: Made of sheet metal, equipped with :

- 5 compartments
- Double handle
- Padlock locking device

Delivered empty.

Ref.	Dimensions (mm)	Weight (kg)
B100S	530 x 200 x 315	8.300



S505

POLYPROPYLENE TOOL BOX

Use: Case for small pieces.

Technical specifications: Material: polypropylene.

Equipped with:

- Integral large handle.
- 5 to 26 compartments, customized separation.
- 2 fasteners, transparent and stackable lid.

Delivered empty.

Ref.	Dimensions (mm)	Weight (kg)
S505	460 x 330 x 80	1



B104GM

PLASTIC SCREW BOX

Use: Especially designed for electrician bags.

Technical specifications: 5 compartments with cover, equipped with 2 sliding fasteners.

Delivered empty.

Ref.	Dimensions (mm)	Weight (g)
B104GM	400 x 65 x 60	280

New!

STPI-CT

LEATHER TROLLEY BAG FOR SMALL INTERVENTIONS

Use:

Extremely robust leather bag to store, protect and transport hand tools such as screwdrivers, pliers, keys, etc.

- ⊕ **Extremely robust leather structure with many pockets and fixations for hand tools.**
- Reinforced sides and bottom allow the bag to naturally stand in vertical position and to withstand deformation.**
- The trolley base with integrated wheels improves the wear resistance of the bag.**

Technical specifications:

Interior :

- a storage area on the front flap with a fixed tray and 6 elasticated pockets,
- a Velcro strap under the front flap to store gloves
- a storage area on the back side with a fixed tray, 6 elasticated pockets and 3 pockets

Exterior :

- A side flap pocket (8 x 21 x 4 cm) with Velcro fastener
- 2 flap pockets on the other side (8 x 11 x 3,5 cm) with Velcro fasteners
- An open pocket on the front side with label holder and 5 elasticated pockets
- Fastening of the bag : flap closure with automatic plastic buckles
- Retro-reflective stripes on the front flap
- Carrying : with ergonomic handle or with adjustable and removable shoulder strap
- Trolley : telescopic handle and integrated wheels



Ref.	Dimensions (mm)	Weight (kg)
STPI-CT	330 x 220 x 420	3,4

TS33N

TOOL BAG IN BLACK SPLIT LEATHER

Use: Designed to store small tools for live working.

Technical specifications: The bag is fitted with a handle, a utility pocket, a separation with elastic strap to maintain tools and a flap forming a tray with elastic strap.

Delivered empty.



Ref.	Dimensions (mm)	Weight (kg)
TS33N	420 x 300 x 160	2,40

TS28V

ELECTRICIAN LEATHER BAG

Use: Designed to store small tools for live working.

Technical specifications: 2 carrying devices : with handle or with reinforced comfortable shoulder strap.

Front opening, removable tray.

Delivered empty.



Ref.	Dimensions (mm)	Weight (kg)
TS28V	450 x 160 x 370	4,30



TS27V - TS27TV

«SMALL INTERVENTION» LEATHER OR CANVAS WORKER BAG

Technical specifications: 2 carrying systems: with handle or with adjustable and foldable shoulder strap.

2 flaps closures, 2 turn button fasteners.

Internal compartment with storage spaces for tools.

2 available materials:

- a model made in reinforced PVC-coated polyamide material
- a model made in split leather

Ref.	Description	Dimensions (mm)	Weight (kg)
TS27V	Split leather bag	420 x 270 x 120	2,52
TS27TV	Reinforced PVC-coated polyamide bag	420 x 270 x 120	1,07



S15MM

SPLIT LEATHER TOOL BAG WITH SHOULDER STRAP

Technical specifications: Bag and shoulder strap made in split leather.

Reinforced bottom and sides.

3 protections underneath the bag.

Delivered empty.

Ref.	Dimensions (mm)	Weight (kg)
S15MM	450 x 180 x 160	1,25



S15PM

PLUMBER LEATHER BAG WITH CARRYING HANDLE

Technical specifications: Riveted bag with carrying handle.

2 fastening straps.

Delivered empty.

Ref.	Dimensions (mm)	Weight (g)
S15PM	350 x 120 x 120	550



S11

LEATHER BAG

Use: Bag designed to store 2 meter readers, 1 flashlight, a pen, an eraser.

Technical specifications: Leather bag equipped with:

- a leather shoulder strap
- a clip closure
- a label holder

Delivered empty.

Ref.	Dimensions (mm)	Weight (g)
S11	300 x 120 x 150 mm	900

S10

ELECTRICIAN LEATHER TOOL BAG

Technical specifications: Leather bag with sewed assembly, shoulder strap and front pocket. Closure made by 2 fastening straps.

Delivered empty.



Ref.	Dimensions (mm)	Weight (kg)
S10	370 x 260 x 105	1,35

S32

CANVAS BAG

Technical specifications: Canvas bag equipped with :

- a central pocket,
- a pocket with elastic strap to maintain tools,
- 3 zip fasteners,
- a shoulder strap,
- reinforced bottom.



Ref.	Dimensions (mm)	Weight (g)
S32	440 x 330 x 160 mm	630

S20T

REINFORCED PVC-COATED CANVAS TOOL BAG

Technical specifications: Made in reinforced PVC-coated canvas equipped with :

- 2 pockets, one with a flap and a push-button closure
- 2 carrying devices : with 2 loops for belt wearing or with 2 snap hooks for carrying on safety harness.

Made in France.

Delivered empty.



Ref.	Dimensions (mm)	Weight (g)
S20TPM	250 x 230 x 100	300
S20TGM	300 x 245 x 150	350

S21

POLYAMIDE CANVAS TOOL BAG

Use: Ideal for carrying insulating caps and small accessories, and also for hearing protectors and protection masks.

Technical specifications: Made in reinforced PVC-coated canvas, equipped with :

- 2 pockets with Velcro fasteners,
- adjustable and removable shoulder strap
- 3 carrying devices: with shoulder strap, with 2 loops for belt wearing or with 2 snap hooks for carrying on safety harness.

Delivered empty.



Ref.	Dimensions (mm)	Weight (g)
S21	210 x 210 x 80	150



STH-VRP

SOFT LEATHER TOOL BAG FOR WORKING AT HEIGHT

Use: Soft leather tool bag for working at height, it can be worn on the harness or at the belt.

⊕ **Leather bag with double stitching and lateral stiffeners**
Can be worn on the harness or at the belt

Technical specifications: Interior :

- A large open compartment with lateral stiffeners,
- An eyelet in the bottom for water evacuation
- Two metal snap hooks

Exterior :

- An open pocket on the front

Ref.	Dimensions (mm)	Weight (g)
STH-VRP	240 x 330 x 100	630



S20

LEATHER TOOL BAG

Use: Convenient for working at height.

Technical specifications: Leather bag equipped with:

- 2 pockets, one with a flap
- 2 carrying devices : with 2 loops for belt wearing or with 2 snap hooks for carrying on safety harness.

Delivered empty.

Ref.	Dimensions (mm)	Weight (g)
S20PM	270 x 260 x 130	900
S20GM	300 x 245 x 150	1060

Tool pouches and accessories



S31

HOLDALL SOFT CASE

Technical specifications: Made in canvas, equipped with:

- internal protective foam,
- 2 front pockets, one with elastic strap to maintain small tools,
- 1 back pocket,
- 3 zip fasteners,
- a belt strap.

Delivered empty.

Ref.	Dimensions (mm)	Weight (g)
S31	300 x 160 x 100	280



S33PM - S33GM

CANVAS SOFT CASE

Use: Ideal for electronics and telecom small equipment.

Technical specifications: Canvas soft case with zip fastener, hand strap, transparent label holder.

Delivered empty.

Ref.	Description	Dimensions (mm)	Weight (g)
S33PM	Canvas soft case small size	200 x 60 x 40	150
S33GM	Canvas soft case big size	260 x 60 x 60	170

Bags • Tool pouches and accessories

Type of network: LV  MV  HV 

T104

ROLL-UP SOFT CASE

Technical specifications: Roll-up soft case with strap fastener, model with 15 toll spaces.

Delivered empty.



Ref.	Dimensions (mm)	Weight (g)
T104	660 x 330 x 8	270

T108V

PVC SOFT CASE

Technical specifications: PVC soft case with zip fastener.

Delivered empty.



Ref.	Dimensions (mm)	Weight (g)
T108V	230 x 150 x 70	45

CIT

TACTICAL BINDER

Use: Semi-rigid binder designed to protect and transport documents and provides a writing support.

Technical specifications: Interior :

- Right side : a pocket and a metal clamp to hold document, a pen holder
- Left side : a pocket with strap to hold a notepad

Exterior :

- A metal spring clamp
- A leather strap with Velcro fastener to close the binder



Ref.	Dimensions (mm)
CIT	330 x 260 x 10

Accessory holder

CPA-6D

LEATHER BELT, ACCESSORY HOLDER

Technical specifications: • Full grain leather backpack for optimal support of the waist.

- Main retaining straps made in leather
- Reinforced seams with copper rivets to improve resistance
- Belt adjustment and fastening by pin roller buckle
- 4 metal accessory holders
- 4 leather tool holders

Metal buckles in zinc plated steel.



Ref.	Weight (kg)
CPA-6D	1,2



SAD-25

BACKPACK FOR PPE AND TOOLS 25L

Use: Designed to store, protect and transport PPE and tools.

- ⊕ **Large storage capacity : 25 L**
- Possibility to store a pair of gloves and an insulating mat in the side pockets.**
- Helmet holder**
- Reinforced bottom and sides allowing the bag to naturally stand vertically and improve its wear resistance.**

Technical specifications: Interior :

- 2 tool trays, one is fixed the front flap allowing an easy access to the tools,
- 1 utility pocket with zip fastener.

Exterior :

- 2 large side flap pockets with Velcro fasteners to store a pair of insulating gloves and an insulating mat,
- 1 elasticated helmet holder on the front side,
- 1 label holder on top.

Ref.	Description	Dimensions (mm)
SAD-25	Backpack for PPE and tools 25L	460 x 230 x 410 mm



SADPI-CT

LEATHER AND TEXTILE BACKPACK

Use: Extremely robust leather and textile bag to store, protect and transport hand tools such as screwdrivers, pliers, keys, etc

- ⊕ **Extremely robust leather structure with many pockets and fixations for hand tools.**
- Reinforced sides and bottom allow the bag to naturally stand in vertical position and to withstand deformation.**

Technical specifications: Interior :

- a storage area on the front flap with a fixed tray and 6 elasticated pockets,
- a Velcro strap under the front flap to store gloves
- a storage area on the back side with a fixed tray, 6 elasticated pockets and 3 pockets

Exterior :

- A side flap pocket (8 x 21 x 4 cm) with Velcro fastener
- 2 flap pockets on the other side (8 x 11 x 3,5 cm) with Velcro fasteners
- An open pocket on the front side with label holder and 5 elasticated pockets
- A pocket with Velcro fastener (24 x 27 x 5 cm) on the back
- Fastening of the bag : flap closure with automatic plastic buckles
- Retro-reflective stripes on the front flap
- Carrying : with ergonomic handle, with adjustable and removable shoulder strap or with adjustable and removable cushioned backpack straps

Ref.	Description	Dimensions (mm)	Weight (kg)
SADPI-CT	Leather and textile backpack	330 x 320 x 220	2,20

Bags • Tool trays and buckets

Type of network: LV  MV  HV 

TS26

BUCKET FOR WORKING AT HEIGHT

Use: Carrying of small hand tools.

Technical specifications: Twisted yarn rope and thimble loop for suspension.

Polyamide canvas bag, evacuation hole at the bottom.

The higher part is reinforced.



Ref.	Diameter (cm)	Height (cm)	Weight (g)
TS26	26	37	600

STH-14 - STH-25

STORAGE BAG FOR WORKING AT HEIGHT

Technical specifications: Bag made in high resistance PVC coated canvas, diameter 28 cm, double stitching.

Equipped with a sewn static rope Ø 12 mm integrating a swivelling double trigger snap hook.

Reinforced and protected bottom with an eyelet for water evacuation.



Ref.	Capacity	Height (mm)	Weight (kg)
STH-14	14 L	230	0,8
STH-25	25 L	420	1

TB02

HIGH RESISTANCE TOOL TRAY

Use: Ideal for aerial work platforms, the tray has a notch to be hold on the platform railing.

Technical specifications: Reinforced polyester and fibreglass tool tray.



Ref.	Dimensions	Weight (kg)
TB02	565 x 265 x 390 mm	6



PDT-17

CANVAS BRIEFCASE 17L

Use: Briefcase made in strong fabric with semi-rigid inner structure designed to protect and transport documents.

Technical specifications: Interior :

- A rigid separation with pen holder
- Semi-rigid inner structure reinforces bottom and sides

Exterior :

- An ergonomic handle
- A removable and adjustable shoulder strap

Ref.	Dimensions (mm)
PDT-17	450 x 340 x 130



TS28H

HOLDALL BAG

Use: Very appreciated model for carrying rope, climbing equipment or temporary insulation.

Technical specifications: Polyamide canvas, lace lock.

Ref.	Base diameter (cm)	Height (cm)	Weight (g)
TS28H	31	70	670



TS75

HIGH RESISTANCE COATED CANVAS BAG

Technical specifications: High resistance coated canvas backpack,

Diameter : 30 cm

Height : 60 cm

Strengthened bottom.

Carrying handles.

Ref.	Dimensions (mm)	Weight (g)
TS75	Ø 300 x 600	800

Bags

Type of network: LV  MV  HV 

HTSMALT

HIGH RESISTANCE BAG FOR EARTHING CABLE

Use: 3 functions : carrying, protecting and making visible.

Technical specifications: Main material : high resistance PVC

Interior : fixing straps with bulk fasteners, storage pocket for the cable,

Exterior : fixing straps with bulk fasteners, closing made with Velcro fasteners and push-buttons, carrying handle.

Colour : yellow.



Ref.	Dimensions (mm)
HTSMALT	880 x 580

Cases

C272

SOFT PLASTIC CASE

Technical specifications: Case with 2 snap fasteners, for storing helmet with face shield, tools, PPE or any other product.

Blue colour.



Ref.	Internal dimensions (mm)	External dimensions (mm)	Weight (kg)
C272	493 x 275 x 196	512 x 308 x 212	1,8

C274

SOFT PLASTIC CASE

Technical specifications: Case with 2 snap fasteners, for storing hand tools, marking signs, asbestos kits, etc.

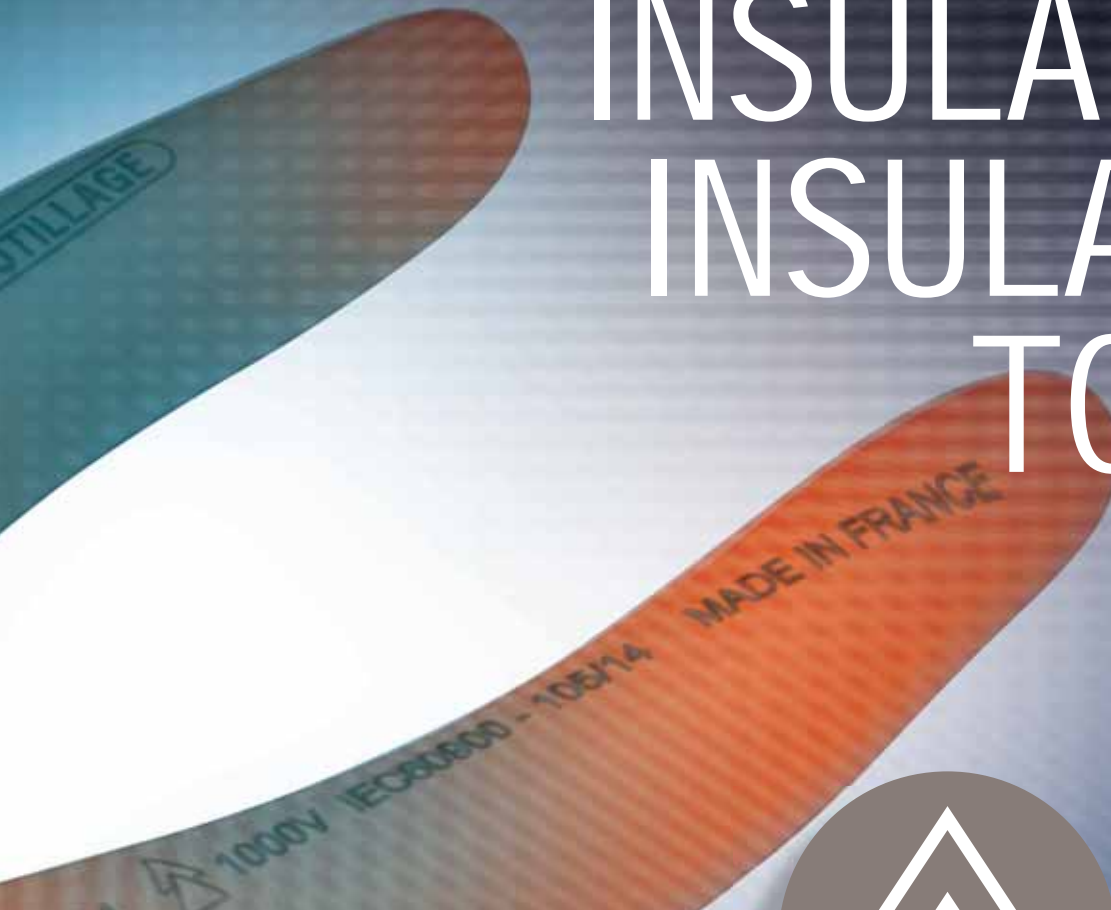
Delivered empty



Ref.	Dimensions (mm)	Weight (kg)
C274	375 x 308 x 75	0,7
C274B	435 x 308 x 90	1
C274GM	510 x 360 x 120	1,5



INSULATING INSULATED TOOLS



INSULATING INSULATED TOOLS

Screwdrivers	146
Pliers	155
Spanners and wrenches	164
Ratchet spanners, sockets and accessories	176
Ratchet torque wrenches	198
Knives, hacksaws and scissors	201
Cable cutters	204
Separators for insulated connectors	213
Electronics hand tools	215
Tools for electricians	220

rotoline RANGE

NEW RANGE OF ROTATING BALL INSULATED SCREWDRIVERS

After an in-depth study to find the best compromise between comfort and efficiency, SIBILLE OUTILLAGE has developed its newest innovation, **the ROTOLINE range**.

The screwdrivers of the Rotoline range have a perfectly rounded handle end, making them perfect in terms of grasp and user comfort. That round end allows the user to turn the screwdriver in the palm of his hand very easily during heavy-duty work, particularly with electrician's gloves.

The ROTOLINE range is available with three handle ends :

- **ROTOLINE CLASSIC** : this is the classic version of the screwdriver, with a perfectly round handle end that makes it very comfortable in use.
- **ROTOLINE TURN** : the round handle end rotates, making initial tightening and loosening much easier. The handle ball sits snugly in the palm, and the user can rotate the body of the screwdriver with their fingers.
- **ROTOLINE TURN & BLOCK** : the end of the handle rotates, and can also be locked by just applying pressure to it. The rotating function helps in initial tightening, while the lock is used for final tightening.

ROTOLINE Classic

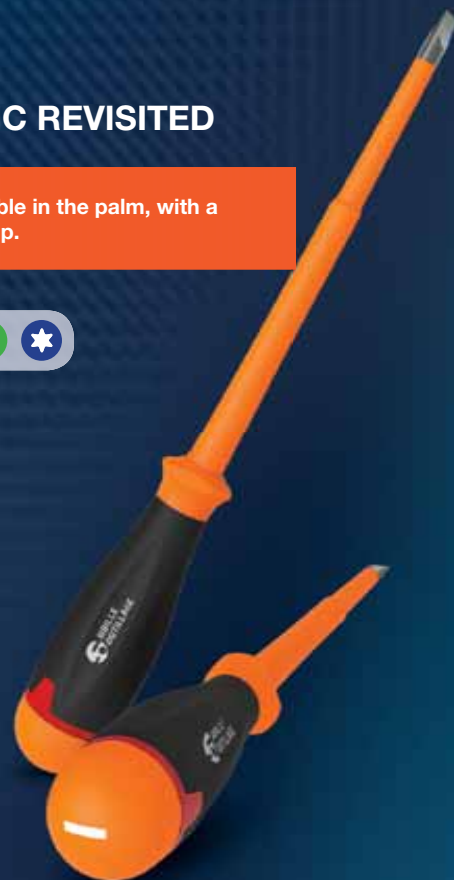
A CLASSIC REVISITED



> Comfortable in the palm, with a secure grip.



CLASSIC

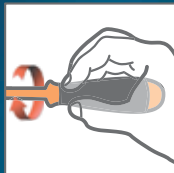
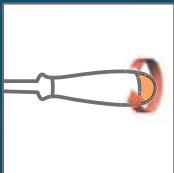


ROTOLINE Turn

AT LAST,
THE SCREWDRIVER THAT
HELPS YOU SAVE TIME



> The rotating ball end will help in approach tightening.



Initial tightening position

The rotating ball of the handle is held in the palm and the fingers control the rotation of the screwdriver.

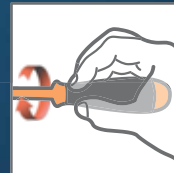
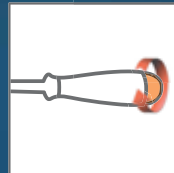
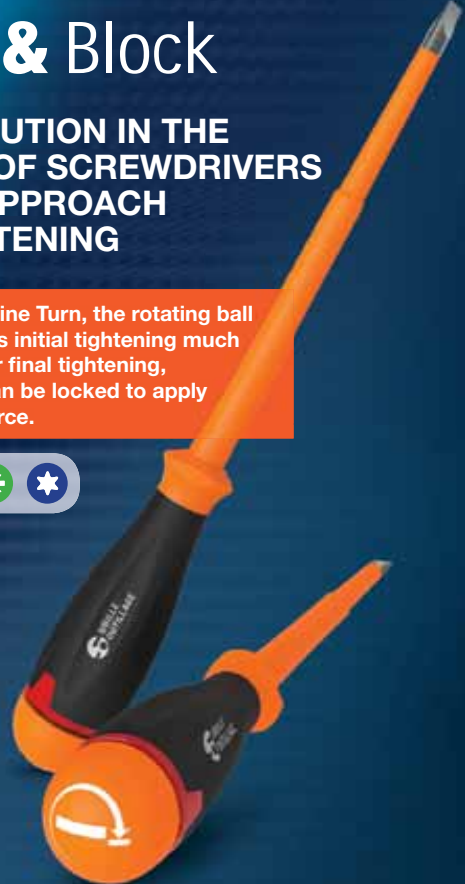
NB : Functional diagram of the screwdriver.
According to regulations, wearing insulating gloves is mandatory.

ROTOLINE Turn & Block

A REVOLUTION IN THE
WORLD OF SCREWDRIVERS
A NEW APPROACH
TO TIGHTENING

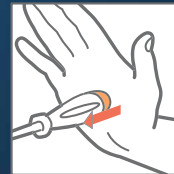


> Like Rotoline Turn, the rotating ball end makes initial tightening much easier. For final tightening, the ball can be locked to apply greater force.

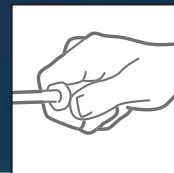


Initial tightening position

The rotating ball of the handle is held in the palm and the fingers control the rotation of the screwdriver.



During final tightening, the palm naturally presses the rotating ball and blocks it.



Final tightening

Traditional grip for force tightening.

NB : Functional diagram of the screwdriver.
According to regulations, wearing insulating gloves is mandatory.

rotoline RANGE

Type of blade	Dimensions (shank Ø x shank length)	ROTOLINE CLASSIC item numbers		ROTOLINE TURN item numbers	
SLOT- HEAD	2 x 70		RL1-PL-2X70*		RL2-PL-2X70*
	3 x 100		RL1-PL-3X100*		RL2-PL-3X100*
	4 x 120		RL1-PL-4X120		RL2-PL-4X120
	5,5 x 100		RL1-PL-55X100		RL2-PL-55X100
	5,5 x 150		RL1-PL-55X150		RL2-PL-55X150
	6,5 x 150		RL1-PL-65X150		RL2-PL-65X150
	8 x 150		RL1-PL-8X150		RL2-PL-8X150
	8 x 200		RL1-PL-8X200		RL2-PL-8X200
	10 x 150		RL1-PL-10X150		RL2-PL-10X150
	10 x 250		RL1-PL-10X250		RL2-PL-10X250
	12 x 200		RL1-PL-12X200		RL2-PL-12X200
PHILLIPS	n°0 - 4 x 75		RL1-PH-4X75		RL2-PH-4X75
	n°0 - 4 x 150		RL1-PH-4X150		RL2-PH-4X150
	n°1 - 5 x 100		RL1-PH-5X100		RL2-PH-5X100
	n°2 - 6 x 125		RL1-PH-6X125		RL2-PH-6X125
	n°3 - 8 x 150		RL1-PH-8X150		RL2-PH-8X150
	n°4 - 10 x 200		RL1-PH-10X200		RL2-PH-10X200
POZIDRIV	n°0 - 4 x 75		RL1-PZ-4X75		RL2-PZ-4X75
	n°0 - 4 x 150		RL1-PZ-4X150		RL2-PZ-4X150
	n°1 - 5 x 100		RL1-PZ-5X100		RL2-PZ-5X100
	n°2 - 6 x 125		RL1-PZ-6X125		RL2-PZ-6X125
	n°3 - 8 x 150		RL1-PZ-8X150		RL2-PZ-8X150
	n°4 - 10 x 200		RL1-PZ-10X200		RL2-PZ-10X200
TORX®	T10		RL1-TX-T10*		RL2-TX-T10*
	T20		RL1-TX-T20		RL2-TX-T20
	T27		RL1-TX-T27		RL2-TX-T27
	T30		RL1-TX-T30		RL2-TX-T30
	T45		RL1-TX-T45		RL2-TX-T45

* : These models do not use «smart diameter» technology

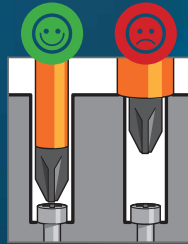


Blade


High strength tempered and burnished steel for more precision.


«Smart Diameter» blade


The blades are turned to offer no excess thickness of the insulating material at the top of the blade in order to reach screws set in narrow recesses.




ROTOLINE TURN & BLOCK item numbers

	-
	-
	-
	-
	-
	-
	RL3-PL-8X150
	RL3-PL-8X200
	RL3-PL-10X150
	RL3-PL-10X250
	RL3-PL-12X200

	-
	-
	-
	-
	-
	RL3-PH-8X150
	RL3-PH-10X200

	-
	-
	-
	-
	-
	RL3-PZ-8X150
	RL3-PZ-10X200

	-
	-
	-
	-
	-
	RL3-TX-T45

Handle

Ergonomic handle with high-quality soft coating for comfort and grip. The handle is designed for powerful and comfortable tightening. Four different handle dimensions are available, depending on the blade diameter. Markings are applied showing standard information and product number.

Round end

The round end is absolutely smooth and shaped to suit the hollow of the palm for quick and precise rotation. The round end of the handle is marked with the symbol of the blade type, and the pictogram associated with the type of Rotoline model : Classic, Turn or Turn & Block

Insulated blade

The insulating sleeve is integral with the handle, injected directly around the blade. 1000V insulation in accordance with electrical standard IEC 60900:2012 and mechanical standards ISO2380-1 and ISO8764-1. VDE certified.



Identification ring

Each screwdriver has a coloured ring on the handle. The ring colour corresponds to the type of screwdriver blade, allowing a quick identification.





IS18

INSULATED SLOTTED SCREWDRIVER WITH SMART DIAMETER BLADE

EN 60900 / IEC 60900 / ISO 2380-1

⊕ No extra insulation thickness on head of tool.



Ref.	Blade Ø (mm)	Blade length (mm)	Weight (g)
IS18 02X70	2	70	16
IS18 03X100	3	100	30
IS18 04X120	4	120	52
IS18 05,5X100	5,5	100	50
IS18 05,5X150	5,5	150	72
IS18 06,5X150	6,5	150	85
IS18 08X150	8	150	92
IS18 08X200	8	200	142
IS18 10X150	10	150	166
IS18 10X250	10	250	282
IS18 12X200	12	200	318



IS18B

INSULATED SLOTTED STUBBY SCREWDRIVER

EN 60900 / IEC 60900 / ISO 2380-1

Ref.	Blade Ø (mm)	Blade length (mm)	Weight (g)
IS18B 06,5X40	6,5	40	36



MS37LL

INSULATED OFFSET SLOTTED SCREWDRIVER SINGLE BLADE LENGTHWISE

EN 60900 / IEC 60900 / ISO 2380-1

Ref.	Blade Ø (mm)	Blade length (mm)	Weight (g)
MS37LL 6X100	6	100	45
MS37LL 8X130	8	130	70
MS37LL 10X150	10	150	90



MS37LT

INSULATED OFFSET SLOTTED SCREWDRIVER SINGLE BLADE CROSSWISE

EN 60900 / IEC 60900 / ISO 2380-1

Ref.	Blade Ø (mm)	Blade length (mm)	Weight (g)
MS37LT 6X100	6	100	45
MS37LT 8X130	8	130	70
MS37LT 10X150	10	150	90

Screwdrivers • Phillips screwdrivers

Type of network: LV  MV  HV 

IC18

INSULATED PHILLIPS SCREWDRIVER WITH SMART DIAMETER BLADE

EN 60900 / IEC 60900 / ISO 8764-1

 No extra insulation thickness on head of tool.



Ref.	N°	Blade Ø (mm)	Blade length (mm)	Weight (g)
IC18 04X75	0	4	75	50
IC18 04X150	0	4	150	55
IC18 05X100	1	5	100	60
IC18 06X125	2	6	125	82
IC18 08X150	3	8	150	146
IC18 10X200	4	10	200	256

Pozidriv screwdrivers

IP18

INSULATED POZIDRIV SCREWDRIVER WITH SMART DIAMETER BLADE

EN 60900 / IEC 60900 / ISO 8764-1

 No extra insulation thickness on head of tool.



Ref.	N°	Blade Ø (mm)	Blade length (mm)	Weight (g)
IP18 04X75	0	4	75	50
IP18 04X150	0	4	150	55
IP18 05X100	1	5	100	60
IP18 06X125	2	6	125	82
IP18 08X150	3	8	150	146
IP18 10X200	4	10	200	256

IP18B

INSULATED POZIDRIV STUBBY SCREWDRIVERS

EN 60900 / IEC 60900 / ISO 8764-1



Ref.	N°	Blade Ø (mm)	Blade length (mm)	Weight (g)
IP18B 05X40	1	5	40	34
IP18B 06X40	2	6	40	34



C6RL1

SET OF 6 INSULATED SCREWDRIVERS ROTOLINE CLASSIC

EN 60900/ IEC 60900

Technical specifications: For slotted screws :

RL1-PL-3X100

RL1-PL-4X120

RL1-PL-65X150

RL1-PL-8X150

For Phillips screws :

RL1-PH-5X100

RL1-PH-6X125

Ref.	Description
C6RL1	Set of 6 insulated screwdrivers Rotoline Classic



C6RL2

SET OF 6 INSULATED SCREWDRIVERS ROTOLINE TURN

EN 60900/ IEC 60900

Technical specifications: For slotted screws :

RL2-PL-3X100

RL2-PL-4X120

RL2-PL-65X150

RL2-PL-8X150

For Phillips screws :

RL2-PH-5X100

RL2-PH-6X125

Ref.	Description
C6RL2	Set of 6 insulated screwdrivers Rotoline Turn



T6RL1

SET OF 6 INSULATED SCREWDRIVERS ROTOLINE CLASSIC WITH SOFT CASE

Technical specifications: For slotted screws :

RL1-PL-3x100

RL1-PL-4x120

RL1-PL-65x150

RL1-PL-8x150

For phillips screws :

RL1-PH-5x100

RL1-PH-6x125

Soft case with zip fastener, belt loop and transport hook

Ref.	Description
T6RL1	Set of 6 insulated screwdrivers Rotoline Classic with soft case

Other compositions available on request.

Screwdrivers • Sets

Type of network: LV  MV  HV 

T6RL2

SET OF 6 INSULATED SCREWDRIVERS ROTOLINE TURN WITH SOFT CASE

EN 60900 / IEC 60900

Technical specifications: For slotted screws :

RL2-PL-3x100

RL2-PL-4x120

RL2-PL-65x150

RL2-PL-8x150

For Phillips screws :

RL2-PH-5x100

RL2-PH-6x125

Soft case with zip fastener, belt loop and transport hook.



Ref.	Description
T6RL2	Set of 6 insulated screwdrivers Rotoline Turn with soft case

Other compositions available on request.

C6STISC18

SET OF 6 INSULATED SCREWDRIVERS

EN 60900 / IEC 60900

Technical specifications: For slotted screws :

IS18 03X100

IS18 04X120

IS18 05,5X150

IS18 08X150

For Phillips screws :

IC18 05X100

IC18 06X125



Ref.	Description
C6STISC18	Set of 6 insulated screwdrivers

For specific screws

IBPH N1 - IBPH N2

FLAT/PHILLIPS SCREWDRIVER FOR TERMINAL BLOCKS

EN 60900 / IEC 60900

Use: For the new type of fuse boxes, connecting boxes, circuit breakers, terminal blocks that are often conceived with double mark screw.

 Increase longevity of the screw heads.



Ref.	Blade Ø (mm)	Blade length (mm)
IBPH N1	5 mm	80
IBPH N2	6 mm	100



IBPZ N1 - IPBZ N2

FLAT/POZIDRIV SCREWDRIVER FOR TERMINAL BLOCKS

EN 60900 / IEC 60900

Use: For the new type of fuse boxes, connecting boxes, circuit breakers, terminal blocks that are often conceived with double mark screw.

⊕ Increase longevity of the screw heads.



Ref.	Blade Ø (mm)	Blade length (mm)
IBPZ N1	5 mm	80
IPBZ N2	6 mm	100

Torque limiting screwdriver

New!



HTLC4

4 NM - 2,95 LBF.FT - 35,4 LBF.IN TORQUE LIMITING SCREWDRIVER

EN 60900 / IEC 60900 / EN ISO 6789

Use:

For controlled tightening to 4 Nm - 2,95 lbf.ft - 35,4 lbf.in of electrical meter or circuit breaker terminal blocks

When 4 Nm torque is reached, the torque device trips to allow optimum tightening, and tightening above 4 Nm is impossible.

Also suitable for loosening.

⊕ • Smart diameter blade : the blades are turned to offer no extra thickness of the insulating material at the top of the blade in order for each screws set in narrow recesses.

- Interchangeable bits
- Textured finish for a firm grip

Technical specifications:

- Fixed torque, pre-set in the factory to 4 Nm - 2,95 lbf.ft - 35,4 lbf.in
- Delivered with a calibration certificate
- Each tool is marked with a serial number for traceability

The screwdriver is supplied with a set of 3 removable bar turned bits :

- Short, insulated bit for 4 mm hex key screws
- Long, insulated bit for 4 mm hex key screws
- Long, insulated bit for 6,5 mm slotted head screws

Delivered in a soft case.



Ref.	Description
HTLC4	4 Nm - 2,95 lbf.ft - 35,4 lbf.in torque limiting screwdriver with 3 blades and soft case
Contents:	
IS18AI-6.5	Long, insulated bit for 6,5 mm slotted head screws
IS64AI-4	Short, insulated bit for 4 mm hex key screws
IS64ALI-4	Long, insulated bit for 4 mm hex key screws
TLC4	4 Nm - 2,95 lbf.ft - 35,4 lbf.in torque limiting screwdriver without bit

Our selection!

MC4CE

INSULATING COMPOSITE UNIVERSAL PLIERS WITH CERAMIC BLADES

EN 60900 / IEC 60900

Use:

These pliers, fully insulating, are specifically adapted for any low voltage operation in confined places where short circuit hazard could have heavy consequences for both staff and appliance.

+ The ergonomics of the pliers improves the use with insulated gloves without risk of deterioration.

Technical specifications:

Contains absolutely no metallic parts, the blades are made of ceramic.
Lightweight: approximately 2/3 the weight of traditional universal pliers.
Totally non-corroding due to its composite material.



Ref.	Cutting capacity	Length (mm)	Length (in)	Weight (g)
MC4CE	16 mm ² multi-core copper	200	8	170

Overall length tolerance : ± 5 mm of the nominal value.

MS4

INSULATED UNIVERSAL PLIERS

EN 60900 / IEC 60900 / ISO 5743 / ISO 5744 / ISO 5746

+ Reinforcements on extremities to protect against shocks.

Technical specifications: Induction hardened jaws and cutting parts.
Cutting capacity : medium-hard steel wire 160 kg/mm² : Ø 1,6 mm



Ref.	Length (mm)	Length (in)	Length tolerance (mm)	Weight (g)
MS4 145	145	5,5	± 8	190
MS4 165	165	6,5	± 10	255
MS4 185	185	7	± 10	320
MS4 210	210	8	± 10	390
MS4 220	220	9	± 10	450
MS4 250	250	10	± 15	450

Our selection!

MS4E

FULLY INSULATED UNIVERSAL PLIERS

EN 60900 / IEC 60900 / ISO 5743 / ISO 5744 / ISO 5746

Use:

Limits the risk of short-circuiting.



Ref.	Cutting capacity	Length (mm)	Length (in)	Weight (g)
MS4E 185	Medium-hard steel wire 160 kg/mm ² : Ø 1,6 mm	185	7	330

Overall length tolerance : ± 5 mm of the nominal value.

Our selection!



MC13CE

INSULATING HALF-ROUND BENT NOSE PLIERS WITH CERAMIC BLADES

EN 60900 / IEC 60900

Use:

These pliers, fully insulating, are specifically adapted for any low voltage operation in confined places where short circuit hazard could have heavy consequences for both staff and appliance.

⊕ **The ergonomics of the pliers improves the use with insulated gloves without risk of deterioration.**

Technical specifications:

Contains absolutely no metallic parts, the blades are made of ceramic.

Lightweight : approximately 2/3 the weight of traditional universal pliers.

Totally non-corroding due to its composite material.

Ref.	Cutting capacity	Length (mm)	Length (in)	Weight (g)
MC13CE	16 mm ² multi-core copper	210	8	110

Overall length tolerance : ± 5 mm of the nominal value.



MS13

INSULATED HALF-ROUND BENT 45° NOSE PLIERS

EN 60900 / IEC 60900 / ISO 5743 / ISO 5744 / ISO 5745

Technical specifications: Induction hardened jaws.

Ribbed tips insure firm clamping.

Ref.	Cutting capacity	Length (mm)	Length (in)	Weight (g)
MS13 165	Medium hard steel wire 160 kg/mm ² : Ø 1,6 mm	165	6,5	180
MS13 185	Medium hard steel wire 160 kg/mm ² : Ø 1,6 mm	185	7	190
MS13 205	Medium hard steel wire 160 kg/mm ² : Ø 1,6 mm	205	8	200

Overall length tolerance : ± 10 mm of the nominal value.



MS13E 170

INSULATED HALF-ROUND BENT 45° NOSE PLIERS

EN 60900 / IEC 60900 / ISO 5743 / ISO 5744 / ISO 5745

Use: Limits the risks of short-circuiting.

Technical specifications: Induction hardened jaws.

Ribbed tips insure firm clamping.

Ref.	Cutting capacity	Length (mm)	Length (in)	Weight (g)
MS13E 170	Medium-hard steel wire 160 kg/mm ² : Ø 1,6 mm	170	7	190

Overall length tolerance : ± 10 mm of the nominal value.



MS10

INSULATED HALF-ROUND STRAIGHT LONG NOSE PLIERS

EN 60900 / IEC 60900 / ISO 5743 / ISO 5744 / ISO 5745

Technical specifications: Induction hardened jaws.

Ribbed tips insure firm clamping.

Ref.	Cutting capacity	Length (mm)	Length (in)	Weight (g)
MS10 170	Medium-hard steel wire 160 kg/mm ² : Ø 1,6 mm	170	7	175
MS10 205	Medium-hard steel wire 160 kg/mm ² : Ø 1,6 mm	205	8	240

Overall length tolerance : ± 10 mm of the nominal value.

Pliers • Round nose pliers

Type of network: LV  MV  HV 

MS10E

FULLY INSULATED HALF-ROUND STRAIGHT LONG NOSE PLIERS

EN 60900 / IEC 60900 / ISO 5743 / ISO 5744 / ISO 5745

Use: Pour limiter les risques de court-circuit.

Technical specifications: Induction hardened jaws.
Ribbed tips insure firm clamping.



Ref.	Cutting capacity	Length (mm)	Length (in)	Weight (g)
MS10E 170	Medium-hard steel wire 160 kg/mm ² : Ø 1,6 mm	170	7	185
MS10E 205	Medium-hard steel wire 160 kg/mm ² : Ø 1,6 mm	205	8	250

Overall length tolerance : ± 10 mm of the nominal value.

MS15

INSULATED FULL ROUND STRAIGHT NOSE PLIERS

EN 60900 / IEC 60900 / ISO 5743 / ISO 5744 / ISO 5745

Use: For holding, moving or bending aluminium or copper wire near small parts such as washers, wire or strip type fuses, etc

The risk of damaging the cable is minimised.



Ref.	Length (mm)	Length (in)	Weight (g)
MS15 170	170	7	170

Overall length tolerance : ± 10 mm of the nominal value.

New !

MCPTI


INSULATING PLIERS FOR ELECTRICAL PANEL BUILDER

EN 60900 / IEC 60900

Use:

Pliers designed for the prehension of connectors (installing and removing).

Thin nose to allow optimal passage between connectors.

-  **The nose has a « socket » shape profile to provide a good prehension on the connector's body.**
- The inside of the nose has two 45° inclined grooves to easily allow the passing/releasing of the cable without bending it.**
- Composite product providing lightness and comfort in use.**

Technical specifications:

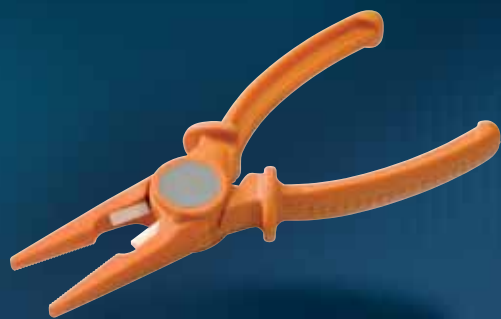
Insulating tool : no metallic part for maximum safety.

Cutting capacity : multi-core copper 16 mm²



Ref.	Length (mm)	Length (in)	Weight (g)
MCPTI	195	7,5	100

Overall length tolerance : ± 5 mm of the nominal value.



Our selection!

MC11CE

INSULATING COMPOSITE FLAT NOSE PLIERS WITH CERAMIC BLADES

EN 60900 / IEC 60900

Use:

These pliers, fully insulating, are specifically adapted for any low voltage operation in confined places where short circuit hazard could have heavy consequences for both staff and appliance.

+ The ergonomics of the pliers improves the use with insulated gloves without risk of deterioration.

Technical specifications:

Contains absolutely no metallic parts, the blades are made of ceramic.

Lightweight : approximately 2/3 the weight of traditional universal pliers.

Totally non-corroding due to its composite material.

Ref.	Cutting capacity	Length (mm)	Length (in)	Weight (g)
MC11CE	16 mm ² multi-core copper	190	8	110

Overall length tolerance : ± 5 mm of the nominal value. Overall length tolerance : ± 5 mm of the nominal value.



MS11

INSULATED FLAT NOSE PLIERS

EN 60900 / CIEC 60900 / ISO 5743 / ISO 5744 / ISO 5745

Technical specifications: Ribbed tips to ensure firm clamping.

Ref.	Type	Length (mm)	Length (in)	Length tolerance (mm)	Nose length (mm)	Weight (g)
MS11 150BC	Short flat nose	150	5,5	± 7	32	175
MS11 170BC	Short flat nose	170	7	± 8	40	180
MS11 170BL	Long flat nose	170	7	± 8	50	185
MS11 205	Long flat nose	205	8	± 10	77	270



New!

MS11E

FULLY INSULATED FLAT NOSE PLIERS

EN 60900 / IEC 60900 / ISO 5743 / ISO 5744 / ISO 5745

Use:

Limits the risk of short-circuiting.

Technical specifications:

Ribbed tips to ensure firm clamping.

Ref.	Type	Length (mm)	Length (in)	Nose length (mm)	Weight (g)
MS11E	Long flat nose	170	7	48	195

Overall length tolerance : ± 8 mm of the nominal value. Overall length tolerance : ± 8 mm of the nominal value.

Pliers • Flat nose pliers

Type of network: LV  MV  HV 

MC70

INSULATING NOTCHE PLIERS

EN 60900 / IEC 60900

Use: For holding, moving or bending aluminium or copper wire near small parts such as washers, wire or strip type fuses, etc.

 **Lightweight, insulating and rigid.**



Ref.	Dimensions (mm)	Length (in)	Weight (g)
MC70	191 x 53 x 28	7,5	100

Overall length tolerance : ± 5 mm of the nominal value.

Cutting pliers

MS24

INSULATED OFFSET-HEAD DIAGONAL CUTTING PLIERS

EN 60900 / IEC 60900



Ref.	Cutting capacity	Length (mm)	Length (in)	Weight (g)
MS24 165	Steel wire 80 kg/mm ² : Ø 0,9 mm	165	6,5	230

Overall length tolerance : ± 10 mm of the nominal value.

MS5S

INSULATED FLUSH CUTTING PLIERS

EN 60900 / IEC 60900



Ref.	Cutting capacity	Length (mm)	Length (in)	Weight (g)
MS5S	Strip on telereport armoured cable	130	5	100

Overall length tolerance : ± 5 mm of the nominal value.

MS60

INSULATED DIAGONAL CUTTING PLIERS

EN 60900 / IEC 60900 / ISO 5743 / ISO 5744 / ISO 5749

Technical specifications: Clean and precise cut of thin copper wires.

Thin head to be used in confined areas.



Ref.	Cutting capacity	Length (mm)	Length (in)	Length tolerance (mm)	Weight (g)
MS60 145	Medium-hard steel wire 160 kg/mm ² : Ø 1,6 mm	145	5,5	± 7	200
MS60 165	Medium-hard steel wire 160 kg/mm ² : Ø 1,6 mm	165	6,5	± 8	260
MS60 185	Medium-hard steel wire 160 kg/mm ² : Ø 1,6 mm	185	7	± 10	350



New!

MS60E

FULLY INSULATED DIAGONAL CUTTING PLIERS

EN 60900 / CEI 60900 / ISO 5743 / ISO 5744 / ISO 5749

Use:

Limits the risks of short-circuiting.

Ref.	Cutting capacity	Length (mm)	Length (in)	Weight (g)
MS60E 170	Medium-hard steel wire 160 kg/mm ² : Ø 1,6 mm	170	7	260

Overall length tolerance : ± 10 mm of the nominal value. Overall length tolerance : ± 10 mm of the nominal value.



MS5

INSULATED DIAGONAL CUTTING PLIERS

EN 60900 / IEC 60900 / ISO 5743 / ISO 5744 / ISO 5749

Technical specifications: Induction hardened jaws.
High cutting performance.

Ref.	Cutting capacity	Length (mm)	Length (in)	Length tolerance (mm)	Weight (g)
MS5 150	Medium-hard steel wire 160 kg/mm ² : Ø 1,4 mm	150	5,5	± 8	220
MS5 175	Medium-hard steel wire 160 kg/mm ² : Ø 1,6 mm	175	7,5	± 10	280
MS5 190	Medium-hard steel wire 160 kg/mm ² : Ø 1,8 mm	190	7,5	± 10	370



MS6

INSULATED END CABLE CUTTER

EN 60900 / IEC 60900 / ISO 5743 / ISO 5744 / ISO 5748

Technical specifications: Induction hardened jaws.
Surfaced head.
High cutting performance and reduced effort.

Ref.	Cutting capacity	Length (mm)	Length (in)	Length tolerance (mm)	Weight (g)
MS6 135	Hard steel wire 200 kg/mm ² : Ø 1,4 mm	135	5	± 8	210
MS6 170	Hard steel wire 200 kg/mm ² : Ø 1,6 mm	170	7	± 10	290
MS6 210	Hard steel wire 200 kg/mm ² : Ø 2 mm	210	8	± 10	410



MS31

INSULATED END CABLE CUTTER WITH WIDE HEAD

EN 60900 / IEC 60900 / ISO 5748

Ref.	Cutting capacity	Length (mm)	Weight (g)
MS31 165	Medium-hard steel wire 160 kg/mm ² : Ø 1,6 mm	165	270
MS31 185	Medium-hard steel wire 160 kg/mm ² : Ø 1,6 mm	185	350

Overall length tolerance : ± 10 mm of the nominal value.

Pliers • Adjustable pliers

Type of network: LV  MV  HV 

MS26

INSULATED SLIP-JOINT ADJUSTABLE PLIERS

EN 60900 / IEC 60900 / ISO 5744 / ISO 8976

Technical specifications: Opening of the adjustable jaw.



Ref.	Max opening //	Length (mm)	Length (in)	Weight (g)
MS26 165	16 mm	165	6,5	190
MS26 250	28 mm	250	10	410

Overall length tolerance : ± 15 mm of the nominal value.

MS8

INSULATED SLIP-JOINT ADJUSTABLE PLIERS

EN 60900 / IEC 60900 / ISO 8976 / ISO 5744

Technical specifications: 6 adjustment positions slip-joint.
Jaws grip parallel in all positions up to the maximum jaw opening.



Ref.	Max opening //	Length (mm)	Length (in)	Length tolerance (mm)	Weight (g)
MS8 205	37 mm	205	8	± 15	230
MS8 250	45 mm	250	10	± 15	400
MS8 310	55 mm	310	12	± 20	670

MS27

INSULATED DOUBLE SLIP-JOINT ADJUSTABLE PLIERS

EN 60900 / IEC 60900 / ISO 8976 / ISO 5744

Technical specifications: Double toothed slip joint : 5 adjustment positions.
Box joint : great stability thanks to the double guide.



Ref.	Max opening //	Length (mm)	Length (in)	Weight (g)
MS27R 250	28 mm	250	10	440
MS27 250	28 mm	250	10	440

MS32

INSULATED GIANT SLIP-JOINT ADJUSTABLE PLIERS

EN 60900 / IEC 60900 / ISO 5744 / ISO 8976

Technical specifications: 11 adjustment positions slip-joint.



Ref.	Max opening //	Length (mm)	Length tolerance (mm)	Weight (g)
MS32	105 mm	410	± 30	1010

Overall length tolerance : ± 30 mm of the nominal value.



MS80

INSULATED CONNECTOR PLIERS

EN 60900 / IEC 60900

Use: Used in the phone field for multipair wires.

Ref.	Length (mm)	Length (in)	Weight (g)
MS80	150	6	150

Overall length tolerance : ± 7 mm of the nominal value.

Fuse extractor pliers



MS53

INSULATED FUSE EXTRACTOR PLIERS

EN 60900 / IEC 60900

Use: Designed for removing low voltage porcelain or moulded fuses.

Ref.	Opening	Fuse colour	Length (mm)	Length (in)	Weight (g)
MS53 B34	34-52 mm	White	205	8	340
MS53 J46	46-61 mm	Yellow	210	8,5	370
MS53 N70	70-92 mm	Black	220	8,5	390

Overall length tolerance : ± 10 mm of the nominal value.

Stripping pliers



MS43

INSULATED STRIPPING PLIERS

EN 60900 / IEC 60900

Technical specifications: An adjusting screw and nut allow to block the pliers on the desired diameter.

Return spring.

Ref.	Stripping capacity	Length (mm)	Length (in)	Weight (g)
MS43 175	from 0,5 to 10 mm ²	175	7	230

Overall length tolerance : ± 10 mm of the nominal value.



MS43E

FULLY INSULATED STRIPPING PLIERS

EN 60900 / IEC 60900

Use: Limits the risks of short-circuiting.

Technical specifications: An adjusting screw and nut allow to block the pliers on the desired diameter.

Return spring.

Ref.	Stripping capacity	Length (mm)	Length (in)	Weight (g)
MS43E	from 0,5 to 10 mm ²	175	7	260

Overall length tolerance : ± 10 mm of the nominal value.

Pliers • Cable cutting pliers

Type of network: LV  MV  HV 

MS30

INSULATED CUTTING PLIERS Ø 14 MM

EN 60900 / IEC 60900

Technical specifications: Pliers with a locking lever to increase safety.



Ref.	Opening	Length (mm)	Steel	Almelec	Aluminium	Copper	Weight (g)
MS30	14 mm	230	NO	NO	Ø 14 mm	Ø 14 mm	490

Overall length tolerance : ± 5 mm of the nominal value.

MS45

INSULATED CUTTING PLIERS

EN 60900 / IEC 60900

Technical specifications: Pliers with a locking lever to increase safety.



Ref.	Opening	Length (mm)	Steel	Almelec	Aluminium	Copper	Weight (g)
MS45 195	20 mm	195	NO	NO	Ø 14 mm	Ø 14 mm	430
MS45 230	24 mm	230	NO	NO	Ø 20 mm	Ø 20 mm	500

Overall length tolerance : ± 5 mm of the nominal value.

Our selection!

MS30S

INSULATED CUTTING PLIERS FOR REMOTE ENERGY METER

EN 60900 / IEC 60900

+ Double edged-tool provides an ergonomic grip in all positions
Clean cut without crushing.



Ref.	Opening	Length (mm)	Steel	Almelec	Aluminium	Copper	Weight (g)
MS30S 165	12 mm	165	NO	NO	35 mm ²	16 mm ²	200
MS30S 200	16 mm	205	NO	NO	35 mm ²	16 mm ²	340
MS30S 250	18 mm	250	NO	NO	35 mm ²	16 mm ²	430

Overall length tolerance : ± 5 mm of the nominal value.



Our selection!



MC45I

INSULATING COMPOSITE CUTTING PLIERS Ø 22 MM

EN 60900 / IEC 60900

Use:

These pliers, highly insulated, are specifically adapted for any low voltage operation in confined places where short circuit hazard could have heavy consequences for both staff and appliance.

⊕ **Specific blades with better cutting capacity than the standard version.**
The ergonomics of the pliers improves the use with insulated gloves without risk of deterioration.

Ref.	Opening	Length (mm)	Length (in)	Steel	Almelec	Aluminium	Copper
MC45I	22 mm	190	7,5	NO	NO	35 mm ²	16 mm ²

Overall length tolerance : ± 5 mm of the nominal value. Overall length tolerance : ± 5 mm of the nominal value.



MC45IR

REINFORCED INSULATING COMPOSITE CUTTING PLIERS

EN 60900 / IEC 60900

Use: These pliers, highly insulated, are specifically adapted for any low voltage operation in confined places where short circuit hazard could have heavy consequences for both staff and appliance.

⊕ **Specific blades with better cutting capacity than the standard version.**
The ergonomics of the pliers improves the use with insulated gloves without risk of deterioration.

Ref.	Opening	Length (mm)	Length (in)	Steel	Almelec	Weight (g)
MC45IR	22 mm	190	7,5	NO	54,6 mm ²	165

Overall length tolerance : ± 5 mm of the nominal value.

Spanners and wrenches • Keys for electrical cabinets



MS36T

INSULATED TRIANGLE SPANNER 11 MM WITH HANDLE

EN 60900 / IEC 60900

Use: To be used on triangular socket screws of connection cases.

Technical specifications: Blades in treated steel.

Insulated body, except for the tip to ease the penetration into screw holes.

Burnished tip.



Ref.	Length (mm)	Blade length (mm)	Weight (g)
MS36T	300	180	180

Overall length tolerance : ± 5 mm of the nominal value.



TC75

TRIANGULAR INSULATING SPANNER 11 MM

Use: Male triangular head screwing and unscrewing.

Technical specifications: Made in insulating material.

Ref.	Length (mm)	Weight (g)
TC75	89	17

MS7

INSULATED ADJUSTABLE SPANNER

EN 60900 / IEC 60900 / ISO 1711-1 / ISO 6787

Use: Specially designed for electricians.

Technical specifications: Millimetre graduation on front of the head to preset the tool.
Non-visible rack.



Ref.	Max. jaw opening	Length (mm)	Length (in)	Length tolerance	Weight (g)
MS7 115	13 mm	115	4	± 15%	80
MS7 160	19 mm	160	6	± 15%	170
MS7 210	24 mm	210	8	± 15%	300
MS7 260	28 mm	260	10	± 15%	510
MS7 310	34 mm	310	12	± 30%	830
MS7 385	43 mm	385	15	± 30%	1500

MS7S

FULLY INSULATED ADJUSTABLE SPANNER

EN 60900 / IEC 60900 / ISO 6787

Use: To reduced the risk of short-circuiting.

Technical specifications: Fully insulated adjustable spanner with insulated moving jaw.
Jaw opening/closure made by an insulated thumbwheel.



Ref.	Max. jaw opening	Length (mm)	Length (in)	Length tolerance	Weight (g)
MS7S 210	24 mm	210	8	± 15%	360
MS7S 260	28 mm	260	10	± 15%	600
MS7S 310	34 mm	310	12	± 30%	1050

MS7SC

FULLY INSULATED ADJUSTABLE SPANNER

EN 60900 / IEC 60900 / ISO 6787

Use: To reduce the risk of short-circuiting.

Technical specifications: The jaw is moving inside the fixed insulated head.
Jaw opening/closure made by an insulated thumbwheel.
Easy setting with insulated gloves.



Ref.	Max. jaw opening	Length (mm)	Length (in)	Length tolerance	Weight (g)
MS7SC 215	24 mm	215	8	± 15%	370
MS7SC 265	28 mm	265	10	± 15%	615
MS7SC 315	34 mm	315	12	± 30%	1120



MS16

INSULATED SINGLE OPEN ENDED SPANNER

EN 60900 / IEC 60900 / ISO 691 / ISO 1711-1 / ISO 3318 / ISO 10102

Technical specifications: Thinnest head currently existing on the market.



Ref.	Opening	Weight (g)	Ref.	Opening	Weight (g)
MS16 05	5 mm	15	MS16 28	28 mm	300
MS16 05,5	5,5 mm	15	MS16 29	29 mm	360
MS16 06	6 mm	25	MS16 30	30 mm	365
MS16 07	7 mm	20	MS16 31	31 mm	370
MS16 08	8 mm	20	MS16 32	32 mm	380
MS16 09	9 mm	40	MS16 33	33 mm	410
MS16 10	10 mm	40	MS16 34	34 mm	420
MS16 11	11 mm	40	MS16 35	35 mm	450
MS16 12	12 mm	40	MS16 36	36 mm	580
MS16 13	13 mm	50	MS16 3/16	3/16"	20
MS16 14	14 mm	70	MS16 1/4	1/4"	30
MS16 15	15 mm	80	MS16 9/32	9/32"	30
MS16 16	16 mm	100	MS16 5/16	5/16"	30
MS16 17	17 mm	100	MS16 3/8	3/8"	40
MS16 18	18 mm	135	MS16 7/16	7/16"	45
MS16 19	19 mm	140	MS16 1/2	1/2"	55
MS16 20	20 mm	160	MS16 9/16	9/16"	75
MS16 21	21 mm	170	MS16 5/8	5/8"	100
MS16 22	22 mm	190	MS16 11/16	11/16"	120
MS16 23	23 mm	200	MS16 3/4	3/4"	130
MS16 24	24 mm	220	MS16 13/16	13/16"	180
MS16 25	25 mm	260	MS16 7/8	7/8"	190
MS16 26	26 mm	270	MS16 15/16	15/16"	220
MS16 27	27 mm	290			

Other dimensions available on request. Overall length tolerance : ± 5 mm of the nominal value.



MS35

SET OF 8 SINGLE OPEN ENDED SPANNERS FOR CALIBRATION

EN 60900 / IEC 60900 / ISO 691 / ISO 1711-1 / ISO 3318 / ISO 10102

Technical specifications: Contents : 8 single open ended spanners MS16 of 5, 6, 7, 8, 9, 10, 11, 12 mm

Ref.	Dimensions (mm)	Weight (g)
MS35	140 x 135 x 20	345

Spanners and wrenches • Cranked ring spanners

Type of network: LV  MV  HV 

MS21

INSULATED SINGLE HEAD CRANKED RING SPANNER (12 SIDED)

EN 60900 / IEC 60900 / ISO 691 / ISO 1711-1 / ISO 3318 / ISO 10104



Ref.	Diameter	Weight (g)	Ref.	Diameter	Weight (g)
MS21 06	6 mm	50	MS21 29	29 mm	550
MS21 07	7 mm	60	MS21 30	30 mm	530
MS21 08	8 mm	60	MS21 32	32 mm	630
MS21 09	9 mm	80	MS21 01/4"	1/4"	50
MS21 10	10 mm	80	MS21 05/16"	5/16"	75
MS21 11	11 mm	95	MS21 03/8"	3/8"	85
MS21 12	12 mm	100	MS21 07/16"	7/16"	95
MS21 13	13 mm	110	MS21 01/2"	1/2"	125
MS21 14	14 mm	130	MS21 09/16"	9/16"	165
MS21 15	15 mm	170	MS21 19/32"	19/32"	175
MS21 16	16 mm	190	MS21 05/8"	5/8"	190
MS21 17	17 mm	200	MS21 11/16"	11/16"	215
MS21 18	18 mm	230	MS21 3/4"	3/4"	250
MS21 19	19 mm	240	MS21 13/16"	13/16"	325
MS21 20	20 mm	300	MS21 07/8"	7/8"	340
MS21 21	21 mm	320	MS21 15/16"	15/16"	390
MS21 22	22 mm	320	MS21 1"	1"	450
MS21 23	23 mm	370	MS21 1.1/16"	1.1/16"	490
MS21 24	24 mm	400	MS21 1.1/8"	1.1/8"	530
MS21 25	25 mm	450	MS21 1.3/16"	1.3/16"	580
MS21 26	26 mm	460	MS21 1.1/4"	1.1/4"	585
MS21 27	27 mm	490	MS21 1.5/16"	1.5/16"	600
MS21 28	28 mm	510			

Other dimensions available on request. Overall length tolerance : ± 5 mm of the nominal value.

TC76N

INSULATED 4-SIZE RING SPANNER 13 X 14 X 16 X 17 MM

Use: For tightening forks or fuses.

Technical specifications: 1 tool for 4 dimensions.
No electrical continuity between the 2 heads.



Ref.	Diameter	Length (mm)	Weight (g)
TC76N	13 x 14 x 16 x 17 mm	220	111

Overall length tolerance : ± 5 mm of the nominal value.



MS19

INSULATED T-HANDLED BOX SPANNER

EN 60900 / IEC 60900

Use: Allows the passing of a rod on its entire length, tightening of hardly accessible nuts

Ref.	Diameter	Length (mm)	Length (in)	Weight (g)
MS19 10HT305	6 sided 10 mm	305	12	350
MS19 11HT305	6 sided 11 mm	305	12	360
MS19 12HT305	6 sided 12 mm	305	12	370
MS19 13HT305	6 sided 13 mm	305	12	400
MS19 14HT305	6 sided 14 mm	305	12	450
MS19 16HT305	6 sided 16 mm	305	12	560
MS19 17HT305	6 sided 17 mm	305	12	650
MS19 18HT305	6 sided 18 mm	305	12	930
MS19 19HT305	6 sided 19 mm	305	12	750
MS19 21HT305	6 sided 21 mm	305	12	800
MS19 22HT305	6 sided 22 mm	305	12	850
MS19 23HT305	6 sided 23 mm	305	12	900
MS19 24HT305	6 sided 24 mm	305	12	940
MS19 13HT405	6 sided 13 mm	405	16	650
MS19 14HT405	6 sided 14 mm	405	16	800
MS19 15HT405	6 sided 15 mm	405	16	830
MS19 17HT405	6 sided 17 mm	405	16	900
MS19 19HT405	6 sided 19 mm	405	16	1000
MS19 21HT405	6 sided 21 mm	405	16	1200
MS19 18HT700	12 sided 18 mm	700	27	1900
MS19 19HT700	12 sided 19 mm	700	27	1900
MS19 21HT700	12 sided 21 mm	700	27	1900
MS19 22HT700	12 sided 22 mm	700	27	1900

Overall length tolerance : ± 5 mm of the nominal value.



MS19S

INSULATED T-HANDLED 12-SIDED BOX SPANNER

EN 60900 / IEC 60900

Use: To reach nuts in difficult access while retaining a high resistance and good tightening torque.

Ref.	Diameter	Length (mm)	Length (in)	Weight (g)
MS19S 01/4	1/4"	305	12	410
MS19S 05/16"	5/16"	305	12	445
MS19S 03/8"	3/8"	305	12	450
MS19S 07/16"	7/16"	305	12	460
MS19S 05/16"H4	5/16"	405	16	500
MS19S 03/8"H4	3/8"	405	16	550
MS19S 07/16"H4	7/16"	405	16	600
MS19S 01/2"H4	1/2"	405	16	650

Other dimensions available on request. Overall length tolerance : ± 5 mm of the nominal value.

Spanners and wrenches • T-handled socket spanners

Type of network: LV  MV  HV 

MS34

INSULATED T-HANDLED HEXAGONAL BOX SPANNER

EN 60900 / IEC 60900

Use: Small size key for working nuts in difficult access.

Rapid tightening of nuts in difficult access.



Ref.	Diameter	Length (mm)	Length (in)	Weight (g)
MS34 06	6 mm	135	5	90
MS34 08	8 mm	135	5	110
MS34 10	10 mm	135	5	180
MS34 11	11 mm	135	5	170
MS34 12	12 mm	135	5	190
MS34 13	13 mm	135	5	220
MS34 14	14 mm	135	5	240
MS34 15	15 mm	135	5	245
MS34 16	16 mm	135	5	260
MS34 17	17 mm	135	5	265
MS34 18	18 mm	135	5	300
MS34 19	19 mm	135	5	330
MS34 20	20 mm	135	5	350
MS34 21	21 mm	135	5	370

Overall length tolerance : ± 5 mm of the nominal value.

Socket spanners

MS20 6P

INSULATED SOCKET SPANNER - 6 SIDED

EN 60900 / IEC 60900



Ref.	Diameter (mm)	Weight (g)	Ref.	Diameter (mm)	Weight (g)
MS20 6P 05	5	20	MS20 6P 10	10	90
MS20 6P 06	6	30	MS20 6P 13	13	160
MS20 6P 07	7	35	MS20 6P 14	14	170
MS20 6P 08	8	50	MS20 6P 17	17	280
MS20 6P 09	9	60	MS20 6P 19	19	370

Overall length tolerance : ± 5 mm of the nominal value.

MS20

INSULATED SOCKET SPANNER - 12 SIDED

EN 60900 / IEC 60900



Ref.	Diameter (mm)	Weight (g)	Ref.	Diameter (mm)	Weight (g)
MS20 10	10	90	MS20 19	19	370
MS20 11	11	95	MS20 21	21	510
MS20 12	12	130	MS20 22	22	660
MS20 13	13	160	MS20 23	23	690
MS20 14	14	170	MS20 25	25	780
MS20 15	15	220	MS20 26	26	810
MS20 16	16	230	MS20 27	27	1000
MS20 17	17	280	MS20 28	28	1050
MS20 18	18	320	MS20 29	29	1150

Overall length tolerance : ± 5 mm of the nominal value.

**MS1****INSULATED BENT SOCKET SPANNER - 12 SIDED**

EN 60900 / IEC 60900

Use: Socket spanner specially designed for electric switchboards.

Ref.	Diameter (mm)	Length (mm)	Weight (g)
MS1 17	17	207	385

Overall length tolerance : ± 5 mm of the nominal value.**MS51****INSULATED BENT SOCKET SPANNER - 6 SIDED**

EN 60900 / IEC 60900 / ISO 691 / ISO 1711-1

Use: Socket wrench specially designed for TUR (Reduced size Urban Low Voltage Switchboard).

Ref.	Diameter (mm)	Length (mm)	Weight (g)
MS51 16	16	325	680
MS51 17	17	325	680

Overall length tolerance : ± 5 mm of the nominal value.**Male keys****IS64****INSULATED STRAIGHT HEX KEY DRIVER WITH HANDLE**

EN 60900 / IEC 60900

Use: For tightening / loosening hexagonal socket head cap screws (CHC).

The ergonomic study of the handle provides a good grip, particularly when wearing gloves, as well as a high tightening torque with limited effort. The special design of the blade enables work to be carried out in total safety in the most difficult areas.

Ref.	Diameter (mm)	Blade length (mm)	Weight (g)
IS64 02,5X100	2,5	100	40
IS64 03X100	3	100	90
IS64DB4X40	4	40	40
IS64 04X150	4	150	95
IS64 05X150	5	150	100
IS64 06X150	6	150	105
IS64 07X150	7	150	145
IS64 08X180	8	180	220

Reference IS64DB4X40 has a bi-material handle. Overall length tolerance : ± 5 mm of the nominal value.**MS51T****INSULATED BENT TORX KEY T50**

EN 60900 / IEC 60900

Use: Designed to be used on IP2X Low Voltage switchboards – TIPI (Power and Information Interface Switchboard).

Ref.	Dim. (mm)
MS51T	375 x 125

Overall length tolerance : ± 5 mm of the nominal value.

MS23

INSULATED MALE HEX KEY 90° BENT

EN 60900 / IEC 60900 / ISO 2936

Use: Essential for manoeuvring hex screws into difficult positions.



Ref.	Diameter (mm)	L long handle	L small handle	Weight (g)
MS23 03	3	123 mm	83 mm	10
MS23 04	4	124 mm	84 mm	15
MS23 05	5	125 mm	85 mm	20
MS23 06	6	125 mm	85 mm	30
MS23 07	7	126 mm	86 mm	45
MS23 08	8	126 mm	86 mm	50
MS23 09	9	127 mm	87 mm	70
MS23 10	10	128 mm	88 mm	80
MS23 11	11	128 mm	88 mm	90

Overall length resistance : ± 5 mm of the nominal value.

Our selection!

IS23TPC - IS23TPL

MALE HEXAGONAL T KEYS - SHORT AND LONG VERSION

EN 60900 / IEC 60900

Use:

Essential for manoeuvring hex screws into difficult positions.



Ref.	Version	6 sided (mm)	Length (mm)	Weight (g)
IS23TPC03	Short	3	140	50
IS23TPC04	Short	4	140	60
IS23TPC05	Short	5	140	70
IS23TPC06	Short	6	140	80
IS23TPC08	Short	8	140	110
IS23TPL04	Long	4	217	75
IS23TPL05	Long	5	217	85
IS23TPL06	Long	6	217	105
IS23TPL08	Long	8	217	145

Overall length tolerance : ± 5 mm of the nominal value.

MS52

INSULATED BENT MALE HEX KEY WITH HANDLE

EN 60900 / IEC 60900

Use: Specially designed for tightening connectors.



Ref.	Diameter (mm)	Blade length (mm)	Length (mm)	Weight (g)
MS52 05	5	75	172	105
MS52 08	8	65	172	120

Overall length tolerance : ± 5 mm of the nominal value.

**TC4** **INSULATED SCREWDRIVER FOR ROUND HEADED OR CONICAL SQUARE COUNTERSUNK SCREWS**

EN 60900 / IEC 60900

Ref.	N°	Screw Ø (mm)	Square	Length (mm)	Weight (g)
TC4N1	1	3-3,5	2,35 mm	215	90
TC4N2	2	4-5	2,9 mm	225	90
TC4N3	3	6	3.4 mm	225	90

Overall length tolerance : ± 5 mm of the nominal value.**Nut driver****IS36** **INSULATED HEXAGONAL NUT DRIVER**

EN 60900 / IEC 60900 / ISO 691

Use: Specially designed for screwing and unscrewing the most inaccessible nuts, these spanners are fitted with the same handle/grip as our range of screwdrivers.

Ref.	6 sided (mm)	Diam N°BA	Inch diam AF''	Inch diam W''	Blade length	Handle length	Weight (g)
IS36 07X130	7				150 mm	117 mm	130
IS36 08X130	8				150 mm	117 mm	165
IS36 10X130	10				150 mm	117 mm	170
IS36 11X130	11				150 mm	117 mm	240
IS36 13X130	13				150 mm	128 mm	235
IS36 14X130	14				150 mm	128 mm	255
IS36 17X130	17				150 mm	128 mm	275
IS36 0BA		0BA			150 mm	117 mm	170
IS36 1BA		1BA			150 mm	117 mm	170
IS36 2BA		2BA			150 mm	117 mm	170
IS36 4BA		4BA			150 mm	117 mm	170
IS36 3/16			3/16		150 mm	105 mm	160
IS36 1/4			1/4		150 mm	117 mm	170
IS36 5/16			5/16		150 mm	117 mm	175
IS36 3/8			3/8		150 mm	117 mm	185
IS36 7/16			7/16		150 mm	117 mm	205
IS36 1/2			1/2		150 mm	128 mm	210
IS36 9/16			9/16		150 mm	128 mm	215
IS36 5/8			5/8		150 mm	128 mm	220
IS36 1/4W				1/4	150 mm	128 mm	170
IS36 5/16W				5/16	150 mm	128 mm	170

Short sockets for references AF and W. Overall length tolerance : ± 5 mm of the nominal value.

Our selection!

MS41

INSULATED RATCHET RING SPANNER - 6 SIDED

EN 60900 / IEC 60900

Use:

Allows to perform important tightening very quickly in inaccessible areas.

**+ Reduced head thickness provides excellent accessibility.
Easy to use, reversible by instantaneous reversal.**



Ref.	Diameter (mm)	Weight (g)
MS41 10	10	150
MS41 13	13	190
MS41 16	16	370
MS41 17	17	380
MS41 18	18	400
MS41 19	19	410
MS41 22	22	290

Overall length tolerance : ± 5 mm of the nominal value.

MS38

INSULATED SINGLE HEAD RING SPANNER, INCLINED HEAD 15°

EN 60900 / IEC 60900

Use: Provides secure locking. Its shape facilitates work in the most confined places.

The inclination and thinness of the head enables it to negotiate obstacles.



Ref.	Diameter (mm)	Weight (g)
MS38 05	5	15
MS38 06	6	20
MS38 07	7	20
MS38 08	8	25
MS38 09	9	30
MS38 10	10	35
MS38 11	11	40
MS38 12	12	50
MS38 13	13	60
MS38 14	14	70
MS38 15	15	80
MS38 16	16	100
MS38 17	17	100
MS38 18	18	120
MS38 19	19	130
MS38 20	20	160
MS38 21	21	180
MS38 22	22	200
MS38 23	23	220
MS38 24	24	240
MS38 25	25	300
MS38 26	26	310

Overall length tolerance : ± 5 mm of the nominal value.



TC69 - TC70

INSULATED PIPE WRENCH FOR SQUARE NUTS

EN 60900 / IEC 60900

Technical specifications: Spanner without metallic continuity.

Ref.	Square	Length (mm)	Weight (g)
TC69	7 and 8	190	90
TC70	9 and 10	190	110



TC71

INSULATED BOX WRENCH FOR 10 AND 17 MM HEX NUTS

EN 60900 / IEC 60900

Technical specifications: Delivered with T-wrench TB13.

Ref.	Length (mm)	Weight (g)
TC71	214	210



TC72

INSULATED BOX WRENCH FOR 13 AND 14 MM HEX NUTS

EN 60900 / IEC 60900

Technical specifications: Delivered with T-wrench TB14.

Ref.	Length (mm)	Weight (g)
TC72	264	230



TC73

INSULATED BOX WRENCH FOR 16 AND 17 MM HEX NUTS

EN 60900 / IEC 60900

Technical specifications: Delivered with T-wrench TB13.

Ref.	Length (mm)	Weight (g)
TC73	200	186

Spanners and wrenches • Pipe wrenches

Type of network: LV  MV  HV 

TC77

INSULATED 19 MM SQUARE END SOCKET WRENCH

EN 60900 / IEC 60900

Use: To be used with box wrench TC72.



Ref.	Description
TC77	Insulated 19 mm square end socket wrench

TC78

INSULATED 26 MM SQUARE END SOCKET WRENCH

EN 60900 / IEC 60900

Use: To be used with box wrench TC72.



Ref.	Description
TC78	Insulated 26 mm square end socket wrench

TC79

INSULATED HEXAGONAL 19 MM END PIECE

EN 60900 / IEC 60900

Use: To be used with box wrench TC72.



Ref.	Description
TC79	Insulated hexagonal 19 mm end piece

Cross spanner

Our selection!

IS39

INSULATED FEMALE HEXAGONAL CROSS SPANNER

EN 60900 / IEC 60900

Use:

For tightening nuts with a protruding threaded shank.

Technical specifications:

Key with 4 hexagonal sockets, injected in heat treated alloy steel; a single insulated block avoiding current conduction at the ends.



Ref.	Diameter (mm)	Length (mm)	Weight (g)
IS39 6X8X10	6 x 8 x 10 x 12	150	160
IS39 7X9X11	7 x 9 x 11 x 13	150	200
IS39 8X10X12	8 x 10 x 12 x 14	150	220
IS39 8X10X13	8 x 10 x 13 x 17	150	300
IS39 14X17X19	14 x 17 x 19 x 21	150	440

Overall length tolerance : ± 5 mm of the nominal value.



MS85

INSULATED REVERSIBLE RATCHET SPANNER 3/8"

EN 60900 / IEC 60900 / ISO 1174-1 / ISO 3315

Use: To facilitate the tightening of connectors on overhead or underground service lines and many other applications.

Ref.	Square drive	Length (mm)	Weight (g)
MS85	3/8"	190	250

Our selection!



MS85P

INSULATED REVERSIBLE RATCHET SPANNER 3/8" WITH MECHANICAL LOCKING

EN 60900 / IEC 60900 / ISO 1174-1 / ISO 3315

Use:

To facilitate the tightening of connectors on overhead or underground service lines

+ Specific model : the sockets and extensions remain interdependent to the spanner during use.

Technical specifications:

Compliance : Each product is interchangeable and bears the interchangeability logo.

Practical : Socket released by pressing the push button

Robust : The bearing located in the drive mechanism is specially designed to resist a torque of 500 Nm i.e. roughly the equivalent of 50 kg applied on a lever distance of 1 m.



Ref.	Square drive	Length (mm)	Weight (g)
MS85P	3/8"	215	300



MS85PC

INSULATED COMPACT REVERSIBLE RATCHET SPANNER 3/8" WITH MECHANICAL LOCKING

EN 60900 / IEC 60900 / ISO 1174-1 / ISO 3315

+ Specific model : the sockets and extensions remain interdependent to the spanner during use.

Technical specifications: Compliance : Each product is interchangeable and bears the interchangeability logo.

Practical : Socket released by pressing the push button

Robust : The bearing located in the drive mechanism is specially designed to resist a torque of 500 Nm i.e. roughly the equivalent of 50 kg applied on a lever distance of 1 metre.



Ref.	Square drive	Length (mm)
MS85PC	3/8"	155

Ratchet spanners, sockets and accessories • 3/8"

Type of network: LV  MV  HV 

MS77

INSULATED FEMALE HEXAGONAL SOCKET - 3/8" (9,53 MM) SQUARE DRIVE

EN 60900 / IEC 60900 / ISO 691 / ISO 1174-1 / ISO 1711-1 / ISO 2725-1



Ref.	Diameter	Weight (g)	Ref.	Diameter	Weight (g)
MS77 06	6 mm	30	MS77 19	19 mm	70
MS77 07	7 mm	30	MS77 20	20 mm	85
MS77 08	8 mm	30	MS77 21	21 mm	85
MS77 09	9 mm	30	MS77 22	22 mm	90
MS77 10	10 mm	35	MS77 23	23 mm	100
MS77 11	11 mm	35	MS77 24	24 mm	110
MS77 12	12 mm	35	MS77 7/16	7/16"	35
MS77 13	13 mm	35	MS77 1/2	1/2"	45
MS77 14	14 mm	45	MS77 9/16	9/16"	45
MS77 15	15 mm	45	MS77 5/8	5/8"	60
MS77 16	16 mm	50	MS77 11/16	11/16"	60
MS77 17	17 mm	60	MS77 3/4	3/4"	70
MS77 18	18 mm	60	MS77 13/16	13/16"	85

Other dimensions available on request.

MS77L

INSULATED FEMALE HEXAGONAL SOCKET - 3/8" (9,53 MM) SQUARE DRIVE

EN 60900 / IEC 60900 / ISO 691 / ISO 1174-1 / ISO 1711-1 / ISO 2725-1



Ref.	Diameter (mm)	Weight (g)
MS77L 08	8	40
MS77L 09	9	40
MS77L 10	10	60
MS77L 11	11	80
MS77L 12	12	80
MS77L 13	13	105
MS77L 14	14	120
MS77L 16	16	130
MS77L 17	17	150
MS77L 18	18	150
MS77L 19	19	150
MS77L 21	21	160
MS77L 22	22	170
MS77L 24	24	170

Other dimensions available on request.



MS86

INSULATED 12-SIDED FEMALE SOCKET - 3/8" (9,53 MM) SQUARE DRIVE

EN 60900 / IEC 60900 / ISO 691 / ISO 1174-1 / ISO 1711-1 / ISO 2725-1

Ref.	Diameter	Weight (g)	Ref.	Diameter	Weight (g)
MS86 08	8 mm	35	MS86 22	22 mm	120
MS86 09	9 mm	35	MS86 23	23 mm	130
MS86 10	10 mm	40	MS86 24	24 mm	140
MS86 11	11 mm	40	MS86 5/16	5/16"	35
MS86 12	12 mm	40	MS86 3/8	3/8"	40
MS86 13	13 mm	45	MS86 7/16	7/16"	40
MS86 14	14 mm	45	MS86 1/2	1/2"	45
MS86 15	15 mm	45	MS86 9/16	9/16"	45
MS86 16	16 mm	50	MS86 5/8	5/8"	50
MS86 17	17 mm	50	MS86 11/16	11/16"	50
MS86 18	18 mm	70	MS86 3/4	3/4"	70
MS86 19	19 mm	70	MS86 13/16	13/16"	110
MS86 20	20 mm	80	MS86 7/8	7/8"	120
MS86 21	21 mm	110			

Other dimensions available on request.



MS86L

INSULATED 12-SIDED FEMALE SOCKET - LONG SERIES - 3/8" (9,53 MM) SQUARE DRIVE

EN 60900 / IEC 60900 / ISO 691 / ISO 1174-1 / ISO 1711-1 / ISO 2725-1

Ref.	Diameter	Weight (g)	Ref.	Diameter	Weight (g)
MS86L 08	8 mm	50	MS86L 24	24 mm	230
MS86L 09	9 mm	55	MS86L 1/4"	1/4"	45
MS86L 10	10 mm	60	MS86L 5/16"	5/16"	50
MS86L 11	11 mm	70	MS86L 3/8"	3/8"	55
MS86L 12	12 mm	70	MS86L 13/32"	13/32"	60
MS86L 13	13 mm	80	MS86L 7/16"	7/16"	70
MS86L 14	14 mm	90	MS86L 1/2"	1/2"	75
MS86L 15	15 mm	100	MS86L 9/16"	9/16"	90
MS86L 16	16 mm	120	MS86L 5/8"	5/8"	120
MS86L 17	17 mm	150	MS86L 11/16"	11/16"	150
MS86L 18	18 mm	160	MS86L 3/4"	3/4"	170
MS86L 19	19 mm	170	MS86L 13/16"	13/16"	210
MS86L 21	21 mm	210	MS86L 7/8"	7/8"	230
MS86L 22	22 mm	230			

Other dimensions available on request.

Ratchet spanners, sockets and accessories • 3/8"

Type of network: LV  MV  HV 

MS87

INSULATED MALE HEXAGONAL SOCKET - 3/8" (9,53 MM) SQUARE DRIVE

EN 60900 / IEC 60900 / ISO 1174-1 / ISO 2936



Ref.	Diameter	Weight (g)	Ref.	Diameter	Weight (g)
MS87 03	3 mm	40	MS87 1/8"	1/8"	40
MS87 04	4 mm	40	MS87 5/32"	5/32"	40
MS87 05	5 mm	50	MS87 3/16"	3/16"	50
MS87 06	6 mm	50	MS87 7/32"	7/32"	50
MS87 07	7 mm	50	MS87 1/4"	1/4"	50
MS87 08	8 mm	60	MS87 5/16"	5/16"	60
MS87 10	10 mm	60	MS87 3/8"	3/8"	60

MS87P

INSULATED LONG MALE HEXAGONAL SOCKET 3/8" SQUARE DRIVE

EN 60900 / IEC 60900



Ref.	Diameter	Weight (g)	Ref.	Diameter	Weight (g)
MS87P 03	3	40	MS87P 07	7	50
MS87P 04	4	40	MS87P 08	8	60
MS87P 05	5	50	MS87P 10	10	60
MS87P 06	6	50			

MS87T

INSULATED MALE TORX SOCKET 3/8" SQUARE DRIVE

EN 60900 / CEI 60900



Ref.	Size	Weight (g)	Ref.	Size	Weight (g)
MS87 T15	T15	55	MS87 T30	T30	65
MS87 T20	T20	55	MS87 T40	T40	65
MS87 T25	T25	60	MS87 T45	T45	70
MS87 T27	T27	60	MS87 T50	T50	70



MS96

REDUCER 3/8" - 1/4" (9,53 MM - 6,35 MM)

EN 60900 / IEC 60900 / ISO 1174-1 / ISO 3316

Technical specifications: Enables "radio" series 1/4" (6,35 mm) sockets to be used with "junior" 3/8" (9,53 mm) accessories.

Ref.	Length (mm)	Weight (g)
MS96	64	20



MS91

ENLARGER 3/8" - 1/2" (9,53 MM - 12,7 MM)

EN 60900 / IEC 60900 / ISO 1174-1 / ISO 3316

Technical specifications: Enables "standard" series sockets to be used with "junior" accessories.

Ref.	Length (mm)	Weight (g)
MS91	75	40



MS84

SHORT EXTENSION 3/8"

EN 60900 / IEC 60900 / ISO 1174-1 / ISO 1711-1

Use: Allows to reach nuts when working in confined places.

Ref.	Length (mm)	Length (in)	Weight (g)
MS84	140	5	125



MS84P

SHORT EXTENSION 3/8" SQUARE DRIVE WITH MECHANICAL LOCKING

EN 60900 / IEC 60900 / ISO 1174-1 / ISO 1711-1 / ISO 3316

Technical specifications: For sockets, extensions and reducers.

Each product marked with the above logo allows interchangeability between accessories from different manufacturers (sockets, extensions, ...).

The bearing located in the drive mechanism is specially designed to resist a torque of 500Nm

Socket released by pulling the grey locking ring.

Specific model : the sockets and extensions remain interdependent to the spanner during use.



Ref.	Length (mm)	Length (in)	Weight (g)
MS84P	165	6	150

Ratchet spanners, sockets and accessories • 3/8"

Type of network: LV  MV  HV 

MS84L

LONG EXTENSION 3/8" (9,53 MM) SQUARE DRIVE

EN 60900 / IEC 60900 / ISO 1174-1 / ISO 1711-1

Use: Allows to reach nuts when working in confined places.



Ref.	Length (mm)	Length (in)	Weight (g)
MS84L	264	10	270

MS84LP

LONG EXTENSION 3/8" SQUARE DRIVE WITH MECHANICAL LOCKING

EN 60900 / IEC 60900 / ISO 1174-1 / ISO 1711-1 / ISO 3316

Technical specifications: For sockets, extensions and reducers.

Each product marked with the above logo allows interchangeability between accessories from different manufacturers (sockets, extensions, ...).

The bearing located in the drive mechanism is specially designed to resist a torque of 500Nm

Socket released by pulling the grey locking ring.

Specific model: the sockets and extensions remain interdependent to the spanner during use.



→|←

Ref.	Length (mm)	Length (in)	Weight (g)
MS84LP	265	5	300

MS84LC

TORQUE LIMITER SOCKET 3/8" (9,53 MM)

EN 60900 / IEC 60900

Use: Square drive torque limiter socket 3/8" adaptable on square 3/8" work tools and accessories.

Model pre-adjusted at 4, 8 or 18 Nm.

Releases when the torque is reached. Automatic reset.



Ref.	Limiteur de couple (Nm)	Length (mm)	Weight (g)
MS84LC-4	4	70	90
MS84LC-8	8	70	8
MS84LC	18	70	18

MS72J

INSULATED T-WRENCH 3/8" (9,53 MM) SQUARE DRIVE

EN 60900 / IEC 60900 / ISO 1174-1

Use: Because of its length, this accessory provides access to the deepest places.



Ref.	Length (mm)	Length (in)	Weight (g)
MS72J130	130	5	380
MS72J206	206	8	420



MS72JP

INSULATED T-WRENCH 3/8" SQUARE DRIVE WITH MECHANICAL LOCKING

EN 60900 / IEC 60900 / ISO 1174-1

Technical specifications: Specific model: the sockets and extensions remain interdependent to the spanner during use.

Each product marked with the above logo allows interchangeability between accessories from different manufacturers (sockets, extensions, ...).

The bearing located in the drive mechanism is specially designed to resist a torque of 500Nm (= 50 kg).
Socket released by pulling the grey locking ring.



Ref.	Length (mm)	Length (in)	Weight (g)
MS72JP130	130	5	400
MS72JP206	206	8	450



MS72JLC4

INSULATED 4 NM TORQUE LIMITING T-WRENCH 3/8" SQUARE DRIVE

EN 60900 / ISO 6789

Use: Controlled tightening tool preset at 4 Nm - 2,95 lbf.ft - 35,4 lbf.in

To be used with sockets 3/8" square drive.

Ref.	Length (mm)	Weight (g)
MS74JLC4	165	550



MS89

INSULATED SOCKET SET 3/8" - 6 TOOLS WITH RATCHET SPANNER AND EXTENSION

EN 60900 / IEC 60900

Technical specifications: This set is also available with a long extension MS84LP.



Ref.	Description
MS89	Insulated socket set 3/8" - 6 tools with ratchet spanner and extension
Contents:	
MS77 10	Insulated female hexagonal socket - 3/8" (9,53 mm) square drive 10 mm
MS84	Short extension 3/8"
MS77 13	Insulated female hexagonal socket - 3/8" (9,53 mm) square drive 13 mm
MS85	Insulated reversible ratchet spanner 3/8"
MS87 05	Insulated male hexagonal socket - 3/8" (9,53 mm) square drive 5 mm
MS77 08	Insulated female hexagonal socket - 3/8" (9,53 mm) square drive 8 mm
COR32	Coffret plastique noir 265 x 225 x 50 mm

MS89V01

INSULATED SOCKET SET 3/8" - 18 TOOLS WITH RATCHET SPANNERS AND EXTENSION

EN 60900 / IEC 60900



Ref.	Description
MS89V01	Insulated socket set 3/8" - 18 tools with ratchet spanners and extension
Contents:	
MS85P	Insulated reversible ratchet spanner 3/8" with mechanical locking
MS85PC	Insulated compact reversible ratchet spanner 3/8" with mechanical locking
MS84P	Short extension 3/8" square drive with mechanical locking
MS77 SET1	Set of 11 insulated female hexagonal sockets - 3/8" (9,53 mm) square drive - 8 / 10 / 13 / 14 / 16 / 17 / 18 / 19 / 21 / 22 / 23 mm
MS87 SET1	Set of 4 insulated male hexagonal sockets - 3/8" (9,53 mm) square drive - 4 / 5 / 6 / 8 mm
MS89VCV1	Black plastic case 350 x 250 x 80 mm with foam

MS89V02

INSULATED SOCKET SET 3/8" - 17 TOOLS WITH RATCHET SPANNER AND EXTENSION

EN 60900 / IEC 60900

Technical specifications: This set is also available with a long extension MS84LP.



Ref.	Description
MS89V02	Insulated socket set 3/8" - 17 tools with ratchet spanner and extension
Contents:	
MS85P	Insulated reversible ratchet spanner 3/8" with mechanical locking
MS84P	Short extension 3/8" square drive with mechanical locking
MS77 SET1	Set of 11 insulated female hexagonal sockets - 3/8" (9,53 mm) square drive - 8 / 10 / 13 / 14 / 16 / 17 / 18 / 19 / 21 / 22 / 23 mm
MS87 SET1	Set of 4 insulated male hexagonal sockets - 3/8" (9,53 mm) square drive - 4 / 5 / 6 / 8 mm
MS89VCV1	Black plastic case 350 x 250 x 80 mm with foam



MS89V04

INSULATED SOCKET SET 3/8" - 13 TOOLS WITH RATCHET SPANNER AND EXTENSION

EN 60900 / IEC 60900

Ref.	Description
MS89V04	Insulated socket set 3/8" - 24 tools with ratchet spanner and extension
Contents:	
MS85P	Insulated reversible ratchet spanner 3/8" with mechanical locking
MS84P	Short extension 3/8" square drive with mechanical locking
MS77 SET2	Set of 6 insulated female hexagonal sockets - 3/8" (9,53 mm) square drive - 10 / 14 / 16 / 17 / 18 / 19 mm
MS87 SET1	Set of 4 insulated male hexagonal sockets - 3/8" (9,53 mm) square drive - 4 / 5 / 6 / 8 mm
MS89VCV1	Black plastic case 350 x 250 x 80 mm with foam



MS89V05

INSULATED SOCKET SET 3/8" - 24 TOOLS WITH RATCHET SPANNERS AND EXTENSION

EN 60900 / IEC 60900

Ref.	Description
MS89V05	Insulated socket set 3/8" - 24 tools with ratchet spanners and extension
Contents:	
MS85P	Insulated reversible ratchet spanner 3/8" with mechanical locking
MS85PC	Insulated compact reversible ratchet spanner 3/8" with mechanical locking
MS84P	Short extension 3/8" square drive with mechanical locking
MS77 SET3	Set of 11 insulated female hexagonal sockets - 3/8" (9,53 mm) square drive - 08 / 10 / 12 / 13 / 14 / 16 / 17 / 18 / 19 / 21 / 22 mm
MS77L SET1	Set of 6 insulated female hexagonal sockets - 3/8" (9,53 mm) square drive - 16 / 17 / 18 / 19 / 21 / 22 mm
MS87 SET1	Set of 4 insulated male hexagonal sockets - 3/8" (9,53 mm) square drive - 4 / 5 / 6 / 8 mm
MS89VCV2	Black plastic case 370 x 270 x 70 mm with foam

MS89V06

INSULATED SOCKET SET 3/8" - 23 TOOLS WITH RATCHET SPANNER AND EXTENSION

EN 60900 / IEC 60900



Ref.	Description
MS89V06	Insulated socket set 3/8" - 23 tools with ratchet spanner and extension
Contents:	
MS85P	Insulated reversible ratchet spanner 3/8" with mechanical locking
MS84P	Short extension 3/8" square drive with mechanical locking
MS77 SET3	Set of 11 insulated female hexagonal sockets - 3/8" (9,53 mm) square drive - 08 / 10 / 12 / 13 / 14 / 16 / 17 / 18 / 19 / 21 / 22 mm
MS77L SET1	Set of 6 insulated female hexagonal sockets - 3/8" (9,53 mm) square drive - 16 / 17 / 18 / 19 / 21 / 22 mm
MS87 SET1	Set of 4 insulated male hexagonal sockets - 3/8" (9,53 mm) square drive - 4 / 5 / 6 / 8 mm
MS89VCV2	Black plastic case 370 x 270 x 70 mm with foam

MS89V07

INSULATED SOCKET SET 3/8" - 19 TOOLS WITH RATCHET SPANNERS AND EXTENSION

EN 60900 / IEC 60900



Ref.	Description
MS8V07	Insulated sockets et 3/8" - 19 tools with ratchet spanners and extension
Contents:	
MS85P	Insulated reversible ratchet spanner 3/8" with mechanical locking
MS85PC	Insulated compact reversible ratchet spanner 3/8" with mechanical locking
MS77 SET4	Set of 8 insulated female hexagonal sockets - 3/8" (9,53 mm) square drive - 8 / 10 / 13 / 14 / 16 / 17 / 18 / 19 mm
MS77L SET2	Set of 4 insulated female hexagonal sockets - 3/8" (9,53 mm) square drive - 16 / 17 / 18 / 19 mm
MS87 SET1	Set of 4 insulated male hexagonal sockets - 3/8" (9,53 mm) square drive - 4 / 5 / 6 / 8 mm
MS89VCV2	Black plastic case 370 x 270 x 70 mm with foam



MS89V08

INSULATED SOCKET SET 3/8" - 18 TOOLS WITH RATCHET SPANNER AND EXTENSION

EN 60900 / IEC 60900

Ref.	Description
MS8V08	Insulated socket set 3/8" - 18 tools with ratchet spanner and extension
Contents:	
MS85P	Insulated reversible ratchet spanner 3/8" with mechanical locking
MS84P	Short extension 3/8" square drive with mechanical locking
MS77 SET4	Set of 8 insulated female hexagonal sockets - 3/8" (9,53 mm) square drive - 8 / 10 / 13 / 14 / 16 / 17 / 18 / 19 mm
MS77L SET2	Set of 4 insulated female hexagonal sockets - 3/8" (9,53 mm) square drive - 16 / 17 / 18 / 19 mm
MS87 SET1	Set of 4 insulated male hexagonal sockets - 3/8" (9,53 mm) square drive - 4 / 5 / 6 / 8 mm
MS89VCV2	Black plastic case 370 x 270 x 70 mm with foam

Ratchet spanners, sockets and accessories • 1/4"

Type of network: LV  MV  HV 

MS55

INSULATED RATCHET SPANNER 1/4" (6,35 MM) SQUARE DRIVE

EN 60900 / IEC 60900 / ISO 1174-1 / ISO 3315

Use: Recommended for the tightening of overhead connectors.



Ref.	Length (mm)	Weight (g)
MS55	125	140

MS56

INSULATED FEMALE HEXAGONAL SOCKET 1/4" (6,35 MM) SQUARE DRIVE

EN 60900 / IEC 60900 / ISO 1174-1 / ISO 3316



Ref.	Diameter	Weight (g)	Ref.	Diameter	Weight (g)
MS56 04	4 mm	12	MS56 3/16»	3/16"	12
MS56 05	5 mm	12	MS56 7/32»	7/32"	14
MS56 05,5	5,5 mm	12	MS56 1/4»	1/4"	14
MS56 06	6 mm	14	MS56 9/32»	9/32"	18
MS56 07	7 mm	14	MS56 5/16»	5/16"	20
MS56 08	8 mm	16	MS56 11/32»	11/32"	22
MS56 09	9 mm	22	MS56 3/8»	3/8"	24
MS56 10	10 mm	22	MS56 13/32»	13/32"	26
MS56 11	11 mm	26	MS56 7/16»	7/16"	28
MS56 12	12 mm	28	MS56 1/2»	1/2"	30
MS56 13	13 mm	28	MS56 9/16»	9/16"	32
MS56 14	14 mm	32			

Other dimensions available on request.

MS57

INSULATED MALE HEXAGONAL SOCKET 1/4" (6,35 MM) SQUARE DRIVE

EN 60900 / IEC 60900 / ISO 1174-1 / ISO 2936



Ref.	Diameter	Weight (g)	Ref.	Diameter	Weight (g)
MS57 03	3 mm	16	MS57 5/32»	5/32"	18
MS57 04	4 mm	18	MS57 3/16»	3/16"	20
MS57 05	5 mm	20	MS57 7/32»	7/32"	22
MS57 06	6 mm	22	MS57 1/4»	1/4"	24
MS57 07	7 mm	24	MS57 5/16»	5/16"	28
MS57 1/8»	1/8"	16			



MS58

LONG EXTENSION 1/4" WITH HANDLE

EN 60900 / IEC 60900 / ISO 1174-1 / ISO 3315

Use: Allows to reach nuts when working in confined places.

Ref.	Length (mm)	Blade length (mm)	Weight (g)
MS58	270	150	150



MS95

ENLARGER 1/4" - 3/8" (6,35 MM - 9,53 MM)

EN 60900 / IEC 60900 / ISO 1174-1 / ISO 3316

Use: Enables square drive 1/4" to be used with sockets 3/8".

Ref.	Length (mm)	Weight (g)
MS95	54	30



MS54

SHORT EXTENSION 1/4"

EN 60900 / IEC 60900 / ISO 1174-1 / ISO 3316

Use: Allows to reach nuts when working in confined places.

Ref.	Length (mm)	Length (in)	Weight (g)
MS54 116	116	4	50



MS54L

LONG EXTENSION 1/4"

EN 60900 / IEC 60900 / ISO 1174-1 / ISO 3316

Use: Allows to reach nuts when working in confined places.

Ref.	Length (mm)	Length (in)	Weight (g)
MS54L 166	166	6	76

Ratchet spanners, sockets and accessories • 1/4"

Type of network: LV  MV  HV 

MS59S

INSULATED SOCKET SET 1/4" - 5 TOOLS WITH RATCHET SPANNER

EN 60900 / IEC 60900



Ref.	Description	Weight (g)
MS59S	Insulated socket set 1/4" - 5 tools with ratchet spanner	290
Contents:		
MS55	Insulated ratchet spanner 1/4" (6,35 mm) square drive	
MS56 08	Insulated female hexagonal socket 1/4" (6,35 mm) square drive 8 mm	
MS56 10	Insulated female hexagonal socket 1/4" (6,35 mm) square drive 10 mm	
MS56 12	Insulated female hexagonal socket 1/4" (6,35 mm) square drive 12 mm	
MS57 05	Insulated male hexagonal socket 1/4" (6,35 mm) square drive 5 mm	
MS59SV	Plastic case 135 x 95 x 32 mm	

MS59

INSULATED SOCKET SET 1/4" - 5 TOOLS WITH RATCHET SPANNER



Ref.	Description	Weight (g)
MS59	Insulated socket set 1/4" - 5 tools with ratchet spanner	290
Contents:		
MS55	Insulated ratchet spanner 1/4" (6,35 mm) square drive	
MS56 08	Insulated female hexagonal socket 1/4" (6,35 mm) square drive 8 mm	
MS56 10	Insulated female hexagonal socket 1/4" (6,35 mm) square drive 10 mm	
MS56 13	Insulated female hexagonal socket 1/4" (6,35 mm) square drive 13 mm	
MS57 05	Insulated male hexagonal socket 1/4" (6,35 mm) square drive 5 mm	
MS59SV	Plastic case 135 x 95 x 32 mm	



MS59A

INSULATED SOCKET SET 1/4" - 5 TOOLS WITH RATCHET SPANNER AND EXTENSION

Ref.	Description	Weight (g)
MS59A	Insulated socket set 1/4" - 5 tools with ratchet spanner and extension	300
Contents:		
MS55	Insulated ratchet spanner 1/4" (6,35 mm) square drive	
MS54 116	Short extension 1/4"	
MS56 10	Insulated female hexagonal socket 1/4" (6,35 mm) square drive 10 mm	
MS56 13	Insulated female hexagonal socket 1/4" (6,35 mm) square drive 13 mm	
MS57 05	Insulated male hexagonal socket 1/4" (6,35 mm) square drive 5 mm	
MS59SV	Plastic case 135 x 95 x 32 mm	



MS59V01

INSULATED SOCKET SET FOR CONFINED SPACES

EN 60900 / IEC 60900

Ref.	Description
MS59V01	Insulated socket set for confined spaces
Contents:	
MS56 14	Insulated female hexagonal socket 1/4" (6,35 mm) square drive 14 mm
MS57 03	Insulated male hexagonal socket 1/4" (6,35 mm) square drive 3 mm
MS57 04	Insulated male hexagonal socket 1/4" (6,35 mm) square drive 4 mm
MS57 05	Insulated male hexagonal socket 1/4" (6,35 mm) square drive 5 mm
MS57 06	Insulated male hexagonal socket 1/4" (6,35 mm) square drive 6 mm
MS57 07	Insulated male hexagonal socket 1/4" (6,35 mm) square drive 7 mm
MS58	Long extension 1/4" with handle
MS59VCV1	Coffret plastique 350 x 250 x 80 mm

MS59M

INSULATED SOCKET SET 1/4" - 3 TOOLS WITH RATCHET SPANNER

EN 60900 / IEC 60900



Ref.	Description
MS59M	Insulated socket set 1/4" - 3 tools with ratchet spanner
Contents:	
MS55	Insulated ratchet spanner 1/4" (6,35 mm) square drive
MS56 10	Insulated female hexagonal socket 1/4" (6,35 mm) square drive 10 mm
MS57 05	Insulated male hexagonal socket 1/4" (6,35 mm) square drive 5 mm
MS59SV	Plastic case 135 x 95 x 32 mm

MS59T

INSULATED SOCKET SET 1/4" - 5 TOOLS WITH RATCHET SPANNER



Ref.	Description	Weight (g)
MS59T	Insulated socket set 1/4" - 5 tools with ratchet spanner	300
Contents:		
MS55	Insulated ratchet spanner 1/4" (6,35 mm) square drive	
MS56 10	Insulated female hexagonal socket 1/4" (6,35 mm) square drive 10 mm	
MS56 12	Insulated female hexagonal socket 1/4" (6,35 mm) square drive 12 mm	
MS56 13	Insulated female hexagonal socket 1/4" (6,35 mm) square drive 13 mm	
MS57 05	Insulated male hexagonal socket 1/4" (6,35 mm) square drive 5 mm	
MS59SV	Plastic case 135 x 95 x 32 mm	



MS65

INSULATED RATCHET SPANNER 1/2" (12,7 MM) SQUARE DRIVE

EN 60900 / CEI 60900 / ISO 1174-1 / ISO 3315

Use: To facilitate the tightening of connectors on overhead or underground service lines and many other applications.

Ref.	Length (mm)	Weight (g)
MS65	255	570



MS65P

INSULATED RATCHET SPANNER 1/2" SQUARE DRIVE WITH MECHANICAL LOCKING

EN 60900 / IEC 60900 / ISO 1174-1 / ISO 3315

Use: To facilitate the tightening of connectors on overhead or underground service lines and many other applications.

+ Specific model : the sockets and extensions remain interdependent to the spanner during use.

Technical specifications: Compliance : Each product is interchangeable and bears the interchangeability logo.

Practical : Socket released by pressing the push button

Robust : The bearing located in the drive mechanism is specially designed to resist a torque of 500 Nm i.e. roughly the equivalent of 50 kg applied on a lever distance of 1 metre.



Ref.	Square drive	Length (mm)	Weight (g)
MS65P	1/2"	268	600



MS71

SHORT EXTENSION 1/2" (12,7 MM)

EN 60900 / IEC 60900 / ISO 1174-1 / ISO 3316

Use: Allows to reach nuts when working in confined places.

Ref.	Length (mm)	Length (in)	Weight (g)
MS71	144	5	255



MS71P

SHORT EXTENSION 1/2" WITH MECHANICAL LOCKING

EN 60900 / IEC 60900

Technical specifications: For sockets, extensions and reducers.

Each product marked with the above logo allows interchangeability between accessories from different manufacturers (sockets, extensions, ...).

The bearing located in the drive mechanism is specially designed to resist a torque of 500Nm

Socket released by pulling the grey locking ring.



Ref.	Length (mm)	Length (in)	Weight (g)
MS71P	140	5	280

Ratchet spanners, sockets and accessories • 1/2"

Type of network: LV  MV  HV 

MS71L

LONG EXTENSION 1/2" (12,7 MM)

EN 60900 / IEC 60900 / ISO 1174-1 / ISO 3316

Use: Allows to reach nuts when working in confined places.



Ref.	Length (mm)	Length (in)	Weight (g)
MS71L	264	10	465

MS71LP

SHORT EXTENSION 1/2" WITH MECHANICAL LOCKING

EN 60900 / IEC 60900

Technical specifications: For sockets, extensions and reducers.

Each product marked with the above logo allows interchangeability between accessories from different manufacturers (sockets, extensions, ...).

The bearing located in the drive mechanism is specially designed to resist a torque of 500Nm

Socket released by pulling the grey locking ring.



Ref.	Length (mm)	Length (in)	Weight (g)
MS71LP	265	10	490

MS72S

INSULATED T WRENCH 1/2"

EN 60900 / IEC 60900 / ISO 1174-1

Use: Allows to reach nuts when working in confined places.



Ref.	Length (mm)	Length (in)	Weight (g)
MS72S-130	130	5	320
MS72S-310	310	12	800

MS72SP

INSULATED T WRENCH 1/2" WITH MECHANICAL LOCKING

EN 60900 / IEC 60900

Technical specifications: For sockets, extensions and reducers.

Each product marked with the above logo allows interchangeability between accessories from different manufacturers (sockets, extensions, ...).

The bearing located in the drive mechanism is specially designed to resist a torque of 500Nm

Socket released by pulling the grey locking ring.



Ref.	Length (mm)	Length (in)	Weight (g)
MS72SP	250	10	550



MS70

REDUCER 1/2" - 1/4" (12,7 MM - 6,35 MM)

EN 60900 / IEC 60900 / ISO 1174-1 / ISO 3316

Use: Enables "radio" 1/4" sockets to be used with "standard" 1/2" accessories.

Ref.	Length (mm)	Weight (g)
MS70	76	80



MS90

REDUCER 1/2" - 3/8" (12,7 MM - 9,53 MM)

EN 60900 / IEC 60900 / ISO 1174-1 / ISO 3316

Use: Enables "junior" 3/8" sockets to be used with "standard" 1/2" accessories.

Ref.	Length (mm)	Weight (g)
MS90	79	60



MS66 12 sided

INSULATED 12-SIDED FEMALE SOCKET - 1/2" (12,7 MM) SQUARE DRIVE

EN 60900 / IEC 60900 / ISO 691 / ISO 1174-1 / ISO 1711-1 / ISO 2725-1

Ref.	Diameter	Weight (g)	Ref.	Diameter	Weight (g)
MS66 08	8 mm	55	MS66 29	29 mm	160
MS66 09	9 mm	60	MS66 30	30 mm	180
MS66 10	10 mm	60	MS66 32	32 mm	180
MS66 11	11 mm	70	MS66 3/8"	3/8"	60
MS66 12	12 mm	80	MS66 7/16"	7/16"	60
MS66 13	13 mm	80	MS66 1/2"	1/2"	80
MS66 14	14 mm	80	MS66 9/16"	9/16"	80
MS66 15	15 mm	80	MS66 19/32"	19/32"	80
MS66 16	16 mm	80	MS66 5/8"	5/8"	80
MS66 17	17 mm	80	MS66 21/32"	21/32"	80
MS66 18	18 mm	80	MS66 11/16"	11/16"	80
MS66 19	19 mm	100	MS66 3/4"	3/4"	100
MS66 20	20 mm	100	MS66 25/32"	25/32"	100
MS66 21	21 mm	100	MS66 13/16"	13/16"	100
MS66 22	22 mm	120	MS66 7/8"	7/8"	120
MS66 23	23 mm	120	MS66 15/16"	15/16"	140
MS66 24	24 mm	140	MS66 31/32"	31/32"	140
MS66 25	25 mm	140	MS66 1"	1"	160
MS66 26	26 mm	160	MS66 1-1/16"	1.1/16"	160
MS66 27	27 mm	160	MS66 1-1/8"	1.1/8"	160
MS66 28	28 mm	160	MS66 1-1/4"	1.1/4"	200

Other dimensions available on request.

Ratchet spanners, sockets and accessories • 1/2"

Type of network: LV  MV  HV 

MS66L 12 sided

INSULATED 12-SIDED FEMALE SOCKET, LONG SERIES, 1/2" (12,7 MM) SQUARE DRIVE

EN 60900 / IEC 60900 / ISO 691 / ISO 1174-1 / ISO 1711-1 / ISO 2725-1



Ref.	Diameter	Weight (g)	Ref.	Diameter	Weight (g)
MS66L 12	12 mm	150	MS66L 5/16"	5/16"	100
MS66L 13	13 mm	150	MS66L 3/8"	3/8"	110
MS66L 14	14 mm	150	MS66L 7/16"	7/16"	115
MS66L 15	15 mm	150	MS66L 1/2"	1/2"	120
MS66L 16	16 mm	150	MS66L 9/16"	9/16"	135
MS66L 17	17 mm	160	MS66L 19/32"	19/32"	140
MS66L 18	18 mm	170	MS66L 5/8"	5/8"	145
MS66L 19	19 mm	210	MS66L 11/16"	11/16"	160
MS66L 21	21 mm	230	MS66L 3/4"	3/4"	170
MS66L 22	22 mm	260	MS66L 13/16"	13/16"	220
MS66L 23	23 mm	300	MS66L 7/8"	7/8"	350
MS66L 24	24 mm	310	MS66L 15/16"	15/16"	350
MS66L 26	26 mm	320	MS66L 1"	1"	420
MS66L 27	27 mm	350	MS66L 1-1/16"	1.1/16"	420
MS66L 28	28 mm	380	MS66L 1-1/8"	1.1/8"	425
MS66L 30	30 mm	420	MS66L 1-1/4"	1.1/4"	515
MS66L 32	32 mm	470			

Other dimensions available on request.

MS66 6 sided

INSULATED FEMALE HEXAGONAL SOCKET - 1/2" (12,7 MM) SQUARE DRIVE

EN 60900 / CEI 60900 / ISO 691 / ISO 1174-1 / ISO 1711-1 / ISO 2725-1



Ref.	Diameter	Weight (g)	Ref.	Diameter	Weight (g)
MS66 08 6P	8 mm	55	MS66 18 6P	18 mm	80
MS66 09 6P	9 mm	60	MS66 19 6P	19 mm	100
MS66 10 6P	10 mm	60	MS66 20 6P	20 mm	100
MS66 11 6P	11 mm	70	MS66 21 6P	21 mm	100
MS66 12 6P	12 mm	80	MS66 22 6P	22 mm	120
MS66 13 6P	13 mm	80	MS66 23 6P	23 mm	120
MS66 14 6P	14 mm	80	MS66 24 6P	24 mm	140
MS66 15 6P	15 mm	80	MS66 27 6P	27 mm	160
MS66 16 6P	16 mm	80	MS66 31 6P	31 mm	180
MS66 17 6P	17 mm	80			

Other dimensions available on request.



MS66L 6 sided

INSULATED FEMALE HEXAGONAL SOCKET, LONG SERIES, 1/2" (12,7 MM) SQUARE DRIVE

EN 60900 / CEI 60900 / ISO 691 / ISO 1174-1 / ISO 1711-1 / ISO 2725-1

Ref.	Diameter	Weight (g)
MS66L 10 6P	10 mm	140
MS66L 12 6P	12 mm	150
MS66L 13 6P	13 mm	150
MS66L 14 6P	14 mm	150
MS66L 16 6P	16 mm	150
MS66L 17 6P	17 mm	160
MS66L 18 6P	18 mm	170
MS66L 19 6P	19 mm	210
MS66L 20 6P	20 mm	220
MS66L 21 6P	21 mm	230
MS66L 22 6P	22 mm	260
MS66L 23 6P	23 mm	300
MS66L 24 6P	24 mm	310

Other dimensions available on request.



MS67

INSULATED MALE HEXAGONAL SOCKET - 1/2" (12,7 MM) SQUARE DRIVE

EN 60900 / CEI 60900 / ISO 1174-1 / ISO 2936

Ref.	Diameter	Weight (g)
MS67 04	4 mm	100
MS67 05	5 mm	100
MS67 06	6 mm	100
MS67 08	8 mm	100
MS67 10	10 mm	100
MS67 11	11 mm	120
MS67 12	12 mm	160
MS67 14	14 mm	160
MS67 17	17 mm	180
MS67 19	19 mm	220
MS67 1/4"	1/4"	100
MS67 5/16"	5/16"	100
MS67 3/8"	3/8"	100
MS67 1/2"	1/2"	160
MS67 5/8"	5/8"	170

MS69L

INSULATED 12-SIDED FEMALE SOCKET SET 1/2" SQUARE DRIVE, LONG SERIES

EN 60900 / IEC 60900



Ref.	Description	Weight (kg)
MS69L	Insulated 12-sided female socket set 1/2" square drive, long series	3,83
Contents:		
MS66L SET1	Set of 17 insulated 12-sided female sockets, long series, 1/2" (12,7 mm) square drive - 12 / 13 / 14 / 15 / 16 / 17 / 18 / 19 / 21 / 22 / 23 / 24 / 26 / 27 / 28 / 30 / 32 mm	
MS69LV	Plastic case 370 x 270 x 75 mm with foam	

MS69LP

INSULATED FEMALE HEXAGONAL SOCKET SET 1/2" SQUARE DRIVE, LONG SERIES

EN 60900 / IEC 60900

Ref.	Description	Weight (kg)
MS69LP	Insulated female hexagonal socket set 1/2" square drive, long series	3,96
Contents:		
MS66L 1/2"	Insulated 12-sided female socket, long series, 1/2" (12,7 mm) square drive 1/2"	
MS66L 5/8"	Insulated 12-sided female socket, long series, 1/2" (12,7 mm) square drive 5/8"	
MS66L 9/16"	Insulated 12-sided female socket, long series, 1/2" (12,7 mm) square drive 9/16"	
MS66L 11/16"	Insulated 12-sided female socket, long series, 1/2" (12,7 mm) square drive 11/16"	
MS66L 3/4"	Insulated 12-sided female socket, long series, 1/2" (12,7 mm) square drive 3/4"	
MS66L 13/16"	Insulated 12-sided female socket, long series, 1/2" (12,7 mm) square drive 13/16"	
MS66L 7/8"	Insulated 12-sided female socket, long series, 1/2" (12,7 mm) square drive 7/8"	
MS66L 15/16"	Insulated 12-sided female socket, long series, 1/2" (12,7 mm) square drive 15/16"	
MS66L 1"	Insulated 12-sided female socket, long series, 1/2" (12,7 mm) square drive 1"	
MS66L 1-1/16"	Insulated 12-sided female socket, long series, 1/2" (12,7 mm) square drive 1.1/16"	
MS66L 1-1/8"	Insulated 12-sided female socket, long series, 1/2" (12,7 mm) square drive 1.1/8"	
MS66L 1-1/4"	Insulated 12-sided female socket, long series, 1/2" (12,7 mm) square drive 1.1/4"	
MS69LV	Plastic case 370 x 270 x 75 mm with foam	



MS100N0

4-20 NM INSULATED REVERSIBLE RATCHET TORQUE WRENCH 3/8" SQUARE DRIVE

EN 60900 / CEI 60900 / EN 6789

Use: For precision tightening (left or right-handed thread) and for loosening bolts or nuts.

Inversion is made by inverting the toothed wheel on head of tool.

Adjustment of the tightening torque is made by turning the pivoting handle.

When the tightening torque is reached, the torque device trips at the optimum limit and resets automatically.

Technical specifications: Each tool is marked with a serial number for traceability and delivered with a calibration certificate.

Advice: Possibility to control and re-calibrate the tool in our factory (recommended every year).

Ref.	Square	Torque capacity (Nm)	Torque capacity (Lbft)	Length (mm)	Weight (g)
MS100N0	3/8"	4-20	3-15	235	490



MS100N0P

4-20 NM INSULATED REVERSIBLE RATCHET TORQUE WRENCH 3/8" SQUARE DRIVE WITH MECHANICAL LOCKING

EN 60900 / IEC 60900 / EN 6789

Use: For precision tightening (left or right-handed thread) and for loosening bolts or nuts. Inversion is made by inverting the toothed wheel on head of tool.

Adjustment of the tightening torque made by turning the rear handle.

Torque setting is made by turning the pivoting handle.

When the tightening torque is reached, the torque device trips at the optimum limit and resets automatically.

Specific model : the sockets and extensions remain interdependent to the spanner during use.

Technical specifications: Fast release of the socket by pushing the button on head of tool.

Each product marked with the above logo allows interchangeability between accessories from different manufacturers (sockets, extensions, ...).

The bearing located in the drive mechanism is specially designed to resist a torque of 500 Nm (= 50kg).

Advice: Possibility to control and re-calibrate the tool in our factory (recommended every year).



Ref.	Square	Torque capacity (Nm)	Torque capacity (Lbft)	Length (mm)	Weight (g)
MS100N0P	3/8"	4-20	3-15	230	500



MS100N1 3/8"

8-50 NM INSULATED REVERSIBLE RATCHET TORQUE WRENCH 3/8" SQUARE DRIVE

EN 60900 / IEC 60900 / EN 6789

Use: For precision tightening (left or right-handed thread) and for loosening bolts or nuts.

Inversion is made by inverting the toothed wheel on head of tool.

Adjustment of the tightening torque is made by turning the pivoting handle.

When the tightening torque is reached, the torque device trips at the optimum limit and resets automatically.

Technical specifications: Each tool is marked with a serial number for traceability and delivered with a calibration certificate.

Advice: Possibility to control and re-calibrate the tool in our factory (recommended every year).

Ref.	Square	Torque capacity (Nm)	Torque capacity (Lbft)	Length (mm)	Weight (g)
MS100N1 3/8	3/8"	8-50	5-40	340	820

Ratchet torque wrenches • 3/8"

Type of network: LV  MV  HV 

MS100V01

INSULATED TORQUE WRENCH 3/8" SET

EN 60900 / IEC 60900



Ref.	Description
MS100V01	Insulated torque wrench 3/8" set
Contents:	
MS100N1 3/8	8-50 Nm Insulated reversible ratchet torque wrench 3/8" square drive
MS84P	Short extension 3/8" square drive with mechanical locking
MS77L SET3	Set of 10 insulated female hexagonal sockets - 3/8" (9,53 mm) square drive - 08 / 09 / 10 / 12 / 13 / 14 / 16 / 17 / 18 / 19 / 21 mm
MS100VCV1	Plastic case 350 x 250 x 80 mm

MS100V02

INSULATED TORQUE WRENCH 3/8" SET

EN 60900 / IEC 60900



Ref.	Description
MS100V02	Insulated torque wrench 3/8" set
Contents:	
MS100N1 3/8	8-50 Nm Insulated reversible ratchet torque wrench 3/8" square drive
MS72JP130	Insulated T-wrench 3/8" square drive with mechanical locking 130 mm
MS84P	Short extension 3/8" square drive with mechanical locking
MS77L SET4	Set of 9 insulated female hexagonal sockets - 3/8" (9,53 mm) square drive - 8 / 10 / 13 / 14 / 16 / 17 / 18 / 19 / 21 mm
MS87 06	Insulated male hexagonal socket - 3/8" (9,53 mm) square drive 6 mm
MS100VCV2	Plastic case 370 x 270 x 75 mm



MS100N1 1/2"

8-50 NM INSULATED REVERSIBLE RATCHET TORQUE WRENCH 1/2" SQUARE DRIVE

EN 60900 / IEC 60900 / EN 6789

Use: For precision tightening (left or right-handed thread) and for loosening bolts or nuts.

Inversion is made by inverting the toothed wheel on head of tool.

Adjustment of the tightening torque is made by turning the pivoting handle.

When the tightening torque is reached, the torque device trips at the optimum limit and resets automatically.

Technical specifications: Each tool is marked with a serial number for traceability and delivered with a calibration certificate.

Advice: Possibility to control and re-calibrate the tool in our factory (recommended annually).

Ref.	Square	Torque capacity (Nm)	Torque capacity (Lbft)	Length (mm)	Weight (g)
MS100N1 1/2	1/2"	8-50	5-40	315	850



MS100N2 1/2"

30-150 NM INSULATED NON REVERSIBLE RATCHET TORQUE WRENCH 1/2" SQUARE DRIVE

EN 60900 / IEC 60900 / EN 6789

Use: For precision tightening (clockwise only) .

Adjustment of the tightening torque is made by turning the pivoting handle.

When the tightening torque is reached, the torque device trips at the optimum limit and resets automatically.

Technical specifications: Each tool is marked with a serial number for traceability and delivered with a calibration certificate.

Advice: Possibility to control and re-calibrate the tool in our factory (recommended annually).

Ref.	Square	Torque capacity (Nm)	Torque capacity (Lbft)	Length (mm)	Weight (g)	Réversible
MS100N2	1/2"	30-150	20-110	450	930	NO

Our selection!


IS80C

INSULATING KNIFE WITH CERAMIC BLADE

EN 60900 / IEC 60900

Use:

This tool doesn't cut metal strip.

-  **INSULATING knife: 100% safety.**
- Ergonomic tool.**
- Very light weight : easy to handle.**
- High cutting performance : accurate cutting, gesture control.**

Technical specifications:

Ceramic blades, contains absolutely no metal parts.
 Long-lasting performance: stainless ceramic blades, no wear, no sharpening.
 Hand guard to avoid hand slipping.
 Grip designed to improve handling.
 Protective cap to protect the operator and the blade when not in use. The cap is united to the handle to avoid loss.



Ref.	Length (mm)	Weight (g)
IS80C	200	60

IS77-IS78

INSULATED KNIFE WITH LONG BLADE

EN 60900 / IEC 60900

Use: Overhead and underground networks, indoor electrical installations.

Sharpening is recommended using sharpener A02.

Technical specifications: Stainless steel blade, insulation by injection.

The blade insulation is locked by 6 fixing points to ensure that both blade and insulation stay in place during the stripping operation.

Weighted handle for a good balance and to avoid the tool falling on the blade.

Slit on the guard to guide the tool during longitudinal cut.

Delivered in a soft case.



Ref.	Blade type	Blade length (mm)	Length (mm)	Weight (g)
IS77	Thick	62	180	100
IS78	Thin	64	175	100

IS79

INSULATED KNIFE WITH SHORT BLADE

EN 60900 / IEC 60900

Use: Designed for the stripping of small section cables.

Sharpening is recommended using sharpener A02.

Technical specifications: Stainless steel blade, insulation by injection.

The blade insulation is locked by 6 fixing points to ensure that both blade and insulation stay in place during the stripping operation.

Weighted handle for a good balance and to avoid the tool to fall on the blade.

Slit on the guard to guide the tool during longitudinal cut.

Delivered in a soft case.



Ref.	Blade length (mm)	Length (mm)	Weight (g)
IS79	40	160	100



A02

SHARPENING STEEL

Use: Used for the sharpening of any blade.

Technical specifications: This sharpening stone comes complete with a protective plastic handle.

Ref.	Length (cm)	Length (mm)	Weight (g)
A02	25	250	220

Hacksaws and scissors



IS22

INSULATED HACKSAW

EN 60900 / IEC 60900

Technical specifications: Each hacksaw is supplied complete with a blade, which is easily replaceable.

Arch in heat-treated forged steel, insulated by injection, one-piece design and adjustable.

The standard hacksaw frame is an injection moulded unit giving one of the most ergonomically designed hacksaws available.

Ref.	Blade	Length (mm)	Weight (g)
IS22	297 to 304 mm	450	740

Accessories:

L10 08D	Steel hacksaw spare blade 300 mm 8 teeth/cm
L10 10D	Steel hacksaw spare blade 300 mm 10 teeth/cm
L10 12D	Steel hacksaw spare blade 300 mm 12 teeth/cm
L15 8D	Steel hacksaw spare blade 300 mm 8 teeth/cm
L15 12D	Steel hacksaw spare blade 300 mm 12 teeth/cm



MS22J

INSULATED JUNIOR HACKSAW

EN 60900 / IEC 60900

Use: Used for more precise cutting, for cutting in confined areas or for applications that require a neater finish.

Technical specifications: Fully insulated steel frame with a 130 mm blade.

Ref.	Blade length (mm)	Length (mm)	Weight (g)
MS22J	130	263	150

Spare part(s):

L22J	Set of 12 spare blades
------	------------------------

MS2

ELECTRICIAN SCISSORS

Use: Recommended for cutting the filaments inside LV underground cables.

Warning : non-insulated tool.

 **Ambidextrous**
Special handle opening to be used comfortably with gloves

Technical specifications: Stainless steel, long nose, sharpened, with wire cut.




Ref.	Length (mm)	Weight (g)
MS2 132	132	80

MS2E

FULLY INSULATED ELECTRICIAN SCISSORS

EN 60900 / IEC 60900

 **Ambidextrous**
Special handle opening to be used comfortably with gloves.

Technical specifications: Stainless steel, long nose, sharp points, with wire cut.



Ref.	Description	Dimensions (mm)	Weight (g)
MS2E	Fully insulated electrician scissors	135 x 70 x 15	85
MS2ES	Fully insulated electrician scissors with protective cover ETC170	145 x 80 x 15	95

Accessories:

ETC170	Protective case 145 x 77 mm
---------------	-----------------------------



References	MS76S	MS76SR	MS79	MS79A	MS79ALG	MS790	MS76GM	MS76GMR	MS99SR	MS755
Type	RATCHET CABLE CUTTERS									
Opening (mm)	Ø32	Ø35	Ø43	Ø43	Ø45	Ø50	Ø52	Ø52	Ø52	Ø 55
Weight (g)	700	800	1120	1120	800	1150	800	1250	2900	1200
Length (mm)	260	260	270	270	265	290	285	285	400	290
Copper	yes 240 mm ²	yes 240 mm ²	yes 300 mm ²	yes 300 mm ²	yes 300 mm ²	yes 300 mm ²	yes 300 mm ²	yes 400 mm ²	yes	yes 400 mm ²
Aluminium	yes 300 mm ²	yes 300 mm ²	yes 400 mm ²	yes 400 mm ²	yes 300 mm ²	yes 300 mm ²	yes 300 mm ²	yes 400 mm ²	yes	yes 450 mm ²
Almelec (54,6 and 70 mm ²)	no	no	yes	yes	yes	yes	yes	yes	yes	yes
Steel	no	no	no	no	no	yes Ø11 mm	no	no	yes 150 mm ²	no
CABLE TYPES	LV cables : 3 x 50 ² + 50 ² MV cables : 1 x 50 ²	LV cables : 3 x 50 ² + 50 ² MV cables : 1 x 50 ²	LV cables : 3 x 95 mm ² + 50 mm ² 3 x 150 mm ² + 150 mm ² MV cables : 1 x 240 mm			Overhead cables : 3 x 150 ² + 70 ² Underground cables : 3 x 150 ² + 150 ² ACSR : Ø 17 mm	LV cables : 3 x 150 ² + 70 ² 3 x 240 ² + 95 ² MV cables : 1 x 240 ²	Guy-wire Ø 12 mm Suspension cable Ø 10 mm LV cable : 3 x 240 ² + 95 ² LV cable : 3 x 150 ² + 70 ² MV cable : 1 x 240 ² ACSR : Ø 50 mm	LV cables : 3 x 150 mm ² + 70 mm ² Almelec 3 x 240 mm ² + 95 mm ² MV cables : 1 x 240 mm ²	

Cable cutters • Selection guide

Type of network: LV  MV  HV 



MS755R	MS796M	MS780	MS46	MS46S	MS61	MS78	MS25NM	MS49	MS29D
---------------	---------------	--------------	-------------	--------------	-------------	-------------	---------------	-------------	--------------

			RATCHET CABLE CUTTERS END CUTTING		SHEAR TYPE CABLE CUTTERS				BOLT CUTTERS
--	--	--	-----------------------------------	--	--------------------------	--	--	--	--------------

Ø 55	Ø60	Ø 80	Ø34	Ø35	Ø16	Ø20	Ø30	Ø30	Ø10
1550	2030	3700	1050	1350	2550	3200	2600	3400	1760
310	345	590	330	320	600	660	600	500	465
yes 470 mm ²	yes 750 mm ²	yes 840 mm ²	yes 240 mm ²	yes 300 mm ²	yes	yes	yes	yes	yes
yes 520 mm ²	yes 750 mm ²	yes 1000 mm ²	yes 320 mm ²	yes 240 mm ²	yes	yes	yes	yes	yes
yes	yes	yes	no	yes	yes	yes	no	no	yes
no	no	no	no	no	yes	yes Ø8 mm	no	no	yes

LV cables : 3 x 150 mm ² + 70 mm ² Almelec 3 x 240 mm ² + 95 mm ² MV cables : 1 x 240 mm ²	LV cables : 3 x 240 ² + 95 ² MV cables : 1 x 630 ²	Flexible copper cables : 630 ² Multi-core copper/ aluminium cables : 840 ² Multi-core copper sector cables : 3 x 240 ² Multi-core aluminium sector cables : 4 x 240 ²	Cu = 240 mm ² max. Alu = 300 mm ² max.	Underground cables up to 240 ² or 3 x 95 ² + 50 ²	copper/mild steel : Ø 16 mm hard steel Ø 10 mm	See above	185 mm ² max.	LV cables : 4 x 35 mm ²	Steel : 60 kg/mm ² = Ø 9 mm Steel : 80 kg/mm ² = Ø 8 mm
---	---	--	---	--	--	-----------	-----------------------------	---------------------------------------	--



MS76S

INSULATED RATCHET CABLE CUTTER Ø 32 MM

EN 60900 / IEC 60900

Technical specifications: Cutting capacity:

LV cables : 3 x 50 mm² + 50 mm²

MV cables : 1 x 50 mm²

Ref.	Opening	Length (mm)	Copper	Aluminium	Steel	Almelec	Weight (g)
MS76S	32 mm	260	240 mm ²	300 mm ²	NO	NO	740
Spare part(s):							
MS76SMF	Spare fixed jaw						
MS76SMM	Spare movable jaw						

Overall length tolerance : 5 mm of the nominal value.



Our selection!

MS76SR

INSULATED RATCHET CABLE CUTTER Ø 35 MM

EN 60900 / IEC 60900

Technical specifications:

Cutting capacity :

LV cables : 3 x 50 mm² + 50 mm²

MV cables : 1 x 50 mm²

Ref.	Opening	Length (mm)	Copper	Aluminium	Steel	Almelec	Weight (g)
MS76SR	35 mm	260	240 mm ²	300 mm ²	NO	NO	740

Overall length tolerance : ± 5 mm of the nominal value.



MS79 - MS79A

INSULATED RATCHET CABLE CUTTER Ø 43 MM

EN 60900 / IEC 60900

Use: Ratchet cable cutter MS79A is specially designed for Almelec cables.

Technical specifications: Cutting capacity :

LV cables : 3 x 150 mm² + 70 mm²

3 x 150 mm² + 150 mm²

MV cables : 1 x 240 mm²

Optional soft cover on request.

Ref.	Opening	Length (mm)	Copper	Aluminium	Almelec	Steel	Weight (g)
MS79	43 mm	270	300 mm ²	400 mm ²	NO	NO	1120
MS79A	43 mm	270	300 mm ²	400 mm ²	70 mm ²	NO	1120
Spare part(s):							
MS79MF	Spare fixed jaw						
MS79MM	Spare movable jaw						

Overall length tolerance : ± 5 mm of the nominal value.

Cable cutters • Ratchet cable cutters

Type of network: LV  MV  HV 

MS79ALG

INSULATED RATCHET CABLE CUTTER Ø 45 MM

 Lighter version and more compact.

Technical specifications: Cutting capacity :

LV cables : 3 x 150 mm² + 70 mm²
 3 x 150 mm² + 150 mm²
 MV cables : 1 x 240 mm²



Ref.	Opening	Length (mm)	Copper	Aluminium	Almelec	Steel	Weight (g)
MS79ALG	Ø 45 mm	265	300 mm ²	300 mm ²	70 mm ²	NO	800

Overall length tolerance : ± 5 mm of the nominal value.

MS790

INSULATED RATCHET CABLE CUTTER FOR STEEL CABLE

EN 60900 / IEC 60900

Use: Cable cutter with changeable cutting segments (active part).

Fast and easy to change blades.

Technical specifications: LV aerial bundled connectors NFC 33-209 : 3 x 150 mm² + 70 mm²
 H1 XDV-A cable underground network (distribution) NFC 33-210 : 3 x 150 mm² + 150 mm²



Ref.	Length (mm)	Copper	Strengthened aluminium (ACSR)	Aluminium	Steel	Weight (g)
MS790	290	300 mm ²	Ø 17 mm	300 mm ²	Ø 11 mm	1350

Spare part(s):

MS790JCL Set of 2 cutting segments

Overall length tolerance : ± 5 mm of the nominal value.

MS76GM

INSULATED RATCHET CABLE CUTTER Ø 52 MM

EN 60900 / IEC 60900

Technical specifications: Cutting capacity :

LV cables : 3 x 150 mm² + 70 mm²
 3 x 240 mm² + 95 mm²
 MV cables : 1 x 240 mm²



Ref.	Opening	Length (mm)	Copper	Aluminium	Almelec	Steel	Weight (g)
MS76GM	52 mm	285	300 mm ²	300 mm ²	NO	NO	900

Overall length tolerance : ± 5 mm of the nominal value.



MS76GMR

INSULATED RATCHET CABLE CUTTER Ø 52 MM

EN 60900 / IEC 60900

Technical specifications: Strengthened ratchet.

Cutting capacity :

LV cables : 3 x 240 mm² + 95 mm²

MV cables : 240 mm² HN type

Ref.	Opening	Length (mm)	Copper	Aluminium	Almelec	Steel	Weight (g)
MS76GMR	52 mm	285	400 mm ²	400 mm ²	YES	NO	1250

Overall length tolerance : ± 5 mm of the nominal value.



MS99SR

INSULATED RATCHET CABLE CUTTER Ø 52 MM

EN 60900 / IEC 60900

Technical specifications: Cutting capacity :

Guy-wire Ø 12 mm

Suspension cable Ø 10 mm

LV cable : 3 x 240 mm² + 95 mm²

LV cable : 3 x 150 mm² + 70 mm²

MV cable : 1 x 240 mm²

Ref.	Opening	Length (mm)	Weight (g)
MS99SR	52 mm	400	2700

Overall length tolerance : ± 5 mm of the nominal value.

New!



MS755

INSULATED RATCHET CABLE CUTTER Ø 55 MM

EN 60900 / IEC 60900

Technical specifications:

Cutting capacity :

LV cables : 3 x 150 mm² + 70 mm² Almelec

3 x 240 mm² + 95 mm²

MV cables : 1 x 240 mm²

Ref.	Opening	Length (mm)	Copper	Aluminium	Steel	Almelec	Weight (g)
MS755	Ø 55 mm	290	400 mm ²	450 mm ²	NO	54,6 and 70 mm ²	1200

Overall length tolerance : ± 5 mm of the nominal value.

New!

MS755R

INSULATED RATCHET CABLE CUTTER Ø 55 MM

EN 60900 / IEC 60900

Technical specifications:

Cutting capacity :

LV cables : 3 x 150 mm² + 70 mm² Almelec
3 x 240 mm² + 95 mm²

MV cables : 1 x 240 mm²



Ref.	Opening	Length (mm)	Copper	Aluminium	Steel	Almelec	Weight (g)
MS755R	Ø 55 mm	310	470 mm ²	520 mm ²	NO	54,6 and 70 mm ²	1550

Overall length tolerance : ± 5 mm of the nominal value.

MS79GM

INSULATED RATCHET CABLE CUTTER Ø 60 MM

EN 60900 / IEC 60900

Technical specifications: Cutting capacity :

LV cables : 3 x 240 mm² + 95 mm²

MV cables : 1 x 630 mm²



Ref.	Opening	Length (mm)	Copper	Aluminium	Almelec	Steel	Weight (g)
MS79GM	60 mm	350	750 mm ²	750 mm ²	YES	NO	2000

Overall length tolerance : ± 5 mm of the nominal value.

New!

MS780

INSULATED RATCHET CABLE CUTTER Ø 80 MM

EN 60900 / IEC 60900

Technical specifications:

Cutting capacity :

Flexible copper cables : 630 mm²

Multi-core copper/aluminium cables : 840 mm²

Multi-core copper sector cables : 3 x 240 mm²

Multi-core aluminium sector cables : 4 x 240 mm²



Ref.	Opening	Length (mm)	Copper	Aluminium	Steel	Almelec	Weight (g)
MS780	Ø 80 mm	590	840 mm ²	1000 mm ²	NO	54,6 and 70 mm ²	3700

Overall length tolerance : ± 5 mm of the nominal value.



MS46

INSULATED RATCHET CABLE CUTTER Ø 30 MM (END CUTTING)

EN 60900 / IEC 60900

Use: Recommended for underground networks.

Technical specifications: Used for cables :

- HN33S33BR : 4 x 35 mm²
- HN33S32 : 3 x 50 mm² + 502 HN33S23 : 1 x 50 mm²
- HN33S22 : 1 x 95 mm²
- HN33S33BR : 4 x 50 mm²

For maximum protection, this tool can be used with a wedge with groove 5544E.

Ref.	Opening	Length (mm)	Copper	Aluminium	Almelec	Steel	Weight (g)
MS46	34 mm	330	240 mm ²	320 mm ²	NO	NO	1050
Spare part(s):							
MS46MM	Spare movable jaw						
MS46MF	Spare fixed jaw						

Overall length tolerance : ± 5 mm of the nominal value.



MS46C

INSULATED RATCHET CABLE CUTTER Ø 35 MM (END CUTTING) WITH PROTECTIVE HEAD COVER

EN 60900 / IEC 60900

Use: Used for cables :

- HN33S33BR : 4 x 35 mm²
- HN33S32 : 3 x 50 mm² + 502 HN33S23 : 1 x 50 mm²
- HN33S22 : 1 x 95 mm²
- HN33S33BR : 4 x 50 mm²

Technical specifications: Cable cutter equipped with a dismantlable clear protective head cover. Limits the risk of short-circuiting and protects the mechanism.

Ref.	Opening	Length (mm)	Copper	Aluminium	Almelec	Steel	Weight (g)
MS46C	34 mm	330	240 mm ²	320 mm ²	NO	NO	1200
Spare part(s):							
MS46MF	Spare fixed jaw						
MS46MM	Spare movable jaw						

Overall length tolerance : 5 mm of the nominal value.



MS46S

INSULATED RATCHET CABLE CUTTER Ø 35 MM (END CUTTING)

EN 60900 / IEC 60900

Technical specifications: Cutting capacity :

Cables NF C 33-210 up to 240 mm².

For maximum protection, this tool can be used with a wedge with groove 5544E.

Ref.	Opening	Length (mm)	Copper	Aluminium	Almelec	Steel	Weight (g)
MS46S	35 mm	320	300 mm ²	240 mm ²	YES	NO	1300
Spare part(s):							
MS46SM	Spare movable jaw						

Overall length tolerance : ± 5 mm of the nominal value.

Cable cutters • Ratchet cable cutters end cutting

Type of network: LV  MV  HV 

5049 

INSULATED RATCHET CABLE CUTTER Ø 25 MM WITH INSULATING HEAD COVER

EN 60900 / IEC 60900

Technical specifications: For maximum protection, this tool can be used with a wedge with groove 5544E.



Ref.	Opening	Length (mm)	Aluminium	Copper	Almelec	Steel	Weight (g)
5049	25 mm	290	300 mm ²	240 mm ²	NO	NO	1200

Shear type cable cutters

MS61 

INSULATED SHEAR TYPE CABLE CUTTER Ø 16 MM

EN 60900 / IEC 60900

Technical specifications: Cutting capacity :
LV cables NF C



Ref.	Opening	Length (mm)	Copper	Aluminium	Almelec	Steel	Weight (g)
MS61	16 mm	630	Ø 14 mm	Ø 14 mm	Ø 14 mm	Ø 14 mm (160 kg/mm ²) Ø 7mm (190 kg/mm ²) Ø 6 mm (210 kg/mm ²)	2550

Overall length tolerance : ± 5 mm of the nominal value.

MS78 

INSULATED SHEAR TYPE CABLE CUTTER Ø 20 MM

EN 60900 / IEC 60900



Ref.	Opening	Length (mm)	Copper	Aluminium	Almelec	Steel	Weight (g)
MS78	20 mm	660	NO	Ø 12 mm	Ø 12 mm	Ø 8 mm	2870

Overall length tolerance : ± 5 mm of the nominal value.



MS25NM

INSULATED SHEAR TYPE CABLE CUTTER Ø 30 MM

EN 60900 / IEC 60900

Ref.	Opening	Length (mm)	Copper	Aluminium	Almelec	Steel	Weight (g)
MS25NM	30 mm	590	185 mm ²	185 mm ²	NO	NO	2600

Spare part(s):

MS25B	Insulated movable handle
MS25LF	Spare fixed jaw
MS25LS	Spare movable jaw

Overall length tolerance : ± 5 mm of the nominal value.



MS49

PARROT BEAK CABLE CUTTER Ø 30 MM

EN 60900 / IEC 60900

Technical specifications: Cutting capacity :

LV cables : 4 x 35 mm²

Ref.	Opening	Length (mm)	Copper	Aluminium	Almelec	Steel	Weight (g)
MS49	30 mm	475	flexible core : Ø 30 mm / rigid core : Ø 10 mm	flexible core : Ø 30 mm / rigid core : Ø 10 mm	NO	NO	2900

Overall length tolerance : ± 5 mm of the nominal value.

Bolt cutter



MS29D

INSULATED BOLT CUTTER

EN 60900 / CEI 60900

Technical specifications: Adjustment made by eccentric screw.

Interchangeable jaws.

Double heat treatment of the blades.

Ref.	Opening	Length (mm)	Copper	Almelec	Steel	Weight (g)
MS29D	Ø 10 mm	465	Ø 10 mm	Ø 10 mm	Ø 9 mm (60 kg/mm ²) Ø 8 mm (80 kg/mm ²)	1760

Spare part(s):

MS29DM	Spare movable jaw
---------------	-------------------

Overall length tolerance : ± 5 mm of the nominal value.

Separators for insulated connectors

Type of network: LV  MV  HV 

5544E

INSULATING SEPARATOR WITH GROOVE

Use: Designed for moving apart and protecting the cable during the use of a cable cutter.

⚡ Safety : the groove made in the separator allows an accurate guide of the cable cutter blades.



Ref.	Dimensions (mm)	Weight (g)
5544E	225 x 45 x 28	240

TE04

INSULATING WEDGE SEPARATOR

Use: This insulating wedge separator is used for separating a conductor in ABC overhead cable or an underground cable in order to enable a localized operation on this conductor.

Technical specifications: The insulating wedge separator is composed of 2 wedges linked with a 1 meter long cord.

Each black wedge is made of strong synthetic material, resisting to UV rays, bumps and freeze.

2 spaces are possible:

- 2 cm : for connector installation,

- 4 cm : for installation of anchoring and pulling devices.

A hole at the extremity enables insertion of a tool to make the rotation through 90° easier, permitting the separation from 2 to 4 cm.

Very smooth ribs and a slight penetration angle make wedge insertion in the cable easier.



Ref.	Dimensions (mm)	Weight (g)
TE04	225 x 50 x 25	360

TE05

SET OF 2 PHASE SEPARATORS

Use: Used to spread cable phases in order to separate them.

Technical specifications: Consists in 2 cams operated by handle linked to a 1m cord.

Capacity : 25 to 150 mm².



Ref.	Dimensions (mm)	Weight (g)
TE05	180 x 80 x 60	265

TC120

INSULATING WEDGE

Use: Both wedge sides have 4 half-rounded grooves to separate the conductors of aerial bundled cables.

Technical specifications: Made of polyamide 6.



Ref.	Dimensions (mm)	Weight (g)
TC120	150 x 55 x 35	110



TL05

INSULATING LEVER

Use: Allows to :

- Lift moulding covers and separate them from their base
- Remove the lead sheath on cable of which the end has been unstuck with TP75 insulating gouge.

Technical specifications: Lever made of reinforced fibreglass with curved and beveled end.

Ref.	Length (mm)	Weight (g)
TL05	190	41



TP72

INSULATING POINTED CHISEL

Use: For working on underground power lines, it is used for breaking open the insulating coating on some fittings during dismantling and removing conducting parts such as connectors.

Insulating handle in synthetic material, special removable steel tip Ø 20 mm.

Ref.	Length (mm)	Weight (g)
TP72	270	80



TP75

INSULATING GOUGE

Use: For working on underground power lines and inside electrical installations, it is used for lifting and opening sheath along a previously made slot.

Technical specifications: Reinforced fibreglass tool with a beveled end.

Ref.	Dimensions (mm)	Weight (g)
TP75	125 x 20 x 2	15



Without

TWIST90°-50/300

BENDING TOOL FOR 50 TO 300 MM² SOLID ALUMINIUM CONDUCTOR UNDERGROUND CABLES

EN 60900 / IEC 60900

Use:

Bending tool for 50 to 300 m² solid aluminium conductor underground cables.

+ 1 tool for 8 phase cross-sections
Compact
Lightweight

Technical specifications:

Insulating tool : fully non-metallic

Cross sections : 50 mm² - 70 mm² - 95 mm² - 120 mm² - 150 mm² - 185 mm² - 240 mm² - 300 mm²

Ref.	Dimensions (mm)	Weight (g)
TWIST90°-50/300	250 x 56 x 30	190

Electronics hand tools

Type of network: LV  MV  HV 

ML281

INSULATED LONG FLAT NOSE PLIERS

EN 60900 / IEC 60900 / ISO 8979



Ref.	Length (mm)	Length (in)	Weight (g)
ML281 140	140	5,5	56

Overall length tolerance : ± 5 mm of the nominal value.

ML282

INSULATED HALF-ROUND SHORT NOSE PLIERS

EN 60900 / IEC 60900 / ISO 8979



Ref.	Length (mm)	Length (in)	Weight (g)
ML282 125	125	5	152

Overall length tolerance : ± 5 mm of the nominal value.

ML283

INSULATED HALF-ROUND STRAIGHT LONG NOSE PLIERS

EN 60900 / IEC 60900 / ISO 8979



Ref.	Length (mm)	Length (in)	Weight (g)
ML283 140	140	5,5	70

Overall length tolerance : ± 5 mm of the nominal value.

ML283BIS

INSULATED HALF-ROUND BENT LONG NOSE PLIERS

EN 60900 / IEC 60900 / ISO 8979



Ref.	Length (mm)	Length (in)	Weight (g)
ML283BIS 135	135	5,5	70

Overall length tolerance : ± 5 mm of the nominal value.



ML285 
INSULATED ROUND NOSE PLIERS
 EN 60900 / IEC 60900 / ISO 8979

Ref.	Length (mm)	Length (in)	Weight (g)
ML285 125	125	5	70

Overall length tolerance : ± 5 mm of the nominal value.



ML288 
INSULATED DIAGONAL BEVELED CUTTING PLIERS
 EN 60900 / IEC 60900 / ISO 8979
Technical specifications: Cutting capacity:
 - Copper Ø 0,5 mm / Ø 1 mm / Ø 1,5 mm
 - Steel 160 kg/mm² : Ø 0,8 mm

Ref.	Length (mm)	Length (in)	Weight (g)
ML288 110	110	4,5	70

Overall length tolerance : ± 5 mm of the nominal value.



ML289 
INSULATED DIAGONAL FLUSH CUTTING PLIERS
 EN 60900 / IEC 60900 / ISO 8979
Technical specifications: Cutting capacity :
 Copper : Ø 1,2 mm.

Ref.	Length (mm)	Length (in)	Weight (g)
ML289 110	110	4,5	110

Overall length tolerance : ± 5 mm of the nominal value.



ML291 
INSULATED DIAGONAL FLUSH CUTTING PLIERS, WITH REDUCED NOSES
 EN 60900 / IEC 60900

Ref.	Length (mm)	Length (in)	Weight (g)
ML291	110	4	60

Overall length tolerance : ± 5 mm of the nominal value.

Electronics hand tools

Type of network: LV  MV  HV 

ML301

INSULATED END CUTTING PLIERS

EN 60900 / IEC 60900



Ref.	Length (mm)	Length (in)	Weight (g)
ML301 115	115	4,5	80

Overall length tolerance : ± 5 mm of the nominal value.

ML292

INSULATING STRIPPING PLIERS

EN 60900 / IEC 60900 / ISO 8979

Technical specifications: Stripping capacity :
Copper \varnothing 1,5 mm.



Ref.	Length (mm)	Length (in)	Weight (g)
ML292 135	135	5,5	66

Overall length tolerance : ± 5 mm of the nominal value.

ML23

SET OF 8 INSULATED BENT MALE HEX KEYS ON RING CLIP

EN 60900 / IEC 60900 / ISO 8979

Technical specifications: Vanadium chrome or heat-treated steel .
Set of 90° bent keys for hex socket screws.
Suitable for micro-mechanics and electronics (keys of 1,5 - 2 - 2,5 - 3 - 4 - 5 - 6 and 8 mm)



Ref.	Weight (g)
ML23	200

Overall length tolerance : ± 5 mm of the nominal value.

ML16

INSULATED SINGLE OPEN ENDED SPANNER

EN 60900 / IEC 60900



Ref.	Diameter (mm)	Length (mm)	Weight (g)
ML16 03	3	88	15
ML16 03,5	3,5	88	15
ML16 04	4	89	15
ML16 04,5	4,5	89	15
ML16 05	5	89	15
ML16 05,5	5,5	89	20
ML16 06	6	100	20
ML16 07	7	105	20
ML16 08	8	109	20
ML16 09	9	109	20

Overall length tolerance : ± 5 mm of the nominal value.



ML36

INSULATED FEMALE HEXAGONAL RADIO KEY

EN 60900 / IEC 60900

Ref.	Diameter (mm)	Weight (g)
ML36 03	3	30
ML36 03,5	3,5	30
ML36 04	4	35
ML36 04,5	4,5	35

Overall length tolerance : ± 5 mm of the nominal value.



ML56

INSULATED SCRAPING PLIERS FOR VARNISHED WIRES

EN 60900 / IEC 60900 / ISO 8979

Use: For stripping lacquered or varnished 0,1 to 0,8 mm diameter wires.

Ref.	Length (mm)	Weight (g)
ML56	135	36

Overall length tolerance : ± 5 mm of the nominal value.



MLC18

INSULATED MINIATURE PHILLIPS SCREWDRIVER N° 00

EN 60900 / IEC 60900

Ref.	a x l	Weight (g)
MLC18 02X25	2 x 108 mm	20



ML18

INSULATED MINIATURE SCREWDRIVER FOR SLOTTED SCREWS

EN 60900 / IEC 60900

Ref.	a x l	Weight (g)
ML18 01,2X75	1,2 x 75 mm	10
ML18 01,6X80	1,6 x 80 mm	15

VLE

LABORATORY SET WITH 31 SAFETY MICRO TOOLS



Ref.	Description
VLE	Laboratory set with 31 safety micro tools
Contents:	
ML281 140	Insulated long flat nose pliers
ML282 125	Insulated half-round short nose pliers
ML283 140	Insulated half-round straight long nose pliers
ML283BIS 135	Insulated half-round bent long nose pliers
ML285 125	Insulated round nose pliers
ML288 110	Insulated diagonal beveled cutting pliers
ML289 110	Insulated diagonal flush cutting pliers
ML291	Insulated diagonal flush cutting pliers, with reduced noses
ML292 135	Insulating stripping pliers
ML301 115	Insulated end cutting pliers
MLC18 02X25	Insulated miniature Phillips screwdriver n° 00
MU18NM 230	Fixe-vis non magnétique isolé longueur 230 mm
ML56	Insulated scraping pliers for varnished wires
ML23	Set of 8 insulated bent male hex keys on ring clip
ML16 03	Insulated single open ended spanner 3 mm
ML16 03,5	Insulated single open ended spanner 3,5 mm
ML16 04	Insulated single open ended spanner 4 mm
ML16 04,5	Insulated single open ended spanner 4,5 mm
ML16 05	Insulated single open ended spanner 5 mm
ML16 05,5	Insulated single open ended spanner 5,5 mm
ML16 06	Insulated single open ended spanner 6 mm
ML16 07	Insulated single open ended spanner 7 mm
ML16 08	Insulated single open ended spanner 8 mm
ML16 09	Insulated single open ended spanner 9 mm
ART162	Plastic toolbox 515 x 287 x 275 mm



TB26

BRUSH FOR ALUMINIUM CONDUCTOR WIRE

Use: For scrubbing conductor wire by direct contact.

Technical specifications: Insulated body on which is attached a handle brush.

Ref.	Dimensions (mm)	Weight (g)
TB26	170 x 30 x 25	90



TC56

INSULATED WRENCH FOR RING CONNECTORS

Use: For tightening or loosening low-voltage ring connectors and ring accessories

Technical specifications: Insulating tube
Notched metallic head with retractable steel hook
Corrosion resistant steel

Ref.	Dimensions (mm)	Weight (g)
TC56	250 x 23 mm	225



TE60

FUSE EXTRACTOR

Use: For screwing and unscrewing fuseholders or terminal bars.

Technical specifications: Insulated handle fitted with 2 reversal metal hooks at one end and a spring piston at the other end.
For holding 14x51 and 22x58 HPC cartridges.

Ref.	Length (mm)	Weight (g)
TE60	170	80

S318RV

SET OF 12 TOOLS



Ref.	Description
S318RV	Set of 12 tools
Contents:	
RL1-PL-3X100	Insulated slotted screwdriver 3 x 100 mm Rotoline Classic
RL1-PL-4X120	Insulated slotted screwdriver 4 x 120 mm Rotoline Classic
RL1-PL-55X150	Insulated slotted screwdriver 5,5 x 150 mm Rotoline Classic
RL1-PL-8X150	Insulated slotted screwdriver 8 x 150 mm Rotoline Classic
RL1-PH-5X100	Insulated Phillips screwdriver n°1 - 5 x 100 mm Rotoline Classic
RL1-PH-6X125	Insulated Phillips screwdriver n°2 - 6 x 125 mm Rotoline Classic
RL1-PH-8X150	Insulated Phillips screwdriver n°3 - 8 x 150 mm Rotoline Classic
IS79	Insulated knife with short blade
MS4 185	Insulated universal pliers 185 mm
MC11CE	Insulating composite flat nose pliers with ceramic blades
MS43 175	Insulated stripping pliers 175 mm
MS5 175	Insulated diagonal cutting pliers 175 mm
MS26 250	Insulated slip-joint pliers 250 mm
S31	Holdall soft case



TS338RV

LOW VOLTAGE TOOL SET



Ref.	Description
TS338RV	Low Voltage tool set
Contents:	
RL1-PL-3X100	Insulated slotted screwdriver 3 x 100 mm Rotoline Classic
RL1-PL-4X120	Insulated slotted screwdriver 4 x 120 mm Rotoline Classic
RL1-PL-55X150	Insulated slotted screwdriver 5,5 x 150 mm Rotoline Classic
RL1-PL-8X150	Insulated slotted screwdriver 8 x 150 mm Rotoline Classic
RL1-PZ-5X100	Insulated Pozidriv screwdriver n°1 - 5 x 100 mm Rotoline Classic
RL1-PZ-6X125	Insulated Pozidriv screwdriver n°2 - 6 x 125 mm Rotoline Classic
IS79	Insulated knife with short blade
MC4CE	Insulating composite universal pliers with ceramic blades
MS5 175	Insulated diagonal cutting pliers 175 mm
MS43 175	Insulated stripping pliers 175 mm
MS89V02	Insulated socket set 3/8" - 17 tools with ratchet spanner and extension
TAG780RIFE	LV voltage detector TAG780, with phase rotation indication and IP2X probe tips
E20	Electrician face shield with headband and brow-guard
GLB00-36-09	Insulating latex gloves 36 cm class 00 size 09
TS33N	Tool bag in black split leather
SGB	Leather overgloves size B
TS10	Canvas storage bag for electrician's gloves
TC25 X5	Set of 5 LV insulating caps for conductor ends from 3 to 10 mm ²
TN17 0,66M	Insulating sheet with adhesive strips 0,66 x 0,36 m
TP60P x5	Set of 6 plastic clips for insulating sheets and bands
TTCL3 0,6X1	Insulating mat class 3 - 0,6 x 1 m

TS270

LOW VOLTAGE TOOL SET



Ref.	Description
TS270	Low Voltage tool set
Contents:	
RL1-PH-4X150	Insulated Phillips screwdriver n°0 - 4 x 150 mm Rotoline Classic
RL1-PH-6X125	Insulated Phillips screwdriver n°2 - 6 x 125 mm Rotoline Classic
RL1-PH-8X150	Insulated Phillips screwdriver n°3 - 8 x 150 mm Rotoline Classic
RL1-PL-4X120	Insulated slotted screwdriver 4 x 120 mm Rotoline Classic
RL1-PL-55X150	Insulated slotted screwdriver 5,5 x 150 mm Rotoline Classic
RL1-PL-10X150	Insulated slotted screwdriver 10 x 150 mm Rotoline Classic
MS4 185	Insulated universal pliers 185 mm
MC45I	Insulating composite cutting pliers
MS76S	Insulated ratchet cable cutter Ø 32 mm
MC11CE	Insulating composite flat nose pliers with ceramic blades
MS5 175	Insulated diagonal cutting pliers 175 mm
MS43 175	Insulated stripping pliers 175 mm
MS27 250	Insulated double slip-joint adjustable pliers 250 mm
MS53 J46	Insulated fuse extractor pliers 210 mm
IS79	Insulated knife with short blade
IS36 SET1	Set of 3 insulated hexagonal nut drivers - 8 / 9 / 10 mm
M115 160G	Electrician's hammer with Hickory shaft 160 g
C214	Cabinet key
TC25 X5	Set of 5 LV insulating caps for conductor ends from 3 to 10 mm ²
TC30 X5	Set of 5 LV insulating caps for conductor ends from 6 to 35 mm ²
TP71	Support rods for current meter panels
D60	Insulating plastic folding rules
TP60P x6	Set of 6 plastic clips for insulating sheets and bands
TC151P	Removable handle for fuses
GLB0-36-09	Gants latex isolants classe 00 36 cm taille 09
TS10T	Powder flask
TS10	Canvas storage bag for electrician's gloves
SGB	Leather overgloves size B
TS27V	Split leather bag



TS280

LOW VOLTAGE TOOL SET

Ref.	Description
TS280	Low Voltage tool set
Contents:	
RL1-PL-4X120	Insulated slotted screwdriver 4 x 120 mm Rotoline Classic
RL1-PL-55X150	Insulated slotted screwdriver 5,5 x 150 mm Rotoline Classic
RL1-PL-10X150	Insulated slotted screwdriver 10 x 150 mm Rotoline Classic
RL1-PH-4X150	Insulated Phillips screwdriver n°0 - 4 x 150 mm Rotoline Classic
RL1-PH-6X125	Insulated Phillips screwdriver n°2 - 6 x 125 mm Rotoline Classic
RL1-PH-8X150	Insulated Phillips screwdriver n°3 - 8 x 150 mm Rotoline Classic
MS4 185	Insulated universal pliers 185 mm
IS36 SET1	Set of 3 insulated hexagonal nut drivers - 8 / 9 / 10 mm
MC45I	Insulating composite cutting pliers
MS76S	Insulated ratchet cable cutter Ø 32 mm
MS16 SET1	Set of 8 insulated single open ended spanners - 7 / 8 / 10 / 12 / 13 / 14 / 17 / 19 mm
MC11CE	Insulating composite flat nose pliers with ceramic blades
MS5 175	Insulated diagonal cutting pliers 175 mm
MS23 SET3	Set of 4 insulated male hex keys 90° bent - 3 / 5 / 6 / 8 mm
MS43 175	Insulated stripping pliers 175 mm
MS53 J46	Insulated fuse extractor pliers 210 mm
MS27 250	Insulated double slip-joint adjustable pliers 250 mm
IS79	Insulated knife with short blade
MS89V07	Dotation clé à cliquet carré 3/8'
MS7 260	Insulated adjustable spanner 260 mm
SFEKDCM	Kit de condamnation pour disjoncteurs modulaires BT
C214	Cabinet key
M115 160G	Electrician's hammer with Hickory shaft 160 g
TC151P	Removable handle for fuses
D60	Insulating plastic folding rules
TTCL3 0,6X1	Insulating mat class 3 - 0,6 x 1 m
TP71	Support rods for current meter panels
TS28V	Electrician leather bag
TP105 1,5M x5	5 profilés isolants 1,5 m pour conducteur BT
TS707	Canvas bag for insulating mats length 700 mm
TS28H	Holdall bag
TN15	Insulating tape
TN17 0,66M x2	2 nappes Velcro isolantes 0,66 x 0,36 m
TP60P x6	Set of 6 plastic clips for insulating sheets and bands
TC25 X5	Set of 5 LV insulating caps for conductor ends from 3 to 10 mm ²
TC30 X5	Set of 5 LV insulating caps for conductor ends from 6 to 35 mm ²
S570SAFE	3 LED headlamp
E20	Electrician face shield with headband and brow-guard
GLB0-36-09	Gants latex isolants classe 00 36 cm taille 09
TS10T	Powder flask
S505	Polypropylene tool box
SGB	Leather overgloves size B
TS10	Canvas storage bag for electrician's gloves

KITSO-01

SET OF 5 TOOLS IN TRANSPORT CASE

Technical specifications: Storage space for 10 tools : 5 screwdrivers + 5 pliers
 Storage space for a pair of gloves
 Large elastic strap to maintain the tools
 Inner protective flap
 Sturdy carry handle
 Zip fastener.



Ref.	Description
KITSO-01	Set of 5 tools in transport case
Contents:	
MS4 185	Insulated universal pliers 185 mm
MS27 250	Insulated double slip-joint adjustable pliers 250 mm
MS43 175	Insulated stripping pliers 175 mm
MS13 165	Insulated half-round bent 45° nose pliers 165 mm
MS30S 165	Insulated cutting pliers Ø 12 mm for remote energy meter
V100I-SO	Carrying case

Other compositions available on request.

KITSO-02

SET OF 8 TOOLS IN TRANSPORT CASE

Technical specifications: Storage space for 10 tools : 5 screwdrivers + 5 pliers
 Storage space for a pair of gloves
 Large elastic strap to maintain the tools
 Inner protective flap
 Sturdy carry handle
 Zip fastener.



Ref.	Description
KITSO-02	Set of 8 tools in transport case
Contents:	
RL1-PZ-5X100	Insulated Pozidriv screwdriver n°1 - 5 x 100 mm Rotoline Classic
RL1-PZ-6X125	Insulated Pozidriv screwdriver n°2 - 6 x 125 mm Rotoline Classic
RL1-PL-4X120	Insulated slotted screwdriver 4 x 120 mm Rotoline Classic
RL1-PL-55X150	Insulated slotted screwdriver 5,5 x 150 mm Rotoline Classic
RL1-PL-8X200	Insulated slotted screwdriver 8 x 200 mm Rotoline Classic
MS43 175	Insulated stripping pliers 175 mm
MS13 165	Insulated half-round bent 45° nose pliers 165 mm
MS30S 165	Insulated cutting pliers Ø 12 mm for remote energy meter
V100I-SO	Carrying case

Other compositions available on request.



KITS0-03

SET OF 10 TOOLS IN TRANSPORT CASE

Technical specifications: Storage space for 10 tools : 5 screwdrivers + 5 pliers
 Storage space for a pair of gloves
 Large elastic strap to maintain the tools
 Inner protective flap
 Sturdy carry handle
 Zip fastener.

Ref.	Description
KITS0-03	Set of 10 tools in transport case
Contents:	
RL1-PZ-5X100	Insulated Pozidriv screwdriver n°1 - 5 x 100 mm Rotoline Classic
RL1-PZ-6X125	Insulated Pozidriv screwdriver n°2 - 6 x 125 mm Rotoline Classic
RL1-PL-4X120	Insulated slotted screwdriver 4 x 120 mm Rotoline Classic
RL1-PL-55X150	Insulated slotted screwdriver 5,5 x 150 mm Rotoline Classic
RL1-PL-8X200	Insulated slotted screwdriver 8 x 200 mm Rotoline Classic
MS4 185	Insulated universal pliers 185 mm
MS27 250	Insulated double slip-joint adjustable pliers 250 mm
MS43 175	Insulated stripping pliers 175 mm
MS13 165	Insulated half-round bent 45° nose pliers 165 mm
MS30S 165	Insulated cutting pliers Ø 12 mm for remote energy meter
V100I-SO	Carrying case

Other compositions available on request.



KITS0-04

SET OF 8 TOOLS IN TRANSPORT CASE WITH INSULATING GLOVES AND OVERGLOVES

Technical specifications: Storage space for 10 tools : 5 screwdrivers + 5 pliers
 Storage space for a pair of gloves
 Large elastic strap to maintain the tools
 Inner protective flap
 Sturdy carry handle
 Zip fastener.

Ref.	Description
KITS0-04	Set of 8 tools in transport case with insulating gloves and overgloves
Contents:	
GLB00-36-10	Insulating latex gloves 36 cm class 00 size 10
SGF	Leather overgloves size F
RL1-PL-4X120	Insulated slotted screwdriver 4 x 120 mm Rotoline Classic
RL1-PL-55X150	Insulated slotted screwdriver 5,5 x 150 mm Rotoline Classic
RL1-PH-5X100	Insulated Phillips screwdriver n°1 - 5 x 100 mm Rotoline Classic
IS78	Insulated knife with long and thin blade
MS15 170	Insulated full round straight nose pliers 170 mm
MS43 175	Insulated stripping pliers 175 mm
MS60 165	Insulated diagonal cutting pliers 165 mm
MS4 185	Insulated universal pliers 185 mm
V100I-SO	Carrying case

Other compositions available on request

Tool sets • Remote energy meters

Type of network: LV  MV  HV 

T108B1

SET OF 5 TOOLS

Technical specifications: Set available with standard stripping tool (ref. MS43 175) instead of the scraping pliers (ref. ML56) : ref. T108A1



Ref.	Description	Weight (g)
T108B1	Set of 5 tools	670
Contents:		
RL1-PL-3X100	Insulated slotted screwdriver 3 x 100 mm Rotoline Classic	
MS30S 165	Insulated cutting pliers Ø 12 mm for remote energy meter	
MS5S 150	Pince coupante à ras téléreport	
O04	Stripping tool «Kabifix»	
ML56	Insulated scraping pliers for varnished wires	
T108V	PVC soft case	

T108

SET OF 5 TOOLS



Ref.	Description
T108	Set of 5 tools
Accessories:	
RL1-PL-3X100	Insulated slotted screwdriver 3 x 100 mm Rotoline Classic
MS30S 165	Insulated cutting pliers Ø 12 mm for remote energy meter
MS5S 150	Pince coupante à ras téléreport
O03	Round wire stripper
P97	Self adjusting cut and strip tool
T108V	PVC soft case

V658

SET OF 7 TOOLS



Ref.	Description	Weight (g)
V658	Set of 7 tools	1275
Contents:		
RL1-PH-5X100	Insulated Phillips screwdriver n°1 - 5 x 100 mm Rotoline Classic	
RL1-PL-3X100	Insulated slotted screwdriver 3 x 100 mm Rotoline Classic	
RL1-PL-4X120	Insulated slotted screwdriver 4 x 120 mm Rotoline Classic	
RL1-PL-55X150	Insulated slotted screwdriver 5,5 x 150 mm Rotoline Classic	
MS4 185	Insulated universal pliers 185 mm	
MS5 175	Insulated diagonal cutting pliers 175 mm	
MS10 170	Insulated half-round straight long nose pliers 170 mm	
S31	Holdall soft case	



KITS0-05

ELECTRICAL METER REPLACEMENT TOOL SET - ESSENTIAL KIT

Use: The essential kit contains the necessary tools for electrical meter replacement. The kit is delivered in a sturdy trolley bag for more convenience.

You can complete this kit with the recommended optional items.

Ref.	Description
KITS0-05	Electrical meter replacement tool set
Contents:	
RL1-PL-4X120	Insulated slotted screwdriver 4 x 120 mm Rotoline Classic
RL1-PL-55X150	Insulated slotted screwdriver 5,5 x 150 mm Rotoline Classic
RL1-PL-65X150	Insulated slotted screwdriver 6,5 x 150 mm Rotoline Classic
RL1-PL-8X150	Insulated slotted screwdriver 8 x 150 mm Rotoline Classic
RL1-PH-5X100	Insulated Phillips screwdriver n°1 - 5 x 100 mm Rotoline Classic
RL1-PH-6X125	Insulated Phillips screwdriver n°2 - 6 x 125 mm Rotoline Classic
MS4 185	Insulated universal pliers 185 mm
MS43 175	Insulated stripping pliers 175 mm
MS27 250	Insulated double slip-joint adjustable pliers 250 mm
MS23 SET1	Set of 3 insulated male hex keys 90° bent - 4 / 5 / 6 mm
MS45 230	Insulated cutting pliers Ø 24 mm
MC45I	Insulating composite cutting pliers
MS7 260	Insulated adjustable spanner 260 mm
IS78	Insulated knife with long and thin blade
MS5 175	Insulated diagonal cutting pliers 175 mm
MC11CE	Insulating composite flat nose pliers with ceramic blades
SADT-25	Trolley backpack for PPE and tools
Option(s):	
TAG780RIFE	LV voltage detector TAG780, with phase rotation indication and IP2X probe tips
TC42ESBBSC	E-Shark electrician helmet with face shield - white
TTCL0 0,6X1	Insulating mat class 0 - 0,6 x 1
GLB00-36-10	Insulating latex gloves 36 cm class 00 size 10
SGC	Leather overgloves size B
TR055	Insulated adhesive tape (specify colour when ordering)
TN05	Insulating sheet 12,5 m
TP60P	Plastic clip for insulating sheets and bands
TP60PS	Small plastic clip for insulating sheets and bands (3mm)
C16D	Brass padlocks with 2 keys
D60	Insulating plastic folding rules
MS2E	Fully insulated electrician scissors
CMO	Electrical cabinet key - 4 arms
S950	Long distance LED headlamp

Tool sets • Electrical meter replacement

Type of network: LV  MV  HV 

KITSO-06

ELECTRICAL METER REPLACEMENT TOOL SET - PRO KIT

Use: The pro kit is an enhanced version of the Essential kit and contains the required tools for electrical meter replacement.

The kit is delivered in a sturdy trolley bag for more convenience.

You can complete this kit with the recommended optional items.



Ref.	Description
KITSO-06	Electrical meter replacement tool set
Contents:	
RL1-PL-4X120	Insulated slotted screwdriver 4 x 120 mm Rotoline Classic
RL1-PL-55X150	Insulated slotted screwdriver 5,5 x 150 mm Rotoline Classic
RL1-PL-65X150	Insulated slotted screwdriver 6,5 x 150 mm Rotoline Classic
RL1-PL-8X150	Insulated slotted screwdriver 8 x 150 mm Rotoline Classic
RL1-PH-5X100	Insulated Phillips screwdriver n°1 - 5 x 100 mm Rotoline Classic
RL1-PH-6X125	Insulated Phillips screwdriver n°2 - 6 x 125 mm Rotoline Classic
MS4 185	Insulated universal pliers 185 mm
MS43 175	Insulated stripping pliers 175 mm
MS27 250	Insulated double slip-joint adjustable pliers 250 mm
MS45 230	Insulated cutting pliers Ø 24 mm
MS7 260	Insulated adjustable spanner 260 mm
MC45I	Insulating composite cutting pliers
IS78	Insulated knife with long and thin blade
MS5 175	Insulated diagonal cutting pliers 175 mm
MC11CE	Insulating composite flat nose pliers with ceramic blades
MS23 SET1	Set of 3 insulated male hex keys 90° bent - 4 / 5 / 6 mm
MS85P	Insulated reversible ratchet spanner 3/8" with mechanical locking
MS84P	Short extension 3/8" square drive with mechanical locking
MS77 SET5	Set of 10 insulated female hexagonal sockets - 3/8" (9,53 mm) square drive - 8 / 10 / 12 / 13 / 14 / 16 / 17 / 18 / 19 / 21 mm
SADT-25	Trolley backpack for PPE and tools
Option(s):	
TAG780RIFE	LV voltage detector TAG780, with phase rotation indication and IP2X probe tips
TC42ESBBSC	E-Shark electrician helmet with face shield - white
TTCL0 0,6X1	Insulating mat class 0 - 0,6 x 1
GLB00-36-10	Insulating latex gloves 36 cm class 00 size 10
SGC	Leather overgloves size B
TR055	Insulated adhesive tape (specify colour when ordering)
TN05	Insulating sheet 12,5 m
TP60PS	Small plastic clip for insulating sheets and bands (3mm)
TP60P	Plastic clip for insulating sheets and bands
C16D	Brass padlocks with 2 keys
D60	Insulating plastic folding rules
MS2E	Fully insulated electrician scissors
CMO	Electrical cabinet key - 4 arms
S950	Long distance LED headlamp



KITS0-07

ELECTRICAL METER REPLACEMENT TOOL SET - EXCELLIUM KIT

Use: The Excellium kit is an enhanced version of the Pro kit and contains the necessary tools for electrical meter replacement.

The kit is delivered in a sturdy trolley bag for more convenience.

You can complete this kit with the recommended optional items.

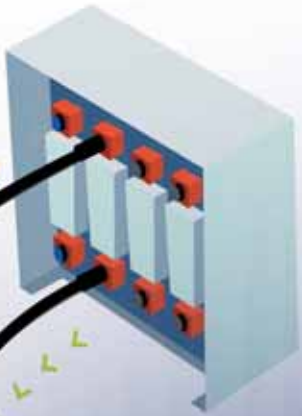
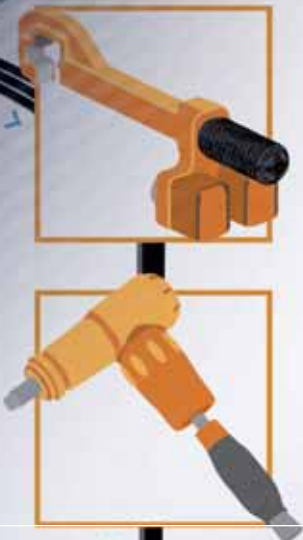
Ref.	Description
KITS0-07	Electrical meter replacement tool set
Contents:	
RL1-PL-4X120	Insulated slotted screwdriver 4 x 120 mm Rotoline Classic
RL1-PL-55X150	Insulated slotted screwdriver 5,5 x 150 mm Rotoline Classic
RL1-PL-65X150	Insulated slotted screwdriver 6,5 x 150 mm Rotoline Classic
RL1-PH-5X100	Insulated Phillips screwdriver n°1 - 5 x 100 mm Rotoline Classic
RL1-PL-8X150	Insulated slotted screwdriver 8 x 150 mm Rotoline Classic
RL1-PH-6X125	Insulated Phillips screwdriver n°2 - 6 x 125 mm Rotoline Classic
MS4 185	Insulated universal pliers 185 mm
MS43 175	Insulated stripping pliers 175 mm
MS27 250	Insulated double slip-joint adjustable pliers 250 mm
MS45 230	Insulated cutting pliers Ø 24 mm
MS34 SET1	Set of 3 insulated T-handled hexagonal box spanners - 8 / 10 / 13 mm
MC45I	Insulating composite cutting pliers
MS23 SET1	Set of 3 insulated male hex keys 90° bent - 4 / 5 / 6 mm
MS7 260	Insulated adjustable spanner 260 mm
IS78	Insulated knife with long and thin blade
MS35-2	Set of 7 Insulated female hexagonal socket - 3/8" (9,53 mm) square drive in soft case - 8 / 10 / 12 / 13 / 14 / 17 mm
MS5 175	Insulated diagonal cutting pliers 175 mm
MC11CE	Insulating composite flat nose pliers with ceramic blades
MS79ALG	Insulated ratchet cable cutter Ø 45 mm
MS85P	Insulated reversible ratchet spanner 3/8" with mechanical locking
MS84P	Short extension 3/8" square drive with mechanical locking
MS77 SET5	Set of 10 insulated female hexagonal sockets - 3/8" (9,53 mm) square drive - 8 / 10 / 12 / 13 / 14 / 16 / 17 / 18 / 19 / 21 mm
IS22	Insulated hacksaw
SADT-25	Trolley backpack for PPE and tools
Option(s):	
TAG780RIFE	LV voltage detector TAG780, with phase rotation indication and IP2X probe tips
TC42ESBBSC	E-Shark electrician helmet with face shield - white
TTCL0 0,6X1	Insulating mat class 0 - 0,6 x 1
GLB00-36-10	Insulating latex gloves 36 cm class 00 size 10
SGC	Leather overgloves size B
TR055	Insulated adhesive tape (specify colour when ordering)
TN05	Insulating sheet 12,5 m
TP60P	Plastic clip for insulating sheets and bands
TP60PS	Small plastic clip for insulating sheets and bands (3mm)
C16D	Brass padlocks with 2 keys
D60	Insulating plastic folding rules
MS2E	Fully insulated electrician scissors
CMO	Electrical cabinet key - 4 arms
S950	Long distance LED headlamp

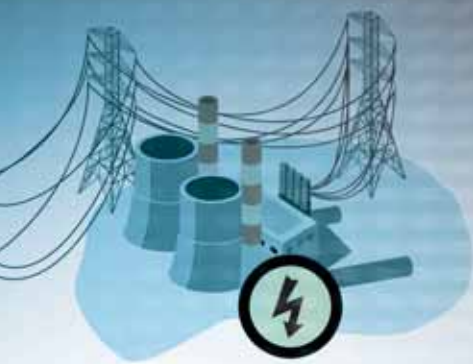
V148

ELECTRONICS TOOL SET



Ref.	Description
V148	Electronics tool set
Contents:	
RL1-PL-3X100	Insulated slotted screwdriver 3 x 100 mm Rotoline Classic
RL1-PL-4X120	Insulated slotted screwdriver 4 x 120 mm Rotoline Classic
RL1-PL-55X150	Insulated slotted screwdriver 5,5 x 150 mm Rotoline Classic
RL1-PH-5X100	Insulated Phillips screwdriver n°1 - 5 x 100 mm Rotoline Classic
RL1-PH-6X125	Insulated Phillips screwdriver n°2 - 6 x 125 mm Rotoline Classic
RL1-PZ-5X100	Insulated Pozidriv screwdriver n°1 - 5 x 100 mm Rotoline Classic
RL1-PZ-6X125	Insulated Pozidriv screwdriver n°2 - 6 x 125 mm Rotoline Classic
IS18B 06,5X40	Insulated slotted stubby screwdrivers
MS23 SET2	Set of 5 insulated male hex keys 90° bent - 3 / 4 / 6 / 7 / 8 mm
IS79	Insulated knife with short blade
ML112	40° Bent needle nosed pliers
ML16 SET1	Set of 10 insulated single open ended spanners - 3 / 3,5 / 4 / 4,5 / 5 / 5,5 / 6 / 7 / 8 / 9 mm
ML281 140	Insulated long flat nose pliers
ML283 BIS	Insulated half-round bent long nose pliers 135 mm
ML288 110	Insulated diagonal beveled cutting pliers
ML292 135	Insulating stripping pliers
ML289 110	Insulated diagonal flush cutting pliers
MS2 132	Electrician scissors
MS7 160	Insulated adjustable spanner 160 mm
MS22J	Insulated junior hacksaw
ML64 SET1	Set of 3 insulated male hex keys - 1,5 / 2 / 2,5 mm
MU18L 248	Insulated screw starters with magnetic head (for slotted screws) 10 x 248 mm
P135 P23	Round paintbrush Ø 23 mm
F30 45 W	Soldering iron 45 W
M189	Inspection mirror
P192	Desoldering pump
6005-IEC-N	4 mm Clamp-type safety wire grip, black
6005-IEC-R	4 mm Clamp-type safety wire grip, red
S142	Penlight
D60	Insulating plastic folding rules
ART17048H	Maintenance case 482 x 375 x 184 mm
ML108	Straight needle nosed pliers
S509NM	Bag for Personal Protective Equipment



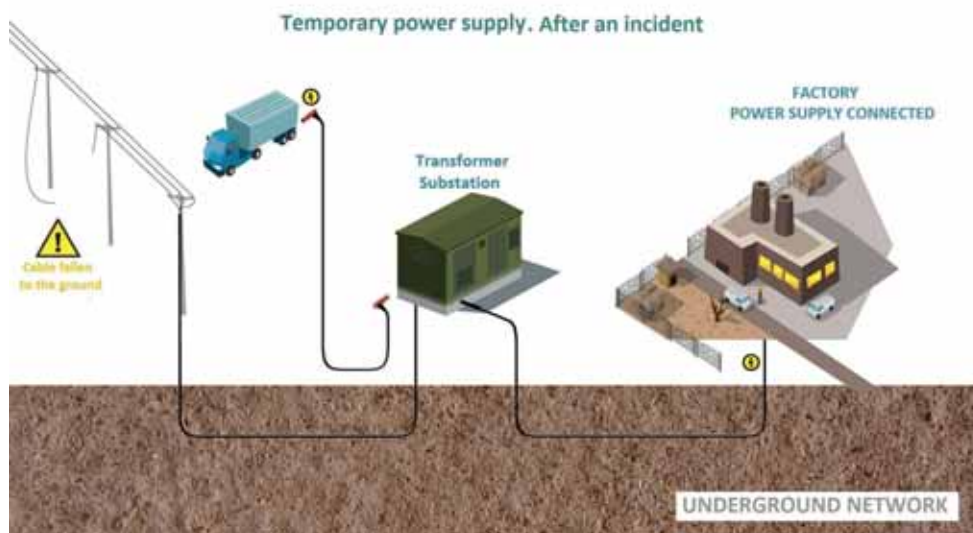


SHUNT AND REPOWERING



SHUNT AND REPOWERING

Introduction	234
Shunt cables	234
Connectors	236
Clips, prick wires, adapters	238
Connection devices for fuse holder	243
Sockets and boxes	244
Cable reels	249
Cable protector	250
Complementary accessories	251



Introduction

ENSURE CONTINUITY OF ELECTRICAL NETWORK AFTER AN INCIDENT OR DURING MAINTENANCE OPERATIONS

Technical specifications: The system has been designed to create a temporary electrical connection between a power source and the customer. The LV By-pass system is composed with a large range of accessories and adapters to ensure the re powering to electrical network in any case.

This is a modular and flexible system to connect anywhere with :

- Cable with different standard connection (M8 thread – M12 thread – Lug - or specific connector on customer request)
- Clamps
- Junction box
- Adapter
- Temporary box (switch box – derivation box – etc)
- Socket
- Etc

Shunt cables



TW4035

M8/M8 FLEXIBLE SHUNT CABLE - 35 MM²

Technical specifications: 1000 V

200A AC

Shunt cable male M8 / male M8.

35 mm² H07RNF cable type.

Protective cap included.

Ref.	Cable length (m)
TW4035-00.5	0,5
TW4035-01	1
TW4035-02	2
TW4035-03	3
TW4035-04	4
TW4035-05	5
TW4035-06	6
TW4035-10	10
TW4035-15	15
TW4035-20	20
TW4035-25	25

Other lengths available on request.

Shunt cables

Type of network: LV  MV  HV 

TW4050

M8/M8 FLEXIBLE SHUNT CABLE - 50 MM²

Technical specifications: 1000 V
250A AC
Shunt cable male M8 / M8.
50 mm² HO7RNF cable type.
Protective cap included.



Ref.	Cable length (m)
TW4050-005	0,5
TW4050-01	1
TW4050-02	2
TW4050-03	3
TW4050-04	4
TW4050-05	5

Other lengths available on request.

TW4120 series

M12/M12 FLEXIBLE SHUNT CABLE - 120MM²

Technical specifications: 400A AC
Shunt cable right angled male M12 / M12.
120 mm² HO7RNF cable type.
Connector with retractable sleeve.
Protective cap included.



Ref.	Cable length (m)
TW4120-02	2
TW4120-04	4
TW4120-05	5
TW4120-15	15
TW4120-20	20
TW4120-45	45

Other lengths available on request.

TW4130

M12/LUG Ø14 FLEXIBLE SHUNT CABLE

Technical specifications: 1000 V
400A AC
Shunt cable right angled male M12 / lug Ø14.
120 mm² HO7RNF cable type.
Connector with retractable sleeve.
Protective cap included.



Ref.	Cable length (m)
TW4130-01	1
TW4130-02	2
TW4130-03	3
TW4130-04	4
TW4130-05	5
TW4130-10	10
TW4130-20	20

Other lengths available on request.



TW2410

DIY M8 CONNECTOR - 35 MM²

Technical specifications: 1000 V
200A AC

Do It Yourself connector :
M8 straight connector, to be crimped.
For 35 mm² H07RNF cable type.

Ref.	Current
TW2410	200 A AC



TW2411

DIY M8 CONNECTOR - 50 MM²

Technical specifications: 1000 V
250A AC

Do It Yourself connector :
M8 straight connector, to be crimped.
For 50mm² H07RNF cable type.

Ref.	Current
TW2411	250 A AC



TW2415

M12 INSULATED RIGHT ANGLE CONNECTOR

Technical specifications: 1000V AC maximum voltage
400A AC maximum current
Suits to 120 mm², 185 mm² or 240 mm² H07RNF (depending on the model)
Removable protecting cap
Retractable sleeve
M12 connector (M12 threaded terminal) to connect to M12 socket
IP2X protection (touch-protected)

Ref.	Current	For cables
TW2415-120	400A AC	120 mm ²
TW2415-185	400A AC	185 mm ²
TW2415-240	400A AC	240 mm ²

Connectors

Type of network: LV  MV  HV 

TW2417

M16 INSULATED RIGHT ANGLE CONNECTOR

Technical specifications: 630 A AC maximum current
 1000 V AC maximum voltage
 Suits to 185 mm² or 240 mm² H07RNF cable (according to the model)
 Removable protecting cap
 Retractable sleeve
 M16 connector (M16 threaded terminal) to connect to M16 socket
 IP2X protection (touch-protected)



Ref.	For cables
TW2417-185	185 mm ² H07RNF
TW2417-240	240 mm ² H07RNF

Innovation !

TW2418

M12 INSULATED RIGH ANGLE CONNECTOR

+ Suits stripped aluminium or copper cables from 25 to 95 mm².

Technical specifications:
 230V AC maximum voltage
 200A AC maximum current
 Removable protecting cap
 Retractable sleeve
 M12 connector (M12 threaded terminal) to connect to M12 socket
 To be used with rigid aluminium or copper cables
 Insulation in conformity with standard UL94V0
 IP2X protection (touch-protected)



Ref.	Current	Weight (g)
TW2418	400A AC	450

TW2421

M12 INSULATED RIGHT ANGLE CONNECTOR

Technical specifications: 1000 V
 250A AC
 M12 insulated right angle connector.
 For male M8 threaded connector (35 mm² and 50 mm² shunt).
 Protective cap included.



Ref.	Current
TW2421	250 A AC



TW2380 ↻

ADAPTER M8 FEMALE / M12 FEMALE

Technical specifications: 1000 V
200A AC
Adapter M8 female / M12 female for threaded connector.
Tightening with Allen wrench 5mm.

Ref.	Current
TW2380	200 A AC



TW2381 ↻

ADAPTER M8 MALE / M12 FEMALE

Technical specifications: 1000 V
200A AC
Adapter M8 male / M12 female for threaded connector.
Tightening with Allen wrench 5mm.

Ref.	Current
TW2381	200 A AC



TW2382 ↻

ADAPTER M12 FEMALE / D13MM LUG

Technical specifications: 400A AC
Adapter M12 female / Ø13 mm lug.
For M12 male threaded connector.

Ref.	Current
TW2382	400 A AC



TW2383 ↻

ADAPTER M12 FEMALE / D12MM FORK

Technical specifications: 1000 V
400A AC
Adapter M12 female / Ø 12mm fork.
For M12 male threaded connector.

Ref.	Current
TW2383	400 A AC

Clips, prick wires, adapters

Type of network: LV  MV  HV 

TW2384

ADAPTER M12 FEMALE / D18MM FORK

Technical specifications: 1000 V
400A AC
Adapter M12 female / Ø18 mm fork.
For M12 male threaded connector.



Ref.	Current
TW2384	400 A AC

TW2385

ADAPTER M12 FEMALE / PLATE LUG

Technical specifications: 1000 V
400A AC
Adapter M12 female / plate lug 5mm thickness.
For M12 male threaded connector.



Ref.	Current
TW2385	400 A AC

TW2386

ADAPTER M12 FEMALE / D15MM LUG

Technical specifications: 1000 V
400A AC
Adapter M12 female / d15mm lug.
For M12 male threaded connector.



Ref.	Current
TW2386	400 A AC

TW2387

ADAPTER M12 FEMALE / M12 FEMALE

Technical specifications: 1000 V
400A AC
Adapter M12 female / M12 female.
For M12 male threaded connector.



Ref.	Current
TW2387	400 A AC



TW2388

ADAPTER FOR INSULATION PIERCING CONNECTOR

Technical specifications: 1000V AC
400A AC

M12 thread to Ø 10 mm for insulating piercing aerial connectors K341 and K342.
M12 thread to Ø 15.5 mm for insulating piercing aerial connectors K343.

Ref.	Current	Version
TW2388A	400A AC	for insulation piercing connector K341 and K342
TW2388B	400A AC	for insulation piercing connector K343



TW2010

WIRE-PRICKING TERMINAL TECHNOPIIC

Use: Use TW2010 to get the electrical potential of wires whose you can not access the ends and without stripping them.

The TW2010 pierces the jackets of wires by its tip to touch the inner conductors.

- Fit Technopic to the size of the wire you want to check.
- Hook Technopic on the wire.
- Screw the handle until the tip reaches the strands.
- Connect the 4 mm banana female socket to your measuring device.
- Your measuring device is linked to the inner conductors of the wire.

Technical specifications: • IP2X-protected (touch-protected) 4 mm banana female socket for voltage checking

- 1000 V AC maximum voltage
- Pricks wires from 10 mm² up to 300 mm²
- IP2X-protected insulating handle
- Stainless steel tip
- Maximum current : 5A max (1000W under 230V)

Ref.	Description
TW2010	Wire-pricking terminal TECHNOPIIC

Also available with 4 mm socket in different colors (Red, White, Blue, Yellow, Black, Green, Yellow / Green, Brown, Purple).



TW2134 - TW2135

INSULATED CLIPS

Technical specifications: 1000 V
800A AC (2 x 400A)

Insulated clip 800A (2 x 400A) for bus bars.

Front hook to clamp power bar

For vertical bus bar (max thickness 35 mm) or horizontal bus bar (max thickness 18 mm, max width 55 mm).

Socket for threaded male M12 connector.

Test point for 4 mm safety plug.

IP2X protection (touch-protected)

Ref.	Version	Current
TW2134	Compact (393 mm)	800 A AC (2 x 400 A)
TW2135	Long (525 mm)	800 A AC (2 x 400 A)

TW2136 - TW2137

INSULATED CLIP

 Stackable plug Ø 4 mm for potential test point.

Technical specifications: 1000 V

400A AC

Insulated clip 400A for bus bars.

For vertical bus bar (max thickness 35 mm) or horizontal bus bar (max thickness 18 mm, max width 55 mm).

Socket for threaded male M12 connector.

Test point for 4mm safety plug.



Ref.	Version	Current
TW2136	Long (525 mm)	400 A AC
TW2137	Compact (393 mm)	400 A AC

TW2162

HEXAGONAL SHUNT CLIP

 Stackable plug Ø 4 mm for potential test point.

Technical specifications: 1000 V

200A AC

Insulated shunt clip for 17 & 19 mm hexagonal tightening.

Socket for threaded male M8 connector.

Test point for 4 mm safety plug.



Ref.	Current
TW2162	200 A AC

TW2164

SHUNT CLIP FOR FLAT BUS BAR

 Automatically retractable protective sleeve.
 Stackable plug Ø 4 mm for potential test point.

Technical specifications: 1000 V

200A AC

Insulated shunt clip for tightening on flat bus bar : 2 to 25 mm.

Socket for threaded male M8 connector.

Test point for 4mm safety plug.



Ref.	Current
TW2164	200 A AC



TW2165

SQUARE-END OR ROUND-END SHUNT CLIP

⊕ Stackable plug Ø 4 mm for potential test point.

Technical specifications: 1000 V

200A AC

Insulated shunt clip for tightening on square-end (9-10mm) or round-end (8-12mm).

Socket for threaded male M8 connector.

Test point for 4mm safety plug.

Ref.	Current
TW2165	200 A AC



TW2167

SHUNT CLIP FOR STRIPPED CABLE

⊕ Automatically retractable protective sleeve.
Stackable plug Ø 4 mm for potential test point.

Technical specifications: 1000 V

200A AC

Insulated shunt clip for tightening on stripped cable 35-240mm².

Socket for threaded male M8 connector.

Test point for 4mm safety plug.

Ref.	Current
TW2167	200 A AC



TW2168

PRICK WIRE SHUNT CLIP

⊕ Automatically retractable protective sleeve.
Stackable plug Ø 4 mm for potential test point.

Technical specifications: 1000 V

200A AC

Insulated prick wire shunt clip for cable 35 - 240 mm².

Socket for threaded male M8 connector.

Test point for 4 mm safety plug.

Ref.	Current
TW2168	200 A AC



TW2170

MICRO-CLAMP MUTLI-POSITION, MULTI-CONTACT, 200 A

Use: Multi-support connecting clamp for shunt & repowering, earthing and short-circuiting.

Technical specifications: Clamp with double rotation.

200 A AC maximum current.

1000 V AC maximum voltage.

Tightening jaws to grasp :

- hexagonal heads of bolts 10mm
- vertical or horizontal round bar Ø 6mm to Ø 12mm
- power bar horizontal or vertical flat 5mm thick
- rod Ø 10mm in the axis of the clamp

M8 threaded hole socket to connect to M8 connector.

Rear 4 mm banana female test point for voltage checking.

Ref.	Current
TW2170	200 A AC

Clips, prick wires, adapters

Type of network: LV  MV  HV 

TWBP4067-015

BY-PASS JUMPER

Technical specifications: 1000 V
200A AC

BY-PASS Jumper composed of :

- 1 lead type TW4035-015, cable type H07RNF 35 mm², length 1,5m
 - 2 clips type TW2167, cable tightening
- Test point for 4mm safety plug.

Other configurations available on request.



Ref.	Current
TWBP4067-015	200 A AC

Connection devices for fuse holder

TW2350F

CONNECTION DEVICE FOR FUSE HOLDER

Technical specifications: 1000 V
60A AC

Re-powering device.

Temporary connection on clamping jaws of the fuse holder.

NH00 type.

Fuse holder 60A.



Ref.	Current
TW2350F	60A AC

TW2351F

CONNECTON DEVICE FOR FUSE HOLDER

Technical specifications: 1000 V
60A AC

Re-powering device.

Temporary connection on clamping jaws of the fuse holder.

Type 22x58.

Fuse holder 60A.



Ref.	Current
TW2351F	60A AC

TW2350

CONNECTION DEVICE FOR FUSE HOLDER

Technical specifications: 1000 V
60A AC

Re-powering device.

Temporary connection on clamping jaws of the fuse holder.

NH00 type.



Ref.	Current
TW2350	60 A AC



TW2351

CONNECTION DEVICE FOR FUSE HOLDER

Technical specifications: 1000 V
60A AC
Re-powering device.
Temporary connection on clamping jaws of the fuse holder.
Type 22x58.

Ref.	Current
TW2351	400 A AC



TW2392

ADAPTER FOR FUSE HOLDER

Technical specifications: 1000 V
400A AC
Adapter for fuse holder, insulated on one side, for Low Voltage panels and network cabinet.
Centre distance 115 mm.
Socket for threaded male M12 connector.

Ref.	Current
TW2392	400 A AC

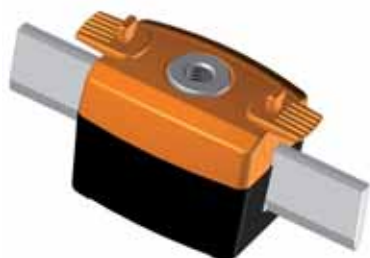


TW2393

ADAPTER FOR FUSE HOLDER

Technical specifications: 1000 V
400A AC
Adapter for fuse holder, insulated on one side, for Low Voltage panels and network cabinet.
Centre distance 115 mm.
Socket for threaded male M12 connector.

Ref.	Current
TW2393	400 A AC



TW2394

ADAPTER FOR FUSE HOLDER FULLY CONDUCTIVE

Technical specifications: 1000 V
400A AC
Adapter for fuse holder, conductor on both sides, for Low Voltage panels and network cabinet.
Centre distance 115mm.
Socket for threaded male M12 connector.

Ref.	Current
TW2394	400 A AC

Sockets and boxes

Type of network: LV  MV  HV 

TW2429

INSULATED SOCKET WITH FRAME

Technical specifications: 1000 V

400A AC

Insulated socket with frame, M16 threaded rod, for conducting structure maximum thickness 9 mm ± 0.1 mm.

Socket for threaded male M12 connector.



Ref.	Current
TW2429	400 A AC

TW2430

INSULATED SOCKET

Technical specifications: 1000 V

400A AC

Insulated socket, M16 threaded rod, for conducting structure maximum thickness 9 mm ± 0.1 mm.

Socket for threaded male M12 connector.



Ref.	Current
TW2430	400 A AC

TW2431

M16 FEMALE SOCKET

Technical specifications: 630 A AC maximum current

1000 V AC maximum voltage

M16 threaded hole socket front terminal

Panel fastening by four M6 x 35 screws

Spring loaded insulating cover

Overall dimensions 81 mm x 65 mm x 115 mm

M16 threaded stud and hexagonal nut rear terminal



Ref.	Current	Dimensions (mm)
TW2431	630A AC	115 x 80 x 65



TW2531

JUNCTION BOX 2 SOCKETS

Technical specifications: 1000 V
400A AC
Insulated junction box with 2 sockets.
Socket for threaded male M12 connector.

Ref.	Current
TW2351	60 A AC



TW2532

JUNCTION BOX 4 SOCKETS

Technical specifications: 1000 V
400A AC
Insulated junction box with 4 sockets.
Socket for threaded male M12 connector.

Ref.	Current
TW2532	400 A AC



TW2540 - TW2541

SCREW AND SOCKET EXTENSION BOX

Technical specifications: 400A AC maximum current
1000V AC maximum voltage

One M12 threaded hole socket to connect to M12 connectors

Model TW2540 : One screwing terminal for stripped aluminium or copper wires from 50 mm² up to 240 mm²

Model TW2541 : One screwing terminal for stripped aluminium or copper wires with a round lug width of 32 mm maximum and Ø 14 mm hole

IP2X protection (touch-protected)



Ref.	Version	Current
TW2540	One screwing terminal for stripped aluminium or copper wires from 50 mm ² up to 240 mm ²	400A AC
TW2541	One screwing terminal for stripped aluminium or copper wires with a round lug width of 32 mm maximum and Ø 14 mm hole	400A AC

Sockets and boxes

Type of network: LV  MV  HV 

TW6506

SWITCH BOX

+ Reinforced structure, professional electrical cabinet.

Technical specifications: 400A AC

Switch box :

Switch to open or close the electrical circuit
 1 Input 4 poles 400A / 1 Output 4 poles 400A
 For M12 male threaded connectors.
 4 mm test point on every socket.

Frame mounted on wheels.



Ref.	Current
TW6506	400 A AC

TW6507

HEAD END PROTECTION BOX

Technical specifications: 400A AC

Head end protection box :

1 Input 4 poles 400A / 1 Output 4 poles 400A.
 4 fuses 400 A AC to protect 3 phases and neutral.
 1 x 220V AC output protected with circuit-breaker.

For M12 male threaded connectors.
 4 mm test point on every socket.

Frame mounted on wheels.



Ref.	Current
TW6507	400 A AC

TW6508

DERIVATION BOX

+ Reinforced structure, professional electrical cabinet.

Technical specifications: 400A AC

Temporary derivation box :

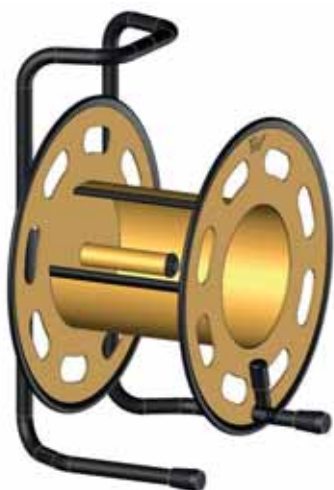
1 Input 4 poles 400A / 1 Output 4 poles 400A.
 2 derivation 4 poles 250A equipped with circuit-breaker.
 1 x 220V AC output protected with circuit-breaker.

For M12 male threaded connectors.
 4 mm test point on every socket.

Frame mounted on wheels.



Ref.	Current
TW6508	400 A AC



TW8326

MANUAL REEL

 The central hub allows to fit the first cable extremity.

Technical specifications: Manual reel, delivered without cable.

Made in France.

Ref.	Dimensions (mm)
TW8326	520 x 390 x 300



TW8327 - TW8328

MANUAL REEL MOUNTED ON WHEELS

 The central hub allows to fit the first cable extremity.
Trolley type : telescopic handle and wheels

Technical specifications: Max capacity : 25 metres 120 mm² H07RNF

Winding handle.

Delivered without cable.

Made in France.

Ref.	Application	Dimensions (mm)
TW8327	Industry	515 x 390 x 345
TW8328	Construction site	515 x 390 x 345

Cable reels

Type of network: LV  MV  HV 

TW8420

MOTORIZED REEL 4 X 45 - 120 MM²

Technical specifications: Motorised system.
Rolling and unrolling activated by foot.
For extra-flexible copper cable 120 mm².
Max length 45 m for each cable.

4 cable reels on frame.
Capacity : 4 x 45 m.



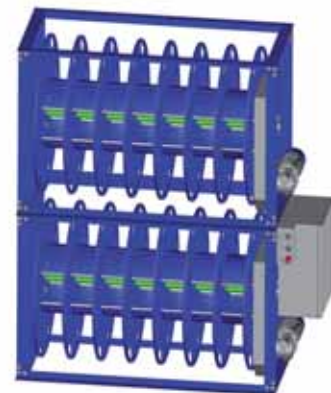
Ref.	Capacity
TW8420	4 x 45 m

TW8425-14

MOTORIZED REEL 14 X 25 - 120 MM²

Technical specifications: Motorised system.
Rolling and unrolling activated by foot.
For extra-flexible copper cable 120 mm².
Max length 25 m for each cable.

14 cable reels on frame.
2 drums of 7 reels each.
Capacity: 14 x 25 m.



Ref.	Capacity
TW8425-14	14 x 25 m

TW8445

MOTORIZED REEL 12 X 45 - 120 MM²

Technical specifications: Motorised system.
Rolling and unrolling activated by foot.
For extra-flexible copper cable 120 mm².
Max length 45 m for each cable.

12 cable reels on frame.
Capacity: 12 x 45 m.

Other configurations available on request.



Ref.	Capacity
TW8445	12 x 45 m



TW9182M

HIGH STRENGTH CABLE PROTECTOR

Use :

We offer the choice between three temperature classes precisely suited for the climate conditions of the installation site : temperate, desert and polar.



> **HIGH STRENGTH** : very high mechanical strength

High temperature resistance up to 60° ambient temperature (for Z01 model)

Technical specifications :

- 4 slots for cables or pipes up to diam. 40 mm
- 2 large slots for cables or pipes up to diam. 90 mm
- High resistance to mechanical stress (tank transporters, tanker lorries up to 44 tonnes)
- Adapted to extreme temperatures depending on specific needs
- High UV resistance
- Adaptable to all types of terrain, including uneven ground
- Low profile: 120 mm
- Ground anchoring hole for long temporary work
- Removable cover for easy maintenance
- Retro-reflective devices (optional)
- Carry handle for easy transport
- Customisation on request (logo, colour)
- Dimensions : 820 x 700 mm



Ref.	Zone	Weight
TW9182M-Z01	Desert climate	27 Kg
TW9182M-Z02	Polar climate	21,5 Kg
TW9182M-Z03	Temperate climate	27 Kg

Complementary accessories

Type of network: LV  MV  HV 

TW9120

CABLE PROTECTION

Technical specifications: Cable protection 4 x 120 mm².
Length : 750 mm.



Ref.	Length (mm)
TW9120	750

TW2350-IEC-300-#

4 MM SAFETY MEASURING LEAD

1000V CAT III / 600V CAT IV UPON IEC 61010-031

Technical specifications: 12A

Measuring lead :

Safety 4 mm lead, straight male / right angle male.

PVC 0.75 mm² cable, 12A.

Length : 3 m.

Available colours (#) : red, black, blue, green, yellow, white.

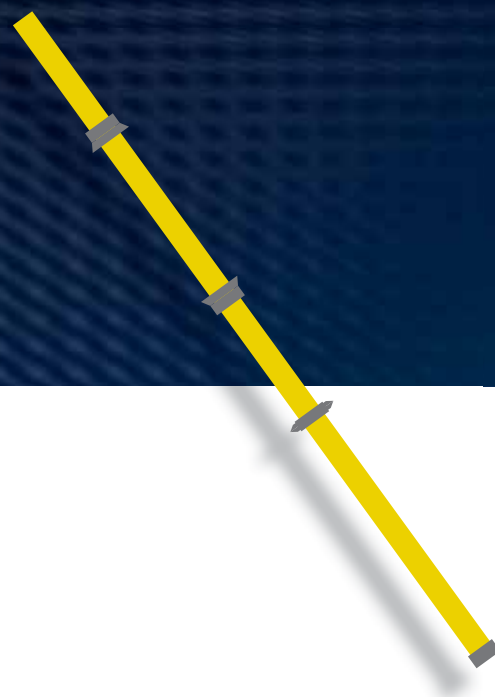
Other configurations available on request.



Ref.	Length (m)
TW2350-IEC-300#	3



INSULATING STICKS



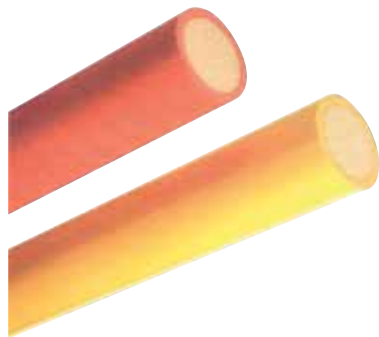
INSULATING STICKS

NO-VOLTAGE TESTING & EARTHING STICKS

Guide for choosing sticks	254
Telescopic sticks	256
Connectable sticks	258
Hooked sticks	262

OTHER STICKS AND ACCESSORIES

Live working sticks	262
Telescopic sticks	264
Pneumatic stick	270
Discharge sticks	271
Stick checking and maintenance	272
Stick lifters	273
Diameter gauges	274
Operating hooks	275
Other tools	276



IEC 60855 and IEC 61235 compliant sticks

INSULATING TUBES

FAMECA has been known for over 50 years as a manufacturer of composite insulating tubes.

For about 20 years FAMECA has been developing a foam-filled tube that complies with the international standard IEC 60855-1.

Its manufacturing process has made it possible to generalise to all the sticks it produces a material which until now was only used for live working sticks.

This means that telescopic sticks equipped with hollow lower tubes (IEC 61235) now have a foam-filled end tube compliant with IEC 60855-1.

The two advantages of the foam-filled tube compared to hollow tubes are:

- resistance to the penetration of humidity, making it the ideal material for all-weather outdoor uses,
- great rigidity, which improves handling.

Always concerned to improve the service life and reliability of our products in order to continually extend their essential safety function, FAMECA now has a range of tubes with better shock resistance properties. This range continues to comply with IEC 61235 for hollow tubes and IEC 60855-1 for foam-filled tubes.

Maintenance:

It is strongly recommended never to dismantle and re-assemble the telescopic stick. And the replacement of any parts is absolutely forbidden.

In case of need or doubt, always send the stick back to SIBILLE FAMECA Electric, which will check it and repair it if necessary.

To guarantee the correct operation of the telescopic stick and ensure it fulfils its essential purpose, it must be kept in good condition at all times:

- store out of the light in a dry place.
- wipe before and after each use with a TC53 silicone cloth.
- avoids all knocks or dropping.
- ensure that it is stored in appropriate conditions.

STICK END FITTINGS AND ADAPTER CONNECTIONS

The FLEXible (AFLEX) is a connection system between a detector and a stick fitted with a flexible cut-out. This system protects the detector from handling knocks, and also protects all the connection points.



APV - U adapters : 12 mm 6-sided to U end fitting		U adapters	
32715	Classic version	EBPU	U - Polish bayonet adapter
AFLEXAPV	Flexible version	UBF	U - Bayonet adapter
32738	M10 to U end fitting adapter compatible with an APV3	UFAPV2	U - APV adapter
B - U adapters : DIN bayonet to U end fitting		AFLEXU	U - Flexible U adapter
BVUI	Version with locking system on the bayonet end fitting	EAF - U adapters	
BVU	Classic version	32732	Classic version
AFLEXB	Flexible evrsion	AFLEXEAM	Flexible version
DA adapter		BP - U adapter : polish bayonet to U end fitting	
ADK	Adapter with M10 thread for anchor socket	327PLU	Classic version



TR - TRL - TRC

TELESCOPIC STICKS

IEC 60855-1 / IEC 61235-S

Use: All-weather (last IEC 60855-1 tube extended).

- Checking for the absence of voltage.
- Earthing of MV/LV substations - Disconnecter operation.
- All work involving medium mechanical loads.

The TR poles come in 4 ranges:

- TR: Classic
- TRS: Special - foam-filled tube, orange end section, Ø 32 mm, quality IEC 60855-1
- TRL: Lightweight - foam-filled tube, yellow end section, Ø 26 mm, 30% lighter than the TR Classic (NB: medium load acceptable up to 5 m, beyond that use only for no-voltage testing and disconnecter operation)
- TRC: Shock-resistant: tubes with greater shock-resistance properties.

Technical specifications: • Made up of 2, 3 or 4 sections:

- upper tube foam-filled fibreglass composite, Ø 32 mm or Ø 26 mm, quality IEC 60855-1, colour yellow or orange,
- intermediate and lower tubes made of yellow fibreglass composite, Ø 48, 39 or 32 mm, quality IEC 61235-S,

- Push-button mechanism for locking into retracted or extended position,
- Base with protected connector for optional extension (on some TR2 models, see table of references).
- Dielectric strength after wet conditioning:
 - 100 kV/30 cm upper sections
 - 50 kV/30cm lower sections



TR poles can be supplied off the shelf with these end fittings :

- APV : multi-purpose, 12 mm 6-sided with automatic locking.
- U : notched universal end fitting.
- B : bayonet end fitting.
- EAF : multi-purpose, 21 mm 6-sided.
- Others : on request, please enquire

EXTENSION AVAILABLE FOR STICKS TR275 / TRS275 / TR2225 / TR2245 / TR2330.

No-voltage detection & earthing sticks • Telescopic sticks

Type of network: LV  MV  HV 

Type	Reference	Number of elements	Fully folded length	Fully extended length	 Max operating voltage - dry weather	 Max operating voltage - all weather	Insulating length - all weather use	Weight	
TR2	TR2090	2	0,55 m	0,90 m	36 kV	20 kV	520 mm	0,95 kg	
TR2	TR2105	2	0,70 m	1,10 m	36 kV	20 kV	540 mm	1,00 kg	
TR2	TR245 / TRS245	2	0,85 m	1,50 m	63 kV	36 kV	650 mm	1,05 kg	
TR2	TR275 ¹ / TRS275 ¹	2	1,10 m	2,00 m	90 kV	72 kV	900 mm	1,20 kg	
TR2	TR276 / TRS276	2	1,10 m	2,00 m	90 kV	72 kV	900 mm	1,20 kg	
TR2	TR2225 ¹	2	1,75 m	3,20 m	225 kV	123 kV	1450 mm	1,50 kg	
TR2	TR2245 ¹	2	2,15 m	4,00 m	300 kV	123kV	1680 mm	2,20 kg	
TR2	TR2246	2	2,15 m	4,00 m	300 kV	123kV	1680 mm	2,20 kg	
TR2	TR2330 ¹	2	2,65 m	5,00 m	330 kV	245 kV	1850 mm	3,00 kg	
TR3	TR3380	3	1,62 m	3,80 m	245 kV	72 kV	1250 mm	3,00 kg	
TR3	TR3450	3	1,76 m	4,50 m	245 kV		1530 mm	3,00 kg	
TR3	TR3500	3	1,93 m	5,00 m	420 kV		1710 mm	4,00 kg	
TR3	TR3600	3	2,27 m	6,00 m	525 kV		2250 mm	5,00 kg	
TRL2	TRL2060	2	0,40 m	0,60 m	36 kV	Indoor use only	450 mm	0,38 kg	
TRL2	TRL2070 ²	2	0,43 m	0,70 m	36 kV		550 mm	0,40 kg	
TRL2	TRL2092 ²	2	0,55 m	0,92 m	72 kV		770 mm	0,42 kg	
TRL2	TRL2105	2	0,61 m	1,05 m	72 kV		870 mm	0,43 kg	
TRL2	TRL2150	2	0,83 m	1,50 m	72 kV		36 kV	680 mm	0,84 kg
TRL2	TRL2200	2	1,08 m	2,00 m	72 kV		36 kV	930 mm	0,84 kg
TRL2	TRL2250	2	1,33 m	2,50 m	170 kV		123 kV	1180 mm	1,05 kg
TRL2	TRL2300	2	1,58 m	3,00 m	170 kV		123 kV	1430 mm	1,35 kg
TRL2	TRL2340	2	1,78 m	3,40 m	245 kV		170 kV	1630 mm	1,65 kg
TRL2	TRL2400	2	2,08 m	4,00 m	245 kV		170 kV	1930 mm	2,00 kg
TRL2	TRL2500	2	2,58 m	5,00 m	420kV	245 kV	2400 mm	2,50 kg	
TRL3	TRL3150	3	0,64 m	1,50 m	63 kV	25 kV	520 mm	0,89 kg	
TRL3	TRL3250	3	1,09 m	2,50 m	123 kV	72 kV	870 mm	1,47 kg	
TRL3	TRL3337	3	1,29 m	3,37 m	170 kV	72 kV	1160 mm	1,90 kg	
TRL3	TRL3350	3	1,43 m	3,50 m	170 kV	72 kV	1210 mm	1,97 kg	
TRL3	TRL3450	3	1,76 m	4,50 m	245 kV	123 kV	1530 mm	2,20 kg	
TRL3	TRL3500	3	1,93 m	5,00 m	420 kV	170 kV	1700 mm	2,45 kg	
TRL3	TRL3550	3	2,43 m	5,50 m	420 kV	225kV	2200 mm	2,90 kg	
TRL3	TRL3600	3	2,27 m	6,00 m	525 kV	170 kV	2050 mm	3,20 kg	
TRL4	TRL4370	4	1,30 m	3,70 m	245 kV	72 kV	1020 mm	3,30 kg	
TRL4	TRL4400	4	1,37 m	4,00 m	245 kV	72 kV	1090 mm	3,60 kg	
TRL4	TRL4440C	4	1,30m	4,40 m	245 kV	72 kV	1020 mm	3,70 kg	
TRL4	TRL4450	4	1,50 m	4,50 m	245 kV	72 kV	1220 mm	3,90 kg	
TRL4	TRL4500	4	1,62m	5,00 m	420 kV	123 kV	1430 mm	4,20 kg	
TRL4	TRL4600	4	1,87m	6,00 m	420 kV	123 kV	1590 mm	4,70 kg	
TRC	TRC4500	4	1,5m	5,00 m	420 kV	72 kV	1220 mm	5,80 kg	

¹ Extension (see table below)

² Unsheathed shaft

Extension			
Extension	RTR100	1	1,00 m
Extension	RTR180	1	1,80 m
Extension	RTR215	1	2,15 m

Complete the reference of your choice with the code corresponding to the end fitting required: APV, U, B or EAF. The operating voltages correspond to the minimum insulation length requirements of IEC 61243-1 for no-voltage testing.



PXV

CONNECTABLE INSULATING STICKS MADE OF Ø 32 MM TUBE

IEC 60855-1 / EN 50508

Use: All weather use.

- No-voltage testing.
- Earthing on MV/LV lines and substations.
- Disconnector operation.
- All work involving medium mechanical loads.

Ribbed non-slip shaft.

Technical specifications: Made up of 1, 2, 3 or 4 sections with :

- Fibreglass composite tube, Ø 32 mm, polyurethane foam-filled, compliant with IEC 60855 (series tested against penetration of humidity).
- Longitudinal dielectric strength 100 kV/30 cm guaranteed in humid atmosphere.
- Screw connectors ref. S37, light alloy.
- Elastomer hand guard marks the gripping zone.

PXV sticks are supplied off the shelf with these end fittings:

- U : notched universal
 - APV : multi-purpose, 12 mm 6-sided with automatic locking
 - B : bayonet.
 - others : on request.
- Please specify when ordering.

Ref.	Overall length (m)	Number of elements	Insulating length (mm)	Max voltage EN 50508	Weight (kg)	Cover
1\ Stick shaft : PXVH						
PXVH100	1,00		300		0,70	
PXVH150	1,50		500		0,95	
PXVH188	1,88		680		1,10	
PXVH200	2,00		800		1,20	
PXVH250	2,50		1100		1,50	
PXVH300	3,00		1600		1,75	
2\ Stick extension (intermediary element) : PSM						
PSM100	1,00		850		0,80	
PSM150	1,50		1385		1,00	
PSM188	1,88		1730		1,20	
PSM200	2,00		1850		1,30	
PSM250	2,50		2350		1,50	
PSM300	3,00		2850		1,80	
3\ Upper element with end fitting : PSMxxU/APV/B...						
PSM100*	1,00		850			
PSM150*	1,50		1385			
PSM188*	1,88		1730			
PSM200*	2,00		1850			
PSM250*	2,50		2350			
PSM300*	3,00		2850			
4\ Complete sticks : PXV						
PXV1080*	0,80	1	550	15 kV	0,50	HTR1950
PXV1125*	1,25	1	1000	45 kV	0,90	H10
PXV1150*	1,50	1	1100	45 kV	1,00	H10
PXV1200*	2,00	1	1300	66 kV	1,40	H11
PXV1250*	2,50	1	1800	132 kV	1,60	HTR12750
PXV1300*	3,00	1	2000	150 kV	2,00	H12
PXV2200*	2,00	2	1300	66 kV	1,50	H30
PXV2300*	3,00	2	2000	150 kV	2,10	H31
PXV2400*	4,00	2	2800	220 kV	2,60	H32
PXV2500*	5,00	2	3600	220 kV	3,30	H20
PXV2600*	6,00	2	4600	480 kV	4,10	H21
PXV3300*	3,00	3	2300	150 kV	2,15	H30
PXV3450*	4,50	3	3500	220 kV	2,90	H31
PXV3600*	6,00	3	4800	480 kV	4,30	H32
PXV4400*	4,00	4	3300	220 kV	3,20	H30
PXV4600*	6,00	4	5000	480 kV	4,50	H31
PXV4750*	7,50	4	6300	480 kV	5,20	H31
PXV4800*	8,00	4	6800	480 kV	5,40	H32

* Add the end fitting code at the the end of the reference (ex : PSM250U / PXV3450APV).

RTTE

INSULATING STICKS

IEC 60855-1 / EN 50508

Use: For no-voltage testing from 20 kV to 400 kV in all weathers. Also suitable for earthing, disconnector operation...

+ Quick insulated slot-in connectors.

The sticks can only be used once the 3 sections have been fitted together, which ensures the safety distances (MAD) are respected when carrying out no-voltage testing.

The slot-in connection system makes the sticks extremely rigid and also enables them to be used for earthing.

Technical specifications: Foam-filled fibreglass composite tube, IEC 60855-1, Ø 39 and 32 mm (end section).

Dielectric strength 100 kV/30 cm after wet conditioning.

Neoprene protective skirts.

Rubber hand guard marking the limit of where to place the hands.

Shaft covered with non-slip sheath.

RTTE sticks can be supplied off the shelf with these end fittings:

- U : notched universal end fitting.
- APV : multi-purpose, 12 mm 6-sided with automatic locking.
- B : bayonet end fitting.
- EAF : multi-purpose, 21 mm 6-sided.



Ref.	Description	Length (m)	Insulating length (m)	Composition (Lh + L1 + L2)	Cover	Weight (kg)
RTTE25	Insulating stick 25 kV	1,60	0,95	Lh = 0,57 m	H10	1,30
RTTE36	Insulating stick 36 kV	2,10	1,45	Lh = 0,57 m	H11	1,60
RTTE90	Insulating stick 90 kV	3,20	2,10	PI302 (1 m) + PI477 (1,1 m) + PI478 (1,1 m)	HTT41900	3,20
RTTE150	Insulating stick 150 kV	3,60	2,60	PI302 (1 m) + PI307 (1,1 m) + PI308 (1,6 m)	HTT41900	3,50
RTTE63	Insulating stick 63 kV	2,70	1,60	PI302 (1 m) + PI309 (1,1 m) + PI310 (0,6 m)	HTT41900	3,00
RTTE225	Insulating stick 225 kV	4,10	3,10	PI302 (1 m) + PI305 (1,1 m) + PI306 (2,1 m)	HTT42400	3,80
RTTE400	Insulating stick 400 kV	5,10	4,10	PI302 (1 m) + PI303 (2,1 m) + PI304 (2,1 m)	HTT42400	4,60
RE115	Stick extension 1,15 m					
RE165	Stick extension 1,15 m					
RE215	Stick extension 2,15 m					

RTTE25 and RTTE36 are non-extendable single section sticks. Complete the reference of your choice with the code corresponding to the end fitting required



PRE

SPECIAL HEAVY DUTY CONNECTABLE INSULATING STICKS MADE OF Ø 39 MM TUBE

IEC 60855-1 / EN 50508

Use: Earthing on high and very high voltage lines and substations, All work involving high mechanical loads.

Technical specifications: • Fibreglass composite tube, Ø 39 mm, polyurethane foam-filled, compliant with IEC 60855 (series tested against penetration of humidity).

- Longitudinal dielectric strength 100 kV/30 cm guaranteed in humid atmosphere.
- Screw connectors ref. S46, light alloy with brake and protective sleeve.
- Elastomer hand guard marks the gripping zone.
- Ribbed non-slip shaft. Lgth. and references to order: see table.

Composition:

The PRE stick made up of several sections always has:

- a basic PFE section
- one or more PSE upper sections
- an S46 end adapter suited to the clamp to be handled (see PRE stick adapter connection).

Fixed end fitting :

Ring (AN) and hexagon (HE) fittings can be permanently mounted on the end section: please specify when ordering.

Ref.	Number of elements	Overall length (m)	Shaft length (m)	Insulating length (m)	Weight (kg)	Cover
1\ Lower section only : PFE (shaft)						
PFE1-100		1,05	0,70	0,30	1.10	
PFE1-150		1,55	1,00	0,50	1.50	
PFE1-200		2,05	1,50	0,60	1.90	
PFE1-250		2,55	1,50	1,00	2.40	
PFE1-300		3,05	1,50	1,70	2.90	
PFE100ANC		1,20	0,45	0,30	1.20	
PFE200ANC		2,20	0,70	0,60	2,00	
PFE100HE		1,10	0,45	0,30	1.20	
PFE200HE		2,10	0,70	0,60	2,00	
2\ Upper section only : PSE (extension)						
PSE100				0,88	1.10	
PSE150				1,38	1.50	
PSE200				1,88	1.90	
PSE250				2,38	2.30	
PSE300				2,88	2.80	
PSE100ANC				0,88	1.20	
PSE200ANC				1,88	2,00	
PSE100HE				0,88	1.20	
PSE200HE				1,88	2,00	
3\ Complete sticks : PRE						
PRE1100	1	1,05	0,25	0,75	1.10	H10
PRE1150	1	1,55	0,50	1,00	1.50	H10
PRE1200	1	2,05	0,70	1,30	1.90	H11
PRE1250	1	2,55	0,90	1,60	2.30	HTR12750
PRE1300	1	3,05	1,00	2,00	2.60	H12
PRE1400	1	4,05	1,20	2,60	3.40	H13
PRE2200	2 (2 x 1 m)	2,10	0,70	1,58	2.30	H30A
PRE2300	2 (2 x 1,5 m)	3,10	1,00	2,08	3,00	H31A
PRE2400	2 (2 x 2 m)	4,10	1,50	2,88	3.80	H32A
PRE2500	2 (2 x 2,5 m)	5,10	1,50	3,88	4.70	
PRE3300	3 (3 x 1 m)	3,15	0,70	2,46	3.40	H30A
PRE3450	3 (3 x 1,5 m)	4,65	1,00	3,76	4.50	H31A
PRE3600	3 (3 x 2 m)	6,15	1,50	5,26	5.70	H32A
PRE3750	3 (3 x 2,5 m)	7,15	1,50	6,26	6.60	

PRE stick adapter connection

IEC 60855-1 / IEC 60832

Technical specifications: To choose end fittings.

Use					
	X46	HE	AN	CL	B
Adapters					
	Direct fixing	S46HE	S46AN	S46CL	S46B

Ref.	End fitting code	Type of clamp end fitting
S46	X46	Direct fastening with clamp
S46HE	HE	Hexagonal
S46AN	AN	Ring
S46CL	CL	Bell
S46B	B or BCL	Bayonet or bayonet bell
S46U	U	Universal



PCT

Ø 32 MM HOOKED POLES FOR OFF-TENSION WORK

IEC 60855-1 / IEC 60832

Use: For the use and handling of tools and accessories fitted with a specific ring or gripper.

+ Hook adjustment.

Technical specifications: Ø 32 and 39 mm foam-core tubes in epoxy fiberglass.
Composite insulating stick head.
Insulated suspension hook.



Ref.	Colour	Overall length (m)	Weight (kg)
PCT120SJ	Yellow	1,2	2,3
PCT200SJ	Yellow	2,0	2,6
PCT240SJ	Yellow	2,4	2,8
PCT260SJ	Yellow	2,6	2,9
PCT320SJ	Yellow	3,2	3,6
PCT380SJ	Yellow	3,8	4,2
PCT120S	Orange	1,2	2,3
PCT200S	Orange	2,0	2,6
PCT240S	Orange	2,4	2,8
PCT260S	Orange	2,6	2,9
PCT320S	Orange	3,2	3,6
PCT380S	Orange	3,8	4,2



Adapters for hooked stick

Ref.	Description
32739	U adapter for hooked stick
32747	APV adapter for hooked stick

Other sticks and accessories • Live working sticks



TP30

UNIVERSAL STICK

Use: This stick can be used to fix and handle any tool fitted with a universal support, and among other, brushes ref. TB20 and TB25.

Technical specifications: This stick can be used to fix and handle any tool fitted with a universal support, and among other, brushes ref. TB20 and TB25.



Ref.	Diameter (mm)	Length (m)	Weight (kg)
TP30	Ø 32	2,60	1,10

Accessories:

TB20	Brush for copper conductors
TB25	Brush for aluminium conductors

Live working sticks

Type of network: LV  MV  HV 

TP25

CABLE CUTTER STICK

Use: This cable cutter can cut from the finest ties to 100 mm² cable conductors as well as all anchor clamp rings.

Technical specifications: White 32 mm diameter tube and 10 mm fibreglass control rods.

Extremely hard blades : can be used for long periods without needing sharpening.

Easy to sharpen with a bench grinder.

Interchangeable blades.



Ref.	Diameter (mm)	Length (m)	Weight (kg)
TP25	Ø 32	2,60	3,50

TP26

STICK WITH HOOK

Use: Designed for installation and removal of connectors and other accessories for remote works on live lines.

+ Easy to handle : the hook easily takes on three different positions :

- hook retracted,
- hook visible but closed («universal joint» position)
- hook visible but open

Technical specifications: White 32 mm tube and 10 mm fibreglass control rods.

Low-maintenance aluminium bronze mechanism.

Sheath and rod guide made of unbreakable plastic.



Ref.	Diameter (mm)	Length (m)	Weight (kg)
TP26	Ø 32	2,50	2,10

TM05N

TIGHTENING HAND WITH INSULATING BODY

Use: Used with an operating rope, the tightening hand allows to grasp, fix and remove insulated aerial bundled connectors, or the modify its mechanical stress.

Technical specifications: Main de serrage composée de :

- a C-shaped insulating body
- an eye bolt protected against corrosion
- une anse en cordelette en fibres synthétiques Ø 5 mm couleur bleu/noir
- tightening capacity : 11 to 23 mm (corresponds with insulated aerial bundled connectors 2 x 6 mm² to 4 x 25 mm²)
- charge maximale d'utilisation appliquée à l'anse : 80 DaN



Ref.	Dimensions (mm)	Weight (g)
TM05N	160 x 100 x 60 mm	300

NEW

PENTAPOLE LV MV

MULTI-PURPOSE TELESCOPIC INSULATING STICK PENTA-POLE

IEC 62193, IEC 60855-1
ASTM F 1826, ASTM F711

Use :

Telescopic insulating stick with pentagonal shape perfectly suits for :

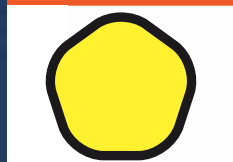
- operation of disconnect switches,
- use with voltage detectors,
- application of LV/MV earthing devices,
- maintenance work (tree trimming, conductor cleaning ...)

Technical specifications :

- Telescopic insulating stick composed of :
- 2 to 8 pentagonal shaped tubes compliant with standards IEC 62193 and ASTM F1826
 - 1 foam-cored upper tube, 28 mm in diameter, compliant with standards IEC 608551 and ASTM F711
 - 1 base to protect the end of the stick
 - 1 universal end fitting to fix multiple accessories and adapters
 - 1 operating hook



- > Ergonomically designed grip thanks to its pentagonal shape that fits the palm of the hand
- > The pentagonal shape prevents the tubes rotating on each other
- > Very lightweight stick : requires less effort during use
- > Very good rigidity providing optimal control during your operations
- > The sections are locked together automatically when the stick is extended by a large and very robust red button. Unlocking to retract the stick simply involves pressing the button.

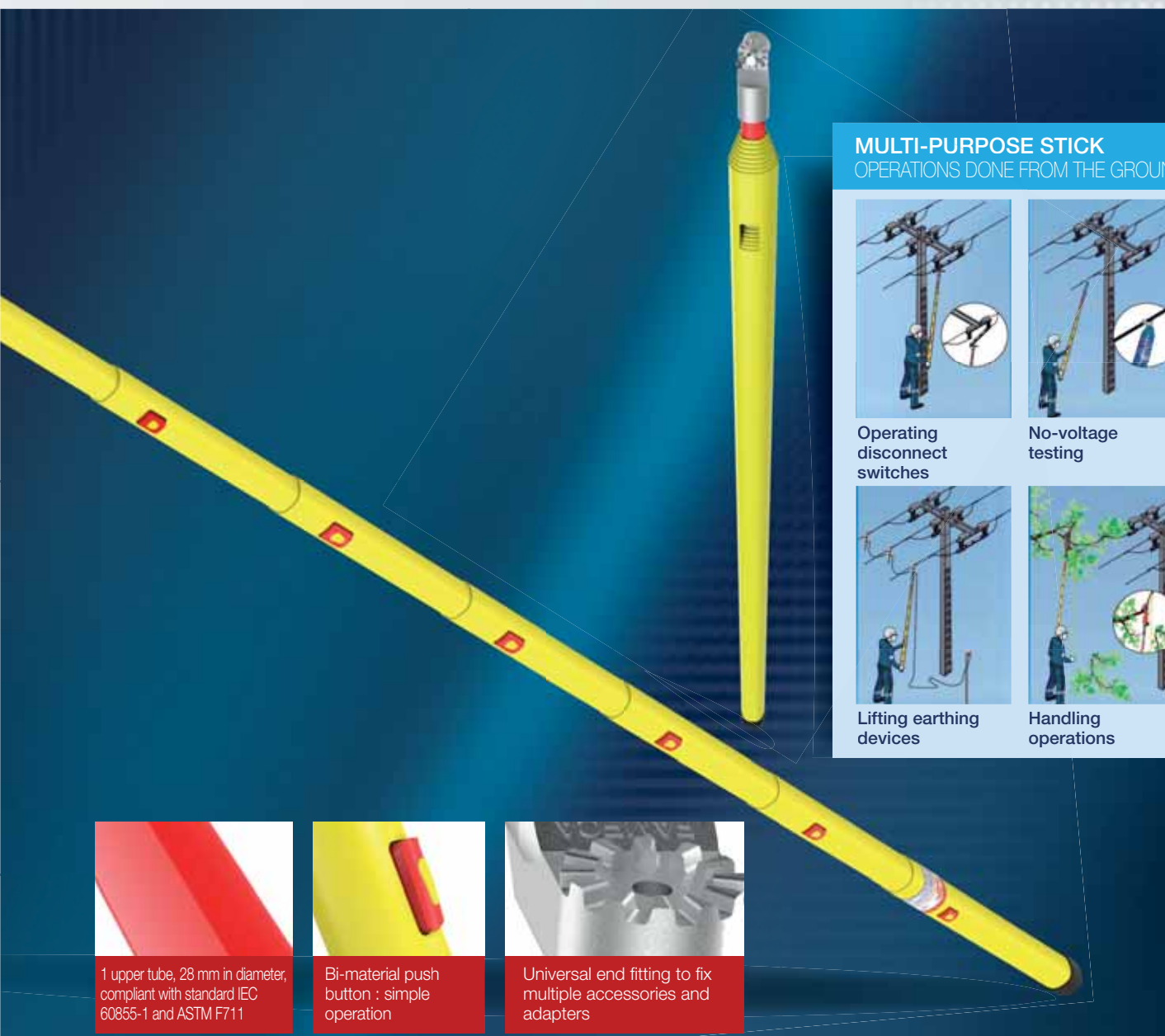


The pentagonal shaped tubes combine design, ergonomics and mechanical strenght



Made of 2 to 8 pentagonal shaped tubes

- > Recommended soft covers :
 - For PPOL3, PPOL4 and PPOL5 : HPPOLE/170
 - For PPOL6, PPOL7, and PPOL9 : HPPOLE/190



MULTI-PURPOSE STICK OPERATIONS DONE FROM THE GROUND



Operating disconnect switches



No-voltage testing



Lifting earthing devices



Handling operations



1 upper tube, 28 mm in diameter, compliant with standard IEC 60855-1 and ASTM F711



Bi-material push button : simple operation



Universal end fitting to fix multiple accessories and adapters

Reference	Number of sections	Length when extended		Length when retracted		Average weight	Soft cover
		m	ft"	m	ft"		
PPOL3/035U	3	3,80 m	12'5"	1,45 m	4'9"	1,89 kg	HPPOLE/170
PPOL4/050U	4	5,00 m	16'4"	1,54 m	5'0"	2,48 kg	HPPOLE/170
PPOL5/060U	5	6,40 m	21'0"	1,60 m	5'2"	3,16 kg	HPPOLE/170
PPOL6/075U	6	7,80 m	25'7"	1,67 m	5'5"	3,96 kg	HPPOLE/190
PPOL7/090U	7	9,20 m	30'2"	1,74 m	5'8"	4,70 kg	HPPOLE/190
PPOL8/105U	8	10,60 m	34'9"	1,80 m	5'10"	5,52 kg	HPPOLE/190
PPOL9/120U	9	12,00 m	39'4"	1,84 m	6'0"	6,35 kg	HPPOLE/190

Sticks come with a universal end fitting and an operating hook.

If you would like another type of end fitting, complete the reference with the code corresponding to end fitting required (in this case, the sticks is delivered without the operating hook).

APV : multipurpose end fitting, 12 mm 6 sided with automatic locking

U : notched universal end fitting

B : bayonet end fitting

Other end fittings : on request, please enquire.

New!

PENTA-POLE measure

TELESCOPIC INSULATING MEASURING STICK

Use:

The Penta-Pole measuring stick has measurement graduations (in mm) on each section allowing to easily measure any heights range from 3 m to 12 m.

Designed to be used on Middle Voltage overhead networks (nominal voltage lower than 123 kV).

- Ergonomically designed grip thanks to its pentagonal shape that fits the palm of the hand
- The pentagonal shape prevents the tubes rotating on each other
- Very lightweight stick : requires less effort during use
- Very good rigidity providing optimal control during your operations
- The sections are locked together automatically when the stick is extended by a large and very robust red button. Unlocking to retract the stick simply involves pressing the button, with no risk of trapping finger or gloves in the mechanism

Technical specifications:

Telescopic insulating stick composed of :

- 5 to 8 pentagonal shaped tubes compliant with standards IEC 62193 and ASTM F1826, each section has a measurement graduation in millimetre
- 1 foam cored upper tube, 28 mm in diameter, compliant with standards IEC 608551 and ASTM F711
- 1 base to protect the end of the stick
- 1 universal end fitting to fix multiple accessories and adapters
- 1 operating hook



Ref.	Number of elements	Extended length (m)	Extended length (in)	Folded length (m)	Folded length (in)
PPOL6/075MU	6	7,70	25'2"	1,65	5'4"
PPOL7/090MU	7	9,10	29'10"	1,71	5'7"
PPOL8/105MU	8	10,55	34'7"	1,78	5'10"
PPOL9/120MU	9	12	39'4"	1,78	5'10"



PENTA-POLE R

INSULATING TELESCOPIC STICK 2,36 M

IEC 60855-1 / IEC 6213 / ASTM F 1826

Use: The insulating telescopic stick achieves great heights up to 10,7m while maintaining a compact folded 1,76m length.

The pole is constituted of 5 to 8 elements, which can be adapted to all configurations of use. Its low weight and high rigidity allows easier handling and more precise movements

Mainly made for installing, removing and also changing out cutout fuse barrels on end pylon distribution, through its remarkable mechanical properties described below, the pole gives multiple complementary application as :

- Installation and removal : lifeline, hook measuring, cleaning drivers
- Proving dead with voltage detector
- Pruning
- Conductive cable lifting (special transport)
- Grounding from the floor to grid deployment with the pole upright

• Round terminal tube IEC 60855-1 / ASTM F711

The terminal tube is a round tube built on a rigid, waterproof polyurethane foam. The terminal tube by its circular shape, responds fully to the scope and requirements of the CEI 60855-1 standard.

• Weight / Stiffness

Each stick's tubes were made in order to optimized its modulus of elasticity and also their weight.

• Shape

By its unique shape, curved pentagonal brings a feeling of exceptional taking in hand (Figure 5), while remaining close to a cylindrical shape commonly used for poles.

Moreover, this form is used to transmit important torque efforts torsion during operation requiring an action of tightening or loosening.

• Lock button

The locking elements is provided automatically when deploying the pole by a wide sturdy bi-material button. Unlocking and folding is achieved by a simple action on the button.

Technical specifications: Constitution :

- 1 top tube diameter 32mm in accordance with IEC 60855
- 2 to 7 tubes of pentagonal shape in accordance with IEC 62193 and ASTM F 1826 standards
- 1 universal end fitting to accommodate multiple accessories and adapter.



Ref.	Number of sections	Extended length (m)	Extended length (in)	Folded length (m)	Folded length (in)
PPOLR6/065U	5	6,43	21'1"	1,63	5'4"
PPOLR7/080U	6	7,85	25'8"	1,69	5'6"
PPOLR8/095U	7	9,31	30'6"	1,76	5'9"
PPOLR9/105U	8	10,76	35'3"	1,76	5'99"



PENTA-POLE Compact

5 SECTIONS COMPACT INSULATING STICK

IEC 60855-1 / IEC62193 / ASTM F 1826

Use: Insulating stick with five sections for any kind of weather for :

- Voltage detection
- Grounding for LV
- Disconnecter manoeuvres
- All works that do not generate big mechanical stress

Technical specifications: The insulating stick is made up with a Ø 28mm fiberglass foam-filled tube enforce by the standard IEC 60855-1 and a pentagonal tube.

The end of the upper item Ø28 is equipped with an universal end fitting to receive various accessories.

Ref.	Extended length (m)	Extended length (in)	Folded length (m)	Folded length (in)
PPOL5/024	2,36	7'8"	0,71	2'4"



PENTA-POLE SHORT LENGTH RANGE

2 OR 3 SECTION INSULATING STICK FROM 1,54 M TO 2,05 M

IEC 60855-1 / IEC 62193 / ASTM F 1826

Use: Insulating stick with two or three sections for any kind of weather for :

- voltage detection
- Grounding for LV
- Disconnecter manoeuvres
- All works that do not generate big mechanical stress

Technical specifications: The insulating stick is made up with a Ø 28mm fiberglass foam-filled tube enforce by the standard IEC 60855-1 and a pentagonal tube.

The end of the upper section Ø28 is equipped with an universal end fitting to receive various accessories.

Ref.	Extended length (m)	Extended length (in)	Folded length (m)	Folded length (in)
PPOL2/015	1,54	5'0"	0,90	2'11"
PPOL2/020	2,05	6'8"	1,17	3'10"
PPOL3/020	2,01	6'7"	1,32	4'3"

PTUM

COMPACT TELESCOPIC INSULATING STICK FOR WORK AT GREAT HEIGHTS

IEC 60855-1 / EN 50508

Use: Can be used for all work at great heights in a high voltage environment:

- installation or removal (life lines, measuring hooks, etc.)
- operation by pulling or compression (disconnecter)
- tree pruning
- conductor lifting (passage of large vehicles)
- checking for absence of nominal voltage (NB: the all-weather operating voltage is given with the last fully extended section)
- all work not involving high mechanical loads

Folding telescopic insulating stick made up of connectable sections and equipped with lever connections to lock it at the required length.

The folded length is the same for all the main references: 1.8 m

The fully extended length varies from one reference to another, with the addition of extra lower sections.

Used for large-scale work at heights, but remains very compact when retracted, allowing direct vertical extension and easy transport and storage.

IMPORTANT: These sticks are not suitable for tightening and releasing.

Technical specifications: The tubes making up the stick have a smooth, shiny finish and are UV-protected, which guarantees the pole a long service life.

Insulating stick made up of 3 to 8 sections depending on the extended length required.

The upper section is made of foam-filled tube, Ø 26 mm compliant with the IEC 160855-1 standard, and its dielectric strength is 100kV/30 cm.

The lower sections are made of hollow tube with a high modulus of elasticity in flexure to guarantee sufficient rigidity in spite of the relatively light weight.

PTUM sticks can be supplied off the shelf with all types of end fittings:

- APV: multi-purpose, 12 mm 6-sided with automatic locking.
- U: notched universal end fitting.
- B: bayonet end fitting.
- EAF: 21 mm lockable hexagonal end fitting.
- DA: socket for anchoring device fastening (ANTEC type, standard EN 795)
- SCI: for direct fixing of a tree pruning saw
- ECH: for direct fixing of a branch pruner
- M8 or M10: M8 or M10 threaded end fitting
- Other: on request

Please specify when ordering (add the end fitting reference to the end of the reference)

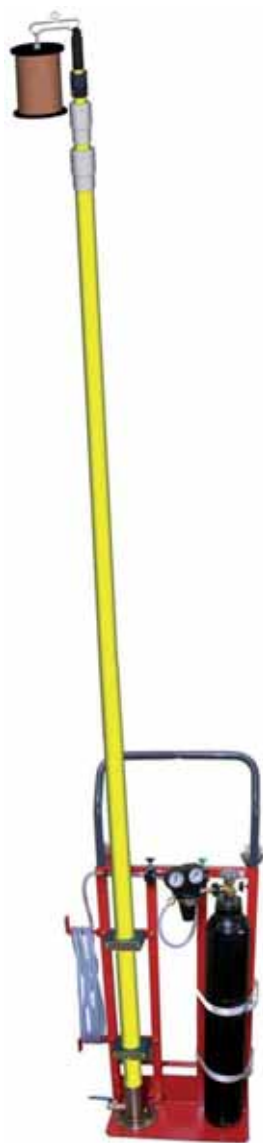
Optional transport cover:

- H1P180V: cover length 1.85 m, for one stick
- H1P180H: cover length 1.85m, for one or two sticks



Ref.	1st section diameter (mm)	Extended length (m)	Folded length (m)	Number of elements	Weight (kg)	Max operating voltage
PTUM18X600	38	5,9	1,8	4	2.300	123 kV
PTUM18X700	42	7,1	1,8	5	2.800	123 kV
PTUM18X850	46	8,3	1,8	6	3.400	123 kV
PTUM18X950	50	9,4	1,8	7	4.100	123 kV
PTUM18X1050	54	10,4	1,8	8	4.700	123 kV

End section fully extended, always extend the end section fully whatever the use.



PT1250SB

PNEUMATIC INSULATING STICK

Use: The PT1250 pneumatic insulating stick assembly is designed for no-voltage testing, followed by the placing of an insulating rope over overhead conductors up to 12.5 metres high.

This rope will then be used to position the earthing clamp with rope.

The telescopic stick consists of 4 insulating tubes made of yellow fibreglass.

The upper section is an IEC 60855 type foam-filled tube, which is extended manually and locks with a sealing gland type connection. It is equipped with an S37 fitting (PXV type) enabling :

- The fixing of an S37U adapter for absence of nominal voltage testing with a TAG300 or TAG330 type voltage detector (not supplied) equipped with a special V antenna ref. ANTPT1250VAT (not supplied),
- The fixing of a 70039941 reel holder adapter enabling the insulating rope to be passed over the conductor.

The 68729846 reel is fitted with an insulating rope (IEC 62192), diameter 8 mm, 30 m long.

The stick is fixed by 2 removable clamping collars onto a trolley with the stick controls and a cylinder of compressed gas: NITROGEN (not supplied: optional)

Technical specifications: Telescopic stick:

L retracted = 3800 mm.

ML extended = 12500 mm (maximum length with end section fully extended).

mL extended = 9710 mm (minimum length with end section fully retracted).

All lengths possible between ML and mL (travel adjustable over 2790 mm).

NB: when using for no-voltage testing, always fully extend the upper section

Dielectric strength of the stick tube: 100kV / 30cm

Use of cylinder of compress gas: NITROGEN only. (Oxygen is PROHIBITED, compressed air tolerated)

Unit supplied without cylinder of nitrogen.

Number of stick extensions: depends on the capacity of the nitrogen cylinder.

Stick lowered by gas release.

The insulating parts operated pneumatically are sealed by joints which are themselves protected by scraper seals.

All these seals can easily be replaced when necessary using the KJPT1250 maintenance kit

Ref.		Dimensions (mm)	Weight (kg)
PT1250SB	Complete pneumatic insulating stick without cylinder	3800 x 500 x 580	27
Contents:			
68729846	Insulating reel only		
70039941	Adaptator S37 for reel holder		
ANTPT1250VAT	Antenna for no-voltage testing		
CI08CEI	Insulating rope Ø 8 mm, IEC 62192		
CPT1250	Trolley only with pneumatic control system		
PP41250S37	Pneumatic stick only		
S37U	Adapter S37 / U		

PDD  

DISCHARGE STICK

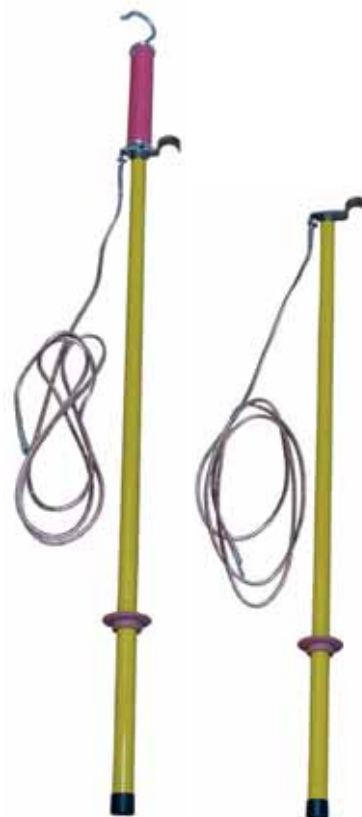
IEC 60855-1

Technical specifications: Insulating stick (telescopic or with sections), equipped with a discharge resistor, with or without cable and an earthing clamp (PTS38)

Available without discharge resistor.

Dimensions of the discharge resistor : 330 x 51 x 51 mm

Weight of the discharge resistor : 500 g



Ref.	Type	Resistance value (Ω)	Max operating voltage w/ stick extended (Kv DC)	Folded stick length (mm)	Extended stick length (mm)	Cable cross-section (mm ²)	Cable length (m)
PDD001	Telescopic stick	115	100	2155	3605	16	10
PDD002	Telescopic stick	6000	40	2155	3605	16	10
PDD003	1 section stick	10000	33	1300	N/A	16	10
PDD004	Telescopic	1500	1,5	2460	4220	35	10
PDD005	Telescopic	15000	1,5	2460	4220	35	10
PDD006	1 section stick	6000	50	1700	N/A	16	3,5
PDD007	Telescopic	2500	120	2250	2250	25	5
PDDS001	Telescopic	N/A	225	1795	3245	16	10
PDDS002	1 section stick	N/A	225	1500	N/A	16	3
PDDS003	1 section stick	N/A	225	1500	N/A	16	5
PDDS006	1 section stick	N/A	50	1350	N/A	16	3.5



Innovation !

PPU

UNIVERSAL STICK SUPPORT

Use:

The universal stick support is a useful and helpful device when extending a telescopic stick of any shapes.

It allows the operator to hold firmly the bottom of the stick on the ground, using only his weight, in order to extend the stick using the strength of his arms. This device is particularly helpful to extend a telescopic stick fitted with heavy tool.

+ Easy and comfortable in-use : the working position is unchanged, the stick is held by foot pressure and the stick is easily released once fully extended.

Technical specifications:

Tightening of the stick on EPDM rubber surface.

Anti-slip pedal.

Compatible sticks : all shapes, diameter from 40 to 75 mm

Ref.	Dimensions (mm)	Weight (g)
PPU	310 x 200 x 105	1300



NE23

STICK LIFTER ROD

Use: Used to lift very long sticks resting on the rod driven into the ground beforehand.

+ Effortless lifting of insulating sticks even with an earthing device at the end.

Technical specifications: For sticks with a bottom section with a diameter of up to 50 mm.

Ref.	Description	Weight (kg)
NE23	Stick lifter rod	3,62



LP9054

STICK LIFTER

Use: Used to lift very long sticks resting on a metal structure.

Technical specifications: Tightening clamp, capacity 33 mm.

For sticks with a bottom section with a diameter of up to 50 mm.

Ref.	Length (mm)	Weight (kg)
LP9054	200	1.300

New!

TT7415

HOT STICK TESTER

Use:

The TT7415 detector checks the insulating quality of yours poles, rods and ropes.
The tester does not only identify surface defects. Its capacitive principle of measurement allows to detect internal and external insulation faults.
It provides in-depth control which makes it a unique device

- ⊕ - Check the insulation level of equipment before use.
- Internal and surface insulation defect detection.
- Harmless testing voltage.
- Compact and light.
- Built in checking sequence and test tube.
- Adapted to any standard Insulating elements like IEC 60855 foam filled tubes, insulating rods and insulating ropes for live working operation.
- Battery operated for field use.

Technical specifications:

- Calibrated for the following diameters :
 - Rods Ø 10 mm and Ø 15 mm
 - Poles Ø 28-32, Ø 39, Ø 51, Ø 64 and Ø 77 mm
 - Ropes Ø 8 mm to Ø 14 mm
- Power supply by rechargeable battery
- Adapter 230 V 50 Hz
- Delivered in robust carrying case with adapter and test tube



Ref.	Dimensions (mm)	Weight (kg)
TT7415	190 x 120 x 135	1,8

TC53

INSULATED SILICONE-COATED CLOTH

Use: Helps protect the surface of insulating sticks, detectors or other items with dielectric properties.

Technical specifications: Supplied in individual plastic pouches.



Ref.	Dimensions (mm)	Weight (g)
TC53	380 x 340	40



JC660

GAUGE

Technical specifications: For conductors 6 to 60 mm.

Made of polycarbonate.

Graduated in mm.

Universal end fitting.

Supplied in JJB10 case.

Ref.	Dimensions (mm)	Weight (g)
JC660	270 x 190 x 25	425



JJB30210

GAUGE

Technical specifications: For busbars 30 to 210 mm.

Made of polycarbonate.

Graduated in mm.

Universal end fitting.

Supplied in JJB10 case.

Ref.	Dimensions (mm)	Weight (g)
JJB30210	380 x 290 x 21	700



PMT632

GAUGE

Technical specifications: For conductors 3 to 13 mm.

Made of yellow Dilophane.

Graduated in mm.

Supplied in PMT633 soft case.

Ref.	Description	Dimensions (mm)	Weight (g)
PMT632U	Gauge with universal end fitting	205 x 90 x 25	100
PMT632	Gauge for use with M8 adaptor	205 x 90 x 25	100

TB20-TB25

BRUSH FOR COPPER OR ALUMINIUM CONDUCTORS

Use: For superficial cleaning of conductors, in contact or remote working (when mounted on a universal stick ref. TP30).

Technical specifications: C-shaped swivelling body made of insulating material.

«File card» type metal brush inside the body.



Ref.	Description	Dimensions (mm)	Weight (g)
TB20	Brush for copper conductors	90 x 75 x 60	90
TB25	Brush for aluminium conductors	90 x 75 x 60	100

CM

OPERATING HOOKS

Use: Operating hooks are fitted onto insulating sticks. They can be used to operate (open/close) disconnecting switches.

Technical specifications: Operating hooks are made of steel, protected against corrosion by zinc plating, giving them an increased service life.

No residual deformation, even after use in situations where they are subject to high tensile stress. Extremely shock-resistant, so their properties remain intact even if dropped onto a hard surface.

The anti-corrosion treatment allows intensive outdoor use however aggressive the environment.

Their shape is adapted to most configurations of use and the different types of connection mean they can be used with most types of end fitting found on insulating sticks.



Ref.	Description	Dimensions (mm)	Weight (g)
CMU1	Operating hook for fitting onto a Universal connection	120 x 60 x 25	160
CMU2	Double operating hook for fitting onto a Universal connection	120 x 80 x 25	200
CMAPV	Operating hook for fixing onto APV type end fitting (12 mm, hexagonal)	120 x 60 x 25	145
CM10	Operating hook for fitting onto a M10 thread	120 x 60 x 25	145

BVSI

INSULATING OPERATING HOOK

Use: The BVSI insulating operating hook fits onto an insulating stick with a B end fitting. It is used to operate (open/close) disconnecting switches.

Technical specifications: The hook operating finger is made of composite material strongly reinforced with fibreglass.

The hook body is also made of reinforced composite material.

It fits onto sticks with bayonet fittings and is equipped with an insulating knurled nut for locking it.

This assembly thus consists of an entirely insulating active part reinforced mechanically to withstand the repeated tensile and shear stresses inherent in its use.



Ref.	Description	Dimensions (mm)	Weight (g)
BVSI	Insulating operating hook	130 x 69 x 40	160



ERS3437

BRANCH PRUNER

Use: Stick mounted cutting tool.

Used to cut high branches without using a ladder.

+ Reduced triple action branch pruner : reduced fatigue.

Technical specifications: Bypass pruner with fully hardened, double bevelled blade.

Counterblade with sap groove is also hardened.

It is fitted with an IEC 62192 type insulating rope 10 metres long and a handle.

Type of insulating stick recommended : Penta-Pole and PXV

Ref.	Description	Dimensions (mm)	Weight (kg)
ERS3437CI	Branch pruner without end fitting	260 x 220 x 60	1.260
ERS3437U	Branch pruner with U end fitting	320 x 220 x 60	1.530
ERS3437B	Branch pruner with B end fitting	330 x 220 x 60	1.620
Spare part(s):			
CI06CEI	Insulating rope IEC 62192 (sold by meter)		
R137E	Blade		
R337E	Blade screws		
R437E	Spring		
Option(s):			
4400	Pruning saw blade		



End fittings for pruner

Use: - U end fitting: Adapter can be locked onto a stick with a universal end fitting to fix on a pruner.

- BV end fitting: End fitting designed to be locked onto a stick with a VDE bayonet end fitting to fix on a pruner.

- Fixed adapter on pole: End fitting permanently mounted on the stick to take the pruner.

Technical specifications: BV end fitting: Consists of a stainless steel VDE bayonet pin with a knurled nut made of a synthetic material for locking onto the stick end fitting. The pruner is fixed onto the other end.

Fixed adapter on stick: Add ECH to the end of the reference of the insulating stick required.

Ref.	Description	Dimensions (mm)	Weight (g)
UECH	U adapter for branch pruner	166 x 33 x 23	270
BVECH	Lockable B adapter for branch pruner	142 x 40 x 40	360
ECH	Fixed adapter on pole (add reference to the end of the reference of the pole required)		

ERS03908

BRANCH SAW

Use: Branch saw to fit onto an insulating stick.
Used to cut high branches without using a ladder.

Technical specifications: Steel blade.
Type of insulating stick recommended : Penta Pole and PXV.



Ref.	Description	Dimensions (mm)	Weight (g)
ERS03908	Branch saw without end fitting	470 x 110 x 2	180
BVSCER	Branch saw with B end fitting	570 x 110 x 28	440
ERS03908U	Branch saw with U end fitting	550 x 110 x 25	510

End fittings for branch saw

Use: - U end fitting : Adapter can be locked onto a stick with a universal end fitting to fix on a branch saw.
- BV end fitting : End fitting designed to be locked onto a stick with a VDE bayonet end fitting to fix on a branch saw.
- Fixed adapter on stick : End fitting permanently mounted on the stick to take the branch saw.

Technical specifications: BV end fitting : Consists of a stainless steel VDE bayonet pin with a knurled nut made of a synthetic material for locking onto the stick end fitting. The branch saw is fixed onto the other end with two stainless steel screws.

Fixed adapter on stick : Add SCI to the end of the reference of the insulating stick required.



Ref.	Description	Dimensions (mm)	Weight (g)
EMUSC	U end fitting	141 x 33 x 28	260
BVSC	B end fitting	145 x 50 x 25	330
SCI	SCI Fixed adapter on stick (add reference to the end of the reference of the stick required)		

JBG100BV

LINE ICE BREAKER ROD

Use: Used to break the ice that forms on overhead lines.
Insulating rod designed to be locked onto an insulating stick with a VDE bayonet end fitting.

Technical specifications: The assembly consists of an epoxy fibreglass insulating rod and a stainless steel VDE bayonet pin with a knurled nut made of a synthetic material for locking onto the stick end fitting.

Other types of end fitting on request.

Type of insulating sticks recommended : Penta-Pole and PXV.



Ref.	Dimensions (mm)	Weight (g)
JBG100BV	1100 x 40 x 40	690

New!



UFH

UNIVERSAL FUSE HANDLE

Use:

Designed to install, remove and cutout fuse barrels.
Adapted to all universal sticks.
Recommended to be used with PENTA-POLE hot stick.

⊕ Only 1 tool for the 3 different types of fuses.

Technical specifications:

Material : aluminium.

Consists of :

- 3 fingers matching all types of fuses
- Special shape of the support hole adapted to hold the fuse
- Hook to install and remove the fuse
- Universal fitting

Ref.	Dimensions (mm)	Weight (g)
UFH	130 x 108 x 53	360



EFMT

FUSE EXTRACTOR

⊕ Insulating sheath improves grip.

Technical specifications: Min. clamping diameter: 35 mm
Max. diameter: 70 mm.
Available with all types of end fitting.

Ref.	Description	Dimensions (mm)
EFMTB	Fuse extractor with B end fitting	230 x 80
EFMTU	Fuse extractor with U end fitting	230 x 80
EFMTBV	Fuse extractor with lockable bayonet end fitting	230 x 80
EFMTAPV	Fuse extractor with APV end fitting	230 x 80



CRY02

INSULATED V-SHAPED LIFTING ANTENNA

Use: Fixed onto the end of an insulating stick, can be used to lift conductors to allow the passage of an unusually large vehicle.

Technical specifications: Made of stainless steel and insulated by a 4 mm PVC coating.

Fastens with an M8 thread.

V angle: 90°.

Opening: 200 mm.

Height: 140 mm.

Ref.	Description
CRY02	Lifting antenna with M8 thread
CRY02APV	Lifting antenna with APV end fitting
CRY02U	Lifting antenna with U end fitting
CRY02EB	Lifting antenna with B end fitting

New!

MAGICROU

FASTENING SYSTEM

Use:

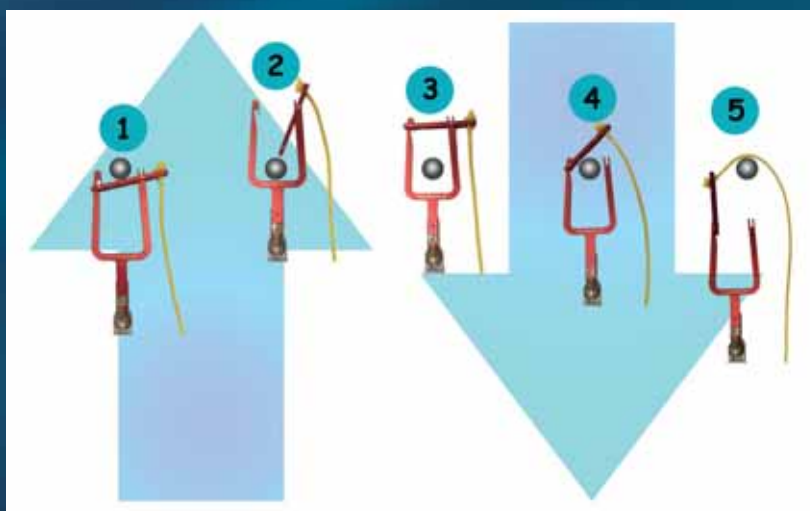
Magicrou is the first intelligent patented fastening system that offers an easy quick and secure way to pass a rope around a distant object in order to catch it, secure or tie oneself to it.

Magicrou device allows to :

- Installation of fall protection systems
- Use of ropes to pull wires
- Secure a ladder
- Installation of safety signals

Technical specifications:

Made of ultra light, antistatic aluminium that guarantees excellent strength and easy handling for distances and more complex situations.



Ref.	Description
MAGICROU	Fastening system

PBU

ADAPTER FOR REEL HOLDER WITH U END FITTING

Use: With an insulating stick equipped with a U end fitting, can be used to pass an insulating rope over a conductor using the reel ref.68729846.



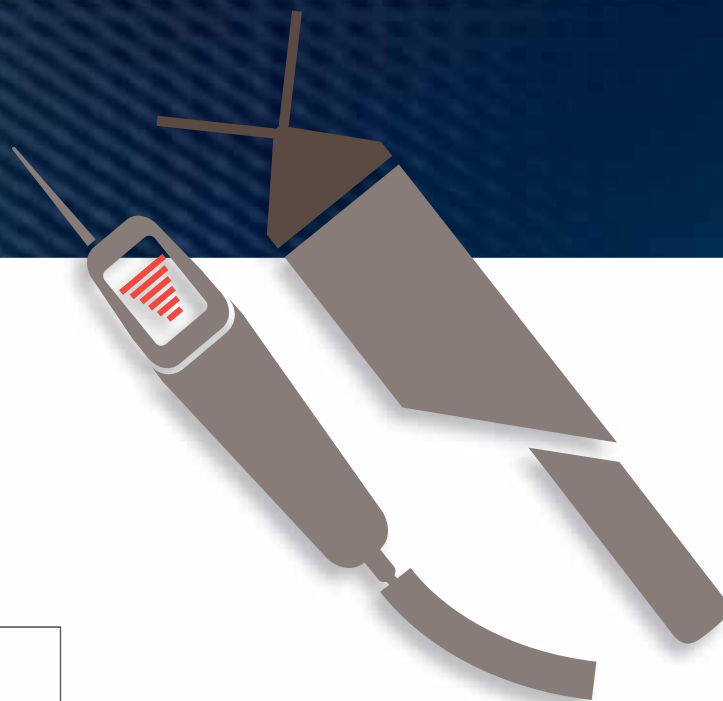
Ref.	Dimensions (mm)	Weight (g)
PBU	250 x 180 x 40	570



115 VOLTAGED
WITH LINE FITTER

Model 4000
Buck
Platform
DHT-14548

NO-VOLTAGE TESTING AND SECURE IDENTIFICATION



NO-VOLTAGE TESTING AND SECURE IDENTIFICATION

PRELIMINARY IDENTIFICATION OF CABLES AND PHASES

Operations on disconnected lines 282

NO-VOLTAGE TESTING

LV DETECTION
LV detection 290

MV DETECTION
DC voltage detector 294
Electronic voltage detectors 295
Voltage detectors and accessories 301

HV DETECTION
Voltage detectors and accessories 310
Remote electrical field detectors 314
DC Voltage detector 315

NEW

FC2310

DISCONNECTED CABLE AND PHASE VOCAL IDENTIFIER, NETWORK MAP CHECKER

STANDARDS :
Specific design complying with current safety regulations related to operation and access to electrical de-energized networks and installations

Use :

- This cable identifier is designed to work on a 3 phase de-energized cable short-circuited and earthed at both ends.
- This cable identifier is in line with the safety procedure called «SECURE IDENTIFICATION» and for this provides:
 - Cable identification between its ends, in a trench among other cables energized or not, before spiking and cutting
 - Checking of continuity between two ends of this cable before and after cutting on both sides of the cut.
- Positive identification of the 3 phase conductors of this cable before and after cutting on both sides of the cut.



- > **Designed to fulfil latest safety procedure for working on disconnected cables earthed on both ends, including the « secure ID »**
- > **Signal confined in conductors to avoid signal on screen and earthing circuits, for secure ID on any type of Energy Cables**
- > **All necessary information available in time without commuting or removing the protections**
- > **Seamless operation from earthing to service restoration**
- > **New probe “Pointer” that pin point accurately the right cable whatever the type of cable (XLPE, Paper lead, Steel armored...)**
- > **Phase ID on BOTH sides of the cable cut with transmitter A & B recognition (voice message and/or digital acknowledgement**



Technical specifications :

- Convenient for :
- Paper-lead or dry cables, steel armored cables up to 10km
 - Overhead and underground.

Availability :

- The transmitter can operate on battery or mains supply.
- Battery charging automatically stops when fully charged.
- Device packaged in 3 separate robust plastic-coated padded bags
- Carrying in a watertight wheeled yellow case.



Detector with probe for any type of insulated and shielded cables



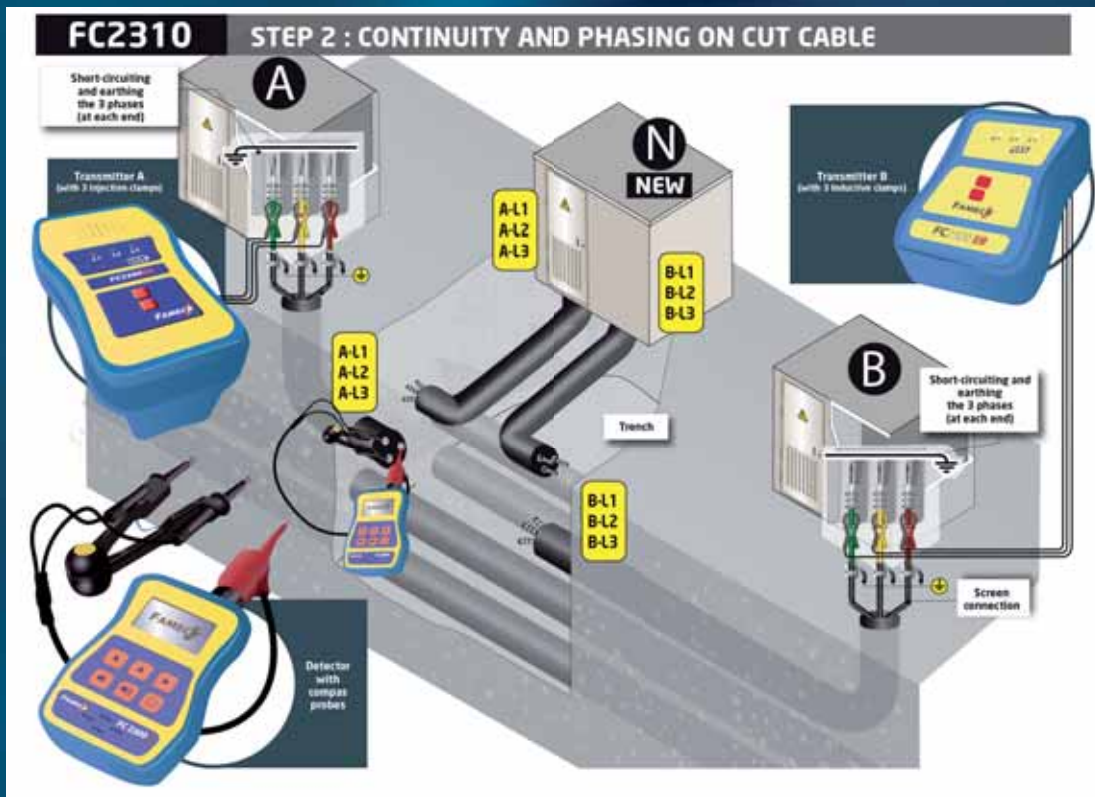
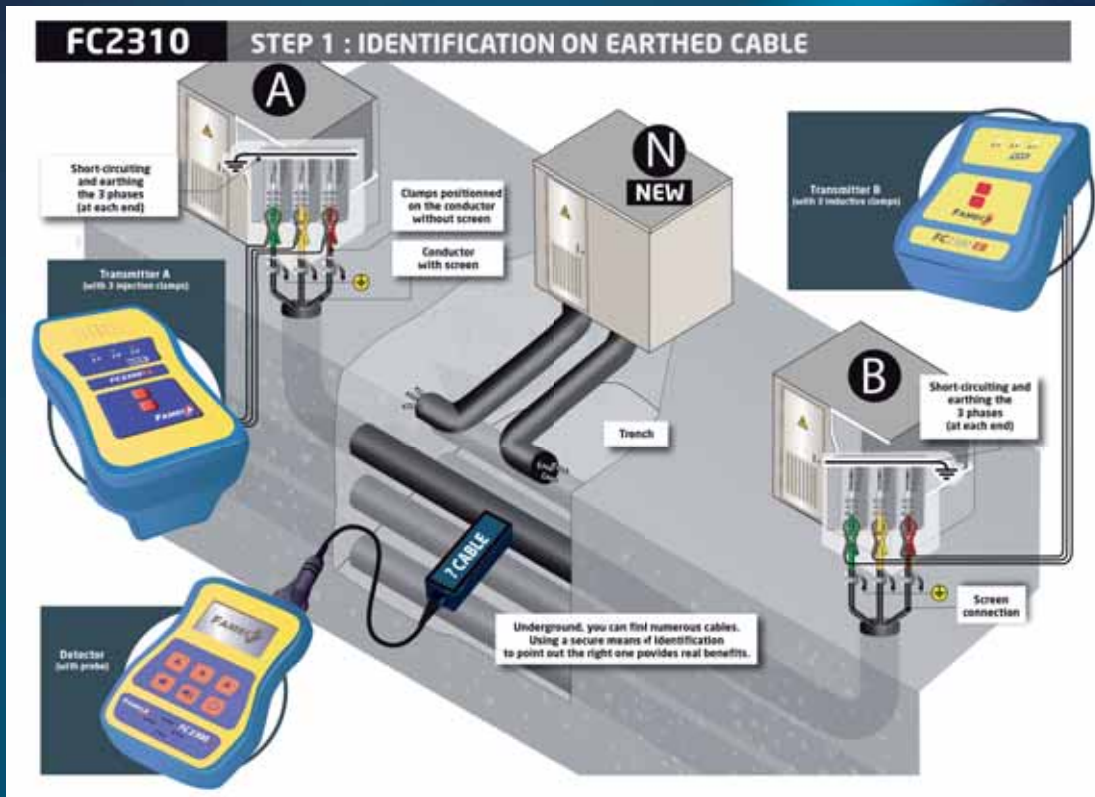
Detector with compass probe for open circuits (cut cables)



Reference	Colour			Dimensions	Weight
	L1	L2	L3		
FC2310FR	Green	Yellow	Red	627 x 475 x 292 mm	22,8 kg
FC2310EU	Red	Black	Grey		
FC2310GB	Red	Yellow	Blue		

Preliminary identification of cables and phases • Operations on disconnected lines

Type of network: LV  MV  HV 



New!

FC2300CP

CABLE AND PHASER IDENTIFIER FOR DE-ENERGIZED THREE PHASE CABLES

- Designed to fulfil latest safety procedure for working on disconnected cables earthed on both ends, including the « secure ID ».
- Signal confined in conductors to avoid signal on screen and earthing circuits, for secure ID on any type of Energy Cables.
- All necessary information available in time without commuting or removing the protections.
- Seamless operation from earthing to service restoration.
- New probe «Pointer» that pin point accurately the right cable whatever the type of cable (XLPE, Paper lead, Steel armored..)
- Phase ID on ONE side of the cable cut (voice message and/or digital acknowledgement)

Technical specifications:

Convenient for :

- Paper-lead or dry cables, steel armored cables
- Overhead and underground.
- Cable length up to 10km.

Availability :

- The transmitter can operate on battery or mains supply.
- It is designed to be permanently loading.
- Device packaged in a robust case



Single cable identification probe «pointer»



Compass probe

Ref.	Colours L1 L2 L3	Dimensions (mm)	Average weight (kg)
FC2300CPEU	Red - Black - Grey	430 x 360 x 185	9
FC2300CPFR	Green - Yellow - Red	430 x 360 x 185	9
FC2300CPGB	Red - Yellow - Blue	430 x 360 x 185	9



Preliminary identification of cables and phases • Operations on disconnected lines

Type of network: LV MV HV

New!

FC2300C

CABLE AND PHASER IDENTIFIER FOR DE-ENERGIZED THREE PHASE CABLES

- Designed to fulfil latest safety procedure for working on disconnected cables earthed on both ends, including the «secure ID».
- Signal confined in conductors to avoid signal on screen and earthing circuits, for secure ID on any type of Energy Cables.
- Compact and light equipment dedicated for simple and reliable cable ID.
- New probe «Pointer» that pin accurately the right cable whatever the type of cable (XLPE, Paper lead, Steel armoured...)

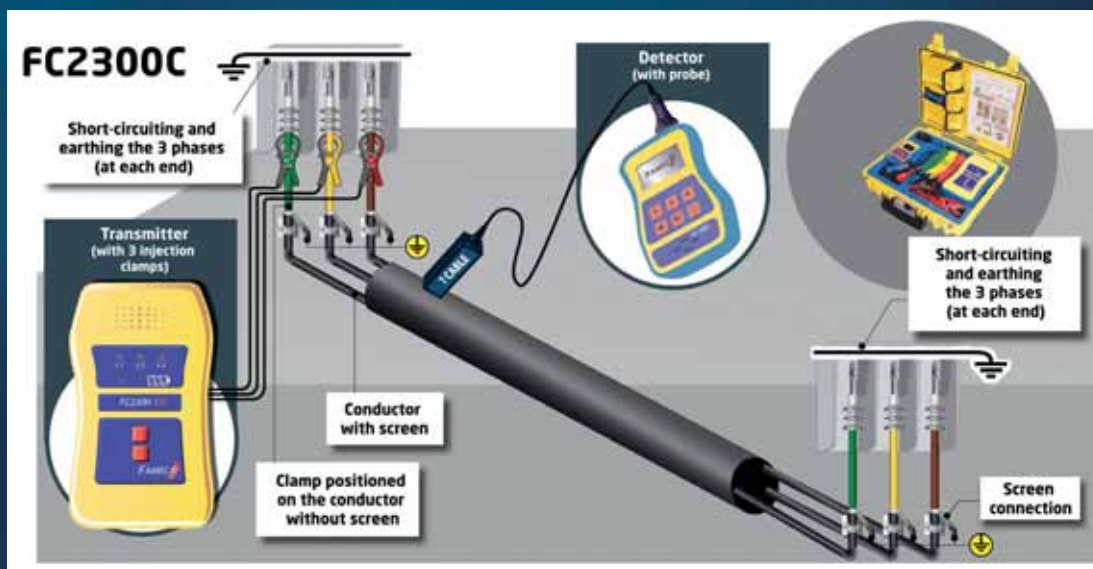
Technical specifications:

Convenient for :

- Paper-lead or dry cables, steel armored cables up to 10km
- Overhead and underground.

Availability :

- The transmitter can operate on battery or mains supply.
- Battery charging automatically stops when fully charged.
- Carrying in a watertight yellow case



Single cable identification probe «pointer»



ACCESSORIES : Accessories for bigger transducers. Up to internal diameter 80 mm and transducers interchangeable options, ask your distributor.

Ref.	Colours L1 L2 L3	Dimensions (mm)	Average weight (kg)
FC2300CFR	Green Yellow Red	430 x 360 x 185	9
FC2300CEU	Red Black Grey	430 x 360 x 185	9
FC2300CGB	Red Yellow Blue	430 x 360 x 185	9

New!



Box : black side

Box : orange side



ENSTPBT

LOW VOLTAGE EARTHING ARRESTER TPBT AND PHASE INDICATOR VISUTPBT

Use:

The Earthing Arrester is a three phase protective device for LV de-energized network. Inserted in a earthing device set, it will allow measures on the network while being protected by this earthing devices.

The « visumeter » is a complementary device that will read phase L1, L2 L3 when the resistor box is connected on to the earthing arrester.

- IP65 protection
- IP2X on connection
- L1, L2, L3 and Neutral indications by big LEDs sectors.
- No switch.
- No need of supply, ideal for long term jobs



Technical specifications:

The LV earthing arrester TPBT feature three functions defined by the resistor box connection and position: PROTECTION, SHUNT and phase ID thanks to the resistor box different uses

TPBT :

TPBT Weight with earthing set : 13,5 kg

TPBT dimensions : 220 x 200 x 90 mm

Carrying case dimensions: 470 x 357 x 176 mm – Weight empty : 2.2 kg

VISUTPBT :

Resistance measure range : 0 à 1200Ω (consistent with TPBT)

Phase ID by HiVi LED BLUE, GREEN, YELLOW, RED

Sensitivity : 250uA

Vibration proof

Protection : fuse 5x20 1.6A

Supply : 2 batteries 1.5V AA

VISUTPBT net Weight : 350 g

VISUTPBT Weight with accessories: 850 g

VISUTPBT Dimensions : 150 x 94 x 52 mm

Carrying case dimensions : 175 x 140 x 55 mm

Ref.	Description
ENSTPBT	Low voltage earthing arrester and phase indicator
Contents:	
TPBT	Low voltage earthing arrester
VISUTPBT	Phase indicator for low voltage earthing arrester



Preliminary identification of cables and phases • Operations on disconnected lines

Type of network: LV MV HV

New!

VISUHTA

VISUMETER FOR 3 PHASE EARTHING ARRESTER

Use:

The « Visumeter » is a complementary device that will read phase L1, L2 L3 when the resistor box is connected on to the earthing arrester.

- IP65 protection
- IP2X on connection
- L1, L2 and L3 indications by big LEDs sectors
- Two scales displayed for using different numbers of earthing arresters
- Complies with most existing earthing arresters

Technical specifications:

- Resistance mesure range: 0 to 200Ω (consistant with TP2300)
- Phase ID by HiVi LED, GREEN, YELLOW, RED
- Sensitivity : 250uA
- Vibration proof
- Protection fuse 5x20 1.6A
- Supply 2 batteries 1.5V AA
- Net Weight : 350 g
- Weight with accessories : 850 g
- Dimensions : 150 x 94 x 52 mm
- Carrying case dimensions : 175 x 140 x 55 mm



Ref.	Dimensions (mm)	Weight (g)
VISUHTA	150 x 94 x 52	350

NEW

TP2300

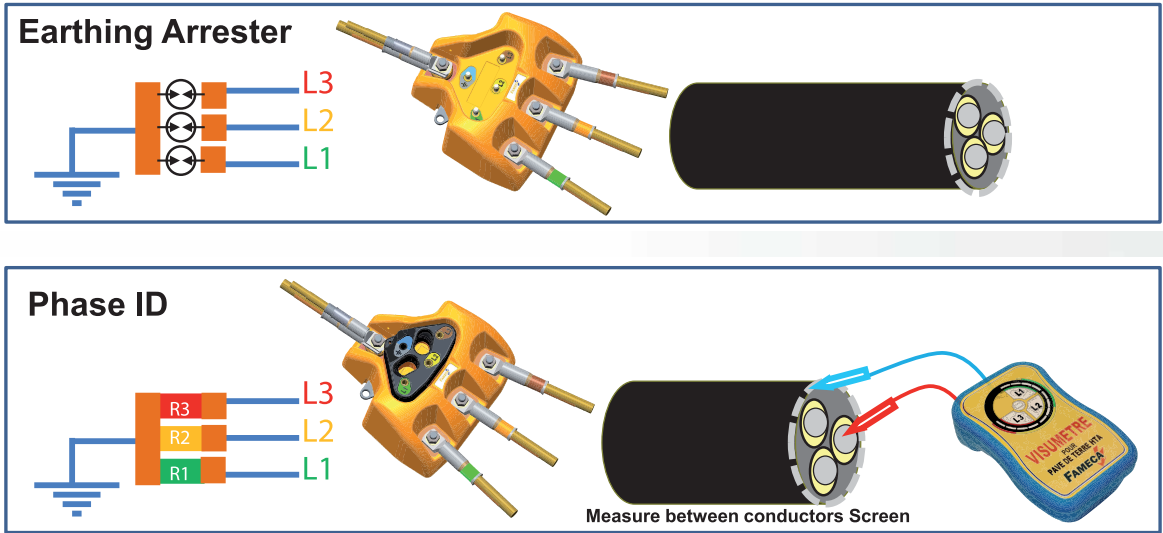
EARTHING ARRESTER FOR ENERGY CABLES

Use :

Provide same protection as an earthing while measuring a circuit insulated from earth.



- > Can provide 3 different functions just by flipping or removing the "box"
 - 3 phases isolated from earth
 - 3 phases short-circuited and isolated from earth
 - Phases connected to the earth through 3 different resistors for phase ID
- > No switch
- > No need of supply, ideal for long term job
- > Compatible with FC2310 for work requiring multiple earthing points



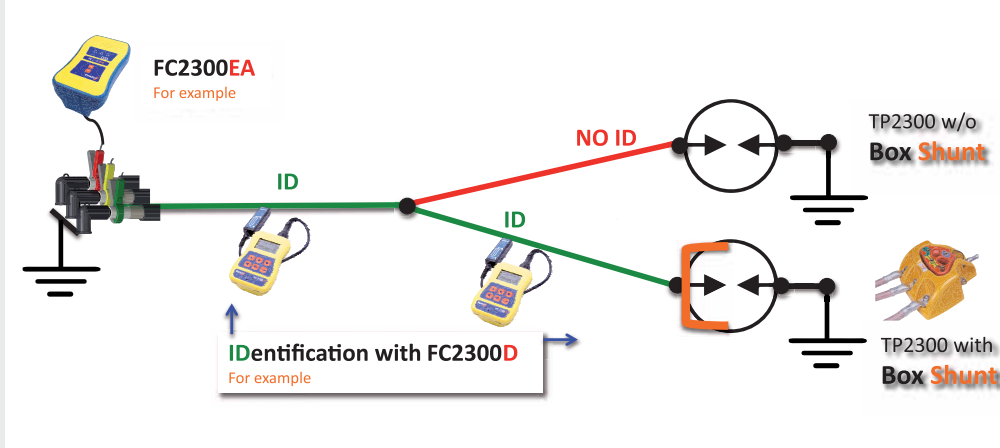
NO VOLTAGE TESTING AND SECURE IDENTIFICATION

Preliminary identification of cables and phases • Operations on disconnected lines

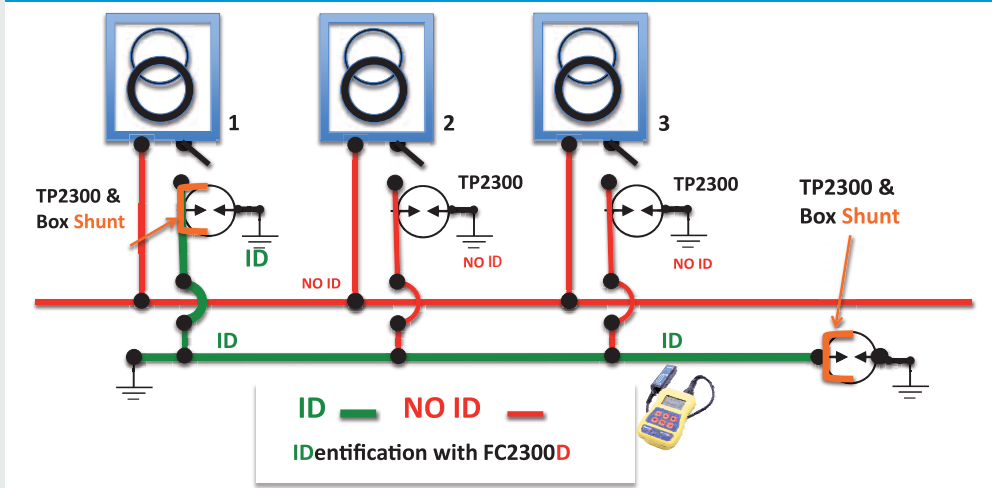
Type of network: LV  MV  HV 

The Earthing Arrester TP2300 is used to provide safe and easy solution for cable ID in complex structures. When used in conjunction with FC2300 cable identifier (or similar), one can chose the branch to be identified when all branches are connected.

Example 1 "Y" structure : how to determine easily which branch you are identifying :



Example 2 'Double supply' structure : How to determine easily which branch you are identifying. Then you just move the Box "Shunt" from 1 to 2 then 3, to identify each branch step by step. + Up to 90% of identification operation time save!



Technical specifications :

- Weight : 3,6 kg
- Weight with earthing set : 13,5 kg
- Dimensions : 220 x 200 x 90 mm
- Carrying case : 470 x 357 x 176 mm – 2,2 kg



Reference	Dimensions	Weight
TP2300	150 x 94 x 52 mm	850 g

OUR SELECTION

VOLTAGE DETECTOR TAG780

VOLTAGE DETECTOR CAT IV 1000V IP65 IEC 61243-3

Use :

Heavy duty voltage detector for checking the absence of voltage and giving voltage level indication on low voltage up to 1000V. This device provides additional features as :

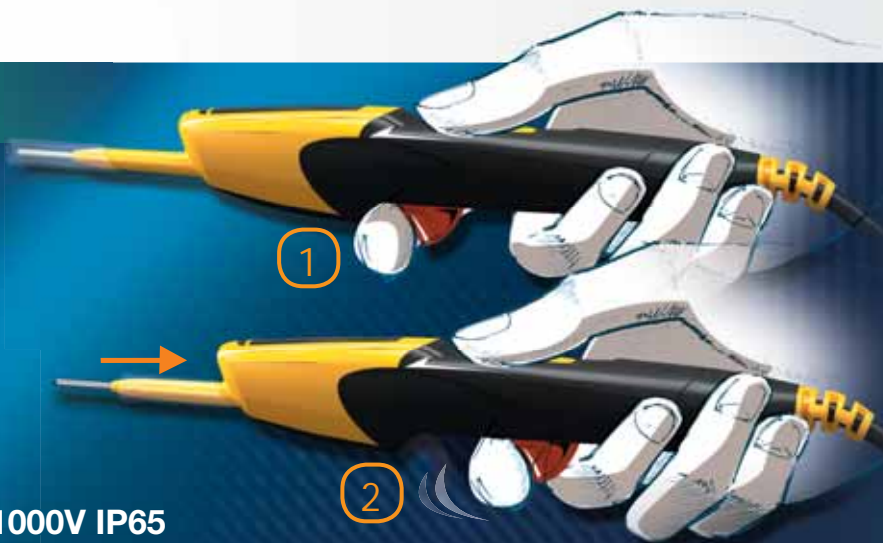
- Integrated self-test.
- Phase search in single-pole mode (any of the two contact tips may be used)
- Polarity display (-/+)
- Continuity test (< 80Ω)



- > Unique bright LED display can be read in sunlight.
- > Ergonomically shaped to fit comfortably in the palm with gloves.
- > A revolutionary IP2X system (retractable tip sleeve): "pull and hold" grip at back of device.
- > Tip sleeve pulling is controlled, offering higher safety and visibility of contact area.
- > Ultra flexible cord (no memory effect).
- > Watertight and dustproof device (IP65)
- > Device protected against over-voltage 1000V CAT IV for network operation.

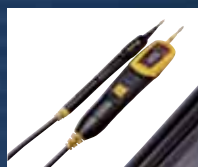
Technical specifications :

- Voltage range: 12 to 1000V DC and AC (15 to 60 Hz).
- Audible alarm indicating the presence of voltage with a different tone according to voltage level (discontinuous tone up to 230V and continuous tone above 400V).
- Polarity indication (-/+).
- Built-in self-test
- Continuity testing (threshold 80Ω).
- Phase identification in single-pole mode (either test probe may be used).
- Front light.
- Protected against water and dust : IP65.
- Protected against overvoltage CATIV 1000V.
- Comes with 2 AAA batteries



Thanks to this ergonomic trigger :

- 1) The protection of the contact tips is securely hold back in order to guarantee the contact for detection
- 2) The finger that holds the trigger rests on the detector once in position and the thumb stays free to operate the push button for light and continuity





LV detection

Type of network: LV MV HV

TAG 780	TAG 780 D Digital display		TAG 780 R Phase rotation		TAG 780 V Simple no-voltage detection		TAG 780 S LV in HV substation	
	IP2X	Slim probe tips	IP2X	Slim probe tips	IP2X	Slim probe tips	IP2X	Slim probe tips
1000V CAT IV IP65 protection Dangerous voltage indication w/o battery Built-in self-test Continuity testing Polarity display +/- Front light Weight 290 g								
Phase search in single-pole mode (either test probe may be used)	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Phase rotation	Yes	Yes	Yes	Yes				
Digital display 3 to 999V Voltage level indication 127, 230, 400, 1000V	Yes	Yes						
Voltage level indication 12, 24, 50, 127, 230, 400, 690, 1000V			Yes	Yes	Yes	Yes	Yes	Yes
With soft case	TAG780DIFE	TAG780DPFE	TAG780RIFE	TAG780RPFE	TAG780VIFE	TAG780VPFE	TAG780SIFE	TAG780SPFE
Without soft case	TAG780DIFS	TAG780DPFS	TAG780RIFS	TAG780RPFS	TAG780VIFS	TAG780VPFS	TAG780SIFS	TAG780SPFS

ACCESSORIES

ANT780

PROBE EXTENSION SET FOR TAG780

Composition :

- Ø10 mm fiberglass sheath, Ø 4 mm connection probes, Ø 4 mm contact tips.
- Reliable impact-resistant internal connection even if device is dropped.
- Length adapted to the needs of the operator (short model for bus bars, long model for overhead lines).
- Contact parts adapted to the type of use.

ANT780I - ANT780P

EXTENSION SET FOR OVERHEAD NETWORK AND CONNECTION BOX.

- Contact parts for use as hanging brackets
- Storage case

ANT780RS

EXTENSION SET FOR CONNECTION BOX

- Soft case



ANT780I

TAG780 probe extension set with additional overhead extensions



ANT780RS

TAG780 probe extension set

Reference	Device	Use	Length	Weight
ANT780I	For TAG780 IP2X	Kit for overhead network (RA) and connection box (RS)	1400 mm	750 g
ANT780P	For TAG780 non IP2X	Kit for overhead network (RA) and connection box (RS)	1400 mm	750 g
ANT780RS	For TAG780 IP2X	Connection box (RS)	780 mm	550 g
ANT780PRS	For TAG780 non IP2X	Connection box (RS)	780 mm	550 g

New!



UNITAG with stick interface



UNITAG fixed on insulating stick

UNITAG

PHASE TESTER FOR LV NETWORK

1000V CAT IV - IP65

Use:

UNITAG is a unipolar detector designed to test the presence of phase on insulated or bare LV conductors.

The level of detection is indicated by a LED bargraph and a beeping sound which speed increases as device approaches a live source.

It is commonly used for detecting stray voltage on poles and cross arms, conductor disconnection on overhead insulated LV conductors. ...

UNITAG will not replace a standard "proving dead" device but is an ideal complement to bipolar LV detector.

- Sound and light alert on voltage presence.
- UNITAG 1000V for using on networks.
- Can be used by hands or on insulating stick.
- Indication of detection level.
- Tip length designed for access to LV panel and test point.
- Audible beeping speed proportional to the level of detection.
- Visual indication of level of detection on a bright LED bar graph.
- Automatic self-test when switched on with green LED indication.
- Multi purpose detector : street light, insulating twisted cables, rescue team, fire fighters...

Technical specifications:

- AC system
- AC mains frequency : 50-60 Hz
- Field of use : from 50V up to 1000V
- Detection by direct contact at 50V
- CAT IV 1000V
- IP65
- Temperature : - 15 ° C to +45 ° C
- 2 x LR03 1.5 volt alkaline (AAA)
- Delivered with soft bag suitable for belt fixing

Ref.	Type of use	Dimensions (mm)	Weight (g)
UNITAGHFE	Hand-held	227 x 45 x 37	160
UNITAGUFE	Hand-held + stick interface	241 x 67 x 51	210
CPUNITAGU	Stick universal interface	241 x 67 x 51	50

New!

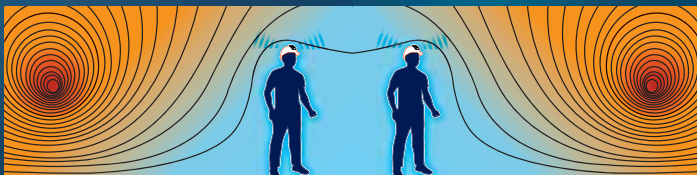
ALADIN

ASSOCIATION OF LIGHT AND DETECTOR FOR INDIVIDUAL PROTECTION

Use:

Sound and light alert on voltage proximity.
 Dynamic Voltage Detection : alert in case of detection level increase.
 The electric fields may be detected 360° around the body.

+ Equipped with a head light the personal detector can be located on helmets, the best place to protect its owner. The “smart mute” can be used to silence the detector once in position, it will automatically restart in case of increase of the voltage detection level. Will provide light and voltage detection, both at the best place.



Located on the helmet, ALADIN detector has the ideal location for detection with the same efficiency. Voltage Hazard from FRONT AND BACK.

Technical specifications:

Electric field indications :

- Flashing LEDs
- Beep frequency representing the level of the detected electric field
- Highest alert by continuous beep

Using the lamp helmet slot (Compatibility with the helmet regulation)

ALADIN clip for :

- Fixing on the belt
- Fixing on a pocket
- Hanging on the chest

Sensitive to electric field but not to electromagnetic field (beyond 150 Khz at industrial levels).

Convenient for outdoor and indoor electrical systems.



Ref.	Dimensions (mm)	Weight (g)
ALADIN	70 x 50 x 25	180



DC3600BPM - DC3600 - DC36

DC BIPOLAR VOLTAGE DETECTORS, RANGE 500 / 3.600 V DC

DESIGNED ACCORDING TO IEC 61243-2

Use: These devices are used for No-Voltage Testing of Direct Current overhead lines (mainly transport overhead lines : trams, metro, trains).

Certain models in this range also indicate the presence of voltage due to residual electric charges (DC) and the presence of AC voltages (induced or actual).

- ⊕ Instant detection of residual DC voltage (measure the unloading of the line)
- Detection of actual and induced AC voltage (presence or absence of voltage).
- Detection of DC voltage (presence or absence of voltage).
- Warning excess voltage range (> 4000V) visual and continues sound indication.
- Current limitation in the cable below <3.5 mA.
- Surge resistant up to 36 kV
- Indication of the voltage level on the AC or DC receiver (± 3 %)
- Robust shell with flexible adapter coupling (AFLEX).
- Full auto control with self test button (cable is also tested)
- Dedicated display for each function => clear information

Technical specifications: Voltage range: 500-3600V DC

Audible and visual indication of the presence of voltage (red LEDs)

The current passing through the detector cable is always lower than the standardised danger threshold (3.5 mA).

Designed to resist temporary overvoltages up to 36 kV.

DC36 simplified model: Simple DC voltage detection from 400V to 3600V.

DC3600BP detector: complete detector able to indicate:

- detection of DC voltages (red LEDs) from 400V to 3600V
- presence of residual DC voltages while discharging (audible signal and orange LEDs)
- presence of actual or induced AC voltages (blue LED)
- overvoltage alarm

IN CASE OF VOLTAGE PRESENCE

DC Voltage detection : permanent DC Voltage Beeping Sound & flashing RED LEDs.	
DC Voltage detection : Draining DC Voltage Beeping Sound & flashing ORANGE LEDs	
AC Voltage Detection. 1 flashing BLUE LED	
OVER VOLTAGE (>4000V). Loud continuous Sound & 3 steady RED LEDs	

Proving dead indication: Steady lone GREEN LED	
CAUTION: in the case of absence of voltage repeat the procedure of self-test to verify the correct operation of the detector. Can also be done after voltage detection.	

Model	Description	Fitting	Reference	Weight
DC3600BPM	DC Voltage detection AC Voltage detection ⊕ Residual Voltage detection DC and AC voltage level indication		DC3600BPMU	4,4 kg
			DC3600BPMAPV	
			DC3600BPMR	
DC3600BP	DC Voltage detection AC Voltage detection ⊕ Residual Voltage detection		DC3600BPHU	4,0 kg
			DC3600BPHAPV	
			DC3600BPHR	
DC36	Only DC detection		DC36HU	4,0 kg
			DC36APV	
			DC36HR	



Presentation

ELECTRONIC VOLTAGE DETECTORS



FAMECA invented the electronic voltage detector in 1970. This type of detector has since been recognised as part of the standard safety procedure before earthing a circuit.

After the french standard NFC 18311, the IEC also established a standard based on the laboratory research of the European standard (NFC, VDE). FAMECA had to retain their lead by designing detectors that comply both with the IEC standard and comprehensive field configurations.

Use of voltage detectors

Voltage detectors are mainly used to check the absence of voltage before earthing a circuit. This device must therefore indicate whether or not nominal voltage is present.

Previous detectors with wide range detection or proximity detection required a sound knowledge of the network to determine the presence of nominal or induction.

Electronic voltage detectors using a direct contact measurement and an adapted threshold, provide a simple and safe indication.

- Threshold value: detection of nominal voltage above any induced voltage that could appear
- Direct contact: reduces the influence of electrical disturbance (double circuit or substation)

How to choose a voltage detector

- **Low disturbance area** : a wide range voltage detector can be used.

The threshold value is selected as follows :

U_t = threshold voltage

U_{min} = lowest voltage of the range

U_{max} = highest voltage of the range

Threshold limits $0.1 U_{max} < U_t < 0.45 U_{min}$

Example : Range = 11 kV to 33 kV

Threshold limits $3.3 \text{ kV} < U_t < 4.95 \text{ kV}$

Threshold $U_t \approx 4.1 \text{ kV}$

- **High disturbance area (on double circuit overhead line or substation)**

In some specific cases the induced voltage level and strong electrical interference require a higher threshold voltage.

In this case the IEC standard allows a voltage detector with a narrow range or even single voltage, to improve the resolution :

Threshold limits $0.15 U_{max} < U_t < 0.40 U_{min}$

Example : Range = 33 kV

Threshold limits $4.95 < U_t < 13.2$

Threshold $U_t = 9 \text{ kV}$

NEW

VECTOR

VOLTAGE DETECTOR

IEC 61243-1 2009
VOLTAGE DETECTOR CAPACITIVE
TYPE TO BE USED FOR VOLTAGES
EXCEEDING 1 KV AC

Use :

This device is designed for the proving dead operation. It will detect any nominal voltage present on networks or substation and must not detect induced voltages.

Technical specifications :



- > Accuracy Setting and test on real voltage
- > Continuous self-test all the time the green light is on
- > Bright visual indications on bottom and sides
- > Easy battery replacement

- AC voltage range possible choice from 3 to 69 kV
- Network frequency: 50 and 60 Hz
- Type of installation: indoor and outdoor
- Group: 3 = indication with active voltage presence signal and standby mode
- Category: L = without electrode extension
- Climate class: N = from -25C to +55C
- Self-test: checks all the circuits, the reference detection level (threshold) and the battery voltage
- Device operational, no nominal voltage => High-brightness green light
- Detection of a nominal voltage => Flashing high-brightness red light
- Sequenced audible signal with a powerful buzzer => presence of the nominal voltage
- Yellow polycarbonate casing
- Power supply: 9 volt alkaline battery - CEI / IEC 6LR61



NO VOLTAGE TESTING AND SECURE IDENTIFICATION



MV Detection • Electronic voltage detectors

Type of network: LV MV HV

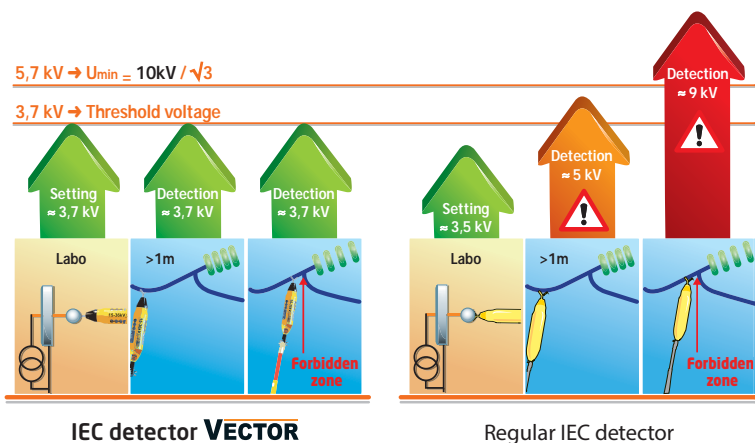


COMPARISON BETWEEN THE MULTI-SENSOR DETECTOR **VECTOR** AND A REGULAR DETECTOR

11,54 kV → $U_{min} = 20kV / \sqrt{3}$

5,7 kV → $U_{min} = 10kV / \sqrt{3}$

3,7 kV → Threshold voltage



Reference	Voltage range	Frequency	Presentation	Dimensions / Weight
VEC0310F	3-10 kV	50 and 60 Hz	Sling bag Universal and hook poles & APV	333 x 58 x 58 mm excluding electrode Net weight : 0,425 kg Gross weight : 1,250 kg
VEC1036F	10-36 kV			
VEC1545F	15-45 kV			
VEC2069F	20-69 kV			

Detector end fitting code			
	ADVECU	ADVECUCR	ADVECAPV
Stick end fitting			
Stick end fitting code	U	U	CR
Type of Stick	RTTE, TR or PENTAPOLE	RTTE, TR or PENTAPOLE	Hooked stick or Shotgun stick



Reference	Description	Dimensions / Weight
878412070	Sling bag with shaped foam padding	440 x 140 x 115 mm / 0,790 kg

New!

KIT VECTOR ↗

VOLTAGE DETECTOR SET

THE TELESCOPIC STICK COMPLIES TO BOTH EUROPEAN AND AMERICAN STANDARDS : ASTM F 1826, ASTM F 711, IEC 62193, IEC 60855-1

⊕ Penta-Pole :

- Round terminal tube responds fully to the scope and requirements CEI60855-1 / ASTM F711
- Weight / Stiffness
- Curved pentagonal shape for feeling of exceptional taking in hand in order to transmit important torque efforts torsion during operation requiring an action of tightening or loosening
- Lock button which provided automatically when deploying the pole



Technical specifications:

Penta-Pole : 3 elements telescopic stick

- 1 top tube Ø 28 mm in accordance with IEC 60855 and ASTM F 711 standards
- 2 tubes of pentagonal shape in accordance with IEC 62193 and ASTM F 1826 standards
- 1 universal end fitting to accommodate multiple accessories and adapter
- Extracted length = 2 m / Retracted length = 0.83m
- Net weight = 1.2 kg



Ref.	Voltage range	End fitting	Contact electrode	User's manual	Telescopic stick (PPOLE)	Packaging	Weight (kg)
VEC0310KIT01FH	3 - 10 kV	Universal	Universal	Pack F	3 elements / 2m deployed	Plastic sling bag	2.335
VEC1036KIT01FH	10 - 36 kV	Universal	Universal	Pack F	3 elements / 2m deployed	Plastic sling bag	2.335

MV Detection • Electronic voltage detectors

Type of network: LV  MV  HV 

TAG220L

VOLTAGE DETECTOR 1 TO 4 KV

IEC 61243-1

Use: Electronic voltage detector designed for checking the absence of nominal voltage on MV installations.

+ These voltage detectors offer great performance and compactness strongly appreciated by the users.

Technical specifications: Presentation :

Metal case, contact electrode.



Ref.	Voltage range	Frequency	Dimensions (mm)	Weight (g)
220LF0104C	1 to 4 kV	50 Hz and 60 Hz	188 x 49 x 49	250

TAG220

VOLTAGE DETECTOR FOR SUBSTATIONS AND OVERHEAD LINES

IEC 61243-1

Use: All types of networks, overhead lines in all weathers and compact indoor substations.

+ These devices feature an exclusive multi-sensor technology and come with an internal calculator, enabling them to provide at once :

- a wide safety margin for voltage detection, including in difficult configurations,
- better immunity to the influences of other voltages close to the point tested.

Technical specifications: Presentation :

Metal case, universal end fitting and APV adapter.










Ref.	Voltage range	Frequency
220F0310C	3 - 10 kV	50 and 60 Hz
220F1036C	10 - 36 kV	50 and 60 Hz
220F1545C	15 - 45 kV	50 and 60 Hz
220F2069C	20 - 69 kV	50 and 60 Hz

Accessories:

41811B	Straight electrode 40 mm (M8)
42029	V-shaped electrode 40 mm (M8)
47736	Universal electrode (M8)
CT200	Metal case
32715V	APV fitting

Adapters for MV Electronic voltage detectors



Adapters				Direct fitting
Reference	UCR	BVUI	327-15 V	
Stick end fittings				
Code	CR	B	APV	U
Sticks	Grip-all clamp stick	Bayonet RTT or TRS/TRE	Hexagonal 12 AF RTT or TRS/TRE	RTT or TRS/TRE



TAG200S

MV VOLTAGE DETECTOR - CLASS S

IN CONFORMITY WITH EUROPEAN DIRECTIVES AND CE MARKING

Use: Medium voltage detector 3 to 36 kV.

Designed to check the absence of voltage in direct contact in indoor installations.

Used prior to the earthing operations on a 3 phase installation.

**⊕ Total safety during operations in outside stations.
Improved accessibility to the control points.**

Technical specifications: Voltage range : 3 to 36 kV (to be specified)

Frequency : 50 and 60 Hz (to be specified)

Voltage indication : audio signal and visual signal (red LED)

Auto-test controlling the electronics and the battery level

Auto-test indication : green LED = OK

Use : all weather use

Climatic class: N = -25°C to +55°C

Power supply : 9V battery

Ref.	Frequen cy	Voltage range	Dimensions (mm)	Weight (kg)
T2S400F0310H5	50 Hz	3-10 kV	770 x 58 x 58	1,25
T2S800F1036H5	50 Hz	10-36 kV	1170 x 58x 58	1,45

Presentation : cover, electrode and Universal end fitting. Available in 60 Hz.



Accessories for MV electronic voltage detectors

Ref.	Description
47736	Universal electrode (M8)
41811B	Straight electrode 40 mm (M8)
AD100	Straight electrode 100 mm
AC60	Hook Ø 60 mm
AC120	Hook Ø 120 mm
AC200	Hook Ø 200 mm
32715V	APV fitting

TAG200BC

VOLTAGE DETECTOR FOR USE ON CAPACITIVE TERMINALS

Use: Device designed to test for the absence of voltage on the capacitor terminals of the MV plug-in terminals on electrical installations from 10 kV to 30 kV.

+ Meets the requirements of the general electric safety instructions booklet NFC 18-510 and the Operation of electrical installations standard NF EN 50110-1.

Technical specifications: - Insulated right-angled electrode designed for manoeuvring the insulating cap on capacitor terminals.

- Yellow polycarbonate casing.
- Network frequency : 50-60 Hz.
- Validation of self-test and standby mode indicated by a green light.
- Battery level check function.
- Indication of the presence of voltage by a red LED and an audible warning.
- Operating temperature : -20 to +50 °C.
- Power supply : 9V alkaline battery, IEC type 6LR61.

Supplied in a soft case (product reference for the soft case only: SBH700)

Telescopic insulating sick recommended : TR275U

Folded length : 1.10 m / 36 kV (excl. precipitation), extended length : 2.00 m / 90 kV (excl. precipitation).

Comes with a cover (ref. of cover alone: SBH700)



Ref.	Dimensions	Weight (g)
200BC	275 x 56 x 56 mm	400

PVI

PERMANENT VOLTAGE INDICATOR LIGHT

Use: The device is designed to be maintenance free. The device consists of a translucent casing containing super bright red diodes.

It can be mounted using a simple screw or an adjustable fitting.

If there is voltage present the diodes flash regularly, clearly visible to the user.

This compact, sturdy device also offers the advantage of being easy to position and install in places where access is limited.

A single clamping yoke enables its installation on round conductors from 5 to 25 mm and flat bars from 1 to 25 mm.

Technical specifications: Fastens with a clamp onto flat bars or round conductors.

Hinged.



Ref.	Description
PVI	PVI single-pole indicator, from 5 to 75 kV AC



ECC100VATV2

SAFETY CABLE CUTTING DEVICE

EN 50340:2011

Use: Cutting a cable to check and ensure the absence of tension on LV and MV underground cables before cutting them.

LV to HN 33 S 32 Districables up to, and including, 3x240mm² alu +1 x 95 mm² alu

MV to NFC 33320 and C33223: 3 x 240 mm² and 1x630 mm²

Old cables according to NFC 33.100

**⊕ Operating from a distance of 10 metres, protecting the operator in case of hitting a live cable.
Robust design and easy to use.**

Technical specifications: • TCC100 VAT V2 : Cutting head

- High strength jack
- Cutting blades made of specially heat treated steel to cut cable armoured
- Cutting capacity : max diameter 100 mm
- Cutting force : 9,6 tons
- Weight : 8,2 kg

• PHP.70.22 : Hydraulic pump

- Dual stage (two speeds) foot pump with capacity of the oil reservoir: 0.9 L
- Nominal pressure : 700 bars
- Max effort on the lever : 41 kg
- Equipped with a 10 metres long non-conductive flexible hose and pressure gauge to insure the security of the operator
- Weight : 8 kg

- Earthing flexible braid of 5 metres long for the cutting head + 1 metre for for the pump, section : 16 mm² with earthing clamp.

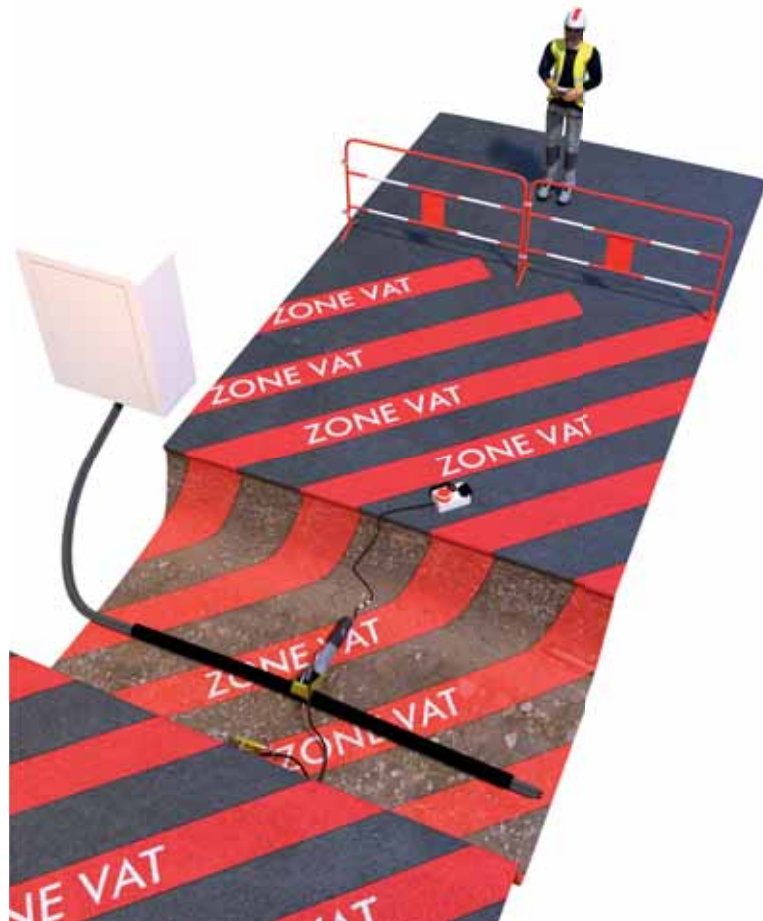
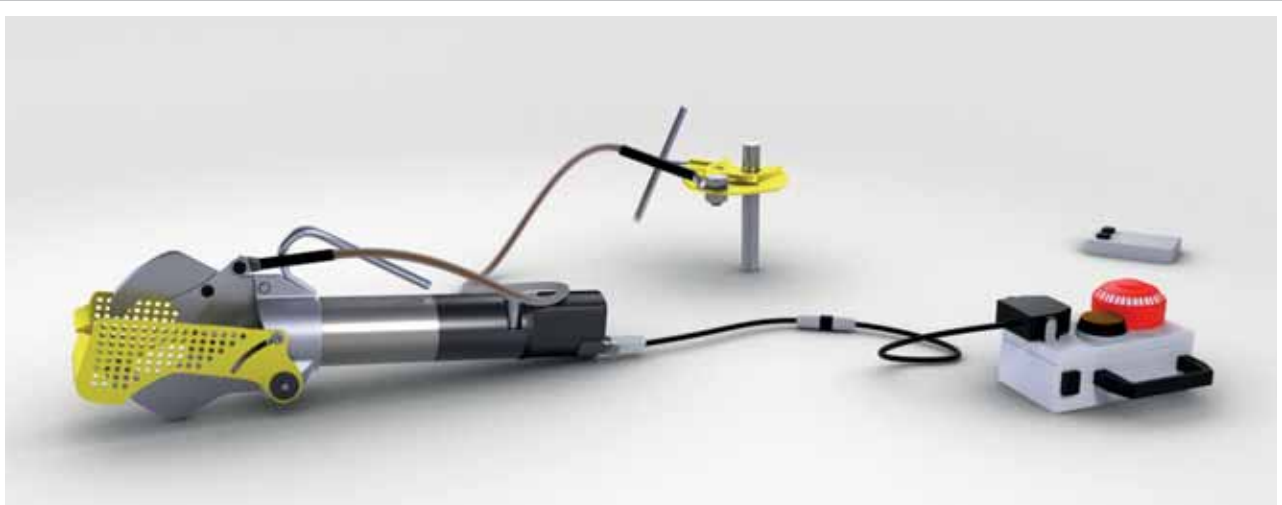
The device is supplied in a plastic trolley case.

Ref.	Cutting capacity	Weight (kg)
ECC100VATV2	Ø 100 mm	32

NO VOLTAGE TESTING AND SECURE IDENTIFICATION

MV Detection • Voltage detectors and accessories

Type of network: LV  MV  HV 





PICOU-2E

HYDRAULIC SPIKING-CUTTING CABLE SET FOR CHECKING THE ABSENCE OF VOLTAGE

Use: Spiking a cable to check and ensure the absence of voltage on LV and MV underground cables before cutting them.

LV to HN 33 S 32 and S 33 up to 3x240 mm² alu + 1x95 mm² alu .

MV to NFC 33320 and C33223 : 3x240 mm² and 1x630 mm² (single phase).

Old cables according to NFC 33.100.

The tool limits its work to create a single phase fault on a multiphase (and or a single phase) cable thereby provoking the immediate reaction of the protections (limiters, breaker, etc) before said fault is converted into a two-phase or a three-phase fault .

After this spiking operation, the so disconnected cable may then be safely cut.

⊕ Spiking and cutting in one operation.
Single phase fault 1000A/1s.

Technical specifications: • Hydraulic cable spiking-cutting head composed of :

- a hydraulic jack,
- a crank for manual approach to position the tool on the cable,
- a treated steel pair of cutting blades, one of them bears the steel pike,
- a cradle for centring the cable,
- a blade guide,
- 2 gauges to check the pike
- Cutting capacity : Ø 95 mm
- Dimensions : 540 x 210 x 330 mm
- Weight : 13,5 kg

• Specialized electro-hydraulic autonomous pump composed of:

- a 700 bars nominal pressure electro-hydraulic pump driven by a 12 V. motor .
 - a control casing homing the battery .
 - high pressure flexible hoses (non-conductive orange 1 m.long + armoured black 2 m. long).
 - a valve in case of emergency use of a foot pump .
 - Hydraulic fluid TOTAL EQUIVIS ZS 15
 - Reservoir capacity : 0,7 l .
- Dimensions : 260 x 130 x 280 mm.
 Weight : 5,1 kg.

Delivered in case containing all necessary parts for the checking absence of voltage operation:

- The spiking-cutting head with flexible braid and earthing rod.
- The electro-hydraulic pump.
- Two 12 V. batteries and associated one-hour fast charger .
- Wrench to install an other steel pike and to disconnect the earthing flexible braid.
- A gauge to check the shape of the pike
- Two straps each 2m. long for securing the tool in tunnels and trenches.
- Protective undercarpet 0,7 m x 1 m.

Dimensions : 850 x 300 x 350 MM

Total weight : 40 kg.

Ref.	Description	Cutting capacity	Dimensions (mm)	Weight (kg)
PICOU-2E	Hydraulic Spiking-Cutting cable set for checking the absence of voltage	Ø 95 mm	850 x 300 x 350	40
Accessories:				
EASYROLL	Chassis alone. Fits old and new cases			
EASYROLL.CR84	Chassis + case CR84			
EASYCASE	Plastic trolley case			

New!

PICOU250

LV-MV HYDRAULIC SPIKING-CUTTING CABLE SET

Use:

- **SPIKING** cable to check and ensure the absence of tension on LV and MV underground cables before cutting them

LV cable 3x240mm² with reinforced steel wire

MV cable 3x240mm² with reinforced steel wire

Enabling the user to limit the short circuit to a single-phase / ground fault with the spiking of the multi cores cable, the protections being opened prior to create a two or three phases short circuit

- **CUTTING** after spiking operation in full safety

- ⊕ - **Operating from a minimum distance of 8 meters, protecting the operator in case of spiking a live cable**
- **Network is preserved from the short circuit through the spiking function (single-phase fault) and earthing copper cable of 70mm²**
- **Compact design, robust and easy to use**
- **More security for the user : checking LED during the spiking & cutting operation**
- **Failure sensor cutting**
- **Closure sensor blades**
- **Dual hydraulic safety (pressure)**
- **Checking of cutting time**
- **Electronic locking of the tool if the battery power is not enough**

Technical specifications:

• **Cutting head**

- Dimension cable : Max Ø 100mm (3 x 240 mm² copper)

- Armored: all expect round steel wire

- Cutting force : 13 tons

- Dimensions L x W x H : 628 x 165 x 328 mm- Weight : 14 kg

• **Control box**

Light for check battery

Power cable : 5m

Powered by 24V battery

• **Remote control (868 MHz)**

- Used up to 150 meters

- indication of cutting state

• **Power**

- Voltage : 24V 3Ah

- Battery level with LED indication

- 20 Cuts capacity

• **Full set**

- Delivered in foam filled plastic box with trolley

- Flexible copper cable and earthing rod.

- 2 batteries

- Fast charger

- Key dismantling blades

- 1 cleaning brush

- 1 replacement spiking and cutting blades

- Flash protective mat 0,7 x 1 m

- External dimensions L x W x H : 687 x 528 x 376 mm

- Weight : 35 kg



Ref.	Cutting capacity	Weight (kg)
PICOU250	Ø 100 mm	35



PICOUEXP240ECE

LV-MV HYDRAULIC SPIKING-CUTTING CABLES SET

Use: Spiking cables to check and ensure the absence of tension on LV / MV underground cables before cutting them.

LV to HN 33 S 32 and S 33 Districables up to and including 3x240 mm² alu + 1x95 mm² alu

MV to NFC 33320 and C33223: 3x240 mm² and 1x630 mm²(single phase)

MV to NFC 33226: 3x240 mm² for copper cables

Old cables according to NFC 33100 and cables with armoured steel wire.

All new copper cables according to Standard NFC33-226

Cutting, after the spiking operation the so disconnected cable may then be safely cut.

**⊕ Spiking and cutting in one operation.
Single phase fault 1000A/1s.**

Technical specifications: • Hydraulic cable spiking-cutting head composed of :

- Hydraulic jack
- A case that helps the tool to be installed on the cable
- A cutting blade + a pike in treated steel to make the spiking and cutting operations on the cable
- A cradle to centre the tool on the cable
- An integrated hydraulic pump (700 bars)
- U motor = integrated 12 V,

Cutting capacity: diameter of 90 mm

Weight: 12 Kg

- Remote control panel with radio code (fréquency 433,92 Mhz)
 - The remote control panel connected to the pricking and cutting tool - electrical wire of 3 m long
 - 1 Flash indicates the stand-by of the case remote control
 - 1 Siren indicates the good accomplishment of the operation and the end of it
 - The tool is working thanks to the battery connected on its case
- Wireless remote control with 2 buttons (433,92 Mhz):
 - Powered by two 1.5 V battery
 - Coded radio
 - Single encoding
 - Usable up to 150 meters

Delivered in case containing all necessary parts for the checking absence of voltage operation:

- The spiking-cutting head with flexible braid and earthing rod.
- Two 12 V. batteries and associated one-hour fast charger .
- Wrench to install an other steel pike and to disconnect the earthing flexible braid.
- 1 spare spike
- 1 gauge to check the spike
- Two straps each 2m. long for securing the tool in tunnels and trenches.
- Protective undercarpet 0,7 m x 1 m.

Ref.	Description	Cutting capacity	Dimensions (mm)	Weight (kg)
PICOUEXP240ECE	MV-HV Hydraulic Spiking-Cutting cables set supplied in plastic trolley case	Ø 95 mm	800 x 600 x 450	35
PICOUP-EXP-240I	MV-HV Hydraulic Spiking-Cutting cables set supplied in metal case	Ø 95 mm	850 x 300 x 350	40
Accessories:				
EASYCASE	Plastic trolley case			
EASYROLL.CR84	Chassis + case CR84			
EASYROLL	Chassis alone. Fits old and new cases			



PICOUPEXP300ECE

MV HYDRAULIC SPIKING-CUTTING CABLES SET

Use: Spiking a cable to check and ensure the absence of tension on LV and MV underground cables before cutting them.

LV to HN 33 S 32 and S 33 Districables up to and including 3x240 mm² alu + 1x95 mm² alu

MV to NFC 33320 and C33223 : 3x240 mm² and 1x630 mm²(single phase)

Old cables according to NFC 33.100 and cables with armoured steel wire

Cables with armoured steel wire

Cutting, after this spiking operation the so disconnected cable may then be safely cut.

+ Cut armoured cables up to Ø 100 mm.
Plastic trolley case with 3 carrying handles

Technical specifications: • Hydraulic spiking-cutting tool :

- A dual-stage hydraulic jack
- An handle that helps to position and hold the tool on the cable
- A heat treated steel cutting blade
- An integrated hydraulic pump 750 bars
- Cutting capacity : cable diameter 100 mm
- Maximum section : copper 3 x 400 mm² depending on cable type
- Dimensions : 760 x 210 x 330 mm
- Weight : 15 kg

• Remote control panel with radio code (frequency 433,92 Mhz) :

- The remote control panel connected to the spiking and cutting tool - electrical wire of 3 meters long
- 1 Flash indicates the stand-by of the remote control panel
- 1 Siren indicates the good accomplishment of the operation and the end of it
- The tool is working thanks to the battery connected on its case

• Wireless remote control with 3 buttons (433,92 Mhz) :

- Powered by two 1.5 V battery
- Radio coded
- Single encoding
- Usable up to 150 metres

Delivered in case containing all necessary parts for the checking absence of voltage operation:

- Flexible braid and earthing rod.
- 2 batteries 12 Volts 2,6 Ah. Nimh and 1 hour fast charger
- 1 spare pike
- 2 straps each 2 m long for securing in tunnels and trenches
- Protective undercarpet 0,7 x 1 m



Ref.	Description	Cutting capacity	Dimensions (mm)	Weight (kg)
PICOUPEXP300ECE	MV Hydraulic spiking-cutting cables set supplied in plastic trolley case	Ø 100 mm	800 x 600 x 450	37
PICOUPEXP-300-I	MV Hydraulic spiking-cutting cables set supplied in metal case	Ø 100 mm	850 x 300 x 350	42
Accessories:				
EASYCASE	Plastic trolley case			
EASYROLL	Chassis alone. Fits old and new cases			
EASYROLL.CR84	Chassis + case CR84			



PICOUPEXP350ECE

MV HYDRAULIC SPIKING-CUTTING CABLES SET

Use: Spiking a cable to check and ensure the absence of tension on LV and MV underground cables before cutting them.

LV to HN 33 S 32 and S 33 Districables up to and including 3x400 mm² alu + 1x95 mm² alu.

MV to NFC 33320 and C33223 : 3x240 mm² and 1x630 mm² (single phase).

Old cables according to NFC 33.100 and cables with armoured steel wire.

Cables with armoured steel wire.

Cutting, after this picking operation the so disconnected cable may then be safely cut.

+ Cut armoured cables up to Ø 100 mm.
Plastic trolley case with 3 carrying handles

Technical specifications: • Hydraulic spiking and cutting tool :

- A dual-stage hydraulic jack
- An handle that helps to position and hold the tool on the cable
- A heat treated steel cutting blade
- A cradle to centre the tool on the cable
- An integrated hydraulic pump 750 bars
- Cutting capacity : cable diameter up to 120 mm
- Maximum section : copper 3 x 400 mm²
- Dimensions : 780 x 210 x 330 mm
- Weight : 14 kg

• Remote control panel with radio code (frequency 433,92 Mhz) :

- The remote control panel connected to the spiking and cutting tool - electrical wire of 3 metres long
- 1 Flash indicates the stand-by of the case remote control
- 1 Siren indicates the good accomplishment of the operation and the end of it
- The tool is working thanks to the battery connected on its case

• Wireless remote control (433,92 Mhz) :

- Powered by two 1.5 V battery
- Radio coded
- Single encoding
- Used up to 150 metres

Delivered in case containing all necessary parts for the checking absence of voltage operation:

- Flexible braid and earthing rod
- 2 batteries 12 Volts 2,6 Ah. Nimh and one 1 hour fast charger
- Wrench to install an other steel pike and to disconnect the earthing flexible braid
- 1 gauge to check the pike
- 1 spare pike
- 2 straps each 2m. long for securing in tunnels and trenches
- Protective undercarpet 0,7 m x 1m.

Ref.	Description	Cutting capacity	Dimensions (mm)	Weight (kg)
PICOUPEXP350ECE	MV Hydraulic Spiking-Cutting cables set supplied in plastic trolley case	Ø 120 mm	800 x 600 x 450	37
PICOUPEXP350-I	MV Hydraulic Spiking-Cutting cables set supplied in metal case	Ø 120 mm	850 x 300 x 350	42
Accessories:				
EASYCASE	Plastic trolley case			
EASYROLL	Chassis alone. Fits old and new cases			
EASYROLL.CR84	Chassis + case CR84			

New!

PICOUP400

REMOTE CONTROLLED HYDRAULIC SPIKING AND CUTTING TOOL

ACCORDING TO NFC 18510

Use:

- **SPIKING** cable to check and ensure the absence of tension on LV and MV underground cables before cutting them

LV cable 3x500mm² with reinforced steel wire.

MV cable 3x500mm² with reinforced steel wire

Enabling the user to limit the short circuit to a single-phase / ground fault with the spiking of the multi cores cable, the protections being opened prior to create a two or three phases short circuit

- **CUTTING** after spiking operation in full safety

- ⊕ - **Operating from a minimum distance of 8 meters, protecting the operator in case of spiking a live cable**
- **Network is preserved from the short circuit through the spiking function (single-phase fault) and earthing copper cable of 70mm²**
- **Compact design, robust and easy to use**
- **More security for the user : checking LED during the spiking & cutting operation**
- **Failure sensor cutting**
- **Closure sensor blades**
- **Dual hydraulic safety (pressure)**
- **Checking of cutting time**
- **Electronic locking of the tool if the battery power is not enough**

Technical specifications:

• **Cutting head**

- Earthing flexible copper cable of 2 meters long
- Cutting blades made of specific reinforced heat treated steel to cut cable
- MAX CUTTING CAPACITY : up to 140 mm outer diameter
- Can cut armored cable : up to 4mm round steel wire
- Maximum section : 3 x 500 mm²
- Cutting force : 21 tons
- Nominal pressure : 700 bars
- Dimensions L x W x H : 678 x 188 x 320 mm
- Weight : 17 kg

• **Control box**

Light for check battery

• **Remote control (868 MHz)**

- Used up to 150 meters
- indication of cutting state

• **Power**

- Voltage : 24V 3Ah
- Battery level with LED indication
- 20 Cuts capacity

• **Full set**

- Delivered in foam filled plastic box with trolley
- Flexible copper cable and earthing rod
- 2 batteries
- Fast charger
- Key dismantling blades
- 1 cleaning brush
- 1 replacement spiking and cutting blades
- Flash protective mat 0,7 m x 1 m
- External dimensions L x W x H : 687 x 528 x 376 mm
- Total weight : 40kg



Ref.	Cutting capacity	Weight (kg)
PICOUP400	Ø 140 mm	40 kg



HYDROPIC-INT

HV HYDRAULIC SPIKING CABLE SET

Use: Spiking to check and ensure the absence of voltage on EHV (max. 220kV) underground single phase cables with 1600 mm² max. core size, aluminium and copper .

Technical specifications: • **Hydraulic spiking/piercing cable head :**

- Dual-stage hydraulic jack with quick manual approach to position and secure the PCH 51 on the cable .
- High strength heat treated pike achieving the spiking of the cable .
- Spring-loaded cradle for stable centring the tool on the cable.
- Integrated hydraulic pump 700 bars.Capacity : max cable Ø 140 mm (measured on overall insulation)

Dimensions: 640 x 210 x 330 mm

Weight 10 Kg.

• **Remote control panel, radio coded (frequency 433,92 Mhz) :**

- The remote control panel is connected to the spiking tool with an electrical wire of 5 meters long.
- 1 Flash indicates the stand by of the remote control panel.
- 1 Siren indicates the good accomplishment of the operation and the end of it.
- The tool is working thanks to the battery connected on its case.
- Powered by two 1.5 V battery
- Radio coded
- Single encoding
- Used up to 150 meters

• **Wireless remote control with 2 buttons (433,92 Mhz) :**

- Working with a 9 V battery.
- Radio coded - can be used up to 25 meters.

Set delivered in a case with an other steel pike, one 12V battery and associated one-hour fast charger 2V.

Ref.	Description	Cutting capacity	Dimensions (mm)	Weight (kg)
HYDROPIC-INT	Complete HYDROPIC set	Ø 140 mm	550 x 426 x 155	23



BATTERIE12V003

NI-MH BATTERY - 2.6 AH

THIS TYPE OF BATTERY MEETS THE NEW EUROPEAN DIRECTIVES ON ENVIRONMENTAL PROTECTION.

Use: Can be used with battery-operated hydraulic cable spiking/cutting tools.

**⊕ No memory effect (maximum battery charge even after minimal use).
Longer battery life (capacity 2.2 A/ hour).**

Technical specifications: Remark : for this type of battery (Ni-MH), use of the 220V-50Hz charger reference CHARGER-220/12 or CHARGER-12/12-1 is imperative.

Ref.	Dimensions (mm)	Weight (g)
BATTERIE12V003	100 x 85 x 90	645

CHARGEUR-12/12-1

12V CAR CHARGER

Use: Can be used with battery model Ni-MH - 2.6 Ah; recharges batteries by simply plugging it into the vehicle's 12V cigarette lighter plug.



Ref.	Dimensions (mm)	Weight (g)
CHARGEUR-12/12-1	180 x 245 x 90	570

CHARGEUR-220/12

CHARGER 220 V - 50HZ

Use: Ultra-fast charger for battery model Ni-MH - 2.6 Ah (PICOUP product range).

Technical specifications: Charger 220 V - 50 Hz.



Ref.	Dimensions (mm)	Weight (g)
CHARGEUR-220/12	180 x 245 x 90	600

KIT-VERIF

CHECKING KIT

Technical specifications: Polyethylene case, containing :

- 1 x 2-litre can of oil, TOTAL EQUIVIS ZS 32
- 1 recharge to fill the unit
- 1 manometer
- and, for the KIT-VERIF-3 (which concerns the PICOUP-3 whose hoses are fixed, on the spiking-Cutting cables tool) : 1 hydraulic hose, 2 metres.



Ref.	Description
KIT-VERIF-1	For crimping unit (RH + CM7+ BH 2L + manometer)
KIT-VERIF-2	For PICOUP-2, HYDROPIC (RH + CF7+ BH 2L + manometer)
KIT-VERIF-3	For PICOUP-3 (RH + FH200 + CF7+ BH 2L + manometer)



RECHARGE-HUILE

OIL REFILL

Use: This device can be simply connected to the pump or hydraulic unit to top up the tank, in extremely clean conditions, avoiding any risk of polluting the oil or the environment.

Technical specifications: Hydraulic coupler (depending on type of equipment).
Capacity : 700 mL.

Ref.	Description
RECHARGE-HUILE-1	Refill with CM7 for crimping unit equipped with CF7
RECHARGE-HUILE-2	Refill equipped with CF7 for PICOUP-2 and HYDROPIE
RECHARGE-HUILE-3	Refill equipped with FH200 + CF7 for PICOUP-3
BH2LWS32	2 litre can of oil ZS 32



TAPISNIT

NITRILE MAT

Use: To protect tools - keep items clean at the trench's edge.

Technical specifications: Elastomeric material : nitrile.

Density : 1.35 ± 0.1 kg/dm³

DIDC hardness : 65 ± 7 degrees

Breaking strength (Rr) : ≥ 5 Mpa

Elongation at break (Ar) : ≥ 200 %

Operating temperature : -20 / +100°C

Conditions of use (only for TAPISNIT.140.300) : according to the requirements of the ERDF Engineering department («Direction Réseau - Département Fiabilité Ingénierie d'ERDF»), if working in the vicinity of an accessory :

- Either cover the accessory in the trench with 5 cm of sand, then place the nitrile rubber mat over it all,
- Or position 2 nitrile mats overlapping over the accessory (1 metre overlap of the two mats).

Ref.	Description	Dimensions (mm)
TAPISPICOUP	Protective mat used on spiking-cutting tool.	700 x 1000
TAPISNIT.140.300	Protective mat	1400 x 3000



TAG330

ELECTRONIC HV NO-VOLTAGE TESTER, FROM 50 TO 765 KV

IEC 61243-1



Use: Electronic HV no-voltage tester, from 50 to 765 kV

+ Devices features an electronic detection system with miniature gas discharge tubes. This original configuration gives it very high performances, especially in the case of high induction and/or parasitic electric fields.

Technical specifications: - Mains frequency range: 16.66; 50 or 60 Hz, please specify when ordering.

- Indication of the absence of voltage and the correct operation of the device by a green LED.
- Very sturdy polycarbonate casing.
- Self-test device.
- Electronic cut-out if battery drops under threshold voltage of 8V.
- Can be used in all weathers.
- Temperature range: from -25°C to +55°C
- Power supply: one 9V alkaline battery.

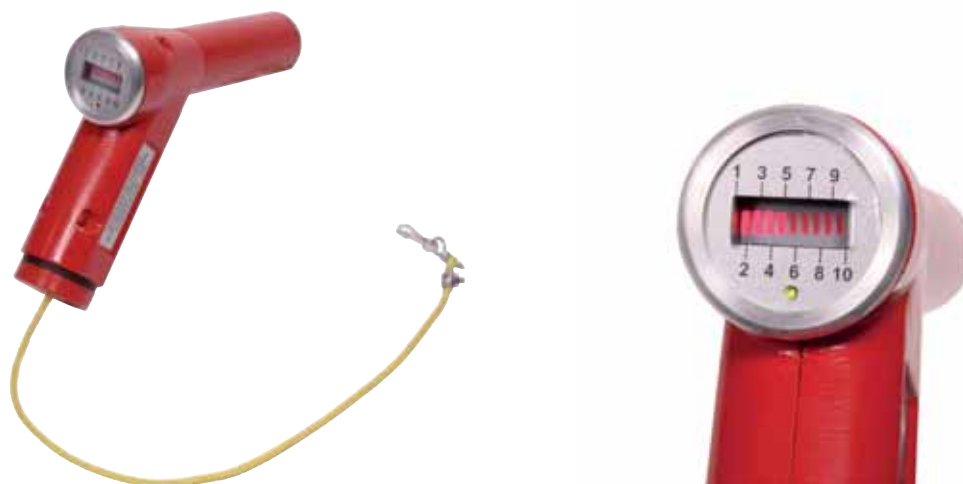
Device comes in a metal case with hooks \varnothing 60 and 120 mm and straight electrode 100 mm.



Adapters				Direct fitting
Reference	UCR	BVUI	327-15 V	
Stick end fittings				
Code	CR	B	APV	U
Sticks	Grip-all clamp stick	Bayonet RTT or TRS/TRE	Hexagonal 12 AF RTT or TRS/TRE	RTT or TRS/TRE

Ref.	Voltage range	Colour	Dimensions (mm)	Weight (g)
330F063090C5	63 kV to 90 kV	Yellow	210 x 90	520
330F150150C5	150 kV	Red	210 x 90	520
330F225400C5	225 kV to 400 kV	Red	210 x 90	520
330F400765C5	400 kV to 765 kV	Red	210 x 90	520

Other settings available with a ratio of 1/3 up to 735 kV. Available in 60 Hz.



DCEDB382

REMOTE ELECTRICAL FIELD DETECTOR

Use: The DCEDB382 remotely detects the presence of electrical fields from the pylon or even from the ground on all high voltage lines.

It has been specially designed to avoid linemen climbing the wrong pylon. Established directives and procedures must be followed.

+ The DCEDB382 features an original system that enables it to detect only the targeted fields by changing the device's acceptance angle. This adjustment is made using a sliding sleeve fitted around the antenna.

Technical specifications: Aluminium casing equipped with a zoom type adjustable field antenna.

10-position bargraph indicator, trigger start and green battery level LED.

Self-checking.

Power supply: 9V battery, IEC T LR61 ref. S413.

Temperature range: from 25°C to 55°C.

Comes in a leather holster.

NB : This detector is not a voltage detector.

Recommendations : It is very important to stand exactly below the conductor and take several comparative measurements (figures A and B). In general, note that detection is always much better from the pole.

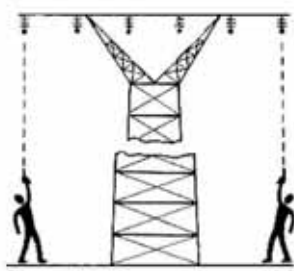


Figure A

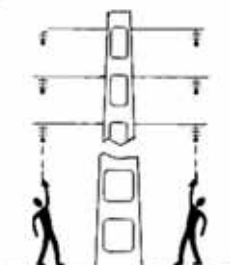


Figure B



Ref.	Description	Weight (g)
DCEDB382	Remote electrical field detector	750
Accessories:		
SCDCEDB	Leather case	

New!

HVDC

HIGH VOLTAGE DC DETECTOR

Use:

Single-pole Voltage Detector for Direct Current, HVDC is designed to check absence or presence of nominal voltage on high voltage Direct Current, DC, installations, both in switchgear and on lines.

- ⊕ • Unipolar detector adapted to HV DC network.
- For “Proving dead” on HV DC lines with permanent standby mode (no on/off switch).
- Light and compact unit.
- Positive indication of voltage presence and built-in self-check.
- Voltage range up to 800 kV.

Technical specifications:

The detector is for indoor and outdoor use, operating temperature -25°C - +55°C

The tester is powered with four, 1.5 V alkaline batteries.

The unit is delivered with instruction manual, adapter for operating poles and carrying box.

The detector will go back to stand by after 90s.

The detector is rejecting AC current.

The detector makes “self check” : it will not give the green OK indication in case of defective unit or low battery level.

Length 350 mm



Ref.	Voltage range	Weight (g)	Packaging
HVDC-L/20-150	20 - 150 kV-DC	900	Plastic case
HVDC-H/150-240	150 - 240 kV-DC	900	Plastic case
HVDC-H/250-440	250 - 440 kV-DC	900	Plastic case
HVDC-H/450-800	450 - 800 kV-DC	900	Plastic case



EARTHING AND SHORT- CIRCUITING



EARTHING AND SHORT- CIRCUITING

LOW VOLTAGE

Devices for bare overhead lines	318
Extra equipment for bare and insulated overhead lines	323
Device for busbars, panel boards or cabinets . . .	324
Earthing rods	328

MEDIUM VOLTAGE

Overhead lines : solution from the ground.	330
Overhead lines : solution from the pole with spring clamps	332
Overhead lines : solution from the pole with screw clamps	336
Overhead lines : earthing clamps	338
Transformer substation	340
Transport : case and bags	344

HIGH VOLTAGE

Earthing device with line clamp/earth clamp interlocking	346
Equipotential bonding	348
Earthing clamps	352
Low point extensions	355
Earth studs for substations	357
Voltage limiting device	357

EARTHING AND SHORT-CIRCUITING CABLES AND ACCESSORIES

Flexible cables and accessories	358
Earthing identification using coloured flags	360



OUR SELECTION

PA3BTERDF : NEVERS BT

SHORT-CIRCUITING EQUIPMENT FOR LV OVERHEAD LINES

STANDARDS IEC & EN 61230
FAMECA PATENT : FR 2 934 095

Use :

The NEVERS BT device enables a single lineman to :

- check for the absence of voltage (combined with a TAG200BT voltage detector, not included in the PA3BT ERDF kit)
- short-circuit bare LV overhead lines from the ground (compatible overhead lines in vertical formation) up to a height of 10 m as standard and 11.5m with the NE19E insulating extension (optional)
- Max. allowable Isc : 3 kA/1s



- > **Lightweight and easy to install** : special low voltage line clamp fitted to the top of the conductor stick.
- > **Operator safety**: before earthing, fit the no-voltage tester to the bottom of the NE10ICBT insulated conductor stick (last section with insulating envelope).
- > **Equipment for use with the TAG200BT no-voltage detector**. It includes a new electrode system which can be positioned vertically and prevents the detector being fitted on entirely conductive sticks: increased safety with higher visibility LEDs (detector to be ordered as an optional extra).
- > **Telescopic metal sticks equipped with self-locking clamp** allowing rapid, calibrated and precise clamping of the tubes.
- > **Integrated cleaning rings** ensure that the equipment is always operational and in perfect condition.
- > **2-section insulating operating stick with reinforced slot-in joint and IEC 60855 type foam-filled fibreglass tube**: extremely rigid assembly for easier installation on very high lines.
- > **Suited to most field situations**: possibility of adding up to 2 conductor sections to adapt the device to LV systems with public lighting conductors: ref KITEP.
- > **Carry bag for maximum user comfort and optimum protection of the equipment**



Ref.	Description
PA3BTERDF	Complete short-circuiting equipment for LV overhead lines NEVERS BT
Contents	
NE10ICBT	3-section conductive telescopic stick
NAPIPA3BT	Insulating sheet for NEVERS BT device
NE17EBT	Upper insulating stick 2 m
NE18EBT	Lower insulating stick 2 m
NE23BT	NEVERS BT stick lifter
701	Hexagonal earthing rod 1 m Ø 18 mm
HPA3BT	Cover for conductive and insulating sticks with pocket for stick lifter and earth rod
CCLBT	LV Short-circuiting kit 4 x 16 mm ² bundles 6 m + 2 extra connections
NE22	Empty cable reel
NE24T	Cover for short-circuiting device with storage reel
Options	
TAG200BT	LV single-pole voltage detector: 230V/1000V
NE19E	Lower insulating stick extension, length 1,6 m
ECBT325	Additional earthing equipment
KITEP	Public lighting short-circuiting device



KITEP

PUBLIC LIGHTING SHORT-CIRCUITING SET FOR NEVERS DEVICE

Ref.	Description
KITEP	Public lighting short-circuiting device
Contents:	
NE10BT	Metallic telescopic stick 3 sections
CMBTEP	16 mm ² short-circuiting cable 6 m with male connection for LV short-circuiter CCLBT
HKITEP	Soft cover for KITEP



U/Tulip adapter



Innovation !

DMCCTBTARFR

TEMPORARY SHORT-CIRCUITING AND EARTHING DEVICE, INSTALLED FROM THE GROUND, FOR LV FLAG-TYPE LINES

Use:

The DMCCTBTARFR device is designed for short-circuiting and earthing low voltage flag-type lines, with 5 or 6 conductors (1 neutral, 3 phases, 1 or 2 Public Lighting). It is manipulated from the ground with a telescopic insulating stick. The installation of the device must be done just after the no-voltage checking.

The DMCCTBTARFR device is composed of 2 sticks made of aluminium, on which are mounted the conductive aluminium U-profiles, equipped with 4 clamps. The first stick puts the 3 phases and the neutral in short-circuit, and the second the public lighting, by connecting itself to the last phases, beforehand short-circuited with the neutral. All the device can be earthed by a copper cable, linked to the first conductive stick.

These 2 conductive sticks are fitted on the insulated stick by a U/Tulip tool. Then, the insulating stick can be used for any operation once the line is correctly earthed.

The 6 conductors of the line can be short-circuited in only 2 operations.

Technical specifications:

- Max Isc = 6 kA/1s
- Capacity of the clamps : from Ø 3 mm to 24 mm.
- Distance between clamps : 350 mm
- Ground cable : Optional
- Device length : Phases stick : 1,44 m
- Tube : aluminium Ø28 mm
- Fitting on insulating stick : Tulip

The device is composed of :

- 2 conducting sticks (1,66 kg)
- 1 U/Tulip tool (0,38 kg)
- 1 telescopic insulating stick
- 1 transportation bag for the described device

Optional :

Earthing kit : cable, NB8 device, and earth rod.

Ref.	Description
DMCCTBTARFR	Temporary short-circuiting and earthing device, installed from the ground, for low voltage flag-type lines

BT318_N

EARTHING AND SHORT-CIRCUITING EQUIPMENT FOR BARE LV OVERHEAD LINES

IEC 61230

Use: Device for short-circuiting and if necessary earthing bare LV overhead lines.

Technical specifications: For bare conductors, Ø 3 to 18 mm.

Max. Isc: 3 kA/1s

Composition:

- 3 to 6 light alloy spring clamps on 0.40 m insulating sticks.
- 1 spring clamp for use with operating stick.
- 1 set of extra flexible copper jumper cables, 16 mm², 0.70 m in bypass connection, with one connection to the earth cable with a type N quick bayonet connector.
- 1 telescopic fibreglass insulating stick, 2 m.
- 1 storage cover.



Ref.	Composition	Weight (kg)
BT3184N	4 clamps and 3 sticks	3,32
BT3185N	5 clamps and 4 sticks	3,74
BT3186N	6 clamps and 5 sticks	4,16
BT3187N	7 clamps and 6 sticks	4,58
Contents:		
BT318APV	Earthing and short-circuiting clamp for bare LV overhead lines	
H318	Storage cover	
PT318	BT318 clamp on 0,4 m stick with handle	
TFK16007BB	16 mm ² short-circuiting cable 0,7 m	
TR276APV	Insulating telescopic stick 2 m	

BT318

EARTHING AND SHORT-CIRCUITING CLAMP FOR BARE LV OVERHEAD LINES

IEC 61230

Use: Clamp designed to equip short-circuiting and earthing devices for bare LV overhead lines.

+ Ergonomic handle with hand guard.
Fast attachment/detachment.

Technical specifications: This clamp is made of aluminium alloy, mounted on an insulating stick (fibreglass / epoxy resin) equipped with an ergonomic insulating handle.

There is a contact plate at the back of the clamp to fasten on the short-circuit cable lugs.

This fastening is made with stainless steel screws (supplied with the clamp sold alone).

Note:

PT318: reference of the clamp alone on a stick with a handle.

To make up a complete device, see BT318xN. It is possible to adapt different lengths and cross-sections of cables (up to 35 mm²...).

The length of the insulating rod can also be adapted on request.

Max. Isc : 3 kA/1s



Ref.	Tightening capacity	Overall length (mm)	Insulating length (mm)	Handle length (mm)	Rod diameter (mm)	Weight (g)
PT318	Ø 3 to 18 mm	420	180	120	10	270
BT318APV	Ø 3 to 18 mm	160	/	/	/	230



DMTBT3245

SHORT-CIRCUITING AND EARTHING DEVICE FOR BARE LV OVERHEAD LINES

IEC 61230

Use: Device for short-circuiting, and if necessary, earthing LV networks.

Max. I_{sc} : 6.7 kA/1s.

- ⊕ **Fast attachment/detachment**
- High short-circuit current**

Technical specifications: This equipment consists of:

- 5 aluminium alloy spring clamps mounted on insulating sticks (type BT324). Tightening capacity of the clamps from 3 to 24 mm. Overall length: 350 mm.
- 4 copper core PVC insulated cables with a cross-section of 35 mm² and length 0.5 m with lugs, connecting the clamps to each other.
- The set comes in a soft case.

Ref.	Description	Weight (kg)
DMTBT3245	Short-circuiting and earthing device for bare LV overhead lines	3,16



BT324

EARTHING AND SHORT-CIRCUITING CLAMP FOR BARE LV OVERHEAD LINES

IEC 61230

Use: Clamp for earthing and short-circuiting on a bare LV network.

Technical specifications: Max. I_{sc} : 6.7 kA/1s

This clamp is made of aluminium alloy, mounted on an insulating stick (fibreglass / epoxy resin) equipped with an ergonomic insulating handle.

A contact plate is provided at the back of the clamp to fasten on the short-circuit cable lugs.

This fastening is made with stainless steel screws (supplied with the clamp sold alone).

NB : To make up a complete device, see DMTBT3245.

Ref.	Tightening capacity	Overall length (mm)	Insulating length (mm)	Handle length (mm)	Rod diameter (mm)	Weight (g)
BT324	Ø 3 to 24 mm	720	480	120	Ø 10	465



DMTTP69

EARTHING AND SHORT-CIRCUITING EQUIPMENT FOR BARE LV OVERHEAD CABLES

IEC 61230

Use: Device for short-circuiting, and if necessary, earthing bare LV overhead lines.

Technical specifications: Max. I_{sc} : 8 kA / 1 s

Tightening capacity : from Ø 4 mm to Ø 32 mm, flat with maximum width of 40 mm.

Composition:

- From 3 to 6 screw-on clamps mounted on 0.35 m sticks.
- Copper short-circuit cables, 35 mm². Length : 1 m.
- Bayonet connector for earth cable (see CMTBT or ECBT320).

On request :

- 50 mm² short-circuit cable for max I_{sc} of 13 kA/1s
- 70 mm² short-circuit cable for max I_{sc} of 18 kA/1s

Ref.	Composition
DMTTP69-4P	4 clamps on sticks
DMTTP69-5P	5 clamps on sticks
DMTTP69-6P	6 clamps on sticks
DMTTP69-7P	7 clamps on sticks

Low Voltage • Extra equipment for bare and insulated overhead lines

Type of network: LV  MV  HV 

GDDTORS

SHORT-CIRCUITING EQUIPMENT

IEC 61230

Technical specifications: Max. Isc : 4 kA/1 second.

- The device consists of female bayonet sockets for connection to male pins, Ø 11.1 mm (ref. NFC33020 - HT33S69).
- The sockets are linked to each other by insulated copper connections with a cross-section of 16 mm² and length 0.40 m
- The sockets are insulated with a synthetic insulating material.
- The devices are available in 3 models with 5, 6 or 7 sockets.



Ref.	Description	Dimensions (mm)	Weight (kg)
GDDTORS 5	Short-circuiting equipment with 5 sockets	340 x 250 x 80	1,80
GDDTORS 6	Short-circuiting equipment with 6 sockets	340 x 250 x 80	2,10
GDDTORS 7	Short-circuiting equipment with 7 sockets	340 x 250 x 80	2,30
CTS38	Plastic case (included with GDDTORS models)	340 x 250 x 80	

All the GDDTORS models are delivered in a plastic case without earthing rod.

CPITORS

INSULATION PIERCING CONNECTORS FOR GDDTORS DEVICE

Use: Insulation piercing connectors for measurements, earthing and short-circuiting LV aerial bundled connectors.

Technical specifications: Connector with 6 kV (1min) dielectric withstand voltage.

Capacity : 16 to 95 mm².

Zero potential tightening screw, body made of insulated material.

Shear-head bolt ensures precise tightening control

Possibility of testing potential.

Installation is made easier because the connector is fitted with an internal insulating joint that maintains the connector in the open position.



Ref.	Capacity
CPITORS	16 to 95 mm ²

For other sections, please contact us.

ECBT

ADDITIONAL EARTHING EQUIPMENT

IEC 61230

Technical specifications: Set content:

- 1 earthing cable in extra-flexible copper, 16 mm², Length : 16 m,
- 1 bronze earthing clamp, ref. N3B8,
- 1 bayonet plug.

Supplied in CTS38S plastic carrying case, without earthing rod.



Ref.	Cable length (m)
ECBT320	16
ECBT321	10
ECBT325	3

Other compositions available on request.



CMTBT

ADDITIONAL EARTHING AND SHORT-CIRCUITING EQUIPMENT

CEI 61230

Use: Earthing cable to be connected to LV overhead line short-circuiting device.

Technical specifications: Earthing cable to be connected to LV overhead line short-circuiting device.

Ref.	Description
CMTBT1N	Cable 16 mm ² - L 16 m
CMTBT2N	Cable 16 mm ² - L 10 m
CMTBT3N	Cable 10 mm ² - L 16 m
CMTBT4N	Cable 10 mm ² - L 10 m

Other compositions available on request.

Device for busbars, panel boards or cabinets



Innovation !

DMTBTTR

LV SHORT-CIRCUITING AND EARTHING DEVICE FOR PANEL BOARDS AND CABINETS

DIN EN 61230 / IEC 61230 CEI 61138 VDE 0683-100 VDE 0105-100

Use:

Portable and rigid device for short-circuiting and earthing a panel board or cabinet in a LV network, compliant to IEC/EN 60947-3 standard, and equipped with three dummy fuses NH123.

+ Resists to currents up to 16kA/1s, traditional devices do not support more than 7kA/1s.

Easy to install in 2 operations : fixing of the earth clamp and introduction of the device in the cabinet. Traditional devices usually require 16 operations.

Single piece rigid equipment, and safe (visual indication)

Technical specifications:

Maximal short-circuit current : 16 kA/1s.

Busbar distance : 185 mm

The device is fully insulated.

The three dummy fuses are connected by a rigid and conductive metal plate.

The device is equipped with an earth cable, equipped with an insulated earth clamp. The flexible handle of the clamp allows it to be tighten on bars up to 25mm thick. Length and section of earth cable on demand.

Delivered in its protection and transportation bag (ref : HOUDMTBTTR)

Ref.	Version	Dimensions (mm)	Weight (kg)
DMTBTTR16N	Without earthing cable	650 x 85 x 170	3,5
DMTBTTR163512	With earthing cable 35 mm ² length 1,2 m	650 x 85 x 170	3,5
DMTBTTR16xxyy	With earthing cable, cross-section and length made to measure	650 x 85 x 170	N/A

Low Voltage • Device for busbars, panel boards or cabinets

Type of network: LV  MV  HV 

DMTBTT

LV EARTHING AND SHORT-CIRCUITING DEVICE FOR PANEL BOARDS AND CABINETS

CEI 61230

Use: Portable device for earthing and short-circuiting a panel board or cabinet in a LV network equipped with NH00, NH1, NH2, NH3 or NH4a fuse links.

+ New design for the fuses : the fuses are now integrating a keying system that makes them impossible to be plugged in the wrong way.

Technical specifications: Trifurcation kit with crimped central connector sealed by heat shrinkable tubing :

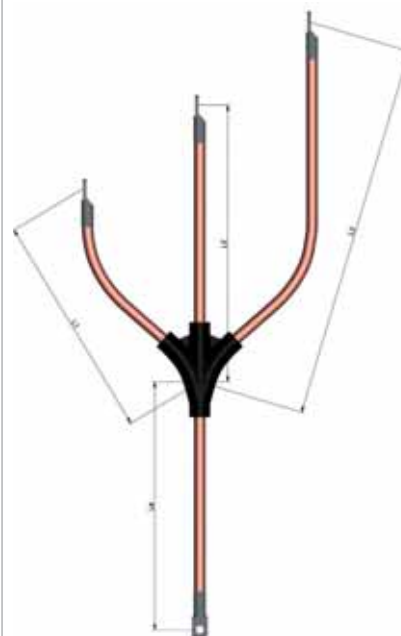
- 3 phase cables L1, L2, L3, cross-section 16 to 50 mm², variable length (see table of references or can be made to measure) equipped at the ends with screw-type connections,
- 1 earthing cable, cross-section 16 to 50 mm², variable length (see table of references or can be made to measure) equipped at the ends with a lug with a stud hole Ø of 10 mm.

NB : This trifurcation kit is usually made with IEC 61138 extra flexible transparent cable, but can also be HO7RNF (on request).

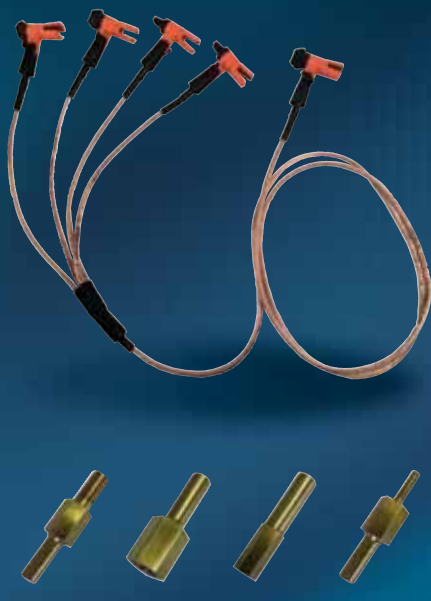
- Fuse links with M10 thread : ref. SPH00
- Fuse links with M10 thread : ref. SPH123
- Fuse links with M12 thread : ref. SPH00TW
- Fuse links with M12 thread : ref. SPH123TW
- Insulating operating handle : ref.MIEBTMAY
- Earth clamp : ref.ETEBTMAY
- Storage case : ref.CTEBTMAY (optional)

Standard quantity of SPH123 : 3

Standard quantity of SPH00 : 3



Ref.	Cable cross section	Max. Isc	Cable L1 (mm)	Cable L2 (mm)	Cable L3 (mm)	Cable Le (mm)	Cables
DMTBTT01	25 mm ²	5,5 kA/1s	370	460	550	400	IEC 61138
DMTBTTN01	25 mm ²	5,5 kA/1s	370	460	550	400	HO7RNF
DMTBTT1601	16 mm ²	3,5 kA/1s	300	500	700	800	IEC 61138
DMTBTT2501	25 mm ²	5,5 kA/1s	300	500	700	800	IEC 61138
DMTBTT3501	35 mm ²	7 kA/1s	300	500	700	800	IEC 61138
DMTBTT5001	50 mm ²	9 kA/1s	300	500	700	800	IEC 61138
DMTBTT16xx	16 mm ²	3,5 kA/1s	Custom	Custom	Custom	Custom	At choice
DMTBTT25xx	25 mm ²	5,5 kA/1s	Custom	Custom	Custom	Custom	At choice
DMTBTT35xx	35 mm ²	7 kA/1s	Custom	Custom	Custom	Custom	At choice
DMTBTT50xx	50 mm ²	9 kA/1s	Custom	Custom	Custom	Custom	At choice



New!

DMCCTBTI

EARTHING AND SHORT-CIRCUITING DEVICE FOR INDUSTRIAL LV SWITCHBOARDS, IP2X

IEC 61230

Technical specifications:

Max Isc : 4,2 kA/1s

The device is composed of :

- 5 micro-clamps TW 2170
 - 1 quadrifurcation made of :
 - 4 copper short-circuiting cables 16 mm² length 0,5 m
 - 1 copper earthing cable 16 mm² length 2,5 m
- The complete device is delivered in a transport cover HTAGDC.
- Optional : Adapters - Smooth terminals
Brass smooth terminals for positioning shunts (live working) or earthing and short-circuiting equipment on LV switchboards terminals sets.

Current : 200A AC

Insulated clamp for connection on :

- hexagonal heads of bolts 10 mm
- vertical or horizontal round bar Ø 6 mm to Ø 12 mm
- power bar horizontal or vertical flat 5 mm thick
- rod Ø 10 mm in the axis of the clamp

Ref.	Dimensions (mm)	Weight (kg)
DMCCTBTI	500 x 200 x 100	4
Option(s):		
E4BLT6	Set of 4 M6 tapped smooth terminals	
E4BLF6	Set of 4 M6 threaded smooth terminals	
E4BLT8	Set of 4 M8 tapped smooth terminals	
E4BLF8	Set of 4 M8 threaded smooth terminals	
E4BLT10	Set of 4 M10 tapped smooth terminals	
E4BLF10	Set of 4 M10 threaded smooth terminals	
E4BLT12	Set of 4 M12 tapped smooth terminals	
E4BLF12	Set of 4 M12 threaded smooth terminals	



New!

DMCCTBTIX

EARTHING AND SHORT-CIRCUITING DEVICE FOR LV SWITCHBOARDS IN INDUSTRY, NON-IP2X

IEC 61230

Technical specifications:

The device is composed of :

- 5 micro-clamps TW2170-L :
 - Intensity : 200A AC
 - Insulated clamp for connection on :
 - Round bar Ø10 mm on end
 - Flat bar 5 mm thick
 - Hexagon 10 mm in end
 - Ø 6 mm and Ø 8 mm vertical
 - 1 quadrifurcation made of :
 - 4 copper short-circuiting cables (cross-section 16 mm² length 0,5 m),
 - 1 earthing cable (cross-section 16 mm² length 2,5 m).
- The set is delivered in a plastic carrying case CTS38.

Ref.	Dimensions (mm)	Weight (kg)
DMCCTBTIX	350 x 300 x 100	3,5

In option : Adapters – Smooth terminals, see DMCCTBTI.

SFE5623

INTERFACE FOR SHORT-CIRCUITING ON POWER AND INFORMATION INTERFACE PANEL

Use: This interface device for short-circuiting and testing on Power and Information Interface Panels (max I_{sc} = 4 kA/1s) enables the short-circuiting of LV cable conductors connected to a Power and Information Interface Panel monobloc outlet.

It also makes it possible to send testing current into the conductors.

- For works during lockout, in combination with a TE26-4 4-wire short-circuiting device.
- May be used during cable testing, with TM07 direction-adjustable miniclamps.

Technical specifications: A panel manufactured from insulating materials and fitted with:

- On the rear side, 4 cartridges, with a metal part and an insulated part, serving as a guide during installation. The metal part is inserted into the claws below the outlet from the Power and Information Interface panel.
- On the front side, 4 insulated cases each protecting a conducting part to ensure continuous electrical current to the claws below the outlet.
- A «TOP» label to indicate the direction in which the interface should be inserted into the Power and Information Interface panel outlet.
- 2 handles.
- 1 hook for installation of the disk S350C11.

These boxes have an integrated protective shutter that may be raised for access to the conductor that receives the miniclamp (TM07) of the short-circuiting device.

Supplied with a protective case

Maximum voltage : 1000 V.

Max I_{sc} : 4000 A/1 s.



Ref.	Dimensions (mm)	Weight (kg)
SFE5623	740 x 140 x 55	2,7

TE26

SHORT-CIRCUITING DEVICE

Use: The device is used to short-circuit the conductors in a feeder or busbar, a category 1 panel board or enclosure, in the case of dead working on de-energized network.

Technical specifications: Consists of a case, dimensions 310 x 295 x 105 mm, containing:

- 4 or 5 conductors, cross-section 25 mm², type H07RNF, interconnected by an overmoulded brass short-circuiting block,
- 4 or 5 insulated adjustable mini-clamps ref. TM07,
- 1 insulated hex key ref. TC57 to tighten the mini-clamps (hex key includes a neon light to check for the absence of voltage),
- 1 holder with a set of 4 fork adapters for clamps in enclosures, circuit-breaker devices or low voltage distribution panel board and 16 tapped adapters for threaded bolts (4 M6 + 4 M8 + 4 M10 + 4 M12) ref. TB17A,
- 1 insulated pipe wrench for fitting threaded end fittings with prop ref. TB13,
- 1 ring spanner 13 x 14 x 16 x 17 ref. TC76N.

Max I_{sc} : 4 kA/1s

Also available:

4 conductors and 4 mini-clamp without the case : ref. TE26M4

5 conductors and 5 mini-clamp without the case : ref. TE26M5



Ref.	Dim. (mm)	Weight (kg)
TE26-4	310 x 296 x 105	3,80
TE26-5	310 x 296 x 105	4



TC151P

REMOVABLE HANDLE FOR FUSES

IEC 269-2-1

Technical specifications: Removable handle with button for fuses of size 00 to 4. EDF/GDF fuses T2 insulated hooks.

Ref.	Dimensions (mm)	Weight (g)
TC151P	125 x 75 x 23	100



TC151PM

NH FUSE HANDLE WITH PROTECTIVE SLEEVE

Use: NH-fuse handles are used to insert and remove NH-fuse links and solid links of sizes 00 up to 3 from NH-fuse bases.

Technical specifications: Protective sleeve made in Preopant.

Ref.	Description
TP151PM	NH fuse handle with protective sleeve

Earthing rods



701

HEXAGONAL ROD

IEC 61230

Use: Designed to receive earthing device clamps (T702, T702G, NB8, N3B8, NBD25 ...).

⊕ **Ref. 701AIL :** A fin at the tip prevents the rod rotating once in the ground.
Ref. 701M : a weight on top of the rod allows to easily remove the rod from the ground.

Technical specifications: Manufactured in rust-proof galvanised steel.

Ref.	Diameter (mm)	Length (cm)	Weight (kg)
701	22	106	2,46
701AIL	22	106	2,50
701M	22	106	4,00

Low Voltage • Earthing rods

Type of network: LV  MV  HV 

PTT130

BORER ROD

IEC 61230

Better contact with the ground : bigger surface and contact pressure with the ground.

Technical specifications: Made of copper-plated steel, diameter 17 mm, with bronze screw and sliding operating lever.

Length : 1,32 m.

Designed to receive earthing device clamps (T702, T702G, NB8, N3B8, NBD25,...)

Optional case : ref. HPTT130



Ref.	Dimensions (mm)	Weight (kg)
PTT130	1 315 x 405 x 30	3,44

MSPCIUEM

INSULATED HANDLE WITH HAND GUARD

Use: The handle with hand guard used on a steel boundary stake or earth rod protects the operator against electric shocks if he accidentally «spikes» an underground cable.

Technical specifications: Diameter : 21 mm, compatible with type 701 hexagonal rods.

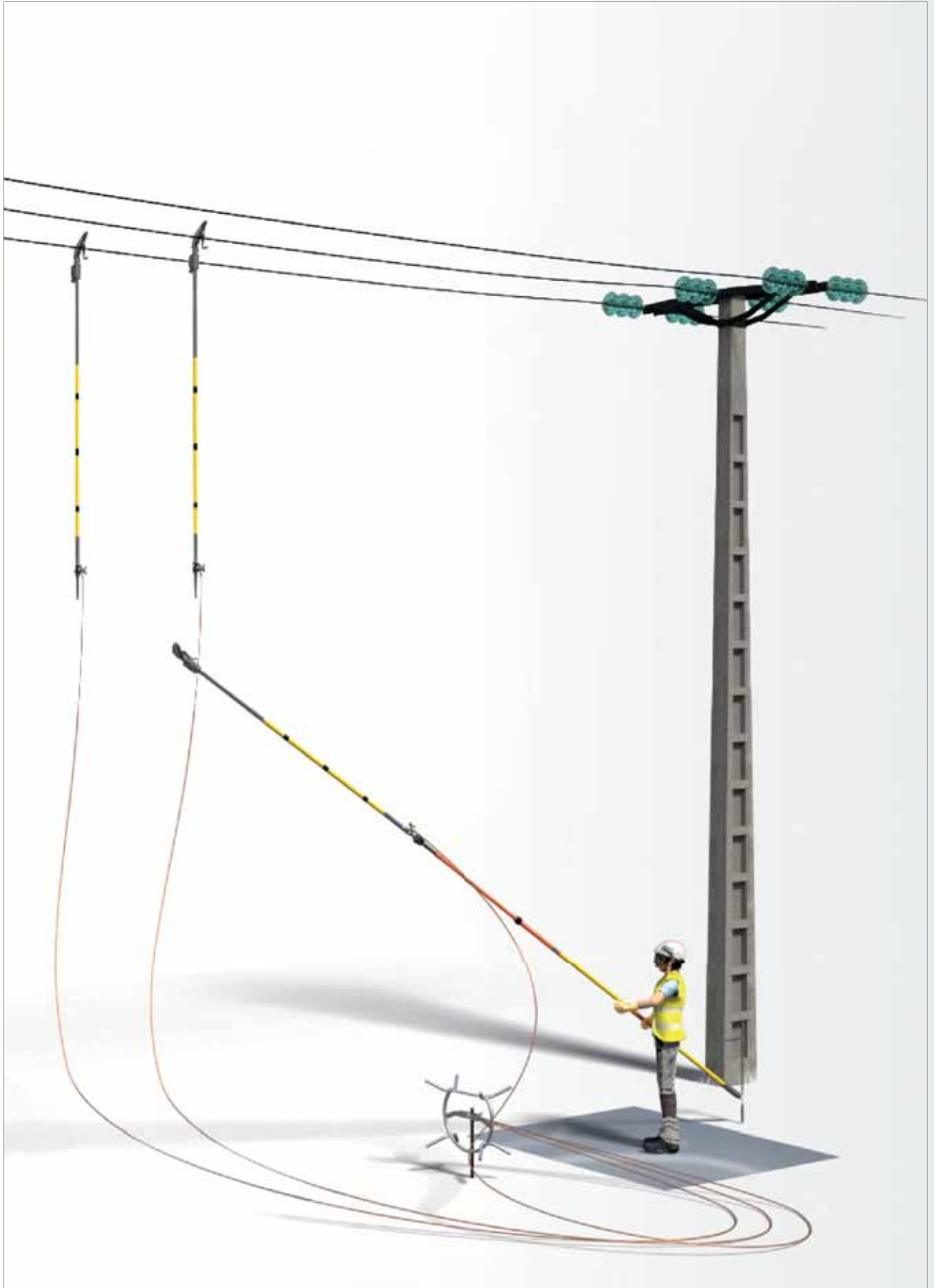
Dielectric withstand tests satisfactory at 17 kV.



Ref.	Description	Central hole diameter (mm)
MSPCIUEM26	Insulated handle with hand guard	26



Middle Voltage • Overhead lines : solution from the ground



Middle Voltage • Overhead lines : solution from the ground

Type of network: LV  MV  HV 

OUR SELECTION

PA3GTI

EARTHING AND SHORT-CIRCUITING DEVICE FOR BARE MV OVERHEAD LINES - 3 ELEMENTS

Ref.	Description
PA3GTI	Complete set of equipment with 3-section metal sticks

Contents	Description
NE10	3-section telescopic metal sticks L 5.45 m / 2.20 m
NE17E	Upper section of insulating stick
NE18E	Lower section of insulating stick
NE19E	Lower insulating stick extension, length 1,6 m
NE20	Guide socket
NE21	Cable reel with 3 x 10 m of copper braid, 35 mm ² and an earthing clamp
NE24	Soft plastic-coated canvas cover
701	Hexagonal earthing rod

PA4GTI

EARTHING AND SHORT-CIRCUITING DEVICE FOR BARE MV OVERHEAD LINES - 4 ELEMENTS

Ref.	Description
PA4GTI	Complete set of equipment with 4-section metal sticks

Contents	Description
NE11	4-section telescopic metal sticks L 4.85 m / 1.64 m
NE20	Guide socket
NE17E	Upper section of insulating stick
NE18E	Lower section of insulating stick
NE19E	Lower insulating stick extension, length 1,6 m
NE21E	Cable reel with 3 x 10 m of copper braid, 35 mm ² and an earthing clamp
701	Hexagonal earthing rod
NE24	Soft plastic-coated canvas cover
NE23	Stick lifter rod

NEVERS

IEC 61230

Earthing and short-circuiting device for bare MV overhead lines



> Use :

- The **NEVERS** device enables a single lineman to :
- check for the absence of voltage,
 - earth and short-circuit overhead lines at heights of up to 11.50 m, on bare MV overhead lines from the ground.

> Technical specifications :

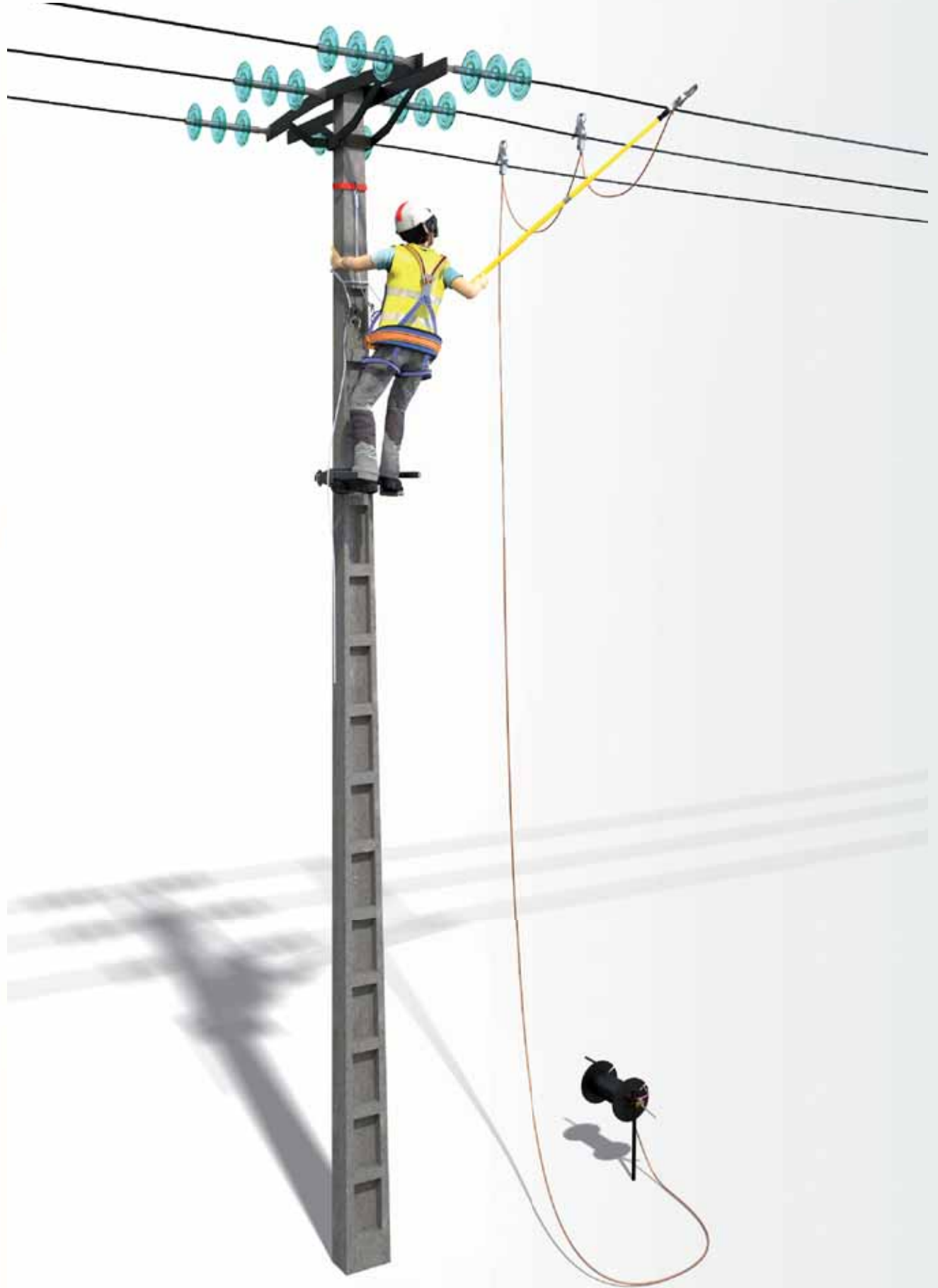
- Max. allowable Isc : 8 kA/1s
- Clamping range on cylindrical conductors from 3 to 22 mm in diameter (7 to 380 mm²)
- Telescopic metal sticks fitted with collars for quick, calibrated clamping, with integrated cleaning rings,
- 3-section foam-filled fibreglass insulating sticks, type IEC 60855, with reinforced slot-in joints,
- Optional insulating extension to reach 11.5m,
- Fit the no-voltage tester to the bottom of the metal stick before earthing,
- Equipment to be used with TAG200 or VECTOR no-voltage detectors (detector not supplied),
- Removable clamp and stick bottom



Options	Description
NE12	Gripper fitting NE10
NE18ER	Complementary extension for insulating stick, to be placed between NE18 and NE19
NE38	Gripper fitting NE11
NE14	Automatic clamp
NE22	Empty cable reel
NE25	1 set of 3 earth braids, 35 mm ² - length: 10 m
NE27	Metal sticks maintenance kit
NE28	Insulating sticks maintenance kit



Middle Voltage • Overhead lines : solution from the ground



Middle Voltage • Overhead lines : solution from the pole with spring clamps Type of network: LV  MV  HV 

New!

EY322NG

EARTHING AND SHORT-CIRCUIT EQUIPMENT FOR OVERHEAD LINES

IEC 61230

Use:


The earthing and short-circuiting device EY322NG is designed for bare MV overhead lines with 3 cables.

Installation from the pylon or from the ground.

Clamps MT330N from the device are spring clip with prior armament allowing its automatic clamping on the conductor.

They are made of a body and a mobile jaw in aluminum alloy.

The plate PEY3AP in aluminium can support the 3 clamps MT330N. It is equipped with an APV fitting to be fixed to an insulating stick and a hook for removing the clamps.

-  - Lightweight
- Fast and easy to use
- Wide clamping capacity : Ø 3 to 32 mm

Technical specifications:

Spring-loaded clamps for overhead lines for 3 to 32 mm conductor diameters.

Max Isc : 8 kA/1s or 13 kA/1s according to model.

The device included :

- 3 clamps MT330N connected by 2 short-circuiting cables,
- 2 short-circuiting copper cables, cross-section 35 mm² or 50 mm², length 2.25 m or 2.75 m
- 1 reel for earthing cable (T7021616) equipped with earthing clamp for earthing rod and with earthing copper cable, cross-section 16 mm², length 16 m,

- 1 plate PEY3AP for 3 clamps equipped with an APV fitting and a hook,
- 1 hexagonal earthing rod, ref.701, length 1 m,
- 1 insulating stick TR276APV

The set is delivered in :

- 1 metal case TD386
- 1 waterproof canvas soft case HTR11100 containing the stick and the earth rod



Ref.	Isc	Short-circuit cable cross-section	Short-circuit cable length (m)	Weight (kg)
EY3221NG	8 kA/1s	35 mm ²	2,25	15
EY3222NG	8 kA/1s	35 mm ²	2,75	15
EY3222NG13	13 kA/1s	50 mm ²	2,75	18
EY322NG18	18 kA/1s	70 mm ²	2,75	20,5

EY322

EARTHING AND SHORT-CIRCUITING DEVICE, WITH SPRING LINE CLAMPS

IEC 61230

Use: For cylindrical conductors on bare MV overhead lines.

Installed from the pylon.

Technical specifications: Standard equipment includes:

- 3 MT330 line clamps (8kA/1s) connected by the short-circuit cable,
- 2 short-circuiting cables, 35 mm², length 2.25 m or 2.75m,
- 1 T7021616 reel with earth cable, 16 mm² length 16 m and integrated clamp,
- 1 MT3 clamp holder plate,
- 1 earth rod, ref. 701, length 1 m.
- 1 telescopic stick, length 2 m, TR276APV,

Cases:

- 1 metal case
- 1 waterproof canvas soft case for the insulating stick and rod.



Ref.	Isc	Connecting cables	For conductors	Short-circuit cable length (m)	Weight (kg)
EY3221	8 kA/1s	35 mm ²	ø 3-20 mm	2,25	15
EY3222	8 kA/1s	35 mm ²	ø 3-20 mm	2,75	15,4



AUTOCLAM

EARTHING TO POST FOR OVERHEAD LINES

IEC 61230

Use: Three-phase (or more) device for short-circuiting and earthing bare overhead lines, with an allowable short-circuit current of 8 kA/1 s to 17.5kA/1s.

Function : earthing for overhead lines with 2 to 5 conductors.

- ⊕ • The stackable or «piggy-back» design of the GDC325 removes the need for bulky standard clamp holders and can accommodate 2, 3, 4 or 5 clamps. Weight of one line clamp: 0.560 kg
- Ergonomics: all the clamps are in line, making it easier to adjust the position of the device on the cable.
- Patented clamp locking system : only the top clamp can be activated. The clamps are automatically released as soon as they are locked onto the conductor. This allows earthing to be done in the right sequence with no risk of error.
- The upper surface of the clamp nose is lined up with the jaw of the clamp above it. Each clamp facilitates the installation of the next clamp up on the cable.
- The clamps are retrieved using the removal hook fixed onto the clamp holder adapter.

Technical specifications: The device is composed of :

- 3 clamps GDC24
- 3 short-circuiting cables
- 1 earthing cable
- 1 earthing clamp

According to models, the device can also be equipped with an insulating stick with soft cover, an earthing rod and a transport case.

Standard models :

Short-circuit cables : 35 mm², 2.75 m

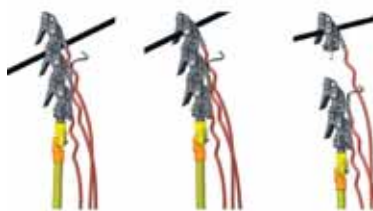
Earth cable : 16 mm², 16 m

Clamp holder GDC24 equipped with a universal end fitting. This allows the angle to be adjusted, facilitating installation from the pole.

Isc : 8 kA/1s

The short-circuit cable can be aluminium instead of copper (please enquire).

SETTING UP



DISASSEMBLY



Ref.	Earth clamp	Earth rod	Stick	Stick cover	Storage case
AUTOCLAM8N	NB8	no	no	no	no
AUTOCLAM8NC	NB8	701	TR276U	HTR11100	TD386
AUTOCLAM8T	T702*	no	no	no	no
AUTOCLAM8TC	T702*	701	TR276U	HTR11100	TD386

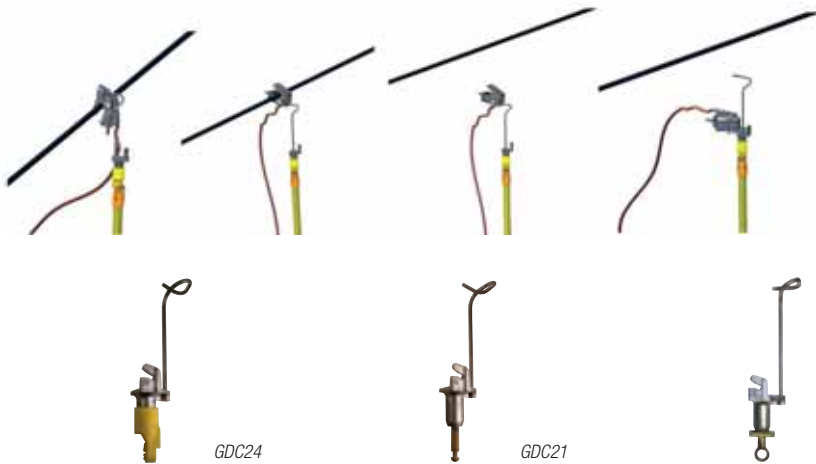
*Reel with an earth clamp attached. All compositions possible on request with Isc from 8 to 18 kA/1s with all components at choice.

Middle Voltage • Overhead lines : solution from the pole with spring clamps Type of network: LV  MV  HV 

GDC

TOOL FOR INSTALLING AND REMOVING THE GDC325 CLAMP ON THE AUTOCLAM SYSTEM

+ Reference GDC24 : Thanks to its adjustable angle, the removal tool with a universal end fitting facilitates the installation of the device from the post.



Ref.	Description
GDC24	Installation and removal tool with universal end fitting
GDC21	Installation and removal tool with APV end fitting (hexagonal 12 mm)
GDC25	Installation and removal tool with CR end fitting (ring for hooked stick)
GDC27	Installation and removal tool with B end fitting (bayonet)
GDC24PL	Installation and removal tool with Polish bayonet

DMTABT324FI

EARTHING AND SHORT-CIRCUIT EQUIPMENT FOR OVERHEAD LINES

IEC 61230

Use: The earthing and short-circuiting device DMTABT324FI is designed for bare MV overhead lines with 3 cables.

Possibility to install the earth clamp on the earthing cable or on the earthing rod.

Clamps BT324 from the device are spring clips allowing its automatic clamping on the conductor.

Each clamp is fixed on an insulating stick made of foam core tubes IEC 60855-1.

This set can be installed and removed from the pylon.

+ 100% aluminium device

Technical specifications: Spring-loaded clamps for conductor diameter from 3 to 32 mm.

Max Isc : 6,7 kA/1s.

The device includes :

- 3 clamps BT324, connected by 2 short-circuit aluminum cables silicone insulated, cross-section 50 mm², length 1,5 m, and 1 earthing aluminum cable silicone insulated (cross-section 35mm², length 4m) equipped with the DF16 connector,
- 3 insulating IEC 60855-1 sticks Ø 26mm, length 1,6m, where the clamps are fixed,
- 1 earthing clamp NB8 and the DM16 connector,
- 1 earthing clamp NB8 for hexagonal or cylindrical earthing rod with earthing aluminum cable silicone insulated (cross-section 35 mm², length 12 m), and equipped with the DM16 connector,
- 1 hexagonal earthing rod, ref. 701M, length 1 m,
- 1 hammer M135NER 1250G.

The set is delivered in :

- 1 bag HMALT containing the cable and the hammer.
- 1 bag H2P180H containing the sticks and the earth rod.



Ref.	Description
DMTABT324FI	Earthing and short-circuit equipment for overhead lines



Middle Voltage • Overhead lines : solution from the pole with screw clamps

Type of network: LV  MV  HV 

MT535URU

SCREW CLAMP FOR BARE MV OVERHEAD LINES

IEC 61230

Use: For short-circuiting and earthing bare overhead lines from the post.

⊕ Lightweight, very compact clamp.

Technical specifications: Clamping range on line conductor 3 to 32 mm.

Max Isc : 25 kA/1s.

Material : Aluminium.

The central clamp can be fitted with one or two attachment rods for one or two extra phase clamps.

DMT535URU : Made to measure earthing and short-circuiting device please contact us.



MT535URUAP2



MT535URUB



MT535URUCR

Ref.	Description	Dimensions (mm)	Weight (g)
MT535URUAP	Clamp with AP end fitting (hexagonal 12 mm)	44 x 100 x 180	620
MT535URUB	Clamp with B end fitting (VDE-type bayonet)	44 x 100 x 180	620
MT535URUCR	Clamp with CR end fitting (ring for hooked stick)	44 x 100 x 180	620
MT535URUCR1	Clamp with CR end fitting and 1 attachment rod	97 x 100 x 180	720
MT535URUCR2	Clamp with CR end fitting and 2 attachment rods	150 x 100 x 180	850
MT535URUAP2	Clamp with CR end fitting and 2 attachment rods	150 x 100 x 180	850
MT535URUB2	Clamp with B end fitting and 2 attachment rods	150 x 100 x 180	850

Other end fittings available on request.

DBC332

DUCK BILL CLAMP (SPRING PRE-POSITIONING CLAMPS)

IEC 61230

Use: For short-circuiting and earthing bare overhead lines from the post.

⊕ Lightweight, compact clamp fitted with a spring enabling it to be pre-positioned on the conductor so that it stays in place even before the clamp is screwed tight.

Technical specifications: Clamping range on line conductor 3 to 32 mm.

Maximum allowable short-circuit current: 25 kA/1s

The clamp can be fitted with an attachment rod for one or two other phase clamps.

This attachment rod can take a TFK type connection with DIN lugs with a 10 mm stud hole.

Made to measure short-circuiting and earthing equipment available on request.



Ref.	Description	Dimensions (mm)	Weight (g)
DBC332CR	DuckBill clamp with ring end fitting (for hooked stick)	170 x 150 x 38	600
DBC332B	DuckBill clamp with Bayonet end fitting	220 x 150 x 38	760
DBC332AN	DuckBill clamp with bight end fitting	230 x 150 x 38	700
DBC332HE	DuckBill clamp with hexagonal end fitting (26 mm)	230 x 150 x 38	840
DBC332xx1	Duckbill clamp with an attachment rod for 1 other phase clamp		
DBC332xx2	Duckbill clamp with an attachment rod for 2 other phase clamps		

Other end fittings available on request.



LWA455PB

EQUIPOTENTIALITY PARKING BAR ON POST

IEC 61230

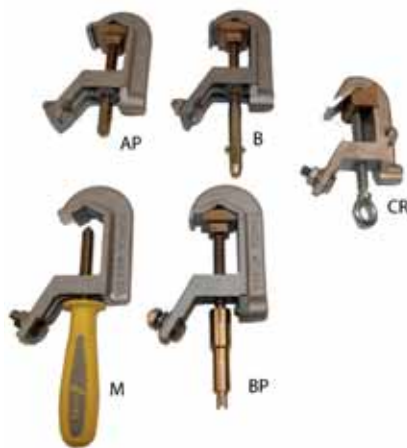
Use: Earthing and short-circuiting of overhead lines with equipotential bonding of the work area.

Technical specifications: The LWA455PB parking bar consists of :

- an SPPB aluminium post bracket for the connection of earthing clamps,
- a CTPB tensioning device (aluminium body and shaft treated steel) enabling the parking bar to be pre-positioned on the post, then tightened using the bronze VPB wheel.
- a steel fastening chain treated against corrosion and fixed onto the post bracket,
- an aluminium fastener fixed onto the post bracket to hold the fastening chain.

Ref.	Dimensions (mm)	Weight (kg)
LWA455PB	460 x 170 x 80	3,5
Spare part(s):		
SPPB	Post bracket with M8 screws	
ECTPB	Tensioning device with screws for fastening the chain	
CPB900	Fastening chain with safety pin	
NPB	Fastener for mounting on the post bracket (with M8 screws)	
VPB	Bronze wheel for arming bar	
LAPB	Arming latch with spring and fastening pin	

Overhead lines : Earthing clamps



Choice of end fittings for earthing clamps

CHOICE OF END FITTINGS FOR EARTHING CLAMPS

Ref.	End fitting
AP	Hexagonal 12 mm
B	Bayonet (DIN type)
BP	Polish bayonet
M	With handle
CR	Hook

Middle Voltage • Overhead lines : earthing clamps

Type of network: LV  MV  HV 

T702

REEL EQUIPPED WITH AN EARTH CLAMP

IEC 61230

Use: The reel is used to store the earthing cable. The earthing clamp permanently mounted on the reel makes the connection between the cable and the earthing rod (type 701 or PTT130).

This reel is mounted on complete earthing and short-circuiting devices EY322 and AUTOCLAM.

Technical specifications: Made of steel treated against corrosion.

T702 : standard empty reel (without cable).

Can store up to 16 m of 25 mm² cable.

Weight : 1,8 kg

T702G : large reel (without cable).

Can store up to 25 m of 16 mm² cable or 16 m of 35 mm² cable.

Weight : 2,5 kg



Ref.	Description
T7021616	Reel ref T702 with 16 m of 16 mm ² cable
T7022516	Reel ref T702 with 16 m of 25 mm ² cable
T702G2516	Large reel, ref T702G, with 16 m of 25 mm ² cable
T702G3516	Large reel, ref T702G, with 16 m of 35 mm ² cable

NB8

EARTHING CLAMP

IEC 61230

Use: For connection to the earthing conductor. Can be positioned on the earth rod (type 701 or PTT130).

Technical specifications: Made of aluminium bronze

Contact pad for cable lug for TFK type cable.

M10 stainless steel screws included.



Ref.	Capacity	Max. Isc	Material	Dimensions (mm)	Weight (kg)
NB8	Ø 6 to 27 mm / flat 0 to 25 mm / hexagonal 19 mm	20 kA/1 s	cupro-alu	100 x 100 x 40	0,5

N3B8

TRIPLE EARTHING CLAMP

IEC 61230

Use: Makes the short-circuit and earth connections for the phase cables.

Technical specifications: Made of aluminium bronze

Contact pad for triple cable lug taking 3 TFK type cables at the same time.

M10 stainless steel screw included. (1x).



Ref.	Tightening capacity	Max. Isc	Length (mm)	Weight (kg)
N3B8	Ø 6 to 30 mm / flat 30 mm / hexagonal 19 mm	31,5 kA/1s	100	0,75



PIMT

EARTHING AND SHORT-CIRCUITING SYSTEM FOR MV SUBSTATIONS

IEC 61230

Technical specifications: Standard composition :

- A set of 3 identical clamps with AP end fitting (other end fittings on request): MT535, MT525, MT516 or MT416.
- A TRIFURCATION kit : set of extra flexible sheathed copper jumper cables with sealed cable lugs, connected by a junction block.

Short-circuit cable length : 0,8 m.

Earth cable length : 2 m.

- An earth clamp : NB8
- A telescopic insulating stick : TR245APV
- A metal case : CM535

All other compositions possible on request.

Ref.	Clamps composition	Isc	Short-circuit and earth cable cross-sections
PIMT16	3xMT516 + 3xMT416 + 3xMT525	8 kA/1s	35 mm ²
PIMT46	3xMT516	8 kA/1s	35 mm ²
PIMT56	3xMT416	8 kA/1s	35 mm ²
PIMT66	3xMT525	8 kA/1s	35 mm ²
PIMT76	3xMT535	8 kA/1s	35 mm ²
PIMT110	3xMT516 + 3xMT416 + 3xMT525	13 kA/1s	50 mm ²
PIMT410	3xMT516	13 kA/1s	50 mm ²
PIMT510	3xMT416	13 kA/1s	50 mm ²
PIMT610	3xMT525	13 kA/1s	50 mm ²
PIMT710	3xMT535	13 kA/1s	50 mm ²
PIMT49	3xMT525	14,5 kA/1s	s/c : 70 mm ² / earth : 35 mm ²
PIMT48	3xMT535	8 kA/1s	35 mm ² (length s/c = 2 m, earth = 5 m)
PIMTxxx	At choice	Depending on composition	At choice

TRIFURCATION: Other cable lengths and cross-sections possible on request. Other clamp end fittings available on request.



Earthing clamps for PIMT device

EARTHING CLAMPS FOR PIMT DEVICE

IEC 61230

⊕ **Lightweight, compact clamps. With the AP end fitting, they are fitted with an anti-rotation brake to prevent them rotating during installation.**

Technical specifications: The MT525 has the particularity of being hinged, enabling it to be installed on cylindrical conductors in all configurations up to 90°.

The MT535 and MT516 are for mixed use on flat and cylindrical conductors.

The MT416 clamp is for flat bars.

M10 stainless steel screws included.



Ref.	Clamp	End fitting	Capacity on cylindrical connectors (mm)	Capacity on flat conductors (mm)	Max. Isc	Material	Dimensions (mm)
MT535AP	MT535	AP	Ø 5 - 35	16 - 40 and 5 - 40	31,5 kA/1s	Alu	44 x 100 x 180
MT535B	MT535	B	Ø 5 - 35	16 - 40 and 5 - 40	31,5 kA/1s	Alu	44 x 100 x 180
MT525AP	MT525	AP	Ø 5 - 35	-	14,5 kA/1s	Cupro - alu	85 x 56 x 192
MT525B	MT525	B	Ø 5 - 35	-	14,5 kA/1s	Cupro - alu	85 x 56 x 192
MT516AP	MT516	AP	Ø 8 - 19	0 - 19	20 kA/1s	Alu	35 x 79 x 143
MT416AP	MT416	AP	-	40 - 16	18 kA/1s	Alu	35 x 75 x 169

Also available in the standard version with these end fitting: M (handle) and CR (ring for hooked stick) on the MT535 clamp only. Other end fittings available on request.

Middle Voltage • Transformer substation

Type of network: LV MV HV

PIMT49S

EARTHING AND SHORT-CIRCUITING DEVICE FOR CELLS MC500, FLUAIR 24G AND 24F

Technical specifications: Composition :

PIMT49S :

- 3 clamps MT25AP1
- 1 earthing clamp NB8
- 1 trifurcation T70008C35020C
- 1 insulating stick TR245 APV
- 1 extracting hook CREXCO
- 1 case CM535

PIMT49SP :

- 1 earthing clamp NB8
- 1 trifurcation T70008C35020C
- 1 insulating stick TR245 APV
- 1 case CM535

KPIMT49S :

- 3 clamps MT25AP1
- 1 extracting hook CREXCO



PIMT49S



MT535AP

Ref.	Description
PIMT49S	Earthing and short-circuiting device for cells MC500, FLUAIR 24G and 24F
PIMT49SP	PIMT49S without clamps
KPIMT49S	Set of 3 clamps MT25AP1 + hook CREXCO
MT25AP1	Single clamp for cells MC500, FLUAIR 24G and 24F

TRIF

SET OF CABLES FOR SHORT-CIRCUITING AND EARTHING DEVICES

IEC 61230

Use: Use to equip or replace substation short-circuiting and earthing cables.

Technical specifications: A TRIFURCATION is a set of copper cables for a 3-phase earthing and short-circuiting device, consisting of:

- 3 short-circuiting cables,
- 1 earthing cable
- all connected to a junction block and fitted with TFK type sealed cable lugs.



Ref.	Isc	3 Short-circuiting cables	Earthing cable	Stud hole diameter of s/c and earthing cables (mm)
T35008C35020C	8 kA/1s	35 mm ² - 0.8 m	35 mm ² - 2.0 m	Ø 10
T50008C50020C	13 kA/1s	50 mm ² - 0.8 m	50 mm ² - 2.0 m	Ø 10
T70008C70020C	18,5 kA/1s	70 mm ² - 0.8 m	70 mm ² - 2.0 m	Ø 10
T70008C35020C	18,5 kA/1s	70 mm ² - 0.8 m	35 mm ² - 2.0 m	Ø 10
T95015C35025C	25 kA/1s	95 mm ² - 1.5 m	35 mm ² - 2.5 m	Ø 10
T95010C95030C	25 kA/1s	95 mm ² - 1.0 m	95 mm ² - 3.0 m	Ø 10
T12008C50020C	31,5 kA/1s	120 mm ² - 0.8 m	50 mm ² - 2.0 m	Ø 10
T12008D12018D	31,5 kA/1s	120 mm ² - 0.8 m	120 mm ² - 1.8 m	Ø 12

Other compositions available on request.



NBD25AP



NBD25B



NBD25M

NBD25

EARTHING CLAMPS FOR COMPACT FIXED BALL POINTS

CEI 61230

Use: Clamp specially designed for earthing fixed ball points.

⊕ **Extremely easy to use on all shapes of conductor and fixed points.**

Technical specifications: Made of aluminium bronze.
M10 stainless steel screws included.

Max Isc : 31,5 kA/1s
40 kA/0,5s on ball Ø 25 mm
20 kA/1s on ball Ø 20 mm

Clamping capacity :
Cylindrical conductor : 7 - 37 mm
Flat conductor : 37 mm
Fixed ball point - Sphere Ø : 20 and 25 mm
Fixed ball point - T Ø : 20 mm

Ref.	End fitting	Dimensions	Weight (g)
NBD25AP	AP (Hexagonal 12 mm)	165 x 65 x 40	850
NBD25B	B (Bayonet)	210 x 65 x 40	920
NBD25M	M (Handle)	210 x 150 x 80	1050
NBD25CR	CR (Ring for hooked stick)	165 x 65 x 40	850

Other end fittings available on request.



NB2025AP



NB2025B

NB2025

EARTHING CLAMPS FOR COMPACT FIXED BALL POINTS

IEC 61230

Use: Clamp specially designed for earthing fixed ball points.

⊕ **Extremely easy to use on all shapes of conductor and fixed points.**
With the AP end fitting, they are fitted with an anti-rotation brake to prevent them rotating during installation.

Technical specifications: Made of aluminium bronze.
M10 stainless steel screws included.

Max Isc : 23,5 kA/1s
20 kA/1s on ball Ø 20 mm

Clamping capacity :
Cylindrical conductor : 5 - 32 mm
Flat conductor : 32 mm
Fixed ball point - Sphere Ø : 20 and 25 mm
Fixed ball point - T Ø : 20 mm

Ref.	End fitting	Dimensions (mm)	Weight (g)
NB2025CR	CR (ring for hooked stick)	125 x 75 x 35	740
NB2025M	M (Handle)	175 x 78 x 35	760
NB2025B	B (Bayonet)	175 x 78 x 35	760
NB2025AP	AP (Hexagonal 12 mm)	125 x 75 x 35	740

Available as standard with end fitting: - M (handle) - CR (ring for hooked stick) Other end fittings available on request.



Middle Voltage • Transformer substation

Type of network: LV MV HV

CORATRIF

COMPLETE EARTHING AND SHORT-CIRCUITING DEVICE

IEC 61230

Use: For fixed ball points, diameters 20 and 25 mm, flat and cylindrical bars.

Suitable for fitting E240 lug barrels.

Technical specifications: Composition :

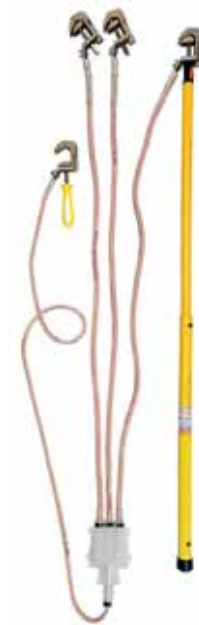
- 1 TRIFURCATION as defined in the table
- 3 NBD25AP phase clamps (hexagonal end fittings, 12 mm)
- 1 NBD25M earthing clamp (with ergonomic handle)
- 1 insulating stick TR245APV
- 1 metal storage case CM535

Composition of the CORATRIF08 :

- 1 TRIFURCATION as defined in the table
- 3 NBD25B phase clamps (bayonet end fittings)
- 1 NBD25M earthing clamp (with ergonomic handle)
- 1 insulating stick TR276B
- 1 metal storage case CM535

Composition of the CORATRIFSN :

- Identical to CORATRIF08 without the insulating stick TR276B



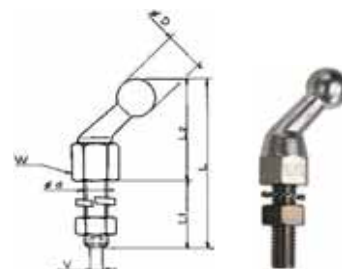
Ref.	Max. Isc	3 Short-circuiting cables	Earthing cable	Item n° of the corresponding trifurcation
CORATRIF	18,5 kA/1s	70 mm ² - 1.5 m	35 mm ² - 2.0 m	T70015C35020C
CORATRIF01	25 kA/1s	95 mm ² - 0.8 m	95 mm ² - 3.0 m	T95008C95030C
CORATRIF02	18,5 kA/1s	70 mm ² - 0.8 m	35 mm ² - 5.0 m	T70008C35050C
CORATRIF03	18,5 kA/1s	70 mm ² - 0.8 m	35 mm ² - 10 m	T70008C35100C
CORATRIF08	25 kA/1s	95 mm ² - 1.5 m	35 mm ² - 2.5 m	T95015C35025C
CORATRIFSN	25 kA/1s	95 mm ² - 1.5 m	35 mm ² - 2.5 m	T95015C35025C

Other compositions and/or trifurcations on request.

FC20-FC25

ANGLED FIXED BALL POINT

Use: Used to make an electric contact on busbar.

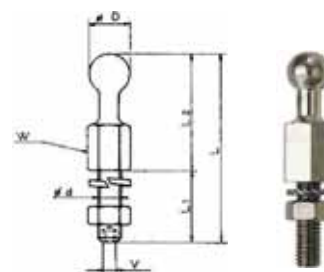


Ref.	Ball Ø D	Wrench	L (mm)	L1 (mm)	L2 (mm)	Ø d (mm)	W (mm)
FC2012	20 mm	6	93	37	56	M 12	22
FC2516	25 mm	8	122	46	76	M 16	27

FD20-FD25

STRAIGHT FIXED BALL POINT

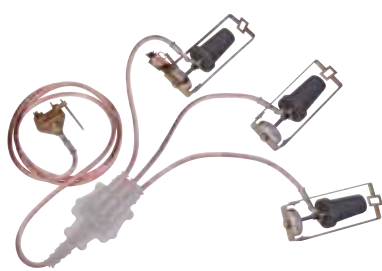
Use: Used to make an electric contact on busbar.



Ref.	Ball Ø D	Wrench	L (mm)	L1 (mm)	L2 (mm)	Ø d (mm)	W (mm)
FD20-12	20 mm	6	99	37	62	M 12	22
FD25-12	25 mm	6	111	37	74	M 12	27
FD25-16	25 mm	8	123	46	77	M 16	27



DMTPC250



DMTPC400



DMTPC

SHORT-CIRCUITING AND EARTHING DEVICE FOR SUBSTATIONS WITH PLUG-IN TYPE BUSHINGS

IEC 61230

Use: Earthing and short-circuiting device for 250 amp sockets ref. DMTPC250 and 400 amp consisting of:

- 1 trifurcation with 3 x 70 mm² short-circuiting cables, length 0,8 m and 1 earthing cable, length 2 m, ref. T70008C35020C
- 3 x 250A or 400A earth studs with their locking system (metal stirrup)
- 3 lockout-tagout padlocks
- an earth clamp ref. NB8

The kit is delivered in a carrying bag.

Set of 3 insulating rest studs and its padlock lockout system. Allows the cable disconnected from the transformer to be re-energised:

- for 250A - 24kV sockets ref. PRPC250
- for 400A - 24kV sockets ref. PRPC400

400A - 24kV lockout-tagout system with 3 insulating caps, and its padlock lockout system : ref. DCPC400

Technical specifications: Isc Max : 12,5 kA/1s

Ref.	Description	Dimensions (mm)	Weight (kg)
DMTPC250	Short-circuiting and earthing for substations with plug-in type bushings 250A	600 x 250 x 200	8
PRPC250	Set of 3 insulating rest studs for MV substation connectors 250A	400 x 300 x 100	3
DMTPC400	Short-circuiting and earthing for substations with plug-in type bushings 400A	600 x 250 x 200	10,5
PRPC400	Set of 3 insulating rest studs for MV substation connectors 400A	400 x 300 x 100	5
DCPC400	Set of 3 lockout-tagout devices for MV transformer plug 400A	400 x 300 x 100	4,5

Transport : cases and bags



CM535

EMPTY CASE FOR PIMT EARTHING DEVICE

Ref.	Dimensions (mm)	Weight (kg)
CM535	910 x 240 x 105	6,34

Middle Voltage • Transport : cases and bags

Type of network: LV  MV  HV 

TD386

CARRYING CASE FOR EARTHING DEVICE



Ref.	Dimensions (mm)	Weight (kg)
TD386	640 x 240 x 160	4,2

HMALT

CARRYING BAG FOR EARTHING DEVICE

Technical specifications: Very sturdy, equipped with 4 handles, label holder on the outside and A4 document holder window on the inside.
Lightweight.



Ref.	Dimensions (mm)	Weight (g)
HMALT	600 x 250 x 200	980

OUR SELECTION

SMAPE

**EARTHING SYSTEM
WITH INTERLOCKING
BETWEEN THE LINE
CLAMP AND THE
EARTH CLAMP**

IEC 61230



- 100% secure (PATENTED)
- Lightweight and compact device
- Easy to handle, sturdy earth clamp
- Strong key that protects you
- Automatic checking that the clamp is tight enough
- Ergonomic design, easy to use

Technical specifications :

- Mechanical interlocking between the line clamp and the earth clamp
- A locking system on the earth clamp and the line clamp ensures the operations are carried out in the right order
- Mechanism guaranteeing sufficient contact pressure on each clamping

High Voltage • Earthing device with line clamp/earth clamp interlocking

Type of network: LV  MV  HV 

LINE CLAMPS

LINE TYPE «3-42»

Item number : SA342
 Max. Isc : 40 kA/1s
 Clamping range on cylindrical conductors : Ø 3 to 42 mm
 Weight : 1,2 kg



LINE/SUBSTATION TYPE «15-60»

Item number : SA1560
 Max. Isc : 40 kA/1s
 Clamping range on cylindrical conductors : Ø 15 to 60 mm
 Weight : 1,3 kg



SUBSTATION TYPE «20-120»

Item number : SAP20120
 Max. Isc : 40 kA/1s
 Clamping range on cylindrical conductors : Ø 20 to 120 mm
 Weight : 1,6 kg



LINE TYPE «10-60»

Item number : SAP1060
 Max. Isc : 31,5 kA/1s
 Clamping range on cylindrical conductors : Ø 10 to 60 mm
 Weight : 1,3 kg



SUBSTATION TYPE «120-220»

Item number : SAF220
 Max. Isc : 40 kA/1s
 Clamping range on cylindrical conductors : Ø 120 to 220 mm
 Weight : 3,2 kg



COMPACT SWITCHGEAR TYPE

Item number : SANB2025
 Max. Isc : 31,5 kA/1s
 Clamping range on ball : Ø 20 to 25 mm
 Weight : 0,750 kg



SUBSTATION TYPE

Item number : SAE200
 Max. Isc : 31,5 kA/1s
 Clamping range on vertical or horizontal bars :
 - On edges : 30 x 100 mm
 - On flat : 60 x 100 mm
 Weight : 2,4 kg



END FITTINGS



AN



HE



B



X46



AP

EARTH CLAMPS



SAGTE25

Max. Isc : 40 kA/1s
 Clamping range on flat conductors : 40 mm
 Weight : 1,8 kg



SANBCRTTS

Max. Isc : 40 kA/1s & 63 kA/0,5s
 Clamping range on flat conductors : 30 mm
 Weight : 1,2 kg



SANB33S

Max. Isc : 40 kA/1s
 Clamping range on flat conductors : 35 mm
 Weight : 1,2 kg



SANBE2025

Max. Isc : 40 kA/1s
 Clamping range on ball : 35 mm
 Weight : 1,2 kg

OUR SELECTION

SMAPE

-> EXAMPLES OF CONFIGURATIONS

COMPACT SWITCHGEAR VERSION

Set of 1 Earth clamp + 1 Line clamp without earthing cable, delivered with one key for the set

Ref.	Earth clamp	Line clamp	End fitting
S1P5VNC	SANBCRTTS	SANB2025	AP
S1P5HNC			HE
S1P5BNC			B
S1P5VNB	SANBE2025		AP
S1P5HNB			HE
S1P5BNB			B

SUBSTATION VERSION

Set of 1 Earth clamp + 1 Line clamp without earthing cable, delivered with one key for the set

Ref.	Earth clamp	Line clamp	End fitting	
S1P1HNC	SANBCRTTS	SA1560	HE	
S1P1BNC			B	
S1P1XNC			X46	
S1P2HNC		SAP20120	SAF220	HE
S1P2BNC				B
S1P2XNC				X46
S1P4HNC		SAF220	SAE200	HE
S1P4BNC				B
S1P4XNC				X46
S1P1HN3	SANB33S	SA1560	HE	
S1P2HN3		SAP20120		
S1P4HN3		SAF220		
S1P6HN3		SAE200		

LINE VERSION

Set of 1 Earth clamp + 1 Line clamp without earthing cable, delivered with one key for the set

Ref.	Earth clamp	Line clamp	End fitting	
S1P0AGT	SAGTE25	SA342	AN	
S1P0XGT			X46	
S1P0BGT			B	
S1P0HGT			HE	
S1P1AGT		SA1560	SAP1060	AN
S1P1XGT				X46
S1P1HGT				HE
S1P1BGT				B
S1P3AGT		SAP1060	SAE200	AN
S1P3BGT				B
S1P3HGT				HE



NEW
2016

magnetic key
SMAPE system

This unique concept relies on a mechanism with no need for key entry or power.

Opening is achieved using a key bearing a magnetic code that moves the mobile components of the cylinder without making any mechanical contact.

The encoded module assembly located on the cylinder is jacketed and fully sealed.

The new version is particularly suited to harsh environments involving exposure to corrosion, sand, moisture, freezing, vandalism etc.

- Anti-vandalism locking with no hole and no power requirement
- Non-duplicatable keys
- Captive keys

To order your magnetic key SMAPE system, select the model you want from this page and add the code MA at the end of the part number.

Example:

For an S1P4HNC with a magnetic key, enter S1P4HNCMA



High Voltage • Equipotential bonding

Type of network: LV MV HV

LEQ

EQUIPOTENTIAL BONDING

Use: To place all the metal parts in the work area at the same potential by bonding with LEQ.

Technical specifications: Green transparent PVC insulated extra flexible copper cable.
Cable ends crimped with 2 cable lugs with 12 mm stud holes for connecting HV line clamps and earth clamps.



PxxxJAS1



Pxxx20120



PxxxMT525



PxxxHE



Pxxx1560



PLE432M



MT516M



NB8M



NBD25M



TEQ35--DD



NB8



N3B8



NB33S



NBCRTTS



JAS19

Ref.	Produit	Specificity
P0501560	Stick with line clamp fitted directly	S1560 line clamp with stick
P05020120	Stick with line clamp fitted directly	S20120 line clamp with stick
P050540	Stick with line clamp fitted directly	S540 line clamp with stick
P050NBD25	Stick with line clamp fitted directly	NBD25 line clamp with stick
P050MT525	Stick with line clamp fitted directly	MT525 line clamp with stick
P050JAS19	Stick with line clamp fitted directly	JAS19 earth clamp with stick
P050HE	Stick alone	Sticks available in different lengths (always multiples of 50 cm)
P---1560	Stick made to measure (--- = length in cm) with line clamp fitted directly	Sticks available in different lengths (always multiples of 50 cm)
S1560HE	Line clamp	S1560 line clamp alone (use with an earthing stick with an HE end fitting)
S20120HE	Line clamp	S20120 line clamp alone
MT516M	Earthing clamp with handle	Flat, round bar, earth rod
TEQ3502DD	Equipotential bonding cable	2 m
TEQ3503DD	Equipotential bonding cable	3 m
TEQ3504DD	Equipotential bonding cable	4 m
TEQ3505DD	Equipotential bonding cable	5 m
TEQ3506DD	Equipotential bonding cable	6 m
TEQ3507DD	Equipotential bonding cable	7 m
TEQ3515DD	Equipotential bonding cable	15 m
TEQ35--DD	Equipotential bonding cable	Other lengths possible on request (-- : length in m)
NBCRTTS	Earthing clamp	For wing clamps
NB33S	Earthing clamp	For flat bars
GTE25COS	Earthing clamp	For pylon angle section
NB8 ou N3B8	Earthing clamp	For earth rod
NBD25M	Earthing clamp	For flat, round bar, earth rod, fixed ball point
PLE432M	Earthing clamp with handle	For flat, round bar, earth rod
NB8M	Earthing clamp with handle	For flat, round bar, earth rod

You can combine the different references available to constitute your equipotential bonding, using a choice of : 1 rod + 1 jumper + 1 earth clamp or 2 rods + 1 jumper or 1 line clamp + 1 jumper + 1 earth clamp or 2 clamps + 1 jumper

New!



LEQ35DB

TEAR-OFF EQUIPOTENTIAL BONDING

IEC 61230

Use:

LEQ35DB allows an emergency disconnection of an equipotential bonding when used with mobile platform lifts.

It allows to separate the platform from the driver without human intervention on the equipotential bonding.

⊕ Can be inserted in all equipotential bondings.

Lightweight.

Maintenance free.

Secured after calibrated disconnection : the device can't be used again.

Technical specifications:

Minimal section : 35 mm².

Permanent passage of 100 A.

Compatible with line clamps and earth clamps

Breaking force : 50 daN.

Ref.	Dimensions (cm)	Weight (g)
LEQ35DB	71 x 3 x 3	700

New!



KLEQTP

EQUIPOTENTIAL BONDING SET FOR CONSTRUCTION COMPANIES

IEC 61230

Use:

The equipotential bonding set KLEPT is designed for construction companies using platforms or scaffolding in the 50 meters vicinity zone of a live bare conductor.

The tear-off equipotential bonding LEQ35DB allows an emergency disconnection of this equipotential bonding without human intervention.

Technical specifications:

The device is composed of :

- 1 insulating stick with APV end fitting
- 1 clamp NBD25AP
- 1 earthing clamp NB33S
- 1 earthing copper cable 35 mm² length 15 m connecting the line clamp and the earthing clamp
- 1 earthing copper cable 35 mm² length 25 m
- 1 tear-off equipotential bonding LEQ35DB

The device is delivered in a transport bag HMALT.

Ref.	Dimensions (mm)	Weight (kg)
KLEQTP	600 x 250 x 200	19

TL11

CLAMPS ON INSULATING STICKS FOR EQUIPOTENTIAL BONDING

IEC 61230

Use: UTE C 18-510 stipulates: (in Art 4.8.3 UTE C18.510)

Safety isolation does not protect against induction and non-equipotentiality of job sites. Extra precautions must be taken.

«Equipotentiality of job sites : Never insert any items likely to have different potentials between two conductors, including the ground and the earthed posts. Ensure first that there is equipotential bonding between these parts, whilst taking all useful precautions to avoid inserting any such items.»

➕ Ergonomic handle with hand guard.

Technical specifications: Epoxy resin insulating stick.

2 copper alloy clamps.

Clamps capacity: Ø 4 mm to Ø 32 mm.

40 mm wide flat bar.

Green transparent copper connection cable, length 1.2 m, cross-section 35 mm².

Isc: 8 kA/1 second.

Supplied in soft cover.

Other cross-sections and lengths available on request



Ref.	Overall dimensions (mm)	Weight (kg)
TL11	910 x 60 x 40	1,25

SFERM3

EARTHING CABLE REELS FOR EQUIPOTENTIAL BONDING

Use: For equipotential bonding.

Protection against electrostatic charges and shocks due to lightning.

Tank trucks, tanks.

Technical specifications: Sturdy construction, made of embossed and pressed steel sheet.

Reel mounted on two sealed bearings.

Automatic coil spring return.

The electrical connection is made by a ring/brush system from a cross-section of 50 mm².

Supplied with an H07VK green/yellow cable and alligator clip.

Swivels 180°.

Chassis without housing; designed to allow the cable or spring to be changed immediately (reduced maintenance costs).

Equipped as standard with a check pawl.

Black polyester epoxy paint.

Optional: Anti-corrosion treatment by zinc or metal plating.

All reels are equipped as standard with an H07VK green/yellow cable and alligator clip.

If your application does not requires the 180° swivel feature, other methods of fixing are available on request. If you require a reel with other features, do not hesitate to enquire.



Ref.	Cable diameter (mm ²)	Cable length (m)
SFERM31016	16	10
SFERM31025	25	10
SFERM32016	16	20
SFERM32025	25	20



B

Choice of end fittings for earthing clamps

CHOICE OF END FITTINGS FOR EARTHING CLAMPS



AN



HE



CL



BCL



X46



CR

Ref.	End fitting
AN	Ring
HE	26 mm hexagonal
B	Bayonet (DIN type)
CL	Bell
BCL	Bayonet bell
X46	Screw-on
CR	Hook



HT1080

Substation and line version

EARTHING CLAMPS, SUBSTATION AND LINE VERSION

CEI 61230

Use: For cylindrical conductors and bars.

Fits TFK connection.

Technical specifications: Model R1560 : Anti-arcing or «martyr» clamp : provides the connection between the cable and the clamp



HT1080AAN with ring and lifting ring



S1560AN on R1560CR



R1560



S1560AN on R1560AN



S540AN



S1560AN

Ref.	Tightening capacity	End fittings	Max. Isc	Length (mm)	Weight (kg)
S540	Ø 5 to 40 mm	HE, AN, CR, CL, BCL and X46	31,5 kA/1s	156	1,4
S1560	Ø 15 to 60 mm	HE, AN, CR, CL, BCL and X46	31,5kA/1s - 40kA/1s with P1560S double plate	156	1,4
HT1080	Ø 10 to 80 mm	HE, AN, CR, CL, BCL and X46	31,5 kA/1s	275	1,3
HT1080A	Ø 10 to 80 mm	HE, AN, CR, CL, BCL and X46	31,5 kA/1s	275	1,3
R1560	Ø 15 to 60 mm	HE, AN, CR	31,5 kA/1s	275	1,3

Complete the reference with the required end fitting. Example : S1560B for a clamp S1560 with bayonet end fitting.

SUBSTATION VERSION

EARTHING CLAMPS, SUBSTATION VERSION

IEC 61230

Use: For cylindrical conductors and bars: S20120 type clamp

For flat bars: E200 type clamp

Fits TFK connection.



Ref.	Embouts	Tightening capacity	Max. Isc	Length (mm)	Weight (kg)
S20120	HE, B, X46, CL, BCL	Ø 20 to 120 mm	31,5 kA/1s - 40 kA/1s with double plate P1560S	217	1,8
SF220	HE, B, X46, CL, BCL	Ø 120 to 220 mm	31,5 kA/1s - 40 kA/1s with double plate P1560S	280	3,7
E200	HE, B, X46, CL, BCL	Vertical or horizontal bars - On edges: 30 x 100 mm - flat : 60 x 100 mm	31,5 kA/1s	215	3,7

Complete the reference with the desired end fitting. Example : S20120HE for S20120 clamp with hexagonal end fitting.

New!

MALTAC1050

EARTHING FROM THE GROUND WITH INSULATING ROPE

CEI 61230

Use:

Attachment/detachment of this clamp is done from the ground using an insulating rope previously passed over the conductor.

The clamp is raised on the conductor by pulling the 1st rope. The clamp is detached by pulling the 2nd rope.

Passing the rope over the conductor can be done by :

- Using an insulating stick equipped with the adapter for reel holder PBU with the insulating reel
- Using the MAGICROU fastening device

⊕ Earthing at great height from the ground.

Technical specifications:

Connection to TFK earthing cable with cable lugs with stud hole diameter of 12 mm.

Clamping capacity : Ø 10 to 50 mm

Insulating rope (IEC 62192).



Ref.	Description	Max. Isc	Dimensions	Weight (kg)
PAC1050SC	Clamp alone	31,5 kA/1s	220 x 220 x 80 mm	1
ENSPAC1050B01	Set of 3 line clamps with earthing cables (95 mm ² length 14 m) and earthing clamps, 3 x 30 m insulating rope and 3 earthing rods, delivered in soft cases	25 kA/1s	600 x 250 x 200	3 x 21

New!



MR50

ROLLING EARTH DEVICE FOR CABLES UNREELING

IEC 61230

Use:

This device is used for the unreeling of aerial electric line cables, for low, medium and high voltage.

System equipped with 2 upper pulleys and 1 lower pulley with adjustable pressure, for always ensuring an efficient contact during the cable unreeling.

The frame and the pulleys are made of aluminum alloy.

At the back, the device can receive earth cables of TFK types equipped with connectors of 10mm diameter, mounted with stainless-steel M10 screw.

At the other end of this cable we can fit an earth clamp of various types : NB8, N3B8 or NB33S...

Technical specifications:

- Tightening capacity on cylindrical conductor : from Ø 5 mm to Ø 50 mm
- Max Isc : 25 kA/1s

MALTROUL is a complete Rolling earth device for cables unreeling composed of : 1 rolling line clamp MR 50, 1 earth cable 95 mm² 10 m TFK9510, 1 earth clamp NB8, 10m of insulating rope D106CEI, 1 bahg HMALTROUL, 1 earth rod 701, 1 bag H701.

Ref.	Description
MR50	Rolling earth clamp alone for cable unreeling
MALTROUL	Complete rolling earth device



GTE25COS



CDT3GTE

Line version

EARTH CLAMP FOR PYLON ANGLE SECTION WITH TFK CONNECTION

IEC 61230

Use: For earthing on pylon angle sections.

+ Anti-pullout tip on the clamping shaft.

Technical specifications: • GTE25COS : Angle section clamp

- CDT3GTE : Earth bar, can take 3 earth clamps for earthing multi-bundle lines on painted pylons. Aluminium body and copper shoe.

Ref.	Tightening capacity	Max. Isc	Length (mm)	Weight (kg)
GTE25COS	Up to 25 mm	31,5 kA/1s - 40 kA/1s with double plate	170	1,6
CDT3GTE	Up to 25 mm	31,5 kA/1s	250	3

Substation version

EARTH CLAMP, SUBSTATION VERSION

IEC 61230

Use: Fits TFK connection.



NBCRTTS



NB33S



N3B8

Ref.	Specificity	Tightening capacity	Max. Isc	Length (mm)	Weight (kg)
NBCRTTS	For wing clamps	33 mm	40 kA/1s	100	1
NB33S	For flat bars	33 mm	40 kA/1s	100	1
N3B8	Triple earthing clamp	Ø 6 to 30 mm / flat 30 mm / hexagonal 19 mm	31,5 kA/1s	100	0,75

CHC31

INTERMEDIATE EARTHING STICK FOR CONNECTIONS AT GREAT HEIGHT, MAX ISC 31,5 KA/1S

IEC 61230

Use: Intermediate sticks for connections at heights are used to relieve the operator by bringing the earthing point 3 or 4 metres lower, which facilitates the various operations:

- checking for the absence of the nominal voltage,
- placing and clamping the aluminium stick on the conductor using the insulating stick,
- releasing the operating stick,
- placing the flexible earthing device between the earthing point and the earth bar,
- repeating the operation for each phase,
- carrying out the same operation in reverse order for removal.

The CHC31 conductor pole must be installed using:

- either specific CH131 type dedicated insulating stick
- or an RTTE type insulating stick equipped with an ERTTECH end fitting

These sticks are made of IEC 60855 type foam-filled tubes, colour orange.

It is strongly recommended that they be checked regularly.

Technical specifications: Aluminium tube Ø 31/35, cross-section 207 mm², with a special light alloy contact clamp with an

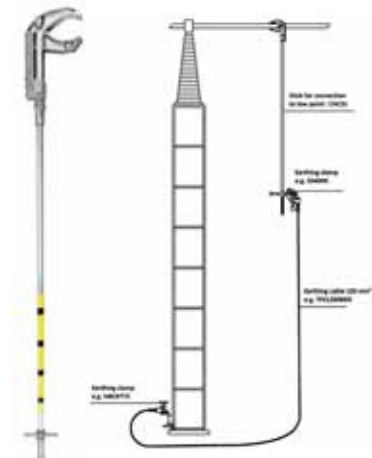
elastic conductor clamping system fitted at the top.

- Clamping ranges Ø 10 to 60 mm, Ø 20 to 120 mm, Ø 70 to 120 mm or 120 to 220 mm (depending on head type).

- The electrical contact between the line clamp and the conductor stick is made directly between the clamp and the aluminium tube as well as by 2 tin-plated copper flexible braids.

The clamp is tightened on the conductor using the lower insulated section, with the male end fitting engaged in the female end fitting.

- The bottom of the Ø 35 tube includes two Ø 30 aluminium earth studs designed to take earth clamps, type S540, S1560 for example.



Clamp CHC31_60



Clamp CHC31_120



Clamp CHC31_220



Clamp CHC31_20120

Ref.	Tightening capacity	Length (m)	Weight (kg)
CHC3120020120	Ø 20 - 120 mm	2	5,2
CHC3130060	Ø 10 - 60 mm	3	5,6
CHC3130020120	Ø 20 - 120 mm	3	6
CHC31300120	Ø 70 - 120 mm	3	5,8
CHC31300220	Ø 120 - 220 mm	3	10,8
CHC3140060	Ø 10 - 60 mm	4	6,2
CHC3140020120	Ø 20 - 120 mm	4	6,8
CHC31400120	Ø 70 - 120 mm	4	6,4
CHC31400220	Ø 120 - 220 mm	4	11

ERTTECH

STICK END FITTING FOR THE RTTE STICK FOR OPERATING CHC31 LOW POINT EXTENSIONS

Use: End fitting on RTTE operating for CHC31 low point extensions

⊕ Possible to use RTTE stick sections.

Technical specifications: Manufactured from tubing on foam, IEC 60855 Ø32 and Ø39 mm, orange, an RTTE type male joint and a female CH terminal fitting for assembly on the CHC31 low point extension.

May only be used to replace the higher part of RTTE sticks, to ensure a sufficient length of insulation, using, if necessary, an RTTE stick extension (ref: RE115, RE165, RE215).



Ref.	Description
ERTTECH	Stick end fitting for the RTTE stick for operating CHC31 low point extensions



CHI31

INSULATING STICK FOR OPERATING CHC31 LOW POINT EXTENSIONS

IEC 61230 / IEC 60855

Use: Insulating stick specifically for placing the CHC31 low point extension conductor stick.

Technical specifications: Made of IEC 60855 type foam-filled tube, Ø 39 mm, colour orange. Equipped with a female CH end fitting permanently mounted on the stick, 2 neoprene protective skirts, a hand guard and ribbed non-slip grip.

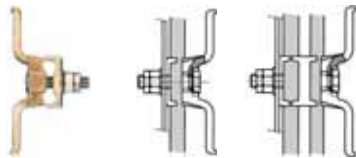
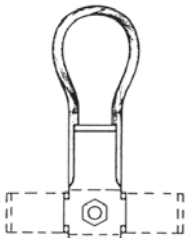
1-section stick, 3.2 or 4.5 m, with an insulated part equal to the CMAD for 225 kV and 400 kV.

Other lengths: please enquire.

Ref.	Max operating voltage	Length (m)	Insulating length (m)	Weight (kg)
CHI31300	225 kV	3,22	1,85	2,9
CHI31400	400 kV	4,47	3,10	3,9

Accessories:

H12	Soft cover for stick CHI31300
H14H	Soft cover for stick CHI31400



STA2147DP - STDA2147DP

PERMANENT SIMPLE AND DOUBLE POSITION EARTH CONNECTORS

IEC 61230

Use: Directly connected to the earth circuit cables. These are the most effective connection points for earthing device clamps and in particular for clamps ref. NBCRTTS.

Technical specifications: Made of aluminium bronze, these earthing connectors are installed on the structures of substations and high voltage installations.

Allows earth loops up to 147 mm² to be fixed, including cross-sections of less than 75 and 116 mm².

M14 stainless steel bolts and 2 bimetal washers included.

Ref.	Earth cable cross-section	Max. Isc	Dimensions (mm)	Weight (g)
STA2147DP	75 / 116 / 147 mm ²	40 kA/1s	162 x 65 x 52	500
STDA2147DP	116 / 147 mm ²	63 kA/0,5s	162 x 80 x 52	1280



CAX-CBX

ADJUSTABLE FIXED POINTS FOR VERTICAL OR OBLIQUE CONDUCTORS

IEC 61230

Use: These bars are designed to create earthing points in electrical installations so that standard S1560 or S540 earth clamps can be used.

Technical specifications: Max Isc : 30 kA/1s.

Can be swivelled in the clamping collar plane and the plane perpendicular to it.

Advice: For low diameter connectors (model 12-60), the movable part of the collar should be reversed.

Ref.	Min/Max diameter (mm)	Max. Isc	Material
CAX12120	12 - 120	31,5 kA/1s	Aluminium
CBX12120	12 - 120	31,5 kA/1s	Bronze

BTP

EARTH STUD WITH PLATE 40 KA/1S

Technical specifications: Made of aluminium alloy.



Ref.	Diameter (mm)
BTP	40

DLT8

VOLTAGE LIMITING DEVICE

UNDER THE NEW NFC 18-510 STANDARD, WORKING ON DISCONNECTED NETWORK REQUIRES EARTHING ON EITHER SIDE OF THE WORK AREA. THE DLT8 IS THE ONLY MEANS AUTHORISED BY THE STANDARD FOR CREATING THE OPENING NECESSARY IN THE EARTHING CIRCUIT TO TAKE CERTAIN MEASUREMENTS.

Use: The voltage limiting device is a single-phase device designed for use on HV lines.

It is designed to be inserted in the earth circuit so as to be able to take measurements with a circuit breaker testing device for example.

The voltage limiting device has two positions:

«OPEN» (position for taking measurements)

- it protects users against accidental voltage feedback by re-forming the earthing circuit.
- It limits the voltage at its terminals to under 50V.

In the CLOSED position, it re-forms the earthing circuit.

⊕ To see the opening of the circuit breaker testing device contact, the earth loop must be OPENED.
But when the circuit breaker is OPEN, an INDUCED voltage generated by the live devices will appear.
This voltage is present at the end of the earthing system, but also on the recording instrument.
When the DLT8 is inserted in the earthing system, it limits to 50Vrms the «touch voltage» and the voltage at the measuring device terminals.
In the event of accidental voltage feedback, the protective earth circuit is instantly re-formed.
When the circuit breaker is CLOSED, the whole system is at earth potential

Technical specifications: Allowable short-term current : 40 kA

NB: The maximum allowable short-circuit current (I_t) by an earthing and short-circuiting device will be given by the element subject to the weakest current in the device's chain.

This value is clearly identified on the device on a short-circuit cable and the user will always need to check before use whether the device's I_{sc} is appropriate to the use and the relevant short circuit risk.

Duration 1 second

Peak current 100 kA

Permanent current that can flow through the DLT8 in the CLOSED position : 400 A

Allowable nominal current (§5.2 of specification HM-21/97/057A) that can pass through the voltage-clipping device in the OPEN position: 40 A

Maximum allowable current (§6.5.1.4 of specification HM-21/97/057A) that can pass through the voltage-clipping device in the ON position: 100 A

Maximum voltage at the DLT8 terminals: 50Vrms.

Max. tightening torque necessary: 20 Nm



Ref.	Description
DLT8ENT	Voltage limiting device
DLT50APE	Voltage limiting device equipped with SMAPE system



Flexible aluminium cables

FLEXIBLE ALUMINIUM EARTHING AND SHORT-CIRCUITING CABLES

IEC / EN 61138

Use: Cable for portable earthing and short-circuiting devices according to IEC 61230 (EN 61230).

Technical specifications: TAP type : extra flexible PVC sheathed aluminium cable (ST11) for use from -25°C to +55°C.

TAS type : silicone sheathed aluminium cable for use from -40°C to + 70°C.

Ref.	Cable cross-section	Ø over alu core	Cable heats up to 350°C at end of s/c	Item n° with silicone sheath	Weight (g)
TAP35	35 mm ²	11,4 mm	7kA/0,5s - 5k1/1s	TAS35	110
TAP50	50 mm ²	14 mm	10kA/0,5s - 7k1/1s	TAS50	180
TAP70	70 mm ²	12 mm	14kA/0,5s - 10k1/1s	TAS70	250
TAP95	95 mm ²	13 mm	19kA/0,5s - 13,5k1/1s	TAS95	330
TAP120	120 mm ²	15,1 mm	24kA/0,5s - 17,5k1/1s	TAS120	440
TAP150	150 mm ²	18 mm	30kA/0,5s - 21,5k1/1s	TAS150	530



Flexible copper cables

FLEXIBLE COPPER EARTHING AND SHORT-CIRCUITING CABLES

IEC / EN 61138

Use: Cable for portable earthing and short-circuiting devices according to IEC 61230 (EN 61230).

Technical specifications: TSC type : extra flexible PVC sheathed copper cable (ST11) for use from -25°C to +55°C.

SX type : silicone sheathed copper cable for use from -40°C to + 70°C.

Ref.	Cable cross-section	Ø over copper core	Cable heats up to 350°C at end of s/c	Cable heats up to 700°C at end of s/c	Item n° with silicone sheath	Weight (g)
TSC10	10 mm ²	4 mm	2,6 kA/0,5s - 1,9 kA/1s	3,7 kA/0,5s - 2,6 kA/1s	/	100
TSC16	16 mm ²	5 mm	4 kA/0,5s - 3 kA/1s	6 kA/0,5s - 4 kA/1s	SX016	160
TSC25	25 mm ²	6,4 mm	6,5 kA/0,5s - 4,5 kA/1s	9,5 kA/0,5s - 6,5 kA/1s	SX025	300
TSC35	35 mm ²	8,2 mm	9,5 kA/0,5s - 6,5 kA/1s	13 kA/0,5s - 10,5 kA/1s	SX035/	350
TSC40	40 mm ²	8,2 mm	10,5 kA/0,5s - 7,5 kA/1s	15 kA/0,5s - 9 kA/1s	/	350
TSC50	50 mm ²	9,2 mm	13 kA/0,5s - 9,5 kA/1s	18,5 kA/0,5s - 13 kA/1s	SX050	550
TSC70	70 mm ²	12 mm	18,5 kA/0,5s - 13 kA/1s	26 kA/0,5s - 18,5 kA/1s	SX070	750
TSC75	75 mm ²	12,2 mm	20 kA/0,5s - 14 kA/1s	28 kA/0,5s - 20 kA/1s	/	800
TSC95	95 mm ²	13 mm	25 kA/0,5s - 18 kA/1s	35,5 kA/0,5s - 25 kA/1s	SX095	980
TSC120	120 mm ²	14,8 mm	31,5 kA/0,5s - 22,5 kA/1s	45 kA/0,5s - 31,5 kA/1s	SX120	1305
TSC150	150 mm ²	18 mm	40 kA/0,5s - 28 kA/1s	56 kA/0,5s - 40 kA/1s	SX150	1620

Earthing and short-circuiting cables and accessories • Flexible cables and accessories

Type of network: LV  MV  HV 

TFK / TSF connections

TFK / TSF CONNECTIONS

IEC61230

Use: Provide the copper connection between the line clamps and the earth clamps in portable earthing and short-circuiting devices.

Technical specifications: Connection by crimped DIN cable lugs sealed by a 2nd crimping of the insulation;

TFK type : connection made with extra flexible PVC sheathed cable (ST11) for use from -25°C to +55°C.

TSF type : connection made with silicone sheathed cable for use from -40°C to + 70°C.



Ref.	Cross-section	Cable length (m)	Stud hole diameters (mm)	Type of sheathing
TFK1616	16 mm ²	16	Ø 10	PVC
TFK3510	35 mm ²	10	Ø 10	PVC
TFK5005DD	50 mm ²	5	Ø 12	PVC
TFK7010	70 mm ²	10	Ø 10	PVC
TFK7008DD	70 mm ²	8	Ø 12	PVC
TFK9508	95 mm ²	8	Ø 10	PVC
TFK9508DD	95 mm ²	8	Ø 12	PVC
TFK12010DD	120 mm ²	10	Ø 12	PVC
TFK15010DD	150 mm ²	10	Ø 12	PVC
TSF1616	16 mm ²	16	Ø 10	Silicone
TSF350275	35 mm ²	2,75	Ø 10	Silicone

Other connections available on request.

CAP / CAS connections

CAP / CAS CONNECTIONS

IEC 61230

Use: Provides the aluminium connection between the line clamps and the earth clamps in portable earthing and short-circuiting devices.

Technical specifications: Crimped connection sealed by heat shrinkable tubing with adhesive.

CAP type : connection made with extra flexible PVC sheathed cable (ST11) for use from -25°C to +55°C.

CAS type : connection made with silicone sheathed cable for use from -40°C to + 70°C.



Ref.	Cross-section	Cable length (m)	Stud hole diameters (mm)	Type of sheathing
CAP3510	35 mm ²	10	Ø10	PVC
CAP7002	70 mm ²	2	Ø10	PVC
CAP950225	95 mm ²	2,25	Ø10	PVC
CAP1200275	120 mm ²	2,75	Ø10	PVC
CAP12010DD	120 mm ²	10	Ø12	PVC
CAP15010DD	150 mm ²	10	Ø12	PVC
CAS700275	70 mm ²	2,75	Ø10	Silicone

Other connections available on request.

XE9109

WALL BRACKET FOR STORAGE

Technical specifications: Wall bracket for storing earthing devices:

2 wall fixing screws,

1 pin for clamps,

in painted sheet metal.



Ref.	Weight (kg)
XE9109	1,5



S120

PVC-COATED FLAG

Use: Flag to identify worksite earthing common to more than one work area.

Technical specifications: Opaque PVC-coated fabric, printed on both sides.

Number height : 50 mm

Letter height : 60 mm

Supplied with 2 black fibreglass clips, max. opening 23 mm for clipping onto braids or other items.

Each flag can be numbered from 1 to 999, identified by 1 to 3 letters for the grey, brown and purple models only (price on request).

Ref.	Type	Colour	Marking	Dimensions (mm)	Weight (g)
S120JV	With 2 Velcro fasteners	Yellow	Black	350 x 300	50
S120JP	With 2 black clips	Yellow	Black	350 x 300	170
S120VV	With 2 Velcro fasteners	Purple	White	350 x 300	50
S120VP	With 2 black clips	Purple	White	350 x 300	170
S120MV	With 2 Velcro fasteners	Brown	White	350 x 300	50
S120MP	With 2 black clips	Brown	White	350 x 300	170
S120GV	With 2 Velcro fasteners	Grey	White	350 x 300	50
S120GP	With 2 black clips	Grey	White	350 x 300	170
S120ORFV	With 2 Velcro fasteners	Fluorescent orange	Black	350 x 300	50
S120ORFP	With 2 black clips	Fluorescent orange	Black	350 x 300	170



S120J2

SET OF 2 TRIANGULAR EARTHING FLAGS

Technical specifications: PVC-coated fabric, printed on both sides.

Set of 2 flags with tunnel hem to pass the copper braid through.

Area with 3 pre-marked digits and 8 segments for the earth braid sections.

Colours : yellow background with black marking

Ref.	Description	Weight (g)
S120J2	Set of 2 triangular earthing flags	35
Contents:		
S120J	Flag for 120 mm ² max. copper braid	
S120J240	Flag 240 x 200	
Option(s):		
S120LT	Flag with 2 eyelets Ø 11.5 mm for passing rings through	

Earthing and short-circuiting cables and accessories • Earthing identification using coloured flags

Type of network: LV  MV  HV 

7805

TURNING FLAG HOLDER

Use: Allows the flag to be fixed in any direction, on profiles of any cross-section and tubes.

Technical specifications: Light alloy.

Ø 40 mm max.



Ref.	Description
7805	Turning flag holder

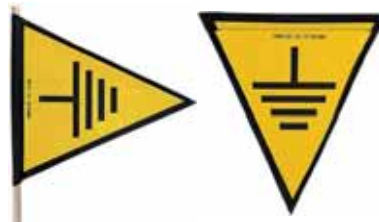
S120L

TRIANGULAR EARTHING FLAG

Technical specifications: PVC-coated fabric, printed on both sides.

Triangular earthing flag with black marking on a yellow background.

With wooden shaft, Ø 15 mm and length 750 mm.



Ref.	Description	Dimensions (mm)	Weight (g)
S120L	Flag with shaft	350 x 300	100
S120LSH	Flag without shaft	350 x 300	30

S120LV

YELLOW TRIANGULAR FLAG WITH NO MARKING AND NO SHAFT

Technical specifications: PVC-coated fabric.

Triangular flags with tunnel hem to pass 120 mm² max. copper braid through.



Ref.	Dimensions (mm)	Weight (g)
S120LV	350 x 300	30

HTSMALT

HIGH RESISTANCE BAG FOR EARTHING CABLE

Use: 3 functions : carrying, protecting and making visible.

Technical specifications: Main material : high resistance PVC

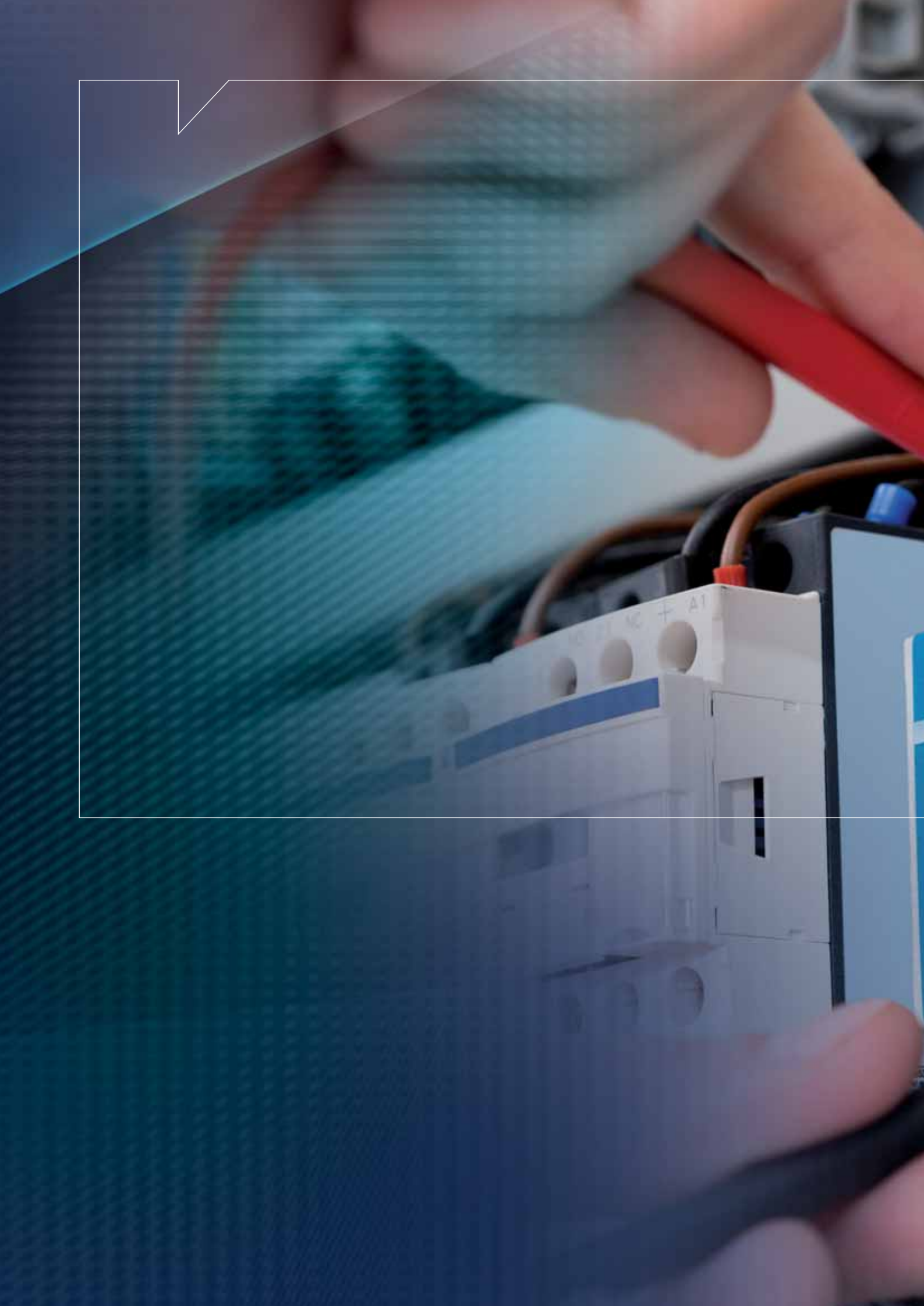
Interior : fixing straps with bulk fasteners, storage pocket for the cable,

Exterior : fixing straps with bulk fasteners, closing made with Velcro fasteners and push-buttons, carrying handle.

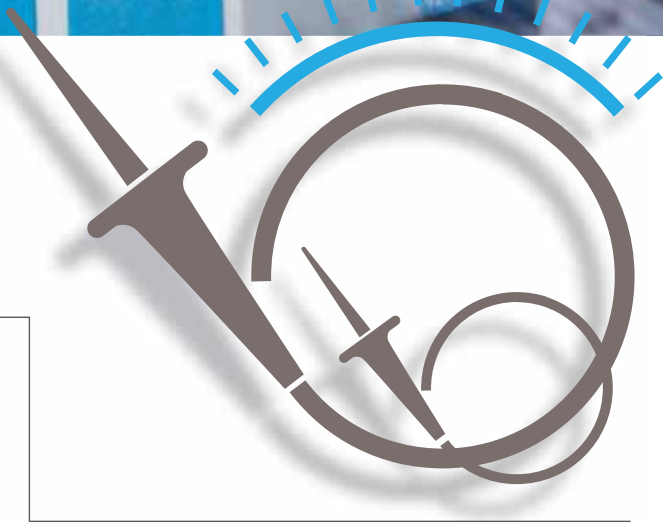
Colour : yellow.



Ref.	Dimensions (mm)
HTSMALT	880 x 580



NETWORK CONTROL SYSTEMS



PRELIMINARY IDENTIFICATION OF CABLE AND PHASE IDENTIFICATION

Operations on live lines. **364**

PHASE COMPARATOR

Wireless phase comparator **367**

PHASE ROTATION INDICATOR

Phase rotation indicator **369**

LV ELECTRICAL SYSTEM TESTERS

LV electrical system testers **370**

MEASURING EQUIPMENT

LV single and three-phase metering control	372
LV current measuring hook	373
MV current measuring hook	374
LV insulation testers	374
MV insulation testers	377
Multimeters	379
Digital clamps	380
Earth measure	382
Earth measure clamps	386
Reflectometers	387
Cable location and depth measurement	388
RDC testers	389
Height measuring devices	390
Thermometer	391

ULTRASONIC CORONA/ARCING DETECTOR

Ultrasonic corona/arcing detector **392**

PARTIAL DISCHARGE SCANNER

Partial discharge scanner **392**

CONNECTION

Leads	393
Alligator clips	397
Wire-grips	397
Fuses	398
Tester clamp	399
Testing set	399
Accessories	400



NEW

FC3000X

LIVE LV FEEDER AND PHASE IDENTIFIER 6 TO 12 FEEDERS



Use :

Simple to use, this device enables a technician working alone to quickly identify and check the substation, the feeders (from 6 to 12 feeders) and the phase supplying each customer connection, in seconds !

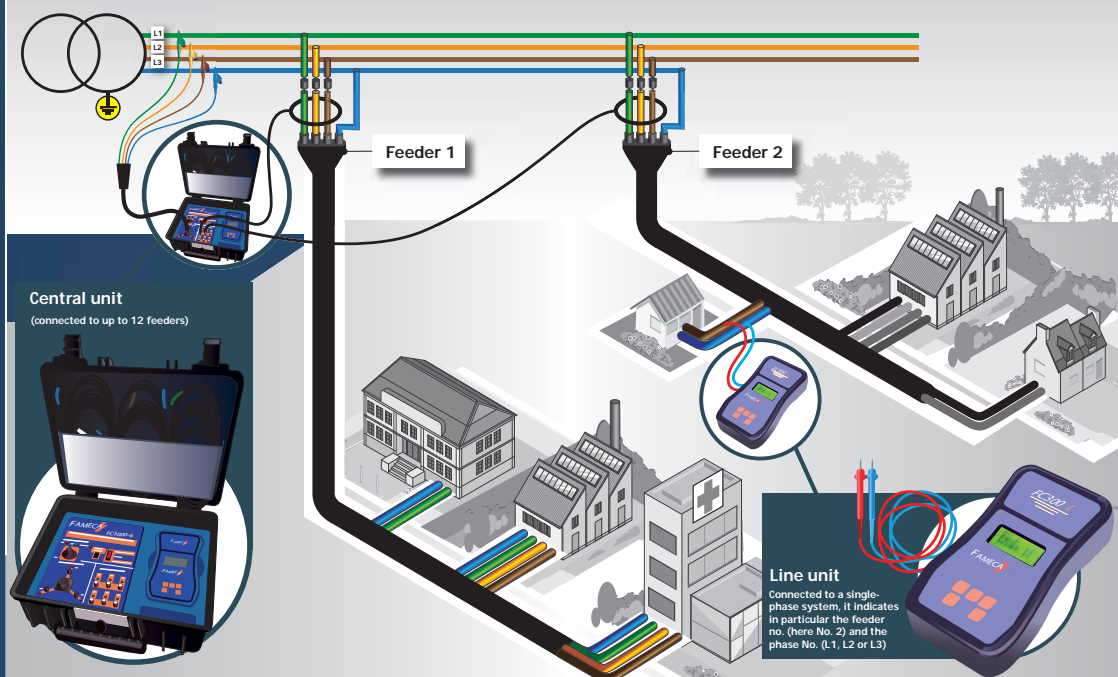
Applications :

- Checks the network layout in seconds while maintaining energy distribution – updates cable mapping
- Helps to balance the loads on the phases of the low voltage network
- Also enables you to find a subscriber's LV power distribution substation different tone according to voltage level (discontinuous tone up to 230V and continuous tone above 400V).



- > All probes and connection are HPC fused.
- > Extractible compact Central Unit to be enclosed in "Pillar boxes" or pad mounted transformer station.
- > Smart Meter friendly : compatible with CPL communication of Smart grid.
- > Give one operator all parameter of any customer connection (Phase, circuit, source).

FC3000



Preliminary identification of cable and phase identification • Operations on live lines

Type of network: LV  MV  HV 



Heavy duty connectors

Technical specifications :

Central Unit (CU) :

- Nominal Voltage :
 - On star networks with neutral : 115-230 V AC phase-neutral (200-400 V AC phase to phase)
 - On networks, star or delta, without neutral : 115-230 V AC phase to phase
- Rated voltage : 440 V AC
- Frequency : 50 Hz or 60 Hz
- Input protection (fuses on board and leads)
- Connectors for sensors : 12
- Sensors : 6, 9 or 12 on request
- Number of CU ID code (Number of units aware on the same area) : up to 8
- IP protection : IP54
- Operating temperature : from -10°C to +55°
- Overall dimensions : 330 x 260 x 100 mm, or 13" x 10" x 4"
- Weight : 4,5 kg / 10 lbs
- Mechanical protection : Rubber shell

Line Unit (LU) :

- Supply : 4 x 1.5 V AA batteries
- Nominal voltage : 115-230 V AC phase-neutral

Measure and display of voltage :

- Rated voltage : 440 V AC
- Frequency : 50 Hz or 60 Hz
- Input protection (fuses on board and leads)
- IP protection : IP54
- Operating temperature : from -10°C to +55°C
- Overall dimension : 240 x 130 x 66 mm, or 9.5" x 5" x 2.6"
- Weight : 1,3 kg / 2.9 lbs
- Mechanical protection : Rubber shell

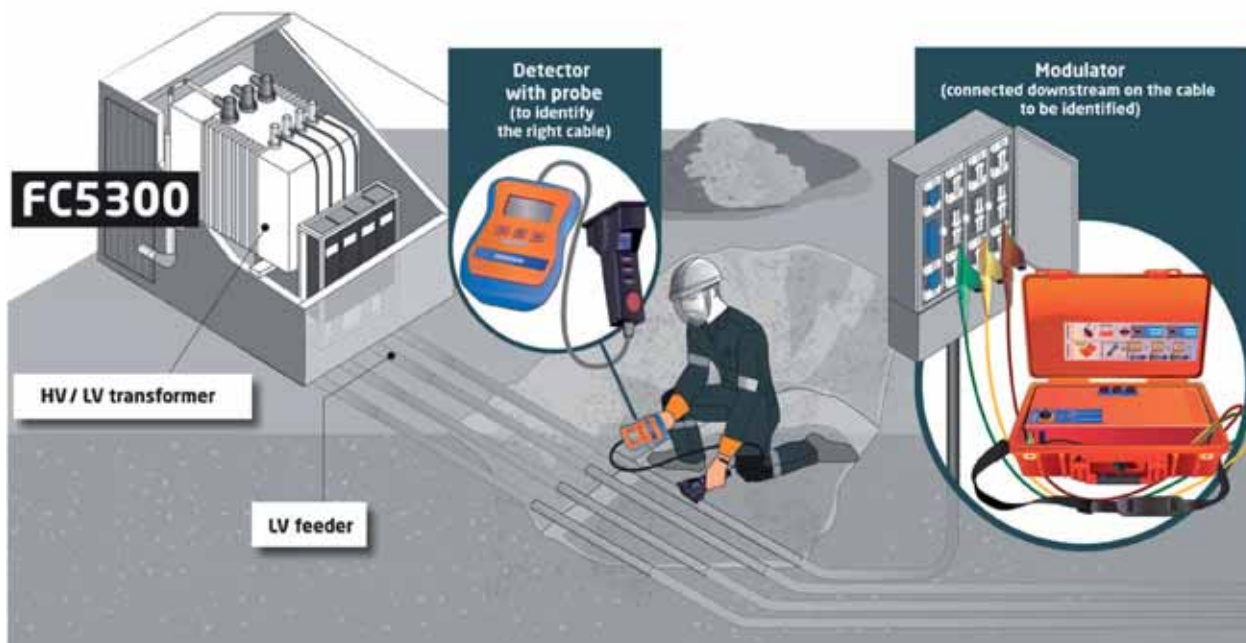
Packaging, waterproof heavy duty carrying case :

- Overall dimensions : 474 x 415 x 214 mm, or 18.6" x 16.3" x 8.5"
- Weight : 9,5 kg / 21 lbs



Reference	Version	Number of feeders	Frequency	Colours of leads	Dimensions	Weight
FC3000X6EU	Extractable	6	50 and 60 Hz	brown, black, grey and blue (N)	474 x 415 x 215 mm	9,5 kg
FC3000X9EU	Extractable	9				
FC3000X12EU	Extractable	12				
FC30006EU	Non extractable	6				10,8 kg
FC30009EU	Non extractable	9				
FC300012EU	Non extractable	12				

3 coils upgrade from 6 feeders to 9 feeders = ref : J3BFC3KR6A9
 3 coils upgrade from 9 feeders to 12 feeders = ref : J3BFC3KR6A9
 For leads in other colours, ask your distributor.



FC5300

LIVE LV CABLE IDENTIFIER

Use: This device provides all the information necessary to identify a live LV cable among other cables without risk of error:

Identification of cables in open trenches or tunnels.

Identification of the three phase conductors (L1, L2 and L3) on single-pole three-phase cables.

Identification or confirmation of the source.

Upstream and downstream cable discrimination at a given point of the network.

+ **Simplicity :** the device is connected like any other on customer premises or to a connection terminal downstream of the point to be identified.

Effectiveness : the current drainage principle enables,

- the relevant indications to be confined to the cable sought,
- the device to be used without further intervention, however long the job lasts and whatever the length of the cable.

Elimination of risks due to :

- confusion with other similar low or high voltage cables,
- the detection of signals on adjacent cables.

Technical specifications: The probe with display guides the user through the steps for each function.

All the information is available in several languages: English, Spanish, German, Polish, Arabic, ...

The ultra-sensitive directional probe improves resolution in cable harnesses.

Reliable connectors: double-insulated, sheathed conductors, in accordance with new standards.

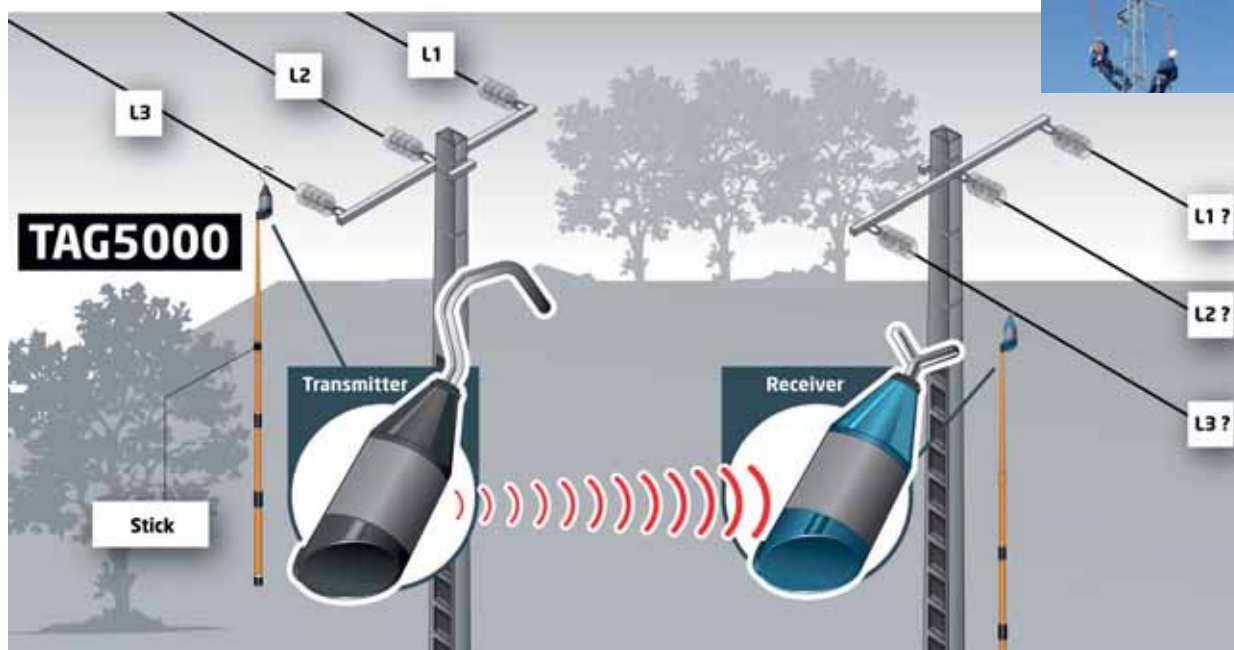
Built-in self-test

Works on all types of cables: oil-impregnated paper insulated cables, synthetic cables, cables with double metal reinforcement, even heavily loaded cables, insulated overhead cables; in any environment, in-ground in urban, peri-urban and rural areas for all types earthing systems.

Comes in a sealed, unbreakable case specially designed for field work.

The detector charges using a standard USB-type mains or vehicle charger.

Ref.	Description	Dimensions (mm)	Weight (kg)
FC5300EU	Live LV cable identifier	470 x 360 x 190	9,85



TAG5000

WIRELESS PHASE COMPARATOR, FROM 4 KV TO 500 KV

Use: An alternative to the voltmeter for checking the phase coincidence in a network before looping.

- The wireless technology of the TAG5000 eliminates any danger due to the use of high voltage connecting cables on conventional devices and enables it to be used even for high voltages.
- Possibility of measuring through obstacles such as walls, doors, etc.
- No distance limit due to the cable: range of 10 to 16 m in the air and about 30 m in contact with the network.

Technical specifications: Can be used to check all types of three-phase networks from 4 to 500 kV (from 230 kV to 500 kV with special antenna extensions).

433.9 MHz coded multi-channel link compliant with Telecom standards.

Comes with two pairs of contact electrodes: two 40 mm Vs and two 60 mm hooks.

It can be fitted onto all types of insulating sticks using intermediate adapters.

The transmitter (grey box) indicates that a voltage is present by an audible and light signal, then sends the phase information to the receiver.

The receiver (blue box) measures the phase angle. It indicates phase coincidence by audible and light signals.

Self-test feature and simulation of all functions.

Can be used in all weathers.

Power supply: 9V batteries. Battery life: 6 months.



Ref.	Voltage range	Frequency	Use	Contact electrode	Packaging
T5KGB004230C5	4 - 230 kV	50 Hz	Outdoor	AC60 / AC120 / D100	Metal case
T5KGB004230C6	4 - 230 kV	60 Hz	Outdoor	AC60 / AC120 / D100	Metal case
T5KGB004500H5	4 - 500 kV	50 Hz	Outdoor	AC60 / AC120 / D100	Soft case
T5KGB004500H6	4 - 500 kV	60 Hz	Outdoor	AC60 / AC120 / D100	Soft case

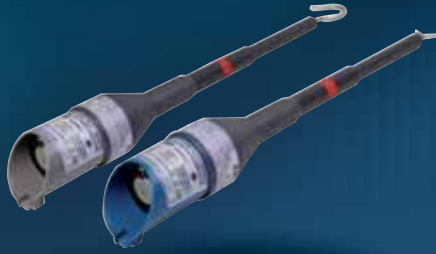
Accessories:

VT5K Transport case for TAG5000 with 500 kV antennas and accessories

Option(s):

QL Fast coupling and beam heading system

New!



Wireless phase with indoor probes



TAG5000S 04-36kV indoor kit with «S» probes and insulating stick in case



TAG5000 with indoor «S» probes and 500 kV probe extensions

TAG5000S

WIRELESS PHASE COMPARATOR

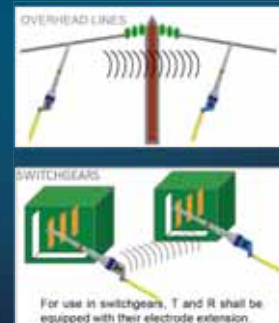
COMPLYING TO EUROPEAN DIRECTIVES AND CE MARKING

Use:

Wireless phase comparator for three phase network with nominal voltages from 4 kV up to 36 kV – 50Hz or 60Hz (to be specified).

Shall be used with two insulating sticks (not included) complying with the nominal voltage and having universal adaptors.

- Safety due to wireless link : no hazard due to poor cable insulation
- Indoor use up to 36kV with probe extension).
- Overhead line units compact and light
- Positive indication of “in phase” condition
- 25 m radio range
- Phasing through walls
- Voltage range up to 500kV



Technical specifications: T5KSGB04036(H5/H6)

Transmitter : grey housing 210 mm – Ø 90 mm – 0.5kg

Indicates the voltage presence with both visual and acoustic indications, then start to send the phase information to the receiver

Receiver : blue housing 210mm – Ø 90mm – 0.5kg

Indicates the voltage presence, and indicates “in phase” relationship with both visual and acoustic indications

Built-in testing element simulating all the functions including out-of-phase conditions

HF radio transmission operating at 433.9 MHz

Distance range in free air 25 m minimum

In-door / Out-door and All weather use

Powered by two alkaline 9V batteries

Approx. weight of each electrode extensions : 0.90 kg

Insertion depth Ai = 260 mm

Extension length Lu = 423 mm

Carrying case with a set of contact electrodes (hooks, straight and V-shaped) and a silicon cloth

Approx. dimensions of the case : 755 x 205 x 140 mm

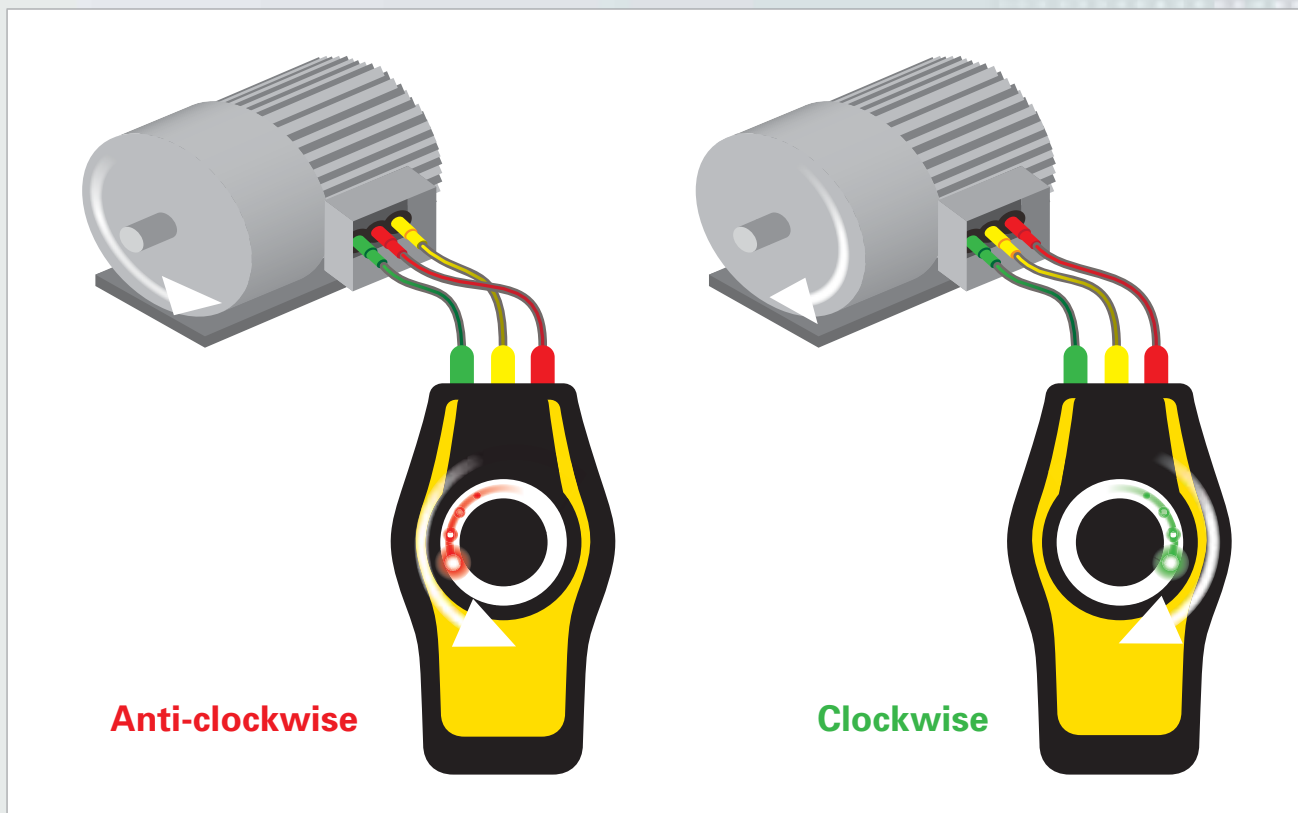
Approx. weight of the complete device : 4,40 kg

Ref.	Voltage range	Frequency	Use	Contact electrode	Packaging
T5KSGB04036H5	4 - 36 kV	50 Hz	Indoor / Outdoor	V40 / D40 / AC40	Soft case
T5KSGB04036H6	4 - 36 kV	60 Hz	Indoor / Outdoor	V40 / D40 / AC40	Soft case
T5KSGB0436M5KIT*	4 - 36 kV	50 Hz	Indoor / Outdoor	V40 / D40 / AC40	Plastic case
T5KSGB0436M6KIT*	4 - 36 kV	60 Hz	Indoor / Outdoor	V40 / D40 / AC40	Plastic case
T5KSGB04230H5	4 - 230 kV	50 Hz	Outdoor / Indoor up to 36 kV	V40 / D40 / AC 40 / AC60	Soft case
T5KSGB04230H6	4 - 230 kV	60 Hz	Outdoor / Indoor up to 36 kV	V40 / D40 / AC 40 / AC60	Soft case
T5KSGB04500M5	4 - 500 kV	50 Hz	Outdoor / Indoor up to 36 kV	V40 / D40 / AC 40 / AC60 / AC120	Plastic case
T5KSGB04500M6	4 - 500 kV	60 Hz	Outdoor / Indoor up to 36 kV	V40 / D40 / AC 40 / AC60 / AC120	Plastic case

* : Delivered with 2 insulating sticks PPOLVES

Phase rotation indicator

Type of network: LV  MV  HV 



DR706

LV PHASE ROTATION INDICATOR

IEC 61557-7 / CAT III 600V OR CAT IV 600V

Use: Testing the phase rotation on LV three phase system.

Engineered with safety in mind:

- Unique bright LED display can be read in sunlight
- Ergonomically shaped to fit comfortably in the palm
- A range that can be adapted to your needs

100% safety and simplicity for the operator:

- All functions can be operated whilst wearing insulating gloves

Indication by:

- Chasing green LEDs for clockwise rotation and
- Chasing red LEDs for the counter-clockwise rotation

Device designed for field use:

- Heavy-duty waterproof housing
- Can be used in all weathers
- Supplied in a soft case.
- Replaceable leads with European color codes and L1/L2/L3 marking

Technical specifications: Voltage range : 80 V to 400 V AC

AC frequency range : 50 Hz & 60 Hz

Maximum rated voltage : 440 V 3 phase system.

Category of use : 600 V CAT IV.

Class : N = - 10 ° C to + 55 ° C

Probes : Ø 4 mm - IP2X

«Outside» type can be used in rain.



Ref.	Safety	Protection	Probe tips	Leads	Weight (g)
DR706III XFR	CAT III 600V	IP54	IP2X	Green, yellow, brown	390
DR706IV XFR	CAT IV 600V	IP65	IP2X	Green, yellow, brown	500
DR706IV NEU	CAT IV 600V	IP65	Standard	Brown, black, grey	500
DR706III NEU	CAT III 600V	IP54	Standard	Brown, black, grey	350

Other test probes and other colours of leads available.

NEW

LV ELECTRICAL SYSTEM

TE-FR100 *Tohm-e* by

**POWER SOCKET TESTER,
EARTH CONNECTION IMPEDANCE METER**

IEC 61557-1, IEC 61557-3, IEC 61010-1,
NF C 15-100

Use :

LV electrical systems must comply with the installation rules of standard NFC 15-100. Compliance must be guaranteed upon initial commissioning, and also after periodic inspections. In particular, the value of the EARTH CONNECTION must be inspected.

Tohm-e can measure that value from a simple power socket. The device can also check if the socket is wired correctly (position of phase, neutral and earth).



- > **SIMPLE** : just connect Tohm-e to a power socket.
- > **INSTANTANEOUS** : the display is immediate
No risk of failure, as Tohm-e operates without cells.
- > **AUTOMATIC INTERPRETATION OF RESULT** :
 - blue screen showing that the earth value is OK (earth <math><100\Omega</math>)
 - red screen showing that the earth value is not OK (earth >math>>100\Omega</math>)
- > **ADAPTS TO ALL REQUIREMENTS** : the rotating head allows easy reading

Technical specifications :

- Measurement using the earth loop principle
- Device designed for TT earth systems
- Earth connection measurement : 0.0 Ω to 2k Ω
- Voltage measurement : 50V to 440V (actual RMS value)
- Indication of the position of phase, neutral and earth
- Usage temperature : -20°C to +55°C



Socket OK
(Earth <math><100\Omega</math>)



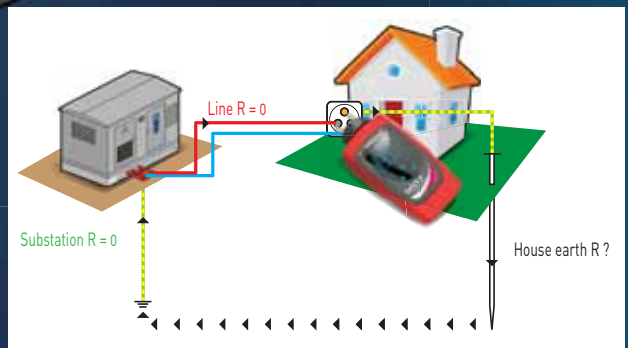
Earth not OK
(Earth >math>>100\Omega</math>)



Earth not connected



Unusual voltage



Ref.	Dimensions	Weight	Specifications
TE-FR100	170 x 75 x 63	250 g	IP2X, Cat III, 300V

TESTERS

W30V *Wheel-e* by

CONTINUITY TESTER AND REEL

IEC 61010-031, NF C 15-100, XPC 16-600

Use :

Testing and measuring the continuity of protective conductors and equipotential bonding. In accordance with standard NF C 15-100, Wheel-e makes it possible to make sure that the resistance measured between all frames and equipotential bonding is below 2Ω. Because it is worn at the belt, Wheel-e is particularly suited to inspecting large buildings, industrial facilities and offices.

Technical specifications :

PROTECTION

- 600V~ CAT III
- 300V~ CAT III
- Compliant with EN 61010-1
- IP2X
- Class 2
- Voltage alert
- Replaceable 0.5A fuse
- Double-sleeved 1mm² PVC cable
- Protection inspected by an accredited outside laboratory in France (LCIE)

MEASUREMENTS

- Automatic polarity inversion (complies with EN 61557-4)
- Measurement range 0.00Ω to 20.0Ω (resolution 0.01Ω)
- Intensity 200mA direct current (complies with EN 61557-4)
- Voltage from 4V to 6V (complies with EN 61557-4)
- Supplied with verification certificate
- Precision ±10% ±0.02 from 0.50 to 2.00.

Supplied complete with belt.

Starting up kit supplied (coiled lead, crocodile clamp, tip and adapter).

Cells supplied.

Accessory not supplied : Telescopic rod PERCHTELE



- > Worn at the belt to free the operator's hands
- > Integrated reel for unhindered movement in the inspected premises
- > Original display system (red or blue depending on the quality of continuity) doubled by an audio signal
- > Single button for all functions
- > 30m cable length to reach conductors that are very far away from the equipotential reference





MFT1825

MULTIFUNCTION INSTALLATION TESTER

IEC 61010 CAT IV 300 V /EN 61557

Use: Designed for testing low voltage electrical installations. It provides all the tests required to complete the necessary electrical certification for industrial, commercial and domestic fixed wiring installations.

- ⊕ - Simple colour-coded test selection and large clear backlit display for ease of use
- Non-trip loop test
- EN 61010 CATIV safety ratings and tough IP54 case

Technical specifications: - Insulation test 250/500/1000V

- Continuity resistance at 200 mA
- RCD testing including: Type AC, A, S and programmable RCDs 1/2 x I, 1 x I, 2 x I and 5 x I. Test values 10/30/100/300/500/1000mA
- Earth testing (by earth loop)
- Earth testing (by spikes)
- Voltage measurement/frequency

Ref.	Description
MFT1825	Multifunction installation tester

Measuring equipment • LV single and three-phase metering control

New!

BTC1000 - BTC1000IP2X

METER TESTER

Use:

This device is used to check the correct operation of subscriber meters (electromechanical, electronic, single and three-phase).

It is also used to check for under-consumption (in kWh) and fraud known as «non-technical losses».

Technical specifications:

- Power supply : none (self-powered by the network).
- Operating voltage : 230 V
- Frequency : 50/60 Hz
- Power consumption: 1000 W.
- Display : 1 red «On» LED
- Operating time: unlimited.
- Thermal protection: yes.
- Test probes : IP2X - Ø 4 mm or STD - Ø 1.4 mm.
- Double insulated PVC cable 1 mm², L = 1.5 m.
- Connectors : Connection by IEC 60320 plugs.
- Casing : Orange shockproof PP.



Ref.	Description	Dimensions (mm)	Weight (kg)
BTC1000	Meter tester without leads	235 x 150 x 95	1,50
BTC1000IP2X	Meter tester with IP2X test probes	235 x 150 x 95	1,50
BTC1000PS	European power plug	235 x 150 x 95	1,50
BTCBAP	Safety power box	175 x 158 x 80	0,45

BTC230

TESTER FOR ELECTRICITY METERS

Use: Creates a load at subscriber meter terminals in order to check they are operating correctly. Suited for electromechanical or electronic meters.

Technical specifications: Reversible thermal protection.

Load separation to reduce heat build-up (2 x 130 W).

Protection : Fast-acting fuses 2A 250V

Casing : IP30. Test probes: IP2X ø 4 mm

Cables : double insulated PVC 1 mm²

230V 50/60 Hz.

Operation : connect the tester between live and neutral on the customer side of the terminal box. Connecting the BTC320 instantly increases the consumption readable on the meter display.

Delivered in a soft bag.



Ref.	Dimensions (mm)	Weight (kg)
BTC230	2 x ø 40 x 260	0,5

LV current measuring hook

New !

C-PROBE LV

AMMETER FOR LOW VOLTAGE SINGLE CORE INSULATED CABLES

Use:

This device is designed to provide operators with a safe means to measure current on insulated LV overhead lines up to 2000A. During trouble shooting operation the operators need to pin point the reason of the failure like blown fuses or overloaded circuit.

With the right insulating pole, the operator can reach overhead transformer or cables.

The hook shaped sensor help to de separate the conductor to be measured from close by ones.

- ⊕ - Allow single operators to measure current on overhead circuits without using platform or ladders.
- Soft sensor will avoid stress on LV cable connections
- Adapted to night operation: bright yellow sensor lightened with LED
- Back light on LCD display
- HOLD function to record peak values
- TRACK function with remote reading on mobile screens, (smartphone...)
- Adaptable to standard insulating stick fittings



Technical specifications:

Range : 2000 A

Frequency : 50 et 60 Hz

Sensor : 140 mm; opening 45 mm

Functions «TRACK» and «HOLD»

Field of use LV insulated single core cables

Battery : 2 x 1,5 V - CEI / IEC AA

Protective soft carrying case

Ref.	Dimensions (mm)	Weight (g)
C-PROBE-LV-F	650 x 140	850



CROSMIHT ↗

MV HOOK AMMETER

Use: The CROSMIHT hook ammeter measures current flow on overhead lines up to 52 kV.

- ⊕ - Quick remote handling of the conductor without having to open a clamp.
- Readout on a liquid crystal display, either instantly or in «HOLD» mode for remote measurements using a long stick.

Technical specifications: Measurement scale :

From 0 to 2000 A by self-calibration: 0-199.9 A / 199.9-1999 A

«HOLD» measurement: provides the max. current measurement

Accuracy : +/- 3 %

Capacity : cables and conductors up to Ø 48 mm

Power supply : 9V battery with 50-hour battery life

Automatically switches off after 10 min

Climate class N : -18°C to +50°C.

Ref.	Hook dimensions (cm)	Length (cm)	Weight (kg)
CROSMIHT	14 x 22 x 3	71	1,3

LV insulation tester



MIT200 ↘

500 V DIGITAL/ANALOG INSULATION AND CONTINUITY TESTER

EN 61557-1 CATIII 600 V

Use: This insulation and continuity tester is ideal for testing transformers, motors, generators switchgear, panel building, domestic appliances, power tools etc., as well as fixed electrical wiring systems.

Nominal test voltage : 500 V

- ⊕ Small size and lightweight.

Technical specifications: - Insulation Test to : 1000MΩ

- Continuity testing : at 200mA down to 0.01 Ω

- Live circuit warning (voltage display) and test inhibit

- Digital/Analog display

- Alkaline or rechargeable batteries

- Operating temperature : -10°C to +55°C

Delivered in a carrying case with lead set with probes and clips.

Ref.	Dimensions (mm)	Weight (g)
MIT200	195 x 98 x 40	550

MIT400 series

INSULATION AND CONTINUITY TESTERS

IEC 61326-1

**⊕ Waisted profile makes it easily held by operators with the smallest hands
Can be used right or left-handed**

Technical specifications: • CATIV 600V applications

- Insulation testing to 1000V and to 200GΩ
- TRMS & DC Voltage measurement
- Continuity testing at 200mA down to 0.01Ω
- Analogue and dual digital display
- Insulation & continuity limit alarms
- PI/DAR and Timer function
- Test result storage
- Bluetooth wireless data transfer
- Free calibration certificate included
- Supplied with case and leads
- 3 Year warranty
- Power Supply : 5 x 1.5 V AA batteries
- Dimensions : 220 x 92 x 50 mm
- Weight : 775 g



Ref.	Nominal test voltage	Insulation resistance range	Use	Additional features
MIT400	250, 500, 1000 V	20 GΩ	Industrial devices	
MIT410	50, 100, 250, 500, 1000 V	100 GΩ	Industrial devices	PI and DAR
MIT415	10, 25, 50, 100, 250, 500 V	50 GΩ	Industrial devices	
MIT420	50, 100, 250, 500, 1000 V	200 GΩ	Industrial devices	Results storage and recall
MIT430	50, 100, 250, 500, 1000 V	200 GΩ	Industrial devices	Results storage and recall, bluetooth transfer
MIT480	50, 100 V	100 GΩ	Services and telecommunications	
MIT481	50, 100, 250, 500, 1000 V	200 GΩ	Services and telecommunications	Result storage

TM06

ECONOMICAL INSULATION AND CONTINUITY TESTER

IEC 61010 600V CAT III

Use: Strong and easy to use, popular with maintenance departments and also used by verification bodies to test industrial machines on delivery or during maintenance operations.

Technical specifications: • Insulation : up to 1,000MΩ (1 cal.) at 500V and 1,000V DC

- AC voltage : 0 to 600V
- Resistance : 0 to 1,000Ω
- Continuity : -10Ω to +10Ω (I=200mA)
- Automatic testing of voltage absence by direct measurement
- Single input on two colour-coded terminals
- Highly readable display and logarithmic scale
- Measurement in compliance with IEC 61557, NF C 15-100, IEC 364, VDE 0413 and BS 7671

Supplied assembled in its shockproof casing with : a pair of black and red leads bent/straight 1.5 m, 1 black test probe, 1 alligator clip, 1 spare fuse and user's instructions.



Ref.	Dimensions (mm)	Weight (g)
TM06	167 x 106 x 55	600



TM94

DIGITAL INSULATION TESTER

IEC 61010 300 V CAT III / IEC 61557

Use: Particularly innovative and user-friendly, the TM94 insulation tester is ideal for testing electrical installations and equipment.

- Technical specifications:**
- Insulation : up to 2GΩ at 250V, 500V and 1,000V DC
 - Voltage indication before insulation measurement : 0 to 600V AC/DC (blocking if U>25V)
 - Continuity : -20Ω to +20Ω (audible beep and compensation of leads)
 - Resistance : 0 to 400kΩ
 - Giant 4,000-count display + bargraph (simultaneous reading of the measurement and analogue variance)
 - Backlit rear display
 - Programming of alarms
 - Timer function (0 to 15 min)
 - Back stand for use on a table or on the ground
 - Measurements in compliance with IEC 61557, NF C 15-100, VDE 0413

Supplied with : 1 "hands-free" carrying case, 1 pair of red and black leads 1.5 m, 1 red alligator clip, 1 black test probe, 6 x LR6 batteries and operating manual.

Ref.	Dimensions (mm)	Weight (g)
TM94	211 x 108 x 60	835



T007

DIGITAL INSULATION TESTER FOR CONSTRUCTION SITE

IEC 61010-1 + A2 - CAT III 600V / IEC 61557

Use: The T007 is a 50V to 1kV high performance insulation tester. It supports extreme site conditions and is expert in qualitative insulation analysis.

⊕ Long battery life due to rechargeable battery with built-in charger

- Technical specifications:**
- Insulation : up to 4TΩ (5 cal.) at 50/100/250/500 and 1,000V DC
 - Automatic calculation of insulation quality ratios: DAR and PI
 - Programmable test period and plotting of the R(t) curve
 - Automatic indication of voltage before and after measurement: 1 to 1,000V AC/DC
 - Resistance : 0.01Ω to 400kΩ
 - Continuity : 0.01Ω to +40Ω (audible beep and lead compensation)
 - Automatic capacitance measurement after each insulation measurement: 0.005 to 4.999μF
 - Microprocessor-controlled
 - Memorisation of measurements (128KB)
 - Bi-directional RS232
 - Giant LCD screen with digital display + bargraph
 - Backlit display
 - SMOOTH function (smoothing of values displayed)
 - Possibility of locking insulation test voltages
 - Programmable alarms
 - Long battery life due to rechargeable battery with built-in charger

Complete with carrying bag containing all the accessories : 2 x 1.5 m safety leads (red/blue), 1 x 1.5 m guarded safety lead (black), 3 x alligator clips (red/blue/black), 1 x test probe (black), 1 x 2-sided condensed user's manual, 1 user's manual and 1 x 2m mains lead

Ref.	Dimensions (mm)	Weight (kg)
T007	240 x 185 x 110	3,4

BM15 - MJ15

ANALOG 5KV INSULATION TESTER

Use: They are very simple to use and provide a quick and accurate reading of insulation resistance.

This Product is used by : electrical contractors, maintenance engineers, telecommunications engineers, gas and water utilities, railway companies, cable manufacturers, mining companies.

+ A bezel allows a scale plate overlay to be added with pass/fail bands for go/ no go testing.
This is particularly useful for less experienced users and enables a rapid decision to be made.

Technical specifications: - Four test voltages : 500V, 1kV, 2,5kV and 5 kV

- Voltage range measurement to 20GΩ
- BM15 : battery powered. MJ15 : hand cranked generator plus batteries.
- Voltage range to 600 V indicates auto discharge
- Pass/fail overlays for rapid testing
- Delivered with leads and carrying bag



Ref.	Power supply	Dimensions (mm)	Weight (kg)
BM15	Battery powered	220 x 160 x 115	1,2
MJ15	Hand cranked generator plus batteries	220 x 160 x 115	1,6

TM17

5 KV MEGOHMMETER

IEC 61010 1000 V CAT III SAFETY

Use: The TM17 makes industrial equipment inspection and maintenance testing particularly simple.

In its site-proof casing suitable for even the severest conditions, the TM17 offers optimum accuracy and expertise for insulation testing.

As soon as it is connected, it measures the voltage, frequency, capacitance and residual current values on the installation or equipment to be tested.

+ Single button: ease of use

Technical specifications: Power supply : Rechargeable NiMH battery

Large measurement range from 10 kΩ to 10 TΩ

Large backlit LCD screen, with digital display and bargraph

Fixed test voltages and programmable test voltages from 40 V to 5100 V

Automatic calculation of the DAR / PI /DD quality ratios

Voltage, capacitance and leakage current

Highly shock-resistant leakproof cover (IP 53)

Delivered with a carrying bag containing:

- 2 simplified measurement leads 2 m long, equipped with an HV plug at each end (red / blue)
- 1 guarded safety lead 2 m long, equipped with an HV plug at one end and an HV plug with rear connection at the other end (black)
- 1 guarded safety lead 0.35 m long, equipped with an HV plug at one end and an HV plug with rear connection at the other end (blue)
- 3 alligator clips (red, blue and black)
- 1 mains power cable 1.80 m long
- 1 operating manual in 5 languages



Ref.	Dimensions (mm)	Weight (kg)
TM17	270 x 250 x 180	4,3



MIT515 - MIT525 - MIT1025

5 AND 10 KV DC INSULATION RESISTANCE TESTERS

IEC 61010-1, CAT IV 600 V

Use: The Insulation Resistance (IR) test is a qualitative test that indicates the effectiveness of a product's electrical insulation.

Applications include cables, transformers, motors/generators, circuit breakers and bushings.

The IR test is ideal for measuring and recording long term stability of insulation over time, a process known as trending.

IR tests are temperature dependent and require adjustment to a reference temperature.

Storage models offer a temperature recording option.

-  - Improved productivity – operate from line power/mains if battery dead
- Li ion battery - extended capacity, rapid charge
- Advanced memory with time/date stamp

Technical specifications: - Measure up to 10 TΩ (5 kV) / 20 TΩ (10 kV) max. insulation resistance

- Timed IR plus PI and DAR diagnostic tests
- Operate with dead battery when on line power/mains
- Rapid charge Li-ion battery – up to 6 hrs continuous testing (5 kV)
- Dedicated voltmeter function (30 V to 660 V)
- CATIV 600 V safety rating
- Large LCD display with automatic backlight
- Noise filter – rejects up to 3 mA noise
- High altitude operation up to 3000 m

MIT525/1025 Additional features

- Dielectric Discharge (DD), Step Voltage (SV) and ramp test functions
- Advanced memory with time/date stamp, on screen recall
- Real time clock
- Download of memory via isolated USB (type B) interface (USB cable to PC)
- PowerDB Lite asset management software

Included accessories:

User guide CD, Power lead, 3 m leadset x 3, medium insulated clips, 3 m leadset x 3, large insulated clips (MIT1025 only).

USB cable and PowerDB Lite software (MIT525 and MIT1025 only).

Dimensions : 315 x 285 x 181 mm

Weight : 4,5 kg

Ref.	Description	Test voltage	Range of the digital display
MIT515	5 kV go / no-go insulation resistance tester	250V to 5000V	10 kΩ to 10 TΩ
MIT525	5 kV diagnostic insulation resistance tester	250V to 5000V	10 kΩ to 10 TΩ
MIT1025	10 kV diagnostic insulation resistance tester	250V to 10 000V	10 kΩ to 20 TΩ

MTX202

TRMS AC DIGITAL MULTIMETER

IEC 61010-2-033 600V CAT III

Use: Capable of operating from -20 °C to +55 °C, with IP54 protection and double insulation, this instrument is ideal for diverse uses in multiple environments.

The MTX202 meets the needs of all self-employed electricians. They cover all the traditional measurements (current, voltage, etc.).

Technical specifications: Display : 4,000 counts

AC/DC voltage : from 0,4 V to 600 V

AC/DC current : from 0,02 A to 10 A

Resistance : from 1 Ω to 40 MΩ

Capacitance : from 1 nF to 100 mF

Temperature with K thermocouple (°C / °F) : from -55 °C to +1200 °C

Supplied with : 1 shockproof sheath, 1.5 m straight lead / red CAT III 600 V test probe, 1.5 m straight lead / black CAT III 600 V test probe, Flexible K thermocouple with Ø 4 mm adapter, 1 operating manual on paper, 2 x 1.5 V AA batteries.



Ref.	Dimensions (mm)	Weight (g)
MTX202	170 x 80 x 50	320

MX24B

PORTABLE MULTIMETER

IEC 61010-1 600V CAT.III

Technical specifications: 5,000 counts

Backlit display, 34-segment bargraph

Functions for low-impedance measurement (VLowZ),

500kΩ low-impedance measurement input

Voltage up to 1,000VDC and 750VAC impedance 10MΩ

Direct intensity up to 10A DC and 6A AC

Resistance up to 50MΩ

Audible continuity test, diode test

Capacitance meter function up to 50mF

Frequency meter function up to 500kHz

MEM/AUTOMEM key

Warranty: 3 years



Ref.	Dimensions (mm)	Weight (g)
MX24B	170 x 80 x 35	300

AVO310

DIGITAL MULTIMETER

IEC 61010 CAT III 600 V

Use: This instrument offers a range of measurement modes for AC and DC applications, resistance and current measurement.

Technical specifications: - Fully auto ranging

- Large display characters

- Separate battery and fuse compartments

- Data hold

- Min/Max store

- Resistance, continuity and diode testing

- 1 year warranty

Delivered with test leads and probes.



Ref.	Dimensions (mm)	Weight (g)
AVO310	182 x 82 x 55	375



DCM310 - DCM320

DIGITAL CLAMPMETER

IEC 61010 CAT III 600 V

Use: The DCM310 and DCM320 are ideal clamp meters for use during the installation, maintenance and checking of electrical systems and equipment.

⊕ **The large clamp jaw enables cables to be measured up to 27 mm diameter, so covering the majority of applications within the electrical system installation industry. They have a Data-hold feature to freeze the displayed value for use in confined situations where the display may be difficult to read.**

Technical specifications: - Option of current only, DCM310 or multimeter, DCM320 models

- Measures up to 400 A a.c. with low current ranges for improved resolution
- 600 V AC/DC. DCM320
- Data Hold
- Max Hold DCM310
- 20 MΩ Resistance DCM320
- Small pocket-size design
- Exceptional battery lifetime
- Supplied with carry case
- 1 Year warranty

Delivered in a pouch with battery, user guide and test leads (DCM320 only).

Ref.	Description	Dimensions (mm)	Weight w/ batteries (g)
DCM310	Digital clamp meter, 400 V AC	180 x 56 x 32	250
DCM320	Digital clamp meter, 600 V AC/DC, 20 MΩ	188 x 56 x 28	225

Earth measure



TM77

MULTIMETER CLAMP

IEC 61010

Use: The small size of the TM77 will make them particularly appreciated for their ease of operation and excellent handling. As well as their numerous measurement functions, they also have a little «extra»: the automatic zero DC adjustment for DC current measurement can also be used for differential measurements.

Technical specifications: • Clamping diameter 26mm

- Current measurement up to 400 A AC
- AC and DC voltage measurement up to 600 V
- Resistance measurement, continuity and frequency
- Bargraph 42 segments
- Resistance 400Ω
- Audible continuity test, diode test
- HOLD function

Delivered with a set of measuring leads, a carrying bag, a user's manual and one 9 V alkaline battery

Ref.	Dimensions (mm)	Weight (g)
TM77	193 x 50 x 28	230

TP54N

1000 A TRMS AC MULTIMETER CLAMP

IEC 61010 1000V CAT IV & CAT III

Use: To deal with the highest level of low-voltage electrical installations, the TP54N has a high protection rating and is ideal for maintenance, testing, monitoring and diagnostics on medium-power installations.

+ Equipped with a fast 12-bit TRMS digital acquisition system, TP54N clamp offers particularly accurate measurements whatever the signal's waveform.

Technical specifications: - Clamping diameter: 48 mm

- Current: 1,000 A AC
- AC and DC voltage up to 1,000 V
- Resistance and audible continuity
- Temperature
- Automatic AC/DC detection
- True Inrush current measurement
- Hold, Min, MAX
- CAT IV 1,000 V
- IP54 protection rating



Ref.	Dimensions (mm)	Weight (g)
TP54N	254 x 97 x 46	600

TP55N

1000 A TRMS AC/DC MULTIMETER CLAMP

IEC 61010 1000V CAT IV & CAT III

Use: To deal with the highest level of low-voltage electrical installations, the TP55N has a high protection rating and is ideal for maintenance, testing, monitoring and diagnostics on medium-power installations.

+ Equipped with a fast 12-bit TRMS digital acquisition system, TP55N clamp offers particularly accurate measurements whatever the signal's waveform.

Technical specifications: - Clamping diameter: 48 mm

- Current: 1,000 A AC / 1,500 A DC
- AC and DC voltage up to 1,000 V
- Resistance and audible continuity
- Temperature
- Automatic AC/DC detection
- True Inrush current measurement
- Hold, Min, MAX
- RELative (ΔX) and differential ($\Delta X/X$) measurements
- Adapter function
- CAT IV 1000 V
- IP54 protection rating



Ref.	Dimensions (mm)	Weight (g)
TP55N	254 x 97 x 46	600



TM92N

1000 A TRMS AC+DC MULTIMETER CLAMP

IEC 61010 1000V CAT IV & CAT III

Use: To deal with the highest level of low-voltage electrical installations, the TM92N has a high protection rating and is ideal for maintenance, testing, monitoring and diagnostics on medium-power installations.

⊕ Equipped with a fast 12-bit TRMS digital acquisition system, TM92N clamps offer particularly accurate measurements whatever the signal's waveform.

Technical specifications: - Clamping diameter : 48 mm

- Current : 1,000 A AC / 1,500 A DC
- AC and DC voltage up to 1000 V
- Resistance and audible continuity
- Power values (W, var, VA, PF) and harmonics (THDf, THDr)
- «2-wire method» phase rotation
- Automatic AC/DC detection
- True Inrush current measurement
- Min, MAX, Peak+, Peak-
- RELative (ΔX) and differential ($\Delta X/X$) measurements
- CAT IV 1,000 V
- IP54 protection rating

Ref.	Dimensions (mm)	Weight (g)
TM92N	254 x 97 x 46	600



TT30

EARTH TESTER (3 WIRES)

IEC 1010 / VDE0413

Use: Self-contained, leakproof and reliable, with a highly-readable display, the TT30 digital earth tester accurately measures the resistance of earths. Lightweight and easy to use, this site instrument is specifically designed for use in the field.

⊕ A single push button to take the measurement.
All-terrain use.

Technical specifications: - Measurement 3 or 2 wires digital method

- earth resistance : 0.00 to 2,000 Ω (3 cal.)
- 3 fault presence indicators to validate the measurement
- measurement frequency : 128Hz
- connection of rods to colour-coded terminals
- a removable captive connection strip between H and S for measurement of 2-wire resistance
- large 2,000-count digital display with 18 mm digits : excellent readability
- protection by an HRC fuse
- power supply : 8 x 1.5V batteries for average charge life of 1,800 measurements of 15 seconds each

Supplied with batteries, transportation strap and «Earth Resistivity» manual (set of earth rods not supplied).

Ref.	Dimensions (mm)	Weight (kg)
TT30	328 x 136 x 150	1,3

TT12

EARTH AND RESISTIVITY TESTER (4 WIRES)

EN 61010 / IEC 61557

Use: In its rugged, leakproof case, the TT12 is easy to use, designed specifically for operation in the field. Wherever it is necessary to install an earth connection or characterise an existing earth point, it helps to establish an accurate, fast and reliable diagnosis with optimum comfort and safety.

+ Heavy-duty on-site case with cover for use on difficult grounds

Technical specifications: • 3-in-1 tester: resistivity, earth, coupling

- measurement range: 0.00 to 2,000W (3 automatic calibres)
- change from 4-wire method to 3-wire method thanks to 1 removable captive bar between E and ES
- 3 fault presence indicators to validate measurement
- measurement frequency: 128Hz
- easy connection of rods through colour-coded terminals
- large backlit digital display with 2,000 counts
- power supply: 8 x 1.5V batteries for an average battery life, constantly controlled, of 4,500 measurements of 15s each
- IP53 leak-proof case with folding cover and carrying handle

Delivered with batteries and user's manual in 5 languages (Earth Kit not supplied)



Ref.	Dimensions (mm)	Weight (kg)
TT12	273 x 247 x 127	2,8

DET3 - DET4

EARTH/GROUND RESISTANCE TESTERS

Technical specifications: - 2, 3 and 4 point testing

- Stakeless (clamp-on) testing capability
- ART (Attached Rod Technique) capability
- Choice of digital or analog display
- Resistance measurement range to 200 kΩ
- IP54 rated
- Warning indicators prevent test failure
- Complete with leads, stakes and rugged carry case
- Simple one button operation
- Calibration test certificate included
- Multiple, user selectable test frequencies (DET4TCR2)



Ref.	Application	Dimensions (mm)	Weight (kg)
DET3TD	For basic requirements it provides digital ground testing and bond test capability	210 x 150 x 80	1
DET4TD	For earth resistance testing and soil resistivity testing	210 x 150 x 80	1
DET4TCR	Rechargeable battery powered 4-terminal tester with selectable test frequencies, greater measurement sensitivity and attached rod technique and stakeless measurement capability	210 x 150 x 80	1



TT24B

EARTH AND RESISTIVITY TESTER

50V CAT IV

Use: 4 in 1 : Earth / Resistivity / Coupling / Continuity / Possibility

Adapted for the Industry and housing

- ⊕ - Multi-function tester.
- Measurements possible even with highly resistive soils
- Improved measurement quality due to high rejection of disturbance voltages
- Excellent accuracy and resolution
- Standard software for data recovery and processing of the results

Technical specifications: - 3P and 4P method

- Range resistivity : 0 to 100Ω
- Measurement frequency : 41 to 512 Hz
- DC resistance measurement 2 wires or 4 wires
- Resistivity : Wenner and Schlumberger with automatic calculation
- 512 memory locations
- USB communication

Delivered with 1 external mains charger, data export software + optical / USB communication lead, 5 operating manuals (one per language) on CD-ROM, 5 simplified operating manuals, each in a different language, 5 descriptive labels, each in a different language (earth kit not supplied)

Ref.	Dimensions (mm)	Weight (kg)
TT24B	272 x 250 x 128	3



LTW315-LTW325-LTW335

2-WIRE LOOP IMPEDANCE TESTERS

IEC 61010-1 300 V CATI V / EN 61557

Use: Instruments have two wire earth loop testers verify the loop impedance of a live electrical circuit, ie without the need to disconnect the electrical supply. Can be used on a wide range of voltages.

Technical specifications: Contents :

- 2 Wire Non-tripping loop tester
- 50 V to 440 V operation
- 110 V centre-tap loop testing
- CATIV installation testing
- AUTO start - operation
- 0.01 Ω resolution
- Operation 0.001 Ω resolution (LTW425)
- 3 Year warranty

Delivered in a hard carrying case with BS1363 to 3 x 4 mm socket leadset, wire leadset with croc clips, Schuko plug test lead –EU-SC, AU/NZ plug test lead –EU-AU and user CD.

Ref.	Description	Dimensions (mm)	Weight (kg)
LTW315	2 Wire loop tester	203 x 148 x 78	1
LTW325	2 Wire loop tester +maxZ and (R1+R2)	203 x 148 x 78	1
LTW335	2 Wire loop tester +maxZ and (R1+R2) + result storage and download	203 x 148 x 78	1
LTW425	High resolution 2 wire loop tester (0.001 Ω)	203 x 148 x 78	1

KIT TERRE PRO

ELECTRODE AND SOIL RESISTIVITY STAKE AND WIRE KIT

Use: Housed in a tough polyethylene carry case, the kit is stored neatly, well-protected and easy to transport.

In use the reels are fitted and retained on the spike handles, simply run out the test lead to the instrument and plug in, plug the other end directly into the spike, and test, easy.

Technical specifications: Contents :

- 2 Cable reels – 50m red/ black
- 2 Cable reels – 30m yellow/ green
- Earth electrode lead
- 4 Auger style spikes
- 50m Fibreglass measuring tape
- Carry case – moulded polyethylene



Ref.	Dimensions (mm)	Weight (kg)
KIT TERRE PRO	400 x 250 x 340	9,2

TM09

EARTH RESISTIVITY SET

Technical specifications: Contents :

- 1 soft carrying bag
- 4 T-shaped stakes
- 100 m of red cable • 100 m of green cable
- 100 m of blue cable • 30 m of black cable
- 10 m of green cable
- 1 sledgehammer
- 5 x Ø 4 mm adaptors



Ref.	Dimensions (mm)	Weight (kg)
TM09	590 x 250 x 320	13.300

TC146M

EARTHING SET

Technical specifications: Contents:

- 1 standard soft bag
- 2 T-shaped stakes
- 100 m of red cable
- 10 m of green cable
- 100 m of blue cable
- 1 sledgehammer
- 5 x Ø 4 mm adaptors



Ref.	Dimensions (mm)	Weight (kg)
TC146M	400 x 250 x 340	9,2

KIT/TEST-EARTH

EARTHING KIT

Technical specifications: Contents :

- 4 earth rods 24 cm long
- 2 x 5 metres leads on support (black, green) with alligator clip w/ 4 mm Banana (female) Jack (socket).
- 2 x 20 metres leads on support (red, blue) with alligator clip w/ 4 mm Banana (female) Jack (socket).



Ref.	Dimensions (mm)	Weight (g)
KIT/TEST-EARTH	250 x 160 x 25	240



TP57

LEAKAGE MULTIMETER CLAMP

IEC 61010 - 1 / IEC 61010-2 / IEC 61010-2-032 CAT III 600 V

Use: The TP57 clamp-on meter is the ideal tool to detect insulation faults and untimely tripping of RCDs caused by leakage currents.

It also provides all the functions of a clamp-on multimeter.

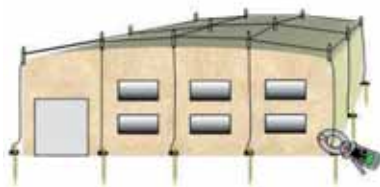
+ To check leakage currents quickly and locate insulation faults in live installations.

Technical specifications: RMS measurement

- resolution : 10µA
- strong immunity to spurious currents : 70dB
- 50/60Hz harmonic filter
- current : 30µA to 100A AC
- AC/DC voltage : 0.1V to 600V
- frequency : 5Hz to 1kHz
- resistance : 0.1Ω to 1kΩ
- audible continuity : <35Ω
- backlit display : 10,000 counts
- functions : max. and Delta; display memorization
- battery life indicator light, automatic power off

Supplied with 1 set of 4 mm diameter elbowed leads in red/black with 4 mm diameter contact points, 1 set of 2 x 1.5 V batteries (AAA or LR3) and 1 carrying case

Ref.	Clamping diameter	Dimensions (mm)	Weight (g)
TP57	28 mm	218 x 64 x 30	280



DET14C - DET24C

CLAMP-ON EARTH RESISTANCE TESTER

PERFORMANCE : IEC 61557-5, IEC 61557-13 CLASS 1 SAFETY : EN 61010-2-032, CATI V 600 DEGREE OF POLLUTION 2 EMC : SHAPE CLASS B, BSEN 61326, IEC 61326

Use: These instruments induce a test current into earth systems and measure ground resistance in multi ground installations without needing to disconnect the ground. Designed with flat core ends they prevent dirt build up, ensuring measurement integrity and improved reliability over products with interlocking teeth. The instrument's ability to measure current flowing in an earth cable is a useful safety feature, especially if the earth cable has to be disconnected.

DET14C and DET24C also offer a true RMS AC current measurement facility up to 35 Amps.

Technical specifications: - Elliptical clamp shape improves access to earth cables and straps up to 50 mm

- Low maintenance flat jaw interface
- Measures ground resistance from 0.05 Ω to 1500 Ω
- Measures true RMS ground leakage current from 0.5 mA rms to 35 A rms
- Backlit LCD display

Delivered in a carrying case with shoulderstrap, user guide CD-ROM, calibration check battery AA (Alkaline) (4 required)

Ref.	Description	Dimensions (mm)	Weight (g)
DET14C	Clamp-on earth resistance tester	248 x 144 x 49	985
DET24C	Clamp-on earth resistance tester with result storage and USB transfer	248 x 144 x 49	985

TDR900

HAND-HELD TIME DOMAIN REFLECTOMETER AND CABLE LENGTH METER

IEC 61010-1

Use: The TDR900 is an advanced instrument capable of measuring cable lengths and finding distance to an open or a short using Time Domain Reflectometry. It offers exceptional features and a range capability normally associated with far more expensive instruments. These instrument can be used for any cable consisting of at least two insulated metallic elements, one of which may be the sheath or shield of the cable.

Technical specifications: - Full autoranging for measuring the length of power, telephony, CATV and LAN cables, provides distance to an open or short.

- Extra large, high resolution backlit LCD.
- Automatic output impedance control of 25, 50, 75, 100, 125 or 150 ohms.
- User-friendly menu on screen operation.
- Cable length calibration function.
- Internal library of 39 standard cable types.
- 3 year warranty

Delivered in a soft carrying case with alligator clip adapter and user manual.



Ref.	Dimensions (mm)	Weight (g)
TDR900	235 x 100 x 44	450

TDR2000/3P

TIME DOMAIN REFLECTOMETER

IEC 61010-1 UP TO 150V CAT IV

Use: TDR2000/3 is a highly portable, high resolution, compact, dual channel time domain reflectometer with a large color screen for locating faults on paired metallic cables in applications as diverse as street lighting, telephony and CATV

Technical specifications: • Comprehensive Dual Channel capability with dual aspect display.

- AUTO set up mode for instant use.
- Ultra fast pulse for near end fault identification.
- Xpert guidance to potential fault.
- Trace tagging (TDR2010 only)
- IP54 rating offers real life working.
- Designed for use on all metallic paired cables.

Delivered with 2 pairs of mini-clip test leads

Advice:



Ref.	Dimensions (mm)	Weight (kg)
TDR2000/3P	290 x 190 x 55	1,7



TDR1000/3P

HANDHELD TIME DOMAIN REFLECTOR

IEC 61010-1

Use: The TDR1000/3 is a hand held, compact Time Domain Reflectometer for locating faults on metallic cables. It has a minimum resolution of 0.1 m and a 8 km maximum range depending on velocity factor selected and cable type.

Technical specifications: It has a minimum resolution of 0.1 m and a 5 km maximum range depending on velocity factor selected and cable type.

Four output impedances are available (25, 50, 75, and 100 Ω) and a velocity factor between 0.2 and 0.99 will meet any cable test requirements.

- Simple operation.
- AUTO set up for instant use.
- Ultra fast pulse for near end fault identification.
- Trace HOLD feature to allow comparison between cables.
- IP54 rating offers real life working.
- Designed for use on all metallic cable pairs.

Supplied with : hard case, miniature clip test lead set, user guide CD, rubber boot with stand

Ref.	Dimensions (mm)	Weight (g)
TDR1000/3P	230 x 115	600

Cable location and depth measurement



EASYLOC

UTILITY LINE LOCATION SYSTEM

Use: Utility location system to detect and trace cable runs and pipe networks. The Easyloc is fast and simple to operate, with features designed to avoid potentially dangerous power cables and other services as efficiently as possible.

- ⊕ **Make optimum preparations for your building work, quickly and reliably**
- Avoid cable damage and help to minimise costly accidents and inconvenient delays**
- Depth measurement at the push of a button, even without a transmitter**
- 33 kHz – compatible with other location systems**
- Large display with automatic backlight**
- Quick and simple to operate**

Technical specifications: Receiver :

Location depth : 0,3 to 7 m

IP56

Power supply : 10 x IEC R6 1.5 V

Dimensions : 100 x 670 x 260 mm / Weight : 2,5 kg

Transmitter :

Transmitted power : 0,1 W / 0,5 W (switchable)

Power supply : 6 x IEC R20 1.5 V

Dimensions : 140 x 260 x 255 mm / Weight : 2,6 kg

Contents : receiver, transmitter, earthing kit, earthing spike, carrying bag, operating instructions

Ref.	Description	Weight (kg)
EASYLOC	Utility line location system	5,1

Measuring equipment • RCD tester

Type of network: LV  MV  HV 

RCDT300 series

RESIDUAL CURRENT DEVICE TESTER

IEC 61010-1 CAT III 300 V / EN 61557

Use: Ideal for maintenance of public lighting systems.

Technical specifications: - Tests standard, DC, selective, and programmable RCDs

- Ramp testing
- Auto (Remote) testing
- 3 Phase safe
- Enables testing on 110 V centre tapped supplies.
- Tough rubber armoured case with built-in cover
- Weatherproof to IP54
- USB interface for downloading test result

Delivered with plug ended test lead, 2 wire ended test lead probe/croc clip ended (not for RCDT310).



Ref.	Description	Dimensions (mm)	Weight (g)
RCDT310	Residual current device tester 30, 100, 300,500 mA	190 x 140 x 75	980
RCDT320	Residual current device tester 10, 30, 100, 300, 500,1000 mA	190 x 140 x 75	980
RCDT330	Tester 10, 30, 100, 300, 500,1000 mA with result storage and USB transfer	190 x 140 x 75	980

Combined tester

LRCD200 series

NON-TRIPPING LOOP AND RCD TESTER

IEC 61326-1

Use: These products are combined non-tripping loop tester and RCD test instruments that provide simple, affordable and flexible test tools for electrical contractors testing energised circuits.

Technical specifications: - Non-trip loop tester

- RCD testing from 10 mA to 1000 mA
- Extremely easy and safe to use
- Built-in protective front cover
- Tough rubber armoured case
- Weatherproof
- Auto RCD testing (LRCD220)
- Power Supply: 8 x 1.5V AA batteries
- 3 year warranty



Ref.	RCD test	Test range	Operating voltage	Dimensions (mm)	Weight (g)
LRCD200	1 x I	10, 30, 100, 300, 500 mA	230 V	203 x 148 x 78	980
LRCD210	1 x I - 1/2 x I - 5 x I	10, 30, 100, 300, 500 mA	230 V	203 x 148 x 78	980
LRCD220	1 x I - 1/2 x I - 5 x I	10, 30, 100, 300, 500, 1000 mA	110 and 230 V	203 x 148 x 78	980



SUP600 - SUP600E

OVERHEAD CABLE HEIGHT AND CLEARANCE METER / ULTRASONIC RANGE FINDER

Use: The SUP600 and SUP600E cable height meters (CHMs) are high technology devices (using ultrasound signals) which enable you to measure, at the simple press of a button, without contact and remotely from the ground, the height of the lowest cable and the vertical distances between up to 6 power lines.

It enables you to measure the height, sag and clearance between overhead lines. The ultrasonic range finder is a safer replacement for measuring sticks. It does not come into contact with the cables, guarantees fast, accurate measurement of the height and the minimum distances between cables from the ground

- +** **Lightweight and easy to use.**
- Requires only one operator, with no special skills.**
- Saves time: immediate measurement and displaying of the result.**
- Can take up to 6 measurements at the same time.**

Technical specifications: - Very accurate : 99%.

- Measures heights up to 23 m.
- Measures the distances between up to 6 cables. Min. clearance 150 mm.
- Measures distances from other objects (e.g.: posts, walls... up to 23 m).
- Operating temperature : -10°C to +40°C.
- Automatic temperature compensation between -10°C and +40°C.
- Permanent temperature display.
- Metric or imperial measurements.
- Power supply : 6LR 61 9V alkaline battery.
- Battery replacement warning at 6 V.
- Consumption < 4 mA
- Theoretical battery life : 50,000 measurements.
- Automatically switches off after 3 minutes.
- Built-in calibration checking.
- Latest microprocessor technology.
- Manufactured under permanent ISO 9001 quality control.
- Comes in an imitation leather case with carry strap

Range (25mm cable min) : 3-15 m (SUP600) and 3-23 m (SUP600E)

Range (12mm cable min) : 3-15 m (SUP600 and SUP600E)

Range (5.5mm cable min) : 3-12 m (SUP600 only)

Range (2.5mm cable min) : 3-10 m (SUP600 only)

Ref.	Dimensions (mm)	Weight (kg)
SUP600	205 x 100 x 70	0,5
SUP600E	205 x 100 x 70	0,5

PMT63

MEASURING STICK

Use: The PMT63 telescopic insulating stick is designed for measuring heights using a hook, or conductor diameters from 3 to 13 mm using a gauge on overhead lines with a maximum voltage of 63 kV up to a height of 10.50 metres.

For measurements higher than 10.50 m, the stick can be fitted with a 1 metre long end rod.

Technical specifications: The PMT63 stick consists of 9 telescopic sections.

Eight sections are fibreglass and have graduated markings to measure heights.

The bottom section is made of PVC, serves as a storage compartment and features a carry strap.

Height measurements are read on the upper edge of the bottom section.

Accessories are attached to the upper end of the stick or end rod.

Max height measurement : 10,5 m et 11,5 m with optional extension rod PMT631

Max Operating voltage : 50 kV in dry weather and 63 kV all-weather use with extension rod PMT631 extension rod



Ref.	Folded length (m)	Weight (kg)
PMT63	1,4	3
Accessories:		
SBH1001	Pouch	
PMT632	Gauge for use with M8 adaptor	
PMT631	1m epoxy resin insulating end rod with M8 male/female end fittings	
PMT634	Hook	
RCIM8	Male U notched fitting	

Thermometer

CA871

INFRARED THERMOMETER

Use: To locate all your hot spots in just a few seconds, the ergonomics of these thermometers are specially designed to make them particularly simple to use. The pistol-shaped casing also makes them very comfortable to handle.

All the functions are accessible one-handed. With the easy-to-use laser sight, users can point at the centre of any target with no risk of error. The results are then displayed on the backlit LCD screen.

Compact, easy to use and accessible to everyone.

Technical specifications: - Measurement range : - 40 °C to + 538 °C

- Accuracy : ± (2.5 % of reading + 2 °C)

- Resolution : 0.1 °C between - 40 and 100 °C (1 °C otherwise)

- Laser sighting

- Fixed emissivity : 0.95

- Distance/spot ratio (D/∅) : 8/1

- Backlighting

Delivered with 1 carrying bag, 1 Operating Manual and 1 x 9V battery



Ref.	Dimensions (mm)	Weight (g)
CA871	160 x 82 x 41,5	180



ULD-40

ULTRASONIC CORONA/ARCING DETECTOR

Use: The ULD-40 accurately pinpoints and identifies corona effects and arcs that may be encountered on any type of high voltage installation simply by scanning around the suspected area.

+ The ULD-40 enables making remote acoustic inspections with great accuracy. The equipment is user friendly and does not necessitate any training whatsoever. One of the advantages of the ULD-40 is that it works just as well in noisy environments.

Technical specifications: Display : 7-segment display in relative dB-mode

Display Range : 90 dB

Sensor : Built-in with 5 degrees conical directivity

Audio : Integrated Speaker & Audio output for headset or PC recording

Centre Frequency : 40 KHz

Bandwidth : 38 kHz-48 kHz

Detection : Detects 0.127 mm dia. leak at 5 psi at a distance of 8m

Battery : Rechargeable Lithium-ion battery

Delivered with case, battery charger and product manual.

Advice: An optional external parabolic sensor, enables the user to pinpoint electrical defects from a longer distance. It easily connects on the side of the ULD and it is equipped with a laser pointing device which enables pinpointing the ultrasound emission source. The dismantable parabolic antenna and the small dimensions of the ULD facilitate its use in the field and allow access to any type of installations.

Ref.	Description
ULD-40	Ultrasonic corona/arcing detector
Option(s):	
ULD401	Parabolic sensor
ULD403	Noise simulator
ULD404	Audio cable for PC
ULD405	Headset

Measuring equipment



PDS

PARTIAL DISCHARGE SCANNER

Use: The PDS allows online partial discharge detection on underground cable accessories and equipment for safety and maintenance purposes.

This compact and lightweight instrument is battery operated and it has an autonomy of 30 hours.

The Partial Discharge intensity level is displayed on the instrument with the bargraph.

- +** • Easy to use
- Compact, lightweight and battery powered for maximum flexibility
- High sensitivity inductive and capacitive sensors
- Rugged Delrin® made casing
- Up to 30 hours autonomy

Technical specifications: Sensitivity : 100 pC to 25000 pC

Intensity range : 0 to 54 dB

Sensor type : Dual mode sensor combining capacitive and inductive

Frequency : High frequency detection (100 MHz and up)

Indication :

- Audio with integrated speaker
- Visual, LED bar graph

Autonomy : Up to 30 hours

Battery : 4x AA alkaline batteries

Standard accessories :

- Insulated sticks, for 3 feet length total
- Nylon protective bag
- Universal coupler for hotsticks

Ref.	Description
PDS	Partial Discharge Scanner

New range!

12000 series

Ø4 MM LEAD WITH FUSE

1000V CAT IV COMPLIANT, REINFORCED INSULATION, DEGREE OF POLLUTION 3, ACCORDING TO EN/IEC 61010-031:2008 ACCORDING TO LCIE REPORT 126340-653092-B. COMPLIANT WITH EUROPEAN DIRECTIVES DBT 2006/95/EC AND ROHS 2011/65/EU AND CE MARKING.

Use:

Ø4mm lead with fuse for connection to test and measuring instruments such as multimeters. The tip end has a fuse to allow connection close to the source of hazardous voltage so as to protect the user and/or the device located downstream from the source. That design reduces the risks of injury and/or damage due to accidental short circuits.

If the fuse blows, it can be replaced simply by unscrewing the Ø4mm tip end.

Technical specifications:

Type 12300

Lead : Fused Ø 4 mm male straight plug to Ø4 mm male straight plug. Cross-section : 1 mm² , PVC double insulated

Length : 100 cm

Weight : 55 g

Protection : Fuse 1A HPC@50kA, Ø6x32 mm.

Dedicated voltage : 1000V CAT IV

Dedicated intensity : 10A max. (according to the fuse used).

Operating temperature : 0°C to +40°C

Type 12400

Lead : Fused Ø 4 mm male straight plug to Ø4 mm male 90° bent plug. Cross-section : 1 mm² , PVC double insulated

Length : 100 cm

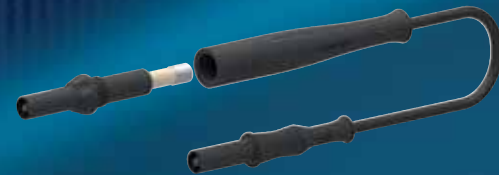
Weight : 55 g

Protection : Fuse 1A HPC@50kA, Ø6mm x 32mm.

Dedicated voltage : 1000V CAT IV

Dedicated intensity : 10A max. (according to the fuse used).

Operating temperature : 0°C to +40°C



Ref.	Colour	Packaging	Weight (g)
12312-IEC-1A-100R	Red	Pack of 10, 250 x 170 mm	550
12312-IEC-1A-100N	Black	Pack of 10, 250 x 170 mm	550
12412-IEC-1A-100R	Red	Pack of 10, 250 x 170 mm	550
12412-IEC-1A-100N	Black	Pack of 10, 250 x 170 mm	550

New range!

13000 series

Ø4MM TEST LEAD WITH FUSE

1000V CAT II (1000V CAT IV WHEN RESTING) COMPLIANT, REINFORCED INSULATION, DEGREE OF POLLUTION 2, ACCORDING TO EN/IEC 61010-031:2008 ACCORDING TO LCIE REPORT 126340-653092-A. COMPLIANT WITH EUROPEAN DIRECTIVES LVD 2006/95/EC AND ROHS 2011/65/EU AND CE MARKING.

Use:

Ø 4 mm safety test lead with fuse for connection to test and measuring instruments such as multimeters.

The tip end has a fuse to allow connection close to the source of hazardous voltage so as to protect the user and/or the device located downstream from the source.

The tip is touch safe thanks to its IP2X retractable sleeve, which is blocked in the resting position.

Its use is thus controlled, seen and felt. That design reduces the risks of injury and/or damage due to accidental short circuits.

If the fuse blows, it can be replaced simply by unscrewing the Ø4mm tip end.

- End with fuse for connection close to the source of voltage.
- IP2X retractable sleeve tip end.
- Twinned tips for 19mm centre distance.
- Max. depth of measuring well : 24mm.
- Easy replacement of old fuse.
- Ø4mm male banana plug compatible with most T&M devices in the market.

Technical specifications:

Type 13300

Lead : IP2X Ø4mm tip end with fuse to Ø4mm straight plug. Cable with 1 mm² section and double PVC insulation.

Visible cable length : 100cm

Weight : 0.068kg

Protection : 1A HPC@50kA fuse, Ø6x32mm.

Rated voltage : 1000V CAT II (1000V CAT IV when resting)

Rated intensity : 10A max. depending on fuse used.

Usage temperature : 0°C to +40°C

Type 13400

Lead : IP2X Ø4mm tip end with fuse to Ø4mm straight plug with 90° angle. Cable with 1 mm² section and double PVC insulation.

Visible cable length : 100 cm

Weight : 0.68kg

Protection : 1A HPC@50kA, Ø6mm x 32mm.

Rated voltage : 1000V CAT II (1000V CAT IV when resting) Rated intensity : 10A max. depending on fuse used.

Usage temperature : 0°C to +40°C



Ref.	Packaging	Weight (g)
13312-IEC-1A-100R	Pack of 10, bag 250 x 170 mm	680
13312-IEC-1A-100N	Pack of 10, bag 250 x 170 mm	680
13412-IEC-1A-100R	Pack of 10, bag 250 x 170 mm	680
13412-IEC-1A-100N	Pack of 10, bag 250 x 170 mm	680

2217/600V

4 MM LEAD WITH RETRACTABLE SLEEVE

EN / IEC 61010-031

Use: Lead particularly recommended for use with safety fuse holders ref TP83 for all appliances with 4 mm Ø sockets and clamp ref TP51.

Technical specifications: Stackable lead fitted at each end with a 4 mm plug with retractable sleeve, compatible with 4 mm safety and non safety sockets.

Extra flexible double-insulated PVC cable, section 2.5 mm².

Dedicated Intensity : Max. 32 A.

Limit stipulated by IEC 61010-031 . 600V CAT II

Other lengths available on request.



Ref.	Colour	Length (m)
2217/600V-50-J	Yellow	0.5
2217/600V-150-J	Yellow	1.5
2217/600V-50-N	Black	0.5
2217/600V-150-N	Black	1.5
2217/600V-50-R	Red	0.5
2217/600V-150-R	Red	1.5
2217/600V-50-V	Green	0.5
2217/600V-150-V	Green	1.5
2217/600V-50-BI	Blue	0.5
2217/600V-150-BI	Blue	1.5

2617-IEC

IP2X 4 MM STACKABLE SAFETY LEAD

IEC 61010-031

Use: Recommended for use with safety fuse holders ref. TP 83, all appliances with Ø 4 mm socket and clamp ref. TP51.

Technical specifications: Safety lead fitted at each end with a 4 mm safety plug (with rigid sleeve)

Extra-flexible double-insulated PVC cable, section 2.5 mm².

Dedicated Intensity : Max. 32 A.

Dedicated voltage: 600V CAT III - 1000V CAT II



Ref.	Colour	Length (m)
2617-IEC-50-Bn	Brown	0.5
2617-IEC-150-Bn	Brown	1.5
2617-IEC-50-N	Black	0.5
2617-IEC-150-N	Black	1.5
2617-IEC-50-R	Red	0.5
2617-IEC-150-R	Red	1.5
2617-IEC-50-V	Green	0.5
2617-IEC-150-V	Green	1.5



2352-IEC

IP2X 4 MM SAFETY LEAD WITH RIGHT-ANGLED PLUG

IEC 61010-031

Technical specifications: Ø 4 mm safety lead fitted with a straight plug and a 90°angled plug

Extra flexible double-insulated PVC cable, section 1 mm².

Dedicated Intensity : Max. 19 A

Dedicated voltage: 1000V CAT III - 600V CAT IV

Length: 1.50m

Ref.	Colour
2352-IEC-150-N	Black
2352-IEC-150-R	Red



2312-IEC-120N+R

SET OF 2 SAFETY LEADS

CEI 61010-031 600V CAT IV (INSULATED - POLLUTION INDEX: 2)

Use: Set of 2 insulated safety leads in PVC cable, section 1 mm².

Technical specifications: Red and black.

Length 1.20 m.

Ø 4 mm male-male type, straight safety seal.

600V CAT IV - 1000V CAT III

Ref.	Description
2312-IEC-120N+R	Set of 2 safety leads



823711C

SPECIAL LEAD FOR LV MEASUREMENT

IEC 61010-031

Use: Used in two way Telecom systems (2-way diverter lead).

Important : limited use : < 33V AC - < 70V DC - 5 A.

Ref.	Description
823711C	Special lead for LV measurement

Connection • Alligator clips

Type of network: LV  MV  HV 

5066-IEC

ALLIGATOR CLIP WITH 4 MM FEMALE BANANA SOCKET

CEI 61010-031

Use:

Technical specifications: Length : 92 mm.

Jaw opening : up to 41 mm on end and on round, Ø 25 mm max

Current : 36 A maxi.

Voltage : 1000V CAT III / 600V CAT IV.



Ref.	Colour
5066-IEC-J	Yellow
5066-IEC-N	Black
5066-IEC-R	Red
5066-IEC-V	Green
5066-IEC-BI	Blue
5066-IEC-BN	Brown
5066-IEC-N-R	1 black and 1 red

Wire-grips

6005-IEC

4 MM CLAMP-TYPE SAFETY WIRE GRIP

IEC 61010-031

Use: Wire-grip with self-tightening clamp and a 4 mm socket for safety leads.

The clamp is guided in a particularly flexible sleeve

Technical specifications: Current : 6 A.

Length : 159 mm.

Dedicated Voltage: 1000V CAT II



Ref.	Colour
6005-IEC-N	Black
6005-IEC-R	Red



6007-IEC

FLEXIBLE TEST GRIP, IP2X

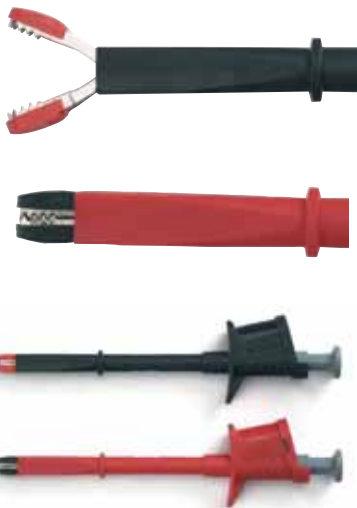
IEC 61010-031

Technical specifications: Test grip, IP2X, 1 000V, CAT III, flexible model.

Current 6 A.

May be fitted to IEC Ø 4 mm safety leads.

Ref.	Colour
6007-IEC-N	Black
6007-IEC-R	Red



6009-IEC

4 MM SAFETY WIRE-GRIP WITH INSULATED CROC CLIPS TO IP2X

CEI 61010-031

Use: Wire grip with insulated croc clips fitted with a 4 mm socket for safety leads.

Technical specifications: Length : 155 mm

Clamp opening up to 20 mm

Current : 20 A maxi

Dedicated Voltage : 1000V CAT III

Ref.	Colour	Quantity
6009-IEC-N	Black	2
6009-IEC-R	Red	2

Fuses



FU6X32HPC

FUSE 6X32 MM

Use: Fuse for fuse holder leads serie 1200 and 1300.

Technical specifications: Voltage : 1000V

Breaking capacity : 30 kA and 50 kA

Sold in packs of 10.

Dimensions : 65 x 33 x 8 mm

Weight : 28 g

Ref.	Description
FU6X32HPC-0A5-1000V	Fuse 1000V / 0,5A HPC@50 kA
FU6X32HPC-1A1000V	Fuse 1000V / 1A HPC@50 kA
FU6X32HPC-2A1000V	Fuse 1000V / 2A HPC@30 kA

Connection • Tester clamp

Type of network: LV  MV  HV 

TP51

TESTER CLAMP FOR FLAT CONTACTS

IEC 61010-031

Use: Completely insulated tester clamp for quick connection to busbars (on LV installations, for example).

Technical specifications: Clamp with 4 mm output for safety patchcord.
Dedicated Voltage : 600V CAT III

The TP51N2 clamp may be fitted with 2617-IEC or 2217/600V safety patchcord and fuses have to be ordered separately (Ref. TF04).

Advice: Do not connect or disconnect the clamps while under electrical load.



Ref.	Fuse	Current	Opening
TP51N1	No	32 A max	0 to 10 mm
TP51N2	Yes : integrated HPC	20 A max	4 to 12 mm

5063/3283N/N

ALLIGATOR CLIP FOR CONTINUITY TESTING

Use: Continuity verification of protective conductors.

⚡ Heavy duty clip
Strong tightening of the jaw guaranteeing an excellent electrical contact.
Easy connection with connector integrated into the handle.

Technical specifications: Max. current : 36 A
Max. voltage : 33V AC / 70V DC
Rear connection : Ø 4 mm
Max. opening : 38 mm



Ref.	Description
5063/3283N/N	Alligator clip for continuity testing

Testing set

TC158

SET OF TESTING ACCESSORIES

IEC 61010-1 / IEC 61010-031 FOR «FIELD-TESTING» SYSTEMS, INCLUDING PORTABLE DEVICES

Technical specifications: Contents:
- 1 black wire-grip with lead,
- 1 red wire-grip with lead.

Dedicated voltage : 1000V CAT II



Ref.	Description
TC158	Set of testing accessories



B REEL 2310

BELT REEL FOR CONTINUITY TEST

Use: This belt reel allows to perform a continuity test of the ground and of the equipotential bonding.

- ⊕ • The fixed socket makes you able to wind up and unwind the wire while being connected and without twisting and/or breaking the wire
- The padded belt provides a guarantee of maximum comfort during long sessions.
- When it's time to reel the cable, the steadiness of the B-Reel around your hips allows you to use one hand to reel and the other to guide the cable and to clean it when passing the cable through a rag

Technical specifications: 50 meters of single conductor lead, PVC insulated.

Cross-section : 0,75 mm².

1000V CAT III

4 mm female connector socket

ABS casing.

Ref.	Dimensions (cm)	Weight (kg)
B REEL 2310 50V	27 x 16 x 16	1,5



PERCHTELE

TELESCOPIC PROBE FOR CONTINUITY TEST AND NO VOLTAGE DETECTION

Use: This stick allows to make a continuity test on hard-to-reach points such as ceiling lights.

- ⊕ Adjust very quickly the length of the probe thanks to its twist locking system.

Technical specifications: 1 000V CAT III, 600V CAT IV.

4 mm female connector socket

Ref.	Extended dimensions (cm)	Folded dimensions (cm)	Weight (g)
PERCHTELE	85	47	300



REEL IEC3 2715 100

REEL FOR CONTINUITY TEST, 100 M

Use: Continuity verification of protective conductors.

- ⊕ Great length of cable allowing the test in big facilities.

Technical specifications: 100 meters of PVC insulated cable.

Cross-section : 1,5 mm².

1000V CAT III - 600V CAT IV.

Connector socket: 4 mm.

Plastic handle.

Ref.	Dimensions (cm)	Weight (kg)
REEL IEC3 2715 100	19 x 28 x 37	4,5

ADAFMSECT

GROUNDING WALL SOCKET ADAPTOR

Use: By connecting this adaptor to the type E socket of a house, the technician can use the earth pole of the socket as reference to test the other sockets with his earth tester.

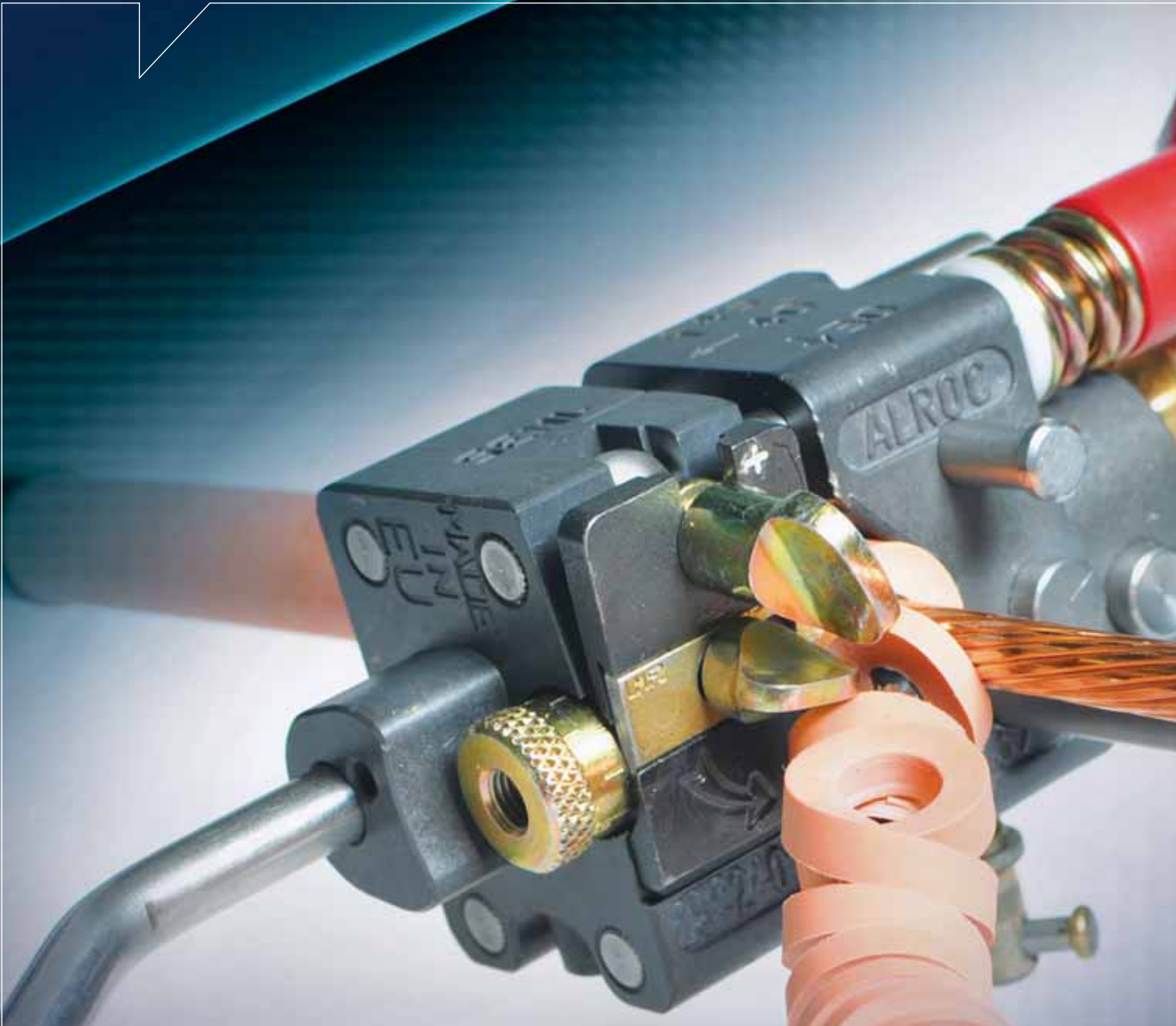
+ Dedicated to ease electrical continuity measuring for electrical diagnostic in houses.

Technical specifications: Current : 16 A.
250 V AC CAT II



Ref.	Description	Dimensions (mm)
ADAFMSECT	Grounded wall socket adaptor	80 x 36





CABLE PREPARATION TOOLS



CABLE PREPARATION TOOLS

LOW VOLTAGE

Live working - Outer sheath	404
Outer sheath	405
Live Working - Lead sheath	406
Lead sheath	406
Live working - Metal strip	407
Metal strip	407
Tool sets	407

MEDIUM VOLTAGE

Outer sheath	408
Multifunction tools	410
Non-peelable semiconductor	415
Insulation	416
Special cables - Outer sheath	417
Tool sets	419

HIGH VOLTAGE

Corrugated sheath	427
-------------------------	-----

GAS PIPES

PE coated steel pipes	427
-----------------------------	-----



PG3EC/2020

1000V INSULATING COMPOSITE PLIERS FOR NETWORK CABLES CC 2.0 LC 2.0

IEC 60900 / EN 60900 COMPATIBLE WITH BT NFC 33-210 TYPE HN33S33

Use: PG3EC/2020 pliers are insulated 1000V and enable the user to remove the outer sheath from LV cables and increase safety of agents during live working.

+ Built in insulating material.

Technical specifications: PG3EC/2020 for cables from Ø 26 to 52 mm (3 x 50² + 1 x 50² to 3 x 240 + 1 x 95²).

Circular and longitudinal penetration : 2 mm.

Ref.	Length (mm)	Width (mm)	Height (mm)	Weight (g)
PG3EC/2020	265	100	75	440



PINTEL4BT/1216-1000V

1000V INSULATED LV PLIERS FOR CONNECTION CABLE CC 1.2 LC 1.6

IEC 60900 / EN 60900 COMPATIBLE WITH EDF-HM-27/03/139, NF C 33-210, NF C 33-209, NF C 33-221 (U1000), NF C 33-400.

Use: PINTEL4BT/1216-1000V pliers are insulated 1000V and enable the user to remove the cable outer sheath during live working.

+ 1000V Insulated LV Pliers for connection cable CC 1.2 LC 1.6

Technical specifications: PINTEL4BT/1216-1000V for cables from Ø 10 to 30 mm.

Penetration in circular cut : 1,2 mm.

Penetration in longitudinal cut : 1,6 mm.

25 to 35 mm² for cables EDF HM-27/03/139.

16 to 50 mm² for cables NF C 33-210.

25 to 150 mm² for cables NF C 33-209.

25 to 35 mm² for cables NF C 32-321 (U1000).

Ref.	Length (mm)	Width (mm)	Height (mm)	Weight (g)
PINTEL4BT/1216-1000V	260	90	80	620



PINTEL4BT/1216R-1000V

1000V INSULATED LV PLIERS WITH 3-POSITION HEAD FOR CONNECTION CABLE CC 1.2 LC 1.2, 1.6, 1.8

IEC 60900 / EN 60900 COMPATIBLE WITH EDF-HM-27/03/139, NF C 33-210, NF C 33-209, NF C 33-221 (U1000), NF C 33-400.

Use: PINTEL4BT/1216-R-1000V pliers are insulated 1000V and specially made to remove the cable outer sheath by selecting different longitudinal cutting depths during live working.

**+ Oscillating cable support for a better guidance.
Stripping of the sectoral phases of cables network.**

Technical specifications: PINTEL4BT/1216-R-1000V for cables from Ø10 to 30 mm.

Penetration in circular cut : 1,2 mm.

Penetration in longitudinal cut : 1,2 – 1,6 – 1,8 mm.

25 to 35 mm² for cables EDF HM-27/03/139

16 to 50 mm² for cables NF C 33-210

25 to 150 mm² for cables NF C 33-209

25 to 35 mm² for cables NF C 32-321 (U1000)

Ref.	Length (mm)	Width (mm)	Height (mm)	Weight (g)
PINTEL4BT/1216-R-1000V	260	90	80	660

PINTEL4BT/1216

LV PLIERS FOR CONNECTION CABLE CC 1.2 LC 1.6

COMPATIBLE WITH EDF-HM-27/03/139, NF C 33-210, NF C 33-209, NF C 33-221 (U1000), NF C 33-400.

Use: PINTEL4BT/1216 pliers are specially made to remove the cable outer sheath on disconnected networks.

 **Stripping of the sectoral phases of network cables.**

Technical specifications: PINTEL4BT/1216 for cables from \varnothing 9 to 30 mm.

Penetration in circular cut : 1,2 mm.

Penetration in longitudinal cut : 1,6 mm.

25 to 35 mm² for cables EDF HM-27/03/139.

16 to 50 mm² for cables NF C 33-210.

25 to 150 mm² for cables NF C 33-209.

25 to 35 mm² for cables NF C 32-321 (U1000).



Ref.	Length (mm)	Width (mm)	Height (mm)	Weight (g)
PINTEL4BT/1216	260	90	80	550

PINTEL4BT/1216-R

LV PLIERS WITH 3-POSITION HEAD FOR CONNECTION CABLE CC 1.2 LC 1.2, 1.6, 1.8

COMPATIBLE WITH EDF-HM-27/03/139, NF C 33-210, NF C 33-209, NF C 33-221 (U1000), NF C 33-400.

Use: PINTEL4BT/1216-R pliers are specially made to remove the cable outer sheath on disconnected networks by selecting different longitudinal cutting depths.

 **Oscillating cable support for a better guidance.**
Stripping of the sectoral phases of network cables.

Technical specifications: PINTEL4BT/1216-R for cable from \varnothing 10 to 30 mm.

Penetration in circular cut : 1,2 mm.

Penetration in longitudinal cut : 1,2 – 1,6 – 1,8 mm.

25 to 35 mm² for cables EDF HM-27/03/139.

16 to 50 mm² for cables NF C 33-210.

25 to 150 mm² for cables NF C 33-209.

25 to 35 mm² for cables NF C 32-321 (U1000).



Ref.	Length (mm)	Height (mm)	Width (mm)	Weight (g)
PINTEL4BT/1216-R	260	80	90	580

DBT

LV CABLE STRIPPER 6 SECTIONS FOR OVERHEAD NETWORK

COMPATIBILITY WITH LV AERIAL BUNDLED CONNECTORS FROM 16 TO 150 MM²

Use: DBT tool enables the user to strip quickly and easily LV aerial bundled connectors from 16 mm² to 150 mm².

 **Light tool in thermoplastic polymer.**

Technical specifications: Very easy to use, no setting.

For cables : 16, 25, 35, 54.6, 70 and 150 mm².

Other sections available on request.



Ref.	Length (mm)	Width (mm)	Height (mm)	Weight (g)
DBT	130	130	40	230



DCG54-148 - DCG54-70

LV CABLE STRIPPER 54.6 / 148 MM² OR 54.6 / 70 MM²

COMPATIBLE WITH LV AERIAL BUNDLED CONNECTORS AND MV SHEATHED BRIDGES 54.6 AND 148 MM².

Use: DCG54-148 and DCG54-70 enable the user to strip quickly and easily LV aerial bundled connectors or sheathed bridges on a previously selected length.

+ Movable stop to select the stripping length.
No blade adjustment.

Technical specifications: Stripping length of 45 or 160 mm for DCG54-148.
Stripping length of 34, 60 or 160 mm for section 54,6 mm² of DCG54-70.
Stripping length of 34 mm for section 70 mm² of DCG54-70.

Ref.	Length (mm)	Width (mm)	Height (mm)	Weight (g)
DCG54-148	280	35	45	480
DCG54-70	255	35	45	450

Live working - Lead sheath



AGPB3-1000V - AGPB4-1000V

1000V INSULATING PLIERS FOR LEAD SHEATH CABLES CC 2.3 LC 3.5

IEC 60900 / EN 60900

Use: AGPB3-1000V and AGPB4-1000V pliers enable the user to perform a circular and longitudinal cut on LV lead sheath cables and to increase safety of agents during live working.

This tool guarantees the lead sheath removal without damaging insulation.

+ Non cutting wheel to creep the lead.
AGPB3-1000V built in insulating material.

Technical specifications: AGPB3-1000V for cables from Ø 26 to 52 mm.
AGPB4-1000V for cables from Ø 47 to 75 mm.

Ref.	Length (mm)	Width (mm)	Height (mm)	Weight (g)
AGPB3-1000V	265	100	75	470
AGPB4-1000V	300	100	110	1000

Lead sheath



AGPB3 - AGPB4

LV - MV PLIERS FOR LEAD SHEATH CABLES CC 2.3 LC 3.5

Use: AGPB3 and AGPB4 pliers enable the user to perform a circular and longitudinal cut on LV or MV lead sheath cables.

These tools guarantee the lead sheath removal without damaging insulation.

+ Non cutting knob to creep the lead.

Technical specifications: AGPB3 for cables from Ø 26 to 52 mm.
AGPB4 for cables from Ø 47 to 75 mm.

Ref.	Length (mm)	Width (mm)	Height (mm)	Weight (g)
AGPB3	270	95	80	610
AGPB4	300	105	105	860



Low Voltage • Lead sheath

Type of network: LV MV HV

EVP

LEAD SHEATH SPREADER (LV-MV)

Use: EVP spreader facilitates the lead spreading in regards to the semiconductor.

Technical specifications: Suitable for all diameters and sections.



Ref.	Length (mm)	Width (mm)	Height (mm)	Weight (g)
EVP	190	16	40	230

Live working - Metal strip

SBI

1000V INSULATED STRIP SAW

EN 60900

Use: SBI saw enables the user to cut the metal strip from LV cables while increasing the safety of agents during live working.

Technical specifications: Suitable for all diameters and sections.



Ref.	Length (mm)	Width (mm)	Height (mm)	Weight (g)
SBI	350	53	53	330

Metal strip

SBA

ALUMINIUM STRIP SAW

Use: Aluminium strip saw enables the user to cut cable metal strips on disconnected networks.

Technical specifications: Suitable for all diameters and sections.



Ref.	Length (mm)	Width (mm)	Height (mm)	Weight (g)
SBA	340	50	50	240

Tool case

CPV-TST-BT

LOW VOLTAGE LIVE WORKING CASE

EN 60900

Use: The CPV-TST-BT is a set containing all the necessary to work on LV cables during live working.

Technical specifications: CPV-TST-BT case contains following tools :

- PINTEL4BT/1216-R-1000V : 1000V Insulating pliers with 3 interchangeable heads for connection cable
- PG3EC/2020 : 1000V Insulating composite pliers for network cables
- MS45 195 : 1000V Insulated cable cutter
- MS46 S : 1000V Insulated ratchet cable cutter (end cutting)
- 5544E : 1000V Insulating groove spreader
- MS2E : 1000V Insulated scissors
- TL05 : Insulating lever
- D60 : Folding meter stick 10 parts
- SFB : White pencil



Ref.	Length (mm)	Width (mm)	Height (mm)	Weight (kg)
CPV-TST-BT	575	470	145	6,7

New!



DPC/10-45

CABLE MIDSPAN STRIPPER 10-45 MM

Use:

DPC/10-45 tool enables the user to strip midspan the insulating sheath of overhead MV cable and to remove the desired length.

For cable with protected conductor and Spacer Cable Systems.

- ⊕ **Reduced size and wide capacity.**
- Tough blade with no weak point.**
- Setting of the notched blade 1 click = 1/4 turn = 0.2 mm**

Technical specifications:

Capacity : Ø 10-45 mm

Max cutting depth : 11 mm

Delivered in a soft case.

Ref.	Height (mm)	Length (mm)	Weight (g)	Width (mm)
DCP/10-45	75	230	890	70
Spare part(s):				
LDPC	Spare blade for DCP/10-45			



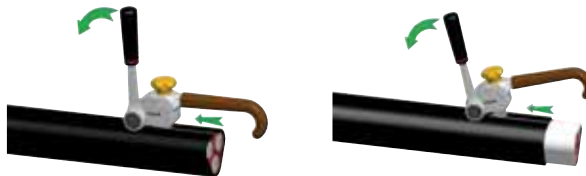
OGEDR

OVERSHEATH REMOVER FOR CABLES WITH IMPB : IMPROVED MECHANICAL PROTECTION FOR BURYING

Use: OGEDR tool enables the user to remove the protective oversheath of MV cables with IMPB : Improved Mechanical Protection for Burying.

- ⊕ **Delivered with a protective case.**

Technical specifications: Longitudinal cut of the oversheath covering 3 phases. Suitable for all diameters and sections.



Ref.	Length (mm)	Width (mm)	Height (mm)	Weight (g)
OGEDR	220	75	80	840



ALROC-FENTE

SPLITTER FOR OUTER SHEATH 50-630 MM²

COMPATIBLE WITH C33-226, UTE C33-223, NFC33-223, HN33S23.

Use: ALROC-FENTE tool enables the user to perform 1, 2, 3 or 4 splits on outer sheath from cables before sheath spreading or sheath widening.

- ⊕ **Minimal effort to realize the splits.**

Technical specifications: Splits on outer sheath : 40 mm long.

For cables from Ø 16 to 60 mm (25 to 630 mm²).

Sheath thickness : 2 to 3,5 mm (6 position setting).

Ref.	Length (mm)	Width (mm)	Height (mm)	Weight (kg)
ALROC-FENTE	270	75	145	1

Medium voltage • Outer sheath

Type of network: LV  MV  HV 

EV/NPT

PE SHEATH SPREADER

COMPATIBLE WITH POPY NIKOL C33-226

Use: EV/NPT is designed to spread the outer sheath small tabs from C33-226 cable without damaging the metallic screen to position the grounding screen.

 Spread angle set by the EV/NPT.

Technical specifications: Suitable for all diameters and sections.



Ref.	Length (mm)	Width (mm)	Height (mm)	Weight (g)
EV/NPT	230	15	40	240

EV150/240 - EV2000 150/240 - EV630

PVC SHEATH SPREADER

COMPATIBLE WITH VINYL C33-226, UTE C33-223, NFC33-223, HN33S23.

Use: The spreaders facilitate the passing of the grounding screen under the outer sheath and the aluminium screen of the cable.

Technical specifications: EV 150/240 for cables 150 mm² and 240 mm² NFC33-223 and HN33S23.

EV2000 150/240 for cables 50 mm² and 240 mm² UTE C33-223 and VINYL C 33-226.

EV630 for cables 630 mm² NFC33-223 and HN33S23.



Ref.	Length (mm)	Width (mm)	Height (mm)	Weight (g)
EV150/240	180	32	26	180
EV2000 150/240	180	28	26	180
EV630	180	36	28	180

P115

CLAMPING TOOL FOR STEEL STRIP

C33-226, UTE C33-223, NF C 33-223, HN33S23.

Use: Specific pliers used to bind all types of pipes, cables, ropes, boxes, etc...

It allows to cut metallic strip thanks to a cutting part.

Technical specifications: For steel strips up to 10 mm wide.

Suitable for all diameters and sections.



Ref.	Dimensions (mm)	Weight (g)
P115	160 x 25 x 56	240



PRG3/2233 - PRG4/20-2530

SHEATH PLIERS WITH 3-POSITION HEAD Ø 26-52 MM CC 2.2 LC 2.2 - 2.8 - 3.3 SHEATH PLIERS WITH 3-POSITION HEAD Ø 47-75 MM CC 2.0 LC 2.5 - 2.8 - 3.0

Use: PRG3/2233 and PRG4/20-2530 tools enable the user to remove the outer sheath of the cable by doing a circular and longitudinal cut on the sheath.

Technical specifications: PRG3/2233 for cables from Ø 26 to 52 mm.

Penetration in circular cut : 2,2 mm.

Penetration in longitudinal cut : 2,2 - 2,8 - 3,3 mm.

PRG4/20-2530 for cables from Ø 47 to 75 mm.

Penetration in circular cut : 2 mm.

Penetration in longitudinal cut : 2,5 - 2,8 - 3,0 mm.

Other penetrations available on request.

Ref.	Length (mm)	Width (mm)	Height (mm)	Weight (g)
PRG3/2233	270	100	80	630
PRG4/20-2530	300	110	105	890

Multifunction tools



ROTO-TMG

MAINTAINING TOOL FOR MECHANICAL FITTING CONNECTORS

COMPATIBLE WITH C33-226, UTE C33-223, NF C 33-223, HN33S23.

Use: ROTO-TMG is an adjustable multifunction tool that enables the user to maintain mechanical fitting connectors and lugs.

+ Fast assembling/disassembling of the optional K7 blocks.

Technical specifications: For cables from Ø 16 to 60 mm (50 to 630 mm²).

Available options for more functions (GFE-TMG, K7/GRATT).

Ref.	Length (mm)	Width (mm)	Height (mm)	Weight (g)
ROTO-TMG	255	85	90	840



GFE-TMG

BLOCK WITH ROLLS FOR ROTO-TMG

COMPATIBLE WITH C33-226, UTE C33-223, NFC33-223, HN33S23.

Use: The option GFE-TMG for ROTO-TMG tool allows the tightening of the sheath onto the connection screen and to bend the sector-shaped conductor.

+ Good penetration of the pins into the aluminium screen of the cable.

Technical specifications: Use with ROTO-TMG tool.

For cables from Ø 16 to 60 mm (50 to 630 mm²).

Ref.	Length (mm)	Width (mm)	Height (mm)	Weight (g)
GFE-TMG	75	45	50	200



Medium voltage • Multifunction tools

Type of network: LV MV HV

K7/GRATT

SHEATH ABRASING BLOCK FOR ROTO-TMG TOOL

COMPATIBLE WITH C33-226, UTE C33-223, NFC33-223, HN33S23.

Use: The option K7/GRATT for ROTO-TMG tool enables the user the abrasion of the outer sheath of the cables in order to ensure watertightness of the accessories.

+ Circular scratching of the sheath to avoid water infiltration into accessories.

Technical specifications: Use with ROTO-TMG tool.
For cables from Ø16 to 60 mm (50 to 630 mm²).



Ref.	Length (mm)	Width (mm)	Height (mm)	Weight (g)
K7/GRATT	85	40	45	230

MF1+/25

MULTIFUNCTION TOOL FOR BONDED SEMICONDUCTOR

COMPATIBLE WITH C33-226, UTE C33-223, NFC33-223, HN33S23

Use: MF1+/25 is an adjustable multifunction tool which enables the user to remove the bonded semiconductor, leaving the required length of semicon cutback.

+ Low roughness over insulation.
Blade adjustment with notches of 1/10e mm.

Technical specifications: For cables from Ø 14 to 44 mm (25 to 240 mm²).
Remaining length of semiconductor : 25, 30, 40, 45 mm.
Optional stylus for more functions (SR, SRC, SCH).



Ref.	Length (mm)	Width (mm)	Height (mm)	Weight (g)
MF1+/25	190	85	125	750

Accessories:

SR	Adjustable stylus 4 positions incision
SRC	Adjustable stylus 4 positions incision with chamfer
SCH	Insulation chamfering stylus

MF2/40 - MF2/60

SHEATH AND INSULATION MULTIFUNCTION TOOLS

COMPATIBLE WITH C33-226, UTE C33-223, NF C 33-223, HN33S23.

Use: MF2/40 and MF2/60 are adjustable multifunction tools that allow :

- the removal PE-PVC-PR cable's outer sheath to the required length with a neat and straight cut
- the removal of EPR, XLPE cable's insulation to the required length with a neat and straight cut

+ Setting of the tool advance (shaving thickness).

Technical specifications: Fast disassembling handle.
MF2/40 for cables from Ø16 to 40mm (25 to 240mm²).
MF2/60 for cables from Ø16 to 58mm (25 to 630mm²).



Ref.	Length (mm)	Width (mm)	Height (mm)	Weight (kg)
MF2/40	150	80	100	1.240
MF2/60	170	90	120	1.400



MF1+/60

MULTIFUNCTION TOOL FOR BONDED SEMICONDUCTOR

COMPATIBLE WITH C33-226, UTE C33-223, NF C 33-223, HN33S23

Use: MF1+/60 is an adjustable multifunction tool which enables the user to remove the bonded semiconductor, leaving the required length of semicon cutback.

- ⊕ Low roughness over insulation.
- Blade adjustment with notches of 1/10e mm.

Technical specifications: For cables from Ø 18 to 60 mm (50 to 630 mm²).

Remaining length of semiconductor : 30, 40, 45, 50, 55 mm.

Optional stylus for more functions (SR, SRC-D, SCH).

Ref.	Length (mm)	Width (mm)	Height (mm)	Weight (kg)
MF1+/60	305	105	100	1.100
Accessories:				
SR	Adjustable stylus 4 positions incision			
SRC-D	SRC Adjustable Stylus 4 positions incision with chamfer			
SCH	Insulation chamfering stylus			



SR

ADJUSTABLE SCORING STYLUS FOR PEELABLE SEMICONDUCTOR WITH STRAIGHT TRANSITION

COMPATIBLE POPY VINYL C33-226, UTE C33-223, NF C 33-223, HN33S23

Use: SR stylus for MF1+/25 and MF1+/60 enables the user to score the peelable semiconductor with a straight semicon cutback. 4 scoring depths:

0.4 mm / 0.7 mm / 0.9 mm / 1.1 mm

- ⊕ SR stylus can also be used with MF3/40, MF3/60 and MF1+ tools.

Technical specifications: Use with MF1+/25 and MF1+/60 tools.

Simple setting with only 4 positions.

Ref.	Length (mm)	Width (mm)	Height (mm)	Weight (g)
SR	65	20	30	80



SRC

ADJUSTABLE SCORING STYLUS FOR PEELABLE SEMICONDUCTOR WITH CHAMFERED TRANSITION

COMPATIBLE WITH POPY VINYL C33-226, UTE C33-223, NF C 33-223, HN33S23

Use: SRC stylus for MF1+/25 and MF1+/60 enables the user to score the peelable semiconductor with a chamfered semicon cutback.

4 scoring depths : 0.4 mm / 0.7 mm / 0.9 mm / 1.1 mm

- ⊕ Can also be used with MF3/40 and MF3/60 tools.

Technical specifications: Use with MF1+/25 tool.

Simple setting with only 4 positions.

Ref.	Length (mm)	Width (mm)	Height (mm)	Weight (g)
SRC	70	20	30	110

Medium voltage • Multifunction tools

Type of network: LV  MV  HV 

New!

SRC-D

ADJUSTABLE SCORING STYLUS FOR PEELABLE SEMICONDUCTOR WITH CHAMFERED TRANSITION

COMPATIBLE WITH POPY VINYL C33-226, UTE C33-223, NFC C 33-223, HN33S23

Use:

SRC-D stylus for MF1+ and MF1+/60 tools enables the user to cut peelable semiconductor by performing a chamfer on the semicon cutback.

Technical specifications:

Use with MF1+ and MF1+/60 tools.
Simple setting with only 4 positions.



Ref.	Length (mm)	Width (mm)	Height (mm)	Weight (g)
SRC-D	70	20	30	110

SCH

INSULATION CHAMFERING STYLUS

COMPATIBLE WITH C33-226, UTE C33-223, NF C 33-223, HN33S23.

Use: SCH stylus for MF1+/25 and MF1+/60 tools enables the user to perform a chamfer at the end of the insulation.

+ SCH can also be used with MF3/40, MF3/60 and MF1+ tools.

Technical specifications: Use with MF1+/25 and MF1+/60 tools.
No setting.



Ref.	Length (mm)	Width (mm)	Height (mm)	Weight (g)
SCH	65	20	30	60

MF3/40 - MF3/60

MULTIFUNCTION TOOLS FOR SHEATH, PEELABLE SEMICONDUCTOR AND INSULATION

COMPATIBLE WITH C33-226, UTE C33-223, NF C 33-223, HN33S23

Use: MF3/40 and MF3/60 are adjustable multifunction tools that allow :

- the removal PE-PVC-PR cable's outer sheath to the required length with a neat and straight cut
- to score and remove the peelable semiconductor with straight semicon cutback
- the removal of EPR, XLPE cable's insulation to the required length with a neat and straight cut

+ Setting of the tool advance (shaving thickness).

Technical specifications: Fast disassembling handle.

MF3/40 for cables from Ø 16 to 40 mm (25 to 240 mm²).

MF3/60 for cables from Ø16 to 58 mm (25 to 630 mm²).

Remaining length of semiconductor :

- 30, 40, 45 mm for MF3/40
- 30, 40, 45, 50, 55 mm for the MF3/60.

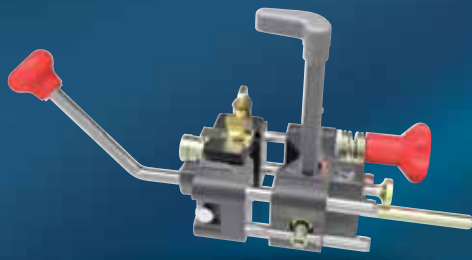
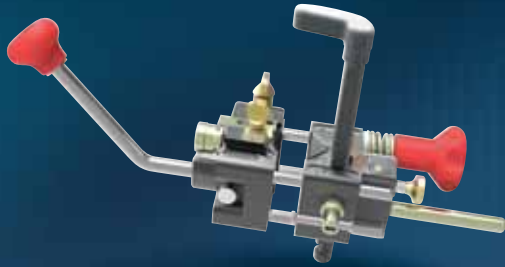


Ref.	Length (mm)	Width (mm)	Height (mm)	Weight (kg)
MF3/40	165	80	100	1.520
MF3/60	185	90	120	1.650

Accessories:

SCH	Insulation chamfering stylus
SRC	Adjustable stylus 4 positions incision with chamfer

New!



MF3/40-C - MF3/60-C

MULTIFUNCTION TOOLS FOR SHEATH, PEELABLE SEMICONDUCTOR WITH CHAMFER AND INSULATION

COMPATIBLE WITH C33-226, UTE C33-223, NF C 33-223, HN33S23

Use:

- MF3/40-C and MF3/60-C are adjustable multifunction tools that allow :
- the removal PE-PVC-PR cable's outer sheath to the required length with a neat and straight cut
 - to score and remove the peelable semiconductor with straight semicon cutback
 - the removal of EPR, XLPE cable's insulation to the required length with a neat and straight cut

⊕ Setting of the tool advance (shaving thickness).

Technical specifications:

Fast disassembling handle.

MF3/40-C for cables from Ø 16 to 40 mm (25 to 240 mm²).

MF3/60-C for cables from Ø16 to 58 mm (25 to 630 mm²).

Remaining length of semiconductor :

- 30, 40, 45 mm for MF3/40-C
- 30, 40, 45, 50, 55 mm for the MF3/60-C.

Ref.	Length (mm)	Width (mm)	Height (mm)	Weight (kg)
MF3/40-C	165	80	100	1,52
MF3/60-C	185	90	120	1,65

Accessories:				
SCH	Insulation chamfering stylus			



MF3/40-SR - MF3/60-SR

MULTIFUNCTION TOOLS FOR SHEATH, PEELABLE SEMICONDUCTOR AND STRONG THICKNESS INSULATION

Use: MF3/40-SR and MF3/60-SR are adjustable multifunction tools that allow :

- the removal PE-PVC-PR cable's outer sheath to the required length with a neat and straight cut
- to score and remove the peelable semiconductor with straight semicon cutback
- the removal of EPR, XLPE cable's insulation to the required length with a neat and straight cut

⊕ Setting of the tool advance (shaving thickness).

Technical specifications: Fast disassembling handle.

MF3/40-SR for cables from Ø 16 to 40 mm (25 to 240 mm²).

MF3/60-SR for cables from Ø16 to 58 mm (25 to 630 mm²).

Ref.	Length (mm)	Width (mm)	Height (mm)	Weight (kg)
MF3/40-SR	165	80	100	1.520
MF3/60-SR	185	90	120	1.650

Accessories:				
SCH	Insulation chamfering stylus			



Medium voltage • Non peelable semiconductor

Type of network: LV MV HV

New!

CWB/18-60

BONDED SEMICONDUCTOR SHAVING TOOL

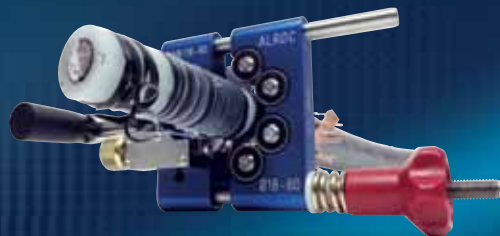
Use:

CWB/18-60 tool enables the user to remove the bonded semiconductor while making a chamfer in a clean and swift manner on the transition.

**+ Removal of the bonded semiconductor without requiring lubricant.
Very smooth finish on the insulation.**

Technical specifications:

Capacity : Ø 18 to 60 mm onto the semiconductor
Cutting depth : from 0.4 mm to 1.1 mm (1,8 mm max for CWB/18-60-FEP)
Chamfer angle : 8° (13° for CWB/18-60-FEP)
Remaining length of semiconductor : 25 / 30 / 40 mm



Ref.	Max cutting depth (mm)	Length (mm)	Width (mm)	Height (mm)	Weight (g)
CWB/18-60	1,1	235	125	90	850
CWB/18-60-FEP	1,8	235	125	90	850

GRI

SCRAPER FOR SEMICONDUCTOR RESIDUES

COMPATIBLE WITH NIKOL C33-226

Use: GRI scraper enables the user to remove external bonded semiconductor residue stayed on the cable insulation.

Technical specifications: Suitable for all diameters and sections.



Ref.	Length (mm)	Width (mm)	Height (mm)	Weight (g)
GRI	250	40	25	190

DSP

PEELABLE SEMICONDUCTOR LIFTER

Use: DSP tool enables the user to lift and grab the peelable semiconductor previously scored allowing its removal from the insulation.

Technical specifications: Suitable for all diameters and sections.



Ref.	Length (mm)	Width (mm)	Height (mm)	Weight (g)
DSP	108	35	35	130



TCD2000

DOUBLE CONE SHARPENER 2000/150²-240²

COMPATIBLE WITH C33-226, UTE C33-223.

Use: TCD2000 is designed to perform a cone on the insulation end of any MV cables.

Technical specifications: For cables 150 mm² and 240 mm² C33-226, UTE C33-223.

Pre-adjusted tool.

Cone length : 30 to 40 mm.

Ref.	Length (mm)	Width (mm)	Height (mm)	Weight (g)
TCD2000	200	90	70	610



TC50 - TC95 - TC150 - TC240 - TC630

CONE SHARPENERS

COMPATIBLE WITH NFC33-223, HN33S23

Use: TC tools are designed to perform a cone on the insulation end of any MV cables.

+ Special TC on request : any lengths and any sections available.

Technical specifications: For cable sections from 50 mm² to 630 mm² NFC33-223, HN33S23.

Pre-adjusted tool.

Cone length: 30 to 40 mm.

Ref.	Cable section	Length (mm)	Width (mm)	Height (mm)	Weight (g)
TC50	50 mm ²	190	60	70	500
TC95	95 mm ²	190	60	70	500
TC150	150 mm ²	190	60	70	500
TC240	240 mm ²	190	60	70	500
TC630	630 mm ²	205	70	70	500



BRMRD1E

INSULATION REMOVER 14 - 40 MM

Use: BRMRD1E tool cuts insulation from MV cables and allows to obtain an insulation straight cut with the BR stop.

+ Fast disassembling handle.

Technical specifications: BRMRD1E for cables from Ø 14 to 40 mm.

Ref.	Length (mm)	Width (mm)	Height (mm)	Weight (g)
BRMRD1E	260	60	55	380

Medium voltage • Insulation

Type of network: LV  MV  HV 

PINTEL4PI/465

PLIERS FOR IMPREGNATED PAPER CC 4,65 MM

Use: PINTEL4 PI/465 tool enables the user to perform a circular cut into phases of MV cable with impregnated paper insulation in order to remove the paper.

Technical specifications: PINTEL4PI/465 for cables from Ø 10 to 26 mm.
Penetration in circular cut : 4,65 mm.



Ref.	Length (mm)	Width (mm)	Height (mm)	Weight (g)
PINTEL4PI/465	260	60	55	380

Special cables - Outer sheath

PGO/CIR0911

OUTER SHEATH PLIERS 5-17 MM CC 0,9 LC 1,1

FOR ANY CABLES EXCEPT H07RNF

Use: PGO/CIR0911 pliers enable the user to perform a longitudinal and circular cut to remove the cable outer sheath.

 **Small claws on the end of the tool to strip connectors.**

Technical specifications: PGO/CIR0911 for cables from Ø 5 to 17 mm.
Penetration in circular cut : 0,9 mm.
Penetration in longitudinal cut : 1,1 mm.



Ref.	Length (mm)	Width (mm)	Height (mm)	Weight (g)
PGO/CIR0911	195	75	70	360

PINTEL4/CIR10

OUTER SHEATH PLIERS 10-28 MM CC 1.0 WITHOUT TRL

FOR ANY CABLES EXCEPT H07RNF

Use: PINTEL4/CIR10 pliers enable the user to perform a longitudinal and circular cut to remove the cable outer sheath.

 **Optional longitudinal head, quickly interchangeable.**
Small claws on the end of the tool to strip connectors.

Technical specifications: PINTEL4/CIR10 for cables from Ø10 to 30 mm.
Penetration in circular cut : 1 mm.
Pliers delivered without longitudinal head TRL.



Ref.	Length (mm)	Width (mm)	Height (mm)	Weight (g)
PINTEL4/CIR10	260	90	80	580



PRG3/CIR20

OUTER SHEATH PLIERS 28-52 MM CC 2.0 WITHOUT TRL

FOR ANY CABLES EXCEPT H07RNF

Use: PRG3/CIR20 pliers enable the user to perform a longitudinal and circular cut to remove the cable outer sheath.

+ Optional longitudinal head, quickly interchangeable.

Technical specifications: PRG3/CIR20 for cables from Ø 26 to 52 mm.

Penetration in circular cut : 2 mm.

Pliers delivered without longitudinal head TRL.

Ref.	Length (mm)	Width (mm)	Height (mm)	Weight (g)
PRG3/CIR20	270	100	80	630



TRL

LONGITUDINAL CUTTING HEAD 1 OR 3 PENETRATIONS

FOR ANY CABLES EXCEPT H07RNF.

Use: TRL heads are used with PINTEL4/CIR10 or PRG3/CIR20 tools to perform a longitudinal cut on cable outer sheath.

+ Interchangeable longitudinal head on CIR pliers.

Technical specifications: 1 penetration head on request, precise the desired penetration.

Ref.	Description	Dimensions (mm)	Weight (g)
TRL10	Longitudinal cutting head 1 penetration 1.0 mm	60 x 40 x 40 mm	60
TRL14	Longitudinal cutting head 1 penetration 1.4 mm	60 x 40 x 40 mm	60
TRL20	Longitudinal cutting head 1 penetration 2.0 mm	60 x 40 x 40 mm	60
TRL25	Longitudinal cutting head 1 penetration 2.5 mm	60 x 40 x 40 mm	60
TRL30	Longitudinal cutting head 1 penetration 3.0 mm	60 x 40 x 40 mm	60
TRL40	Longitudinal cutting head 1 penetration 4.0 mm	60 x 40 x 40 mm	60
TRL/10-12-14	Longitudinal cutting head 3 penetrations 1.0 / 1.2 / 1.4 mm	60 x 40 x 40 mm	60
TRL/10-15-20	Longitudinal cutting head 3 penetrations 1.0 / 1.5 / 2.0 mm	60 x 40 x 40 mm	60
TRL/16-18-20	Longitudinal cutting head 3 penetrations 1.6 / 1.8 / 2.0 mm	60 x 40 x 40 mm	60
TRL/20-24-28	Longitudinal cutting head 3 penetrations 2.0 / 2.4 / 2.8 mm	60 x 40 x 40 mm	60
TRL/24-28-32	Longitudinal cutting head 3 penetrations 2.4 / 2.8 / 3.2 mm	60 x 40 x 40 mm	60
TRL/26-28-32	Longitudinal cutting head 3 penetrations 2.6 / 2.8 / 3.2 mm	60 x 40 x 40 mm	60

Accessories:

PRG3/CIR20	Outer sheath pliers 28-52 mm CC 2.0 without TRL
PINTEL4/CIR10	Outer sheath pliers 10-28 mm CC 1.0 without TRL

CNPT/240-1-MV-NG

FULL CASE 50 MM² TO 240 MM² WITHOUT TC

COMPATIBLE WITH C33-226, UTE C33-223, NF C 33-223, HN33S23

Use: This case enables the user to prepare entirely cables from 50 mm² to 240 mm² without performing the cones at the end of the insulation.

 **New generation.**
Reduced size.

Technical specifications: CNPT/240-1-MV-NG case contains following tools:

- MF2/40 : Outer sheath and insulation cut
- MF1+/25 : Non peelable semiconductor removal
- SRC : For MF1+/25 tool, peelable semiconductor cut with a chamfer at the end
- SCH : For MF1+/25 tool, to perform a chamfer at the end of the insulation
- ALROC-FENTE : To perform splits on outer sheath
- ROTO-TMG : To maintain mechanical fitting connector and lugs
- GFE-TMG : For ROTO-TMG tool, tightening of the sheath and bending the sector-shaped conductor
- K7/GRATT : For ROTO-TMG tool, abrasion of the outer sheath
- EV/NPT : Spreading the sheath
- EV2000 150-240 : Flaring out the outer sheath
- EV150-240 : Flaring out the outer sheath
- GRI : Removing external bonded semiconductor residues
- P115 : To fix collars



Ref.	Length (mm)	Width (mm)	Height (mm)	Weight (kg)
CNPT/240-1-MV-NG	390	310	145	6,9

CNPT/240-2-MV-NG

FULL CASE 50 MM² TO 240 MM² WITH TC

COMPATIBLE WITH C33-226, UTE C 33-223, NF C 33-223, HN33S23

Use: CNPT/240-2-MV-NG tools enable the user to prepare entirely cables from 50 to 240 mm².

 **New generation.**

Technical specifications: CNPT/240-2-MV-NG case contains following tools:

- MF2/40 : Outer sheath and insulation cut
- MF1+/25 : Non peelable semiconductor removal
- SRC : For MF1+/25 tool, peelable semiconductor cut with a chamfer at the end
- SCH : For MF1+/25 tool, to perform a chamfer at the end of the insulation
- ALROC-FENTE : To perform splits on outer sheath
- ROTO-TMG : To maintain mechanical fitting connector and lugs
- GFE-TMG : For ROTO-TMG tool, tightening of the sheath and bending the sector-shaped conductor
- K7/GRATT : For ROTO-TMG tool, abrasion of the outer sheath
- EV/NPT : Spreading the sheath
- EV2000 150-240 : Flaring out the outer sheath
- EV150-240 : Flaring out the outer sheath
- GRI : Removing external bonded semiconductor residues
- P115 : To fix collars
- TC50, TC95, TC150, TC240, TCD2000 : Performing cones on the insulation



Ref.	Length (mm)	Width (mm)	Height (mm)	Weight (kg)
CNPT/240-2-MV-NG	575	470	145	11,8



CNPT/630-1-MV-NG

FULL CASE 50 MM² TO 630 MM² WITH TC630

COMPATIBLE WITH C33-226, UTE C33-223, NF C 33-223, HN33S23

Use: CNPT/630-1-MV-NG tools enable the user to prepare entirely cables from 50 to 630 mm².

 **New generation.**

Technical specifications: CNPT/630-1-MV-NG case contains the following tools:

- MF2/60 : Outer sheath and insulation cut
- MF1+/60 : Non peelable semiconductor removal
- SRC-D : For MF1+/60 tool, peelable semiconductor cut with a chamfer at the end
- SCH : For MF1+/60 tool, to perform a chamfer at the end of the insulation
- ALROC-FENTE : To perform splits on outer sheath
- ROTO-TMG : To maintain mechanical fitting connector and lugs
- GFE-TMG : For ROTO-TMG tool, tightening of the sheath and bending the sector-shaped conductor
- K7/GRATT : For ROTO-TMG tool, abrasion of the outer sheath
- EV/NPT : Spreading the sheath
- EV630 : Flaring out the outer sheath
- P115 : To fix collars
- T630 : Performing cones on the insulation

Ref.	Length (mm)	Width (mm)	Height (mm)	Weight (kg)
CNPT/630-1-MV-NG	575	470	145	10



CMV/240-1-NG

FULL CASE 50 MM² TO 240 MM² WITHOUT TC

Use: CMV/240-1-NG tools enables the user to prepare entirely cables from 50 to 240 mm² without performing a cone on the insulation end.

 **New generation.**
Reduced size.

Technical specifications: Identical tool case as CNPT/240-1-MV-NG with SR stylus (straight incision onto the peelable semi-conductor) instead of SRC stylus (peelable-semi conductor with chamfer).

CMV/240-1-NG case contains the following products :

- MF2/40 : Outer sheath and insulation cut
- MF1+/25 : Non peelable semiconductor removal
- SR : For MF1+/25 tool, straight incision onto the peelable semi-conductor
- SCH : For MF1+/25 tool, to perform a chamfer at the end of the insulation
- ALROC-FENTE : To perform splits on outer sheath
- ROTO-TMG : To maintain mechanical fitting connector and lugs
- GFE-TMG : For ROTO-TMG tool, tightening of the sheath and bending the sector-shaped conductor
- K7/GRATT : For ROTO-TMG tool, abrasion of the outer sheath
- EV/NPT : Spreading the sheath
- EV2000 150-240 : Flaring out the outer sheath
- EV150-240 : Flaring out the outer sheath
- GRI : Removing external bonded semiconductor residues
- P115 : To fix collars

Ref.	Length (mm)	Width (mm)	Height (mm)	Weight (kg)
CMV/240-1-NG	390	310	145	6,9

CMV/240-2-NG

FULL CASE 50 MM² TO 240 MM² WITH TC

Use: CMV/240-2-NG tools enable the user to prepare entirely cables from 50 to 240 mm² with performing cones at the insulation ends.

 **New generation.**

Technical specifications: Identical tool case as CNPT/240-2-MV-NG with SR stylus (straight incision onto the peelable semi-conductor) instead of SRC stylus (peelable-semi conductor with chamfer).

CMV/240-2-NG contains the following products :

- MF2/40 : Outer sheath and insulation cut
- MF1+/25 : Non peelable semiconductor removal
- SR : For MF1+/25 tool, straight incision onto the peelable semi-conductor
- SCH : For MF1+/25 tool, to perform a chamfer at the end of the insulation
- ALROC-FENTE : To perform splits on outer sheath
- ROTO-TMG : To maintain mechanical fitting connector and lugs
- GFE-TMG : For ROTO-TMG tool, tightening of the sheath and bending the sector-shaped conductor
- K7/GRATT : For ROTO-TMG tool, abrasion of the outer sheath
- EV/NPT : Spreading the sheath
- EV2000 150-240 : Flaring out the outer sheath
- EV150-240 : Flaring out the outer sheath
- GRI : Removing external bonded semiconductor residues
- P115 : To fix collars
- TC50, TC95, TC150, TC240, TCD2000 : Performing cones on the insulation



Ref.	Length (mm)	Width (mm)	Height (mm)	Weight (kg)
CMV/240-2-NG	575	470	145	11,8

CPM-TC223-NG

CONE SHARPENERS CASE 50 MM² TO 240 MM²

COMPATIBLE WITH C33-226, UTE C33-223, NF C 33-223, HN33S23.

Use: CPM-TC223-NG cone sharpeners enable the user to perform cones at the insulation ends onto cables from 50 mm² to 240 mm².

 **Ideal addition to CNPT/240-1-MV-NG case.**
Reduced size.

Technical specifications: CPM-TC223-NG contains the following products :

- TC50, TC95, TC150, TC240, TCD2000 : cone on the insulation end

CPM-TC223-NG contains empty storage space for tools : EV150-240 and EV2000 150-240.



Ref.	Length (mm)	Width (mm)	Height (mm)	Weight (kg)
CPM-TC223-NG	300	275	140	4,5



CKM-HTA

SELF MAINTENANCE KIT

COMPATIBLE WITH C33-226, UTE C33-223, NF C 33-223, HN33S23.

Use: CKM-HTA maintenance kit enables the user to change on site all the spare parts of the tool cases CNPT/240-2, CNPT/240-1-SCNP, CNPT/240-1-MV, CNPT/630-2, CNPT/630-1-SCNP, CNPT/630-1-MV.

+ Contains the spanners and tools for the disassembly / reassembly of spare parts.

Technical specifications: CKM-HTA kit contains the following products :

- LRTT x5 : Blade for sheath scratching (RTT2)
- LMF2 : Blade for sheath and insulation(MF3/40, MF3/60, MF2/40, MF2/60)
- LFE : Blade for splits on outer sheath (FENTECRAN/40, FENTECRAN/60))
- LS : Blade for incision of semiconductor (SR)
- kit MF3/40 : Wear pads (MF3/40, MF3/60, MF2/40, MF2/60)
- C-RTT : Tool for disassembly/reassembly of LRTT blades
- 3 mm Allen wrench
- C-SR : Wrench for SR stylus

Ref.	Length (mm)	Width (mm)	Height (mm)	Weight (g)
CKM-HTA	170	150	32	230



CKM-HTA-240-NG

SELF MAINTENANCE KIT FOR HTA 240 NG TOOL CASE

Use: CKM-HTA-240-NG maintenance kit enables the user to change on site all the spare parts of the tool cases CNPT/240-1-MV-NG and CNPT/240-2-MV-NG.

+ CKM-HTA-240-NG maintenance kit enables to change on site all the spare parts

Technical specifications: CKM-HTA-240-NG kit contains the following products :

- LRTT x2 : Blade for sheath scratching (K7/GRATT)
- LMF2 : Blade for sheath and insulation (MF2/40)
- LFE : Blade for splits on outer sheath (ALROC-FENTE)
- LS-C : Blade for incision of semiconductor with chamfer (SRC)
- kit MF3/40 x5 : Wear pads (MF2/40, MF3/40)
- C-RTT : Tools for disassembly/reassembly of K7/GRATT blades
- 065/3187 : 3 mm Allen wrench for LFE blade change
- C-SR : Wrench for stylus SR and SRC

Ref.	Length (mm)	Width (mm)	Weight (g)	Height (mm)
CKM-HTA-240-NG	170	150	300	32

CKM-HTA-630-NG

SELF MAINTENANCE KIT FOR HTA 630 NG CASE

Use: CKM-HTA-630-NG maintenance kit enables the user to change on site all the spare parts of the tool case CNPT/630-1-MV-NG.

+ CKM-HTA-630-NG maintenance kit enables allows to change on site all the spare parts of the tool cases

Technical specifications: CKM-HTA-630-NG kit contains the following products :

- LRTT x2 : Blade for sheath scratching (K7/GRATT)
- LMF2 : Blade for sheath and insulation (MF2/60)
- LFE : Blade for splits on outer sheath (ALROC-FENTE)
- LS-CD : Blade for incision of semiconductor with chamfer (SRC-D)
- kit MF3/40 x5 : Wear pads (MF2/60, MF3/60)
- C-RTT : Tools for disassembly/reassembly of k7/GRATT blades
- 065/3187 : 3 mm Allen wrench for LFE blade change
- C-SR : Wrench for stylus SR and SRC-D



Ref.	Length (mm)	Width (mm)	Height (mm)	Weight (g)
CKM-HTA-630-NG	170	150	32	300

CNPT/1200

FULL CASE FOR NPT CABLE 1200 MM²

COMPATIBLE WITH C33-226, NF C 33-223

Use: CNPT/1200 tools enable the user to prepare entirely cables with section equal to 1200 mm².

Technical specifications: CNPT/1200 case contains the following products :

- PRG4/C35-L40 : outer sheath cut and splits
- MF3/60 : incision onto the peelable semiconductor and straight cut of the insulation
- EV/NPT : Spreading the sheath
- LMF2 : Spare blade for MF3/60.

CNPT/1200 case contains empty space storage for tools EV630, P115, DSP, LHA/60 and TC1200.



Ref.	Length (mm)	Width (mm)	Height (mm)	Weight (kg)
CNPT/1200	575	470	145	6,5

CIR001

FULL CASE FOR CABLES PREPARATION

FOR ANY CABLES EXCEPT H07RNF

Use: CIR001 pliers and heads enable the user to remove the cables outer sheath.

+ Interchangeable longitudinal cutting head on CIR pliers.

Technical specifications: CIR001 case contains the following tools:

- PRG3/CIR20: Outer sheath cut fro cables from Ø 26 to 52 mm - CC 2 mm
- PINTEL4/CIR10: Outer sheath cut for cables from Ø 10 to 30 mm - CC 1 mm
- TRL/10-15-20: Longitudinal cutting head 3 penetrations 1.0 / 1.5 / 2.0 mm
- TRL/24-28-32: Longitudinal cutting head 3 penetrations 2.4 / 2.8 / 3.2 mm



Ref.	Length (mm)	Width (mm)	Height (mm)	Weight (kg)
CIR001	390	310	145	2,9



CMV/630-1-NG

FULL CASE 50 MM² TO 630 MM² WITH TC630

COMPATIBLE WITH C33-226, UTE C33-223, NF C 33-223, HN33S23.

Use: CMV/630-1-NG tools enable the user to prepare entirely cables from 50 to 630 mm².

Technical specifications: Identical tool case as CNPT/630-1-MV-NG with SR stylus (straight incision onto the peelable semiconductor) instead of SRC stylus (peelable semiconductor with chamfer).

CNPT/630-1-MV-NG case contains the following tools:

- MF2/60 : Outer sheath and insulation cut
- MF1+/60 : Non peelable semiconductor removal
- SRC-D : For MF1+/60 tool, straight incision onto the peelable semiconductor
- SCH : For MF1+/60 tool, to perform a chamfer at the end of the insulation
- ALROC-FENTE : To perform splits on outer sheath
- ROTO-TMG : To maintain mechanical fitting connector and lugs
- GFE-TMG : For ROTO-TMG tool, tightening of the sheath and bending the sector-shaped conductor
- K7/GRATT : For ROTO-TMG tool, abrasion of the outer sheath
- EV/NPT : Spreading the sheath
- EV630 : Flaring out the outer sheath
- P115 : To fix collars
- T630 : Performing cones on the insulation

Ref.	Length (mm)	Width (mm)	Height (mm)	Weight (kg)
CMV/630-1-NG	575	470	145	10



CMV-1

MIDDLE VOLTAGE CASE

FOR COPPER SHIELDED CABLES.

Use: CMV-1 case enables the user to prepare entirely cables from 50 to 240 mm² with performing a chamfer at the end of the insulation.

+ Reduced size.

Technical specifications: CMV-1 case contains the following tools:

- PRG3/2233: Sheath cut
 - MF1+/25: Non peelable semiconductor removal
 - BRMRD1E: Insulation cut
 - SCH: For MF1+/25 tool, to perform a chamfer at the end of the insulation
- CMV-1 case contains spaces to store the following tools: ROTO-TMG, K7-GRATT, SR and TRL.

Ref.	Length (mm)	Width (mm)	Height (mm)	Weight (kg)
CMV-1	390	310	145	5,5

CPV-ZA4

FULL CASE 50 MM² TO 240 MM² IMPROVED MECHANICAL PROTECTION FOR BURYING

COMPATIBLE WITH C33-226, UTE C33-223, NF C 33-223, HN33S23

Use: CPV-ZA4 case enables the user to prepare entirely cables from 50 to 240 mm² with Improved Mechanical Protection for Burying.

 Everything to strip the protective oversheath regardless the manufacturer.

Technical specifications: CPV-ZA4 case contains the following tools:

- OGEDR : Opening of the protective oversheath surrounding the 3 phases
- MF2/60 : Cutting of the protective oversheath surrounding a phase, outer sheath and insulation cut
- MF1+/25 : Non peelable semiconductor removal
- SR : For MF1+/25 tool, straight incision onto the peelable semiconductor.
- SCH : For MF1+/25 tool, to perform a chamfer at the end of the insulation
- ALROC-FENTE : To perform splits on outer sheath
- ROTO-TMG : To maintain mechanical fitting connector and lugs
- GFE-TMG : For ROTO-TMG tool, tightening of the sheath and bending the sector-shaped conductor
- K7/GRATT : For ROTO-TMG tool, abrasion of the outer sheath
- EV/NPT : Spreading the sheath
- P115 : To fix collars



Ref.	Length (mm)	Width (mm)	Height (mm)	Weight (kg)
CPV-ZA4	575	470	145	10

CPI-BT/HTA3

FULL CASE FOR LV/MV IMPREGNATED PAPER CABLES

Use: CPI-BT/HTA3 tools enable the user to prepare entirely LV and MV impregnated paper cables on disconnected networks.

Technical specifications: CPI-BT/HTA3 case contains the following tools:

- AGPB4 : Lead sheath removal
- SBA : Metal strip cut
- LSBA : Spare blades for SBA tool
- PINTE4PI/465 : Impregnated paper insulation cut
- AGPB3 : Lead sheath removal
- EVP : Flaring out lead sheath
- P115 : To fix collars
- C170 : Scissors
- EVG : Lead sheath spreader
- TP75 : Insulating Chisel
- CPI accessory kit : wooden mallet, metallic brush, wooden meter, string, pencil.



Ref.	Length (mm)	Width (mm)	Height (mm)	Weight (kg)
CPI-BT/HTA3	575	470	145	6,6



CMV-3F-P

3-FUNCTION MV CASE FOR PEELABLE SEMICONDUCTOR

Use: CMV-3F-P case contains the tools necessary to remove the outer sheath, cut the peelable semicon and strip the insulation of cables with diameter from 18 to 58 mm.

**+ Silicone-free tools.
Compact case.**

Technical specifications: CMV-3F-P case contains the following tools :

- MF3/60-C : Multifunction tool for sheath, peelable semiconductor with chamfer and insulation
- DSP : Peelable semiconductor removal

Ref.	Length (mm)	Width (mm)	Height (mm)	Weight (kg)
CMV-3F-P	300	275	140	3,2



CMV-3F-NP

3-FUNCTION MV CASE FOR NON-PEELABLE SEMICONDUCTOR

Use: CMV-3F-NP case contains the tools necessary to remove the outer sheath, work on the semicon and strip the insulation of cables with diameter from 18 to 58 mm.

An empty storage is included in order to complete the case with pliers PRG3.

**+ Silicone-free tools.
Compact case.**

Technical specifications: CMV-3F-NP case contains the following products :

- MF2/60 : Outer sheath and insulation cut
- CWB/18-60-FEP : Non-peelable semiconductor removal and performing a chamfer at the end of the insulation

Ref.	Length (mm)	Width (mm)	Height (mm)	Weight (kg)
CMV-3F-NP	390	310	145	4,1



CMV-3F-PGNP

3-FUNCTION MV CASE FOR NON-PEELABLE SEMICONDUCTOR

Use: CMV-3F-PGNP case contains the tools necessary to remove the outer sheath, work on the semicon and strip the insulation of cables with diameter from 18 to 58 mm.

**+ Silicone-free tools.
Compact case.**

Technical specifications: CMV-3F-PGNP case contains the following products :

- PRG4/C25-L283335 : Outer sheath cut
- CWB/18-60-FEP : Non-peelable semiconductor removal and performing a chamfer at the end of the insulation
- LH2 : Insulation removal

Ref.	Length (mm)	Width (mm)	Height (mm)	Weight (kg)
CMV-3F-PGNP	390	310	145	5,6

Medium voltage • Tool sets

Type of network: LV  MV  HV 

CMV-4F-PNP

4-FUNCTION MV CASE FOR PEELABLE AND NON-PEELABLE SEMICONDUCTOR

Use: CMV-4F-PNP case contains the tools necessary to remove the outer sheath, cut the peelable semicon, work the non-peelable semicon and strip the insulation of cables with diameter from 18 to 58 mm.

Empty storage spaces are included in order to complete the case with pliers PRG3 or with a insulation chamfering stylus.

+ Silicone-free tools.
Compact case.

Technical specifications: CMV-4F-PNP case contains the following products :

- MF3/60-C : Multifunction tool for sheath, peelable semiconductor with chamfer and insulation
- CWB/18-60-FEP : Non-peelable semiconductor removal and performing a chamfer at the end of the insulation
- DSP : Peelable semiconductor removal



Ref.	Length (mm)	Width (mm)	Height (mm)	Weight (kg)
CMV-4F-PNP	390	310	145	4,7

High voltage • Corrugated sheath

CTA/70-180

CORRUGATED SHEATH CUTTER Ø 70 - 180 MM

Use: CTA/70-180 tool enables the user to remove the outer sheath and the protective corrugated sheath of HV cables (and MV cables depending on the diameter tool capacity).

The tool performs a longitudinal cut and after a circular cut, both operations are done by milling.

+ Transition between longitudinal cut and circular cut done without removing the tool from the cable.
Easy adjustment of the cutting depth.
Allows to cut in the middle of the cable.

Technical specifications: For cables from Ø 70 to 180 mm.

Power supply 220V.

Delivered in a plastic case with a milling cutter.



Ref.	Length (mm)	Width (mm)	Height (mm)	Weight (kg)
CTA/70-180	330	170	360	9

Gas pipes • PE coated steel pipes

ATG5/DN50-150

PE SHEATH CUTTER FOR COATED STEEL PIPES

Use: ATG5/DN50-150 enables the user to remove the PE outer sheath of PE coated steel pipes for gas distribution.

+ Allows to work in the middle of the cable.
Reduced size.
No external source of heat nor flame needed.

Technical specifications: For pipes DN50 to DN150.



Ref.	Length (mm)	Width (mm)	Height (mm)	Weight (kg)
ATG5/DN50-150	392	260	103	6,5



SIGNAGE AND MARKING



SIGNAGE AND MARKING

SIGNAGE

Safety rules	430
First aid	430
Substation	431
Electrical hazards and earth identification	432
Mandatory signs	433
Fire extinguishers	433
Emergency exit	433

MARKING POWER STATIONS AND WORKING AREA

Warning meshes and markers	434
Rods	438
Bases	440
Barriers and railing	441
Danger signs - Safety signs	442
Chains and accessories	443
Ribbons	444
Temporary road signs	446

New!



S753ALNM

WARNING SIGN «WORK ON DISCONNECTED LINE - LOW VOLTAGE»

Use:

Reminder of the 5 safety rules for working on low voltage disconnected lines.

Technical specifications:

Aluminium sign.

White background.

6 holes Ø 4,5 mm, fixing spaces: 480 x 330 mm.

Ref.	Language	Dimensions (mm)	Weight (g)
S753ALNM-GB	English	500 x 350	500
S753ALNM-AR	Arabic	500 x 350	500
S753ALNM	French	500 x 350	500

New!



S754ALNM

WARNING SIGN «WORK ON DISCONNECTED LINE - HIGH VOLTAGE»

Use:

Reminder of the safety rules for working on High Voltage disconnected lines.

Technical specifications:

Aluminium sign.

White background.

6 holes Ø 4,5 mm, fixing spaces: 480 x 330 mm.

Ref.	Language	Dimensions (mm)	Weight (g)
S754ALNM-GB	English	500 x 350	500
S754ALNM-AR	Arabic	500 x 350	500
S754ALNM	French	500 x 350	500

First aid



S80A

ELECTRIC SHOCK FIRST AID SIGN

Technical specifications: Aluminium or adhesive sign.

Ref.	Language	Material	Dimensions (mm)	Weight (g)
S80ALGB 210	English	Aluminium	210 x 297	180
S80AL AF20BPM	French	Aluminium	210 x 297	180
S80ALGB 350	English	Aluminium	350 x 500	500
S80AL AF20BGM	French	Aluminium	350 x 500	500
S80A AF20BPM	French	Adhesive	210 x 297	16
S80ALFGB 350	French/English	Aluminium	350 x 500	500
S80ALFAR 350	French/Arabic	Aluminium	350 x 500	500
S80ALGBAR 350	English/Arabic	Aluminium	350 x 500	500
S80ALFP 350	French/Portuguese	Aluminium	350 x 500	500

New!

S80ALPAS

SUBSTATION SIGN - RESPONDING TO AN ELECTRICAL ACCIDENT

ACCORDING TO NFC 18-510 AND EMERGENCY RESPONSE PRINCIPLES

Use:

This sign indicates the emergency measures in the event of an accident related to electrical risks.

Technical specifications:

Made in aluminium.

6 holes.



Ref.	Language	Dimensions (mm)
S8ALPAS-GB	English	350 x 500
S8ALPAS-AR	Arabic	350 x 500
S80ALPAS-FR	French	350 x 500

S750AL

ALUMINIUM SIGN «DANGER - NO ENTRY - ELECTRICAL STATION»

Technical specifications: Aluminium sign.

4 holes Ø 4,5 mm, interaxial distance 185 x 135 mm.



Ref.	Language	Dimensions (mm)	Weight (g)
S750ALGB	English	200 x 150	85
S750AL	French	200 x 150	85

S724

ADHESIVE SIGN - DO NOT CLIMB ON POWER TRANSFORMER

Technical specifications: Adhesive sign.



Ref.	Diameter (mm)
S724	200



S81 - S72 - S73 - S74

ELECTRICAL HAZARD WARNING SIGNS AND EARTH SIGNS

Technical specifications: Triangular sign with 3 holes Ø 4.5 mm
 Interaxial distance : 80 mm for the 100 mm model.
 Interaxial distance : 180 mm for the 200 mm model.

Ref.	Symbol	Material	Diameter (mm)
S81AL T10 100	Lightning T10	Aluminium	100
S81 T10 100	Lightning T10	Plastic	100
S81AL T10 200	LightningT10	Aluminium	200
S81 T10 200	Lightning T10	Plastic	200
S81A T10 50	Lightning T10	Adhesive	50
S81A T10 100	Lightning T10	Adhesive	100
S81A T10 200	Lightning T10	Adhesive	200
S728AL 100	Electrocuted man	Aluminium	100
S728AL 200	Electrocuted man	Aluminium	200
S728	Electrocuted man	Plastic	100
S728A 050	Electrocuted man	Adhesive	50
S728A 100	Electrocuted man	Adhesive	100
S81TGB EARTH	Earth	Plastic	100
S81ALTGB EART	Earth	Aluminium	100
S734AGB EARTH	Earth	Adhesive	100
S81ALTGB GING	Grounding	Aluminium	100
S81TGB GRDING	Grounding	Plastic	100
S734AGB GDING	Grounding	Adhesive	100
S81ALTGB GROU	Ground	Aluminium	100
S81TGB GROUND	Ground	Plastic	100
S734AGB GROUN	Ground	Adhesive	100
S81ALTNGB GED	Grounded for neutral	Aluminium	100
S81TNGB GRED	Grounded for neutral	Plastic	100
S736AGB GRDED	Grounded for neutral	Adhesive	100
S81ALTNGB GND	Ground for neutral	Aluminium	100
S81TNGB GROUN	Ground for neutral	Plastic	100
S736AGB GROUN	Ground for neutral	Adhesive	100
S81ALTMGB	Ground frame	Aluminium	100
S81TMGB	Ground frame	Plastic	100
S735AGB	Ground frame	Adhesive	100



S749AL

GROUND INDICATION SIGN

Technical specifications: Aluminium sig
 4 holes Ø 4,5 mm, interaxial distance 185 x 135 mm.

Ref.	Dimensions (mm)
S749ALGB	200 x 150

Signage • Mandatory signs

Type of network: LV  MV  HV 

S87

MANDATORY SAFETY SIGNS

Technical specifications: Plastic or adhesive sign.



Ref.	Symbol	Material	Diameter (cm)
S87 01	Wear hard hat	Plastic	30
S637A 60	Wear hard hat	Adhesive	6
S637A 80	Wear hard hat	Adhesive	8
S87 02	Wear ear protection	Plastic	30
S506A 60	Wear ear protection	Adhesive	6
S506A 80	Wear ear protection	Adhesive	8
S87 03	Wear respiratory protection	Plastic	30
S638A 60	Wear respiratory protection	Adhesive	6
S638A 80	Wear respiratory protection	Adhesive	8
S87 04	Wear eye protection	Plastic	30
S639 A60	Wear eye protection	Adhesive	6
S639 A80	Wear eye protection	Adhesive	8
S87 05	Wear hand protection	Plastic	30
S640 A60	Wear hand protection	Adhesive	6
S640 A80	Wear hand protection	Adhesive	8
S87 06	Wear safety footwear	Plastic	30
S641 A60	Wear safety footwear	Adhesive	6
S641 A80	Wear safety footwear	Adhesive	8
S87 07	Wear safety harness	Plastic	30
S642A 60	Wear safety harness	Adhesive	6
S642A 80	Wear safety harness	Adhesive	8

Fire extinguisher

S350 6 - S675

FIRE EXTINGUISHER SIGN

Technical specifications: Adhesive or plastic sign.



Ref.	Description	Dimensions (mm)
S350 6	Plastic sign	255 x 210
S675	Adhesive sign	250 x 210

Emergency exit

S713

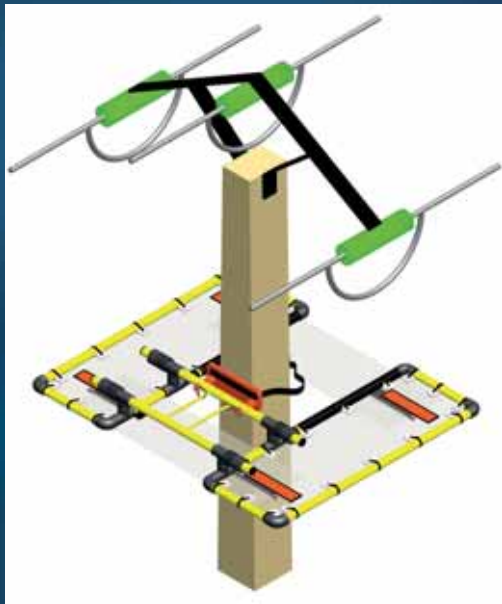
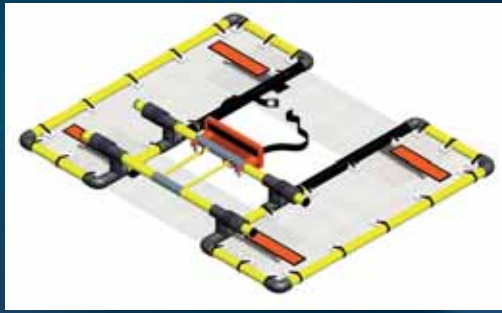
EMERGENCY EXIT SIGN, FRAME + ARROW

Technical specifications: Adhesive sign.

Colours : green and white.



Ref.	Dimensions (mm)
S713	210 x 210



Innovation !

ELISOL

MARKING OF THE MINIMUM APPROACH DISTANCE

Use:

Material demarcation of the working area during operations on power poles.

⊕ Operator safety is guaranteed :

- The vicinity zone is marked with insulated frames covered with wire mesh which eases the respect of the distances.
- After the installation has been completed, the permanent surveillance from the ground is not compulsory (even if strongly advised).

Flexibility : adapt itself to all poles

- The 2 frames covered with wire mesh slide to adapt themselves to all types and diameters of poles.
- Two additional insulated wire meshes can be set up with Velcro closures to close gaps between the frames.

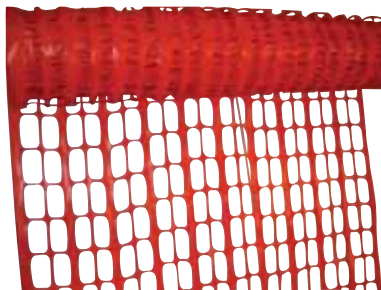
Reliability : long-lasting on construction site.

Based on a well proven technology for high Voltage, the components of this boundary marker are designed to deal with mechanical and electrical stress.

Technical specifications:

Minimum Approach Distance(from live parts) = 0,50 U(kV) +0,50m

Ref.	Dimensions panneau (m)	Poids d'un panneau (kg)
ELISOL	1 x 0,30	2,1



S04B1

ORANGE WARNING MESH FOR WORK

Use: Allows to delimit efficiently the work zone.

Impassable and visible barrier.

⊕ Light and economic.

Technical specifications: Material : polypropylene and anti-UV material.

Ref.	Dimensions	Poids (g/m²)
S04B1	50 x 1,2 m (L x H)	150

Accessories:

XE9107	Fixing pole in straightened aluminium
XE9064	Spare sign «Zone de travail» («Working zone» in French)

Marking power stations and working areas • Warning meshes

Type of network: LV  MV  HV 

XE9

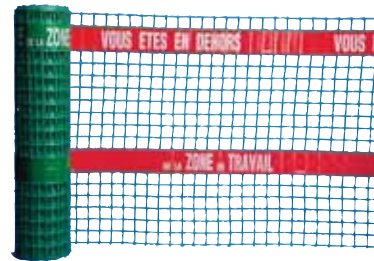
MESH

Use: To identify the working zone.

Technical specifications: Mesh with no marking.

Square stitches 50 x 50 mm in P.E.H.D.

Possibility to mark the mesh (in any languages), please contact us.



Ref.	Colour	Type	Length (m)	Height (m)
XE9061J	Yellow	Stiff	20	1,20
XE9093V	Green	Stiff	20	1,20
XE9093R	Red	Stiff	20	1,20

XE9072C

ROPE FOR WARNING MESH

Technical specifications: Rope : Ø 6 mm.

Supplied with 21 steel pins.



Ref.	Length (m)	Weight (g)
XE9072C	25	540

XE9105

TENNIS TYPE MESH WITH MARKING

Technical specifications: Printed on one side «Limite de la zone de travail - Ne pas franchir» (« Do not cross, working zone limit» in French).

1 red fluorescent strip : 80 mm

Stitch: 40 mm.

Delivered with PGM handle.



Ref.	Colour	Dimensions	Weight (kg)
XE9105	Yellow	20 x 1,2 m	3,62
XE9105V	Green	20 x 1,2 m	3,62

EPFIPE

EXTRA LARGE SAFETY PIN FOR WARNING MESH

Technical specifications: Transport/storage pin for warning mesh.

Made in stainless steel Ø 4 mm.



Ref.	Dimensions (mm)	Weight (g)
EPFIPE	275 x 66	60



XE9076

MARKING CONE OF ACCESS TO THE PROTECTED AREA

⊕ Both base and cone can be taken apart.
Base made in recyclable material.

Technical specifications: Marked on both sides «Entrée» («Entrance» in French).

Made in polyethylene, colour green.

Reinforced rubber base (50 x 50 cm)

Height: 1 m.

Marking available in other languages on request.

Ref.	Dimensions (mm)	Weight (kg)
XE9076	1055 x 560 x 560	10,42



XE9063B

SET OF 2 BOLLARDS OF ACCESS TO THE PROTECTED AREA

Technical specifications: Made in PVC.

Carry handle.

Markings : «Entrée» - «Zone de travail» («Entrance» - «Working zone» in French)

Marking available in other languages on request.

Ref.	Description	Weight (kg)
XE9063B	Set of 2 bollards of access to the protected area	36,1
Contents:		
XE9142U	Set of 2 PVC bollards (with base)	
XE9107	Fixing pole in straightened aluminium	
XE9070	Base for rod	
XE9064	Spare sign «Zone de travail» («Working zone» in French)	



XE9060

UNWINDING TROLLEY

Technical specifications: Tubular steel frame.

Large diameter wheels.

Capacity max: 60 m.

Ref.	Dimensions (mm)	Weight (kg)
XE9060	1550 x 1000 x 700	36



XE9068

HANDLE FOR MESH CLAMPS

Technical specifications: Painted steel.

Ref.	Dimensions (mm)	Weight (g)
XE9068	430 x 120 x 10	640

Marking power stations and working areas • Warning meshes

Type of network: LV  MV  HV 

EDF M

INSULATED FRAME TO DELIMIT THE WORKING ZONE

Technical specifications: Made in cylindrical polyethylene tubes with a banner «Electrocuted man».

Colour : black.

Rotating clamp with stainless steel collar.



Ref.	Dimensions (mm)	Weight (kg)
EDF M	560 x 560	1,5

XE9066

CLAMP

Use: To hang the mesh.



Ref.	Dimensions (mm)	Weight (g)
XE9066	115 x 90 x 25	420

XE9067

CLAMP

Use: To suspend the mesh.



Ref.	Dimensions (mm)	Weight (g)
XE9067	260 x 105 x 70	500

S126AR

DETECTION MESH FOR BURIED CABLES

EN 12613

Use: Signalling buried cables.

+ One-piece unit, high mechanical resistance.
Stainless steel wire detectable with on surface locating equipment.

Technical specifications: Meshing : 85 x 85 mm.

Red colour for electricity.



Ref.	Diameter (cm)	Width (cm)	Length (m)	Weight (kg)
S126AR	23	30	100	2,45



XE9107

FIXATION ROD

Technical specifications: Made in aluminium.
4 hooks and 1 eyelet.
To be fixed on XE9070.

Ref.	Diameter (mm)	Length (m)	Weight (g)
XE9107	Aluminium Ø 25	1,37	820

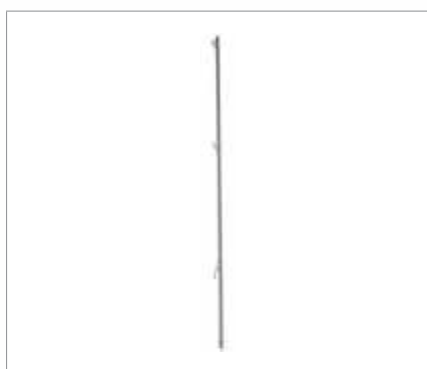


XE9062

FIXATION ROD WITH PENETRATION TIP

Technical specifications: Steel rod.

Ref.	Diameter (mm)	Length (m)	Weight (kg)
XE9062	Steel Ø 25	1,5	1,94

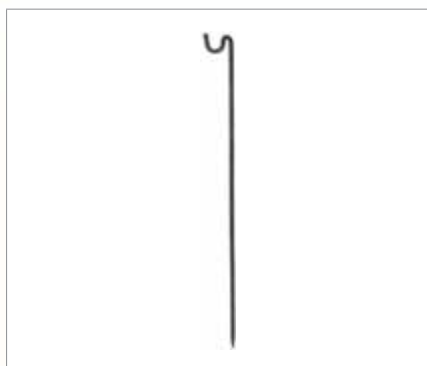


S168

FIXATION ROD

Technical specifications: Steel rod with 3 hooks to maintain the mesh.
It is recommended to place a rod every 3 metres.

Ref.	Diameter (mm)	Length (m)	Weight (kg)
S168	Steel Ø 16	1,3	2,06



F05

ROD

Use: Rod with hook on top to suspend chains, ropes, road marking ribbons, lanterns or to maintain demarcation nets.

Technical specifications: Steel rod.

Ref.	Diameter (mm)	Length (m)	Weight (kg)
F05	Steel Ø 14	1,3	1,7

Marking power stations and working areas • Rods

Type of network: LV  MV  HV 

FTPICLO

FIXATION ROD

Use: Rod with hook on top to suspend chains, ropes, road marking ribbons, lanterns or to maintain demarcation nets.

Technical specifications: Painted steel rod.
Protection rod for fence with U and 14 mm loop.



Ref.	Diameter (mm)	Length (m)	Weight (kg)
FTPICLO	Steel Ø 18	1,5	3,32

F06

FIXATION ROD

Use: Rod with hook on top to suspend chains, ropes, road marking ribbons, lanterns or to maintain demarcation nets or fences.

Technical specifications: Painted steel rod with hook on top.



Ref.	Diameter (mm)	Length (m)	Weight (kg)
F06	Steel Ø 16	1,2	2,8

F10

FIXATION ROD WITH METAL BASE

Use: Rod with hook on top to suspend chains, ropes, road marking ribbons, lanterns or to maintain demarcation nets.

Technical specifications: Painted steel rod with a hook on top.
To be placed on the ground, base diameter : 375 mm.



Ref.	Diameter (mm)	Length (m)	Weight (kg)
F10	Steel Ø 16	1	4,2

XE9075P

PLASTIC BASE FOR ROD

Use: Able to receive 2 types of fixation rods:

- 21,3 x 2 mm,
- 20 to 28 mm.

Can be used with rod ref. XE9107.

Technical specifications: Made in high density Polyethylene, unalterable and rot-proof, with square head having a height of 10 x 10 cm.
Removable cap on top with Ø 26 mm hole.



Ref.	Overall height (cm)	Weight (g)
XE9075P	40	480



S503

CONCRETE BASE

⊕ Self-locking device allowing the 2 elements of the base to become monoblock. Rod made in galvanised steel with an adjustable deployable anchorage depending on the field structure.

Technical specifications: Made in polyquartz.

Base : 170 mm, length 500 mm
 Anchorage: Ø 26,9 x 2,3 mm in steel.
 Wire: Ø 16 mm in steel A60.

Ref.	Description	Base dimensions (mm)	Weight (kg)
S503J	Yellow concrete base for gas	155 x 95 x 95	5,5
S503R	Red concrete base for electricity	155 x 95 x 95	5,5



S504

CONCRETE BASE

Technical specifications: Made in polyquartz. Height 300 mm.

Base : 130 x 130 mm, anchorage length 500 mm
 Anchorage: Ø 26,9 x 2,3 mm in steel.
 Wire: Ø 16 mm in steel A60.

Ref.	Base dimensions (mm)	Weight (kg)
S504J	295 x 125 x 125	11
S504R	295 x 125 x 125	11



XE9070

BASE FOR ROD

Use: To maintain the rods on concrete ground.

Technical specifications: Equipped with a carrying handle.

Ref.	Dimensions (mm)	Weight (kg)
XE9070	400 x 300 x 105	6,64

Barriers and railings

Type of network: LV  MV  HV 

S100N

EXPANDABLE BARRIER

Technical specifications: Expandable barrier made in steel with polyester powder coating.
Non reflective.



Ref.	Height (m)	Length (m)	Extended length (m)	Dimensions (mm)	Weight (kg)
S100N	1	0,3	4	770 x 420 x 1250	15,3

S95

SAFEGUARD

Technical specifications: Folding barrier made of steel, non reflective.
Expandable up to 1,30 x 1,30 m.



Ref.	Height (m)	Dimensions (mm)	Weight (kg)
S95	1,2	1200 x 200 x 200	13,52

FTGAFOU

SAFEGUARD

Use: Barrier to protect and signal holes in the ground.

Technical specifications: Folding barrier made of aluminium with a leather belt.
Colours : red and white.



Ref.	Dimensions dépliée (mm)	Weight (kg)
FTGAFOU	965 x 965 x 900	6,8



S120F

GREEN WARNING FLAG - ELECTRICAL HAZARD

Technical specifications: Made in nylon coated fabric with a string.

Symbol : man electrocuted.

Colours : green background, white symbol.

Ref.	Dimensions (mm)	Weight (g)
S120F	500 x 350	130



S120D - S120E

RED WARNING FLAG - ELECTRICAL HAZARD

Technical specifications: Made in vinyl coated fabric, printed on both sides.

Symbol : man electrocuted, and for model S120GDB : Danger of death

Colours : red background, white symbol.

Markings available in other languages on request.

Ref.	Description	Dimensions (mm)	Weight (g)
S120DGB	Horizontal flag with flagpole, height 70 mm	600 x 350	210
S120E	Vertical flag with horizontal flagpole	500 x 350	130
S120ESH	Vertical flag without flagpole	500 x 350	80



S85

DANGER BANNERS

Technical specifications: Made in coated fabric with 2 attachment straps and 4 eyelets.

Colours : red background, white text.

Ref.	Marking	Dimensions (m)	Weight (g)
S85GBA	Danger of death	1 x 0,2	95
S85GBB	Installation under voltage - Danger of death	1 x 0,2	95
S85GBC	Protected area boundary - No entry	1 x 0,2	95
S85GBC1	Working area boundary - No entry	1 x 0,2	95

Chains and accessories

Type of network: LV  MV  HV 

S115

PLASTIC CHAIN

Technical specifications: Two colours (red and white), resistant, anti-UV, delivered in bag of 25 m.
Other colours available on request.



Ref.	Diameter (mm)	Weight (g)
S115C6	6	1750
S115C8	8	2650

Accessories:

S115A6	Broken link white or red (to be mentioned) to repair or hang on a chain
S115A8	Broken link white or red (to be mentioned) to repair or hang on a chain

S115SP

POST ON BASE FOR PLASTIC CHAINS

Use: Idéal pour réaliser une délimitation en extérieur avec un large socle qui se leste facilement de sable, gravier ou béton.

Technical specifications: Base and tube in plastic.

Height : 90 cm.

Post diameter : 50 mm.

Base diameter : 50 cm.

Post with 2 hooks to suspend chain.

Colour : white.

Supplied without chain.



Ref.	Dimensions
S115SP	900 x 50 (H x Ø)

S115SPP

POST ON BASE FOR PLASTIC CHAINS

Use: Designed to suspend chains.

Locking device allows to block the post in two different positions.

+ Functional and stable.
Space saver.

Technical specifications: Photoluminescent PVC post.

Post diameter : Ø 50 mm.

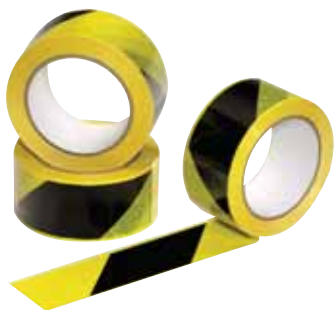
Height : 900 mm.

Base : 280 x 280 x 70 mm.

Weight of the base : 4 kg.



Ref.	Colour	Dimensions
S115SPPR	Red and white	1090 x 300 x 90 mm
S115SPPJ	Black and yellow	1090 x 300 x 90 mm



S174JN

SAFETY ADHESIVE TAPE

Use: Marking the premises.

Technical specifications: Black and yellow stripes.

Ref.	Length (m)	Width (mm)	Dimensions (mm)	Weight (g)
S174JN	66	50	110 x 110 x 52	290



S174 50MM

SAFETY ADHESIVE TAPE

Technical specifications: Red and white stripes, thickness 3/10e.

Ref.	Length (m)	Width (mm)	Dimensions (mm)	Weight (g)
S174 50MM	100	50	105 x 105 x 50	180



S208

RUBAN DE SIGNALISATION DE CHANTIER EN PLASTIQUE

Technical specifications: Pavés rouges et blancs épaisseur 8/10e.

Conditionné en carton dévidoir.

Ref.	Length (m)	Width (mm)	Weight (kg)
S208	500	80	1,3



S175JRNG

REFLECTIVE SAFETY TAPE

Technical specifications: 1 side : yellow fluorescent with a 10 mm retro reflective band : « grey class B ». 1 side : red fluorescent.

Ref.	Length (m)	Width (mm)	Weight (g)
S175JRNG	50	50	600

Ribbons

Type of network: LV  MV  HV 

S67

ADHESIVE SAFETY TAPE 100 M

Technical specifications: Text : «Installation sous tension - Danger de mort» («Installation under voltage - Danger of death» in French).

Symbol : man electrocuted.

Marking available in other languages under request.



Ref.	Length (m)	Width (mm)	Dimensions (mm)	Weight (g)
S67	100	50	112 x 112 x 50	240

S170 - S170S

DEMARCATON TAPE IN COATED FABRIC

Technical specifications: Red tape for marking the working area type G.

Fitted at the end with D ring.

Tape S170 is rolled on pay-out reel ref. T04 (not supplied).



Ref.	Description	Width (mm)	Length (m)	Weight (g)
S170 10	Tape with D-ring	50	10	170
S170 20	Tape with D-ring	50	20	360
S170S 20	Tape with D-ring and a snap ring	50	20	360
S170T2	Tape ref.S170 20 on reel ref.T04	50	20	1090

T04

METALLIC REEL TYPE H

Technical specifications: Reel fitted with a pin for blocking the flanges and a spring with snap fastener for the tape D ring.

Delivered without tape.



Ref.	Dimensions (mm)	Weight (g)
T04	220 x 150 x 115	740



S240ENT - S242ENT

TRAFFIC CONES K5A-TYPE

Technical specifications: One piece injected PVC orange fluorescent colour.

Ref.	Bandes	Height (cm)	Weight (kg)
S240ENT 500	White	50	1,3
S240ENT 750	White	75	4,3
S240ENT 1000	White	100	7
S242ENT 500	Prismatic	50	1,3

Fabric panels



S153

REMOVABLE PANEL IN RETRO REFELCTIVE FABRIC

Technical specifications: 5 steel eyelets.

Class T1.

Supplied without tripod.

Ref.	Symbol	Dim. (mm)
S153 AK3 100	Road narrows	950 x 35 x 35
S153 AK5 100	Working area	950 x 35 x 35
S153 AK14 100	Specific danger	950 x 35 x 35

Accessories:

S152 100	Tripod, height 1 m
-----------------	--------------------



S152

TRIPOD

Technical specifications: Folding tripod with a fixed hook on top and four straps to fix a rope panel.

Delivered without cover (ref. S154 100)

Ref.	Description	Dimensions replié
S152 100	Tripod, height 1 m	1230 x 95 x 90 mm

Accessories:

S222	Weight of 5 kg
S154 100	Soft cover for tripod S152 100

Temporary road signs • Steel panels

Type of network: LV  MV  HV 

S200

RETRO REFLECTIVE STEEL TRIANGULAR SIGNS, TYPE AK CLASS I

XP P98-540 / XP P98-541

Technical specifications: Galvanized steel, thickness 9/10e with riveted metallic base.



Ref.	Symbol	Type	Height (m)	Weight (kg)
S200AK3 1M	Road narrows	Class 1	1	5
S200AK5 1M	Working area	Class 1	1	5
S200 AK14 1M	Specific danger	Class 1	1	5

Accessories

S270

RETRO REFLECTIVE PICKET K5B

Use: Double sided picket.



Ref.	Type	Dimensions (mm)	Weight (kg)
S270 CL1	Class 1	1 120 x 210 x 150	2
S270 CL2	Class 2	1 120 x 210 x 150	2

FTFAK1

K1 TYPE FLAG

Use: Working equipment

Technical specifications: Fluorescent k1-type fabric flag with stiffener and wooden flagpole.



Ref.	Fanion	Hampe	Weight (g)
FTFAK1	500 x 400 mm	1 m	300



LOCKOUT - TAGOUT



LOCKOUT - TAGOUT

PADLOCKS

Padlocks- Keyed alike	450
Padlocks - Keyed different	451
Other padlocks and accessories.	453
Lockout hasps	456

MULTIPLE LOCKOUT DEVICES

Adjustable lockout cables.	457
LV circuit breaker lockouts	458
Electrical plug lockouts.	460
Valve lockouts	461

LOCKOUT TAGS

Lockout tags	463
------------------------	-----

Keying Terms

KA = KEYED ALIKE

All padlocks in the set are opened by the same key. This option provides "same key" convenience and eliminates the need for multiple keys where numerous padlocks are used.



KA

KD = KEYED TO DIFFER

Each lock is opened by its own unique key that does not open any other lock in the set.



KD

MK = MASTER KEY

In a Master Keyed system, a master key opens all the locks in the system although each lock also has its own unique key. This permits organizing master key systems along departmental or other functional lines to allow supervisory or emergency access.



MK



Brass padlocks

Technical specifications: Brass body, delivered with 2 keys.
Model C16D is labelled with lockout stickers.

Ref.	Shackle	Shackle height (mm)	Dimensions (mm)	Weight (g)
C10	Hardened steel Ø 5 mm	20	55 x 35 x 20	105
C12	Hardened steel Ø 7 mm	26	70 x 45 x 10	180
C16D	Brass Ø 7 mm	60	105 x 45 x 10	230



Composite body padlocks

⊕ For models with composite shackle: all components are non conductive (body and shackle) for dielectric protection.
4,76 mm diameter shackle fits more applications.

Technical specifications: Composite body padlock, colour : orange.
Chemicals resistant, corrosion resistant, UV-stable padlock, withstands extreme temperatures.
Key retaining-ensures that padlock is not left unlocked.

Supplied with a set of padlock labels «Danger» and «Locked out» in English, Arabic, French and Spanish.
Delivered with 1 key.

Ref.	Body width (mm)	Body height (mm)	Shackle	Shackle height (mm)	Weight (g)
C406V	38	44	Composite Ø 6 mm	38	72
C410V	38	44	Steel Ø 6 mm	38	108
C410VLT	38	44	Steel Ø 6 mm	76	128
C411V	38	76	Steel Ø 6 mm	38	105
C411VLT	38	76	Steel Ø 6 mm	76	125
C412V	35	48	Composite Ø 4,76 mm	38	70
C31V	35	48	Steel Ø 6 mm	38	75
C31VLT	35	48	Steel Ø 6 mm	76	90

Other colours available on request.

Padlocks • Padlocks - Keyed alike

Type of network: LV  MV  HV 

Brass padlock with ABS shell

Technical specifications: Brass body, ABS shell, delivered with 2 keys.

Width of the body : 48 mm.

Models C14D and C22D are labelled with lockout stickers.



Ref.	Shackle	Shackle height (mm)	Dimensions (mm)	Weight (g)
C14	Hardened steel Ø 7 mm	26	76 x 50 x 18	200
C14D	Hardened steel Ø 7 mm	26	85 x 50 x 15	200
C22D	Hardened steel Ø 7 mm	60	110 x 50 x 18	210

Padlocks - Keyed different

Brass padlocks

Technical specifications: Brass body and shackle.

Delivered without key, the keys have to be ordered separately.



Ref.	N°	Shackle	Shackle height (mm)	Dimensions (mm)	Weight (g)
C15 CAD 72423	72423	Brass Ø 7 mm	26	71 x 45 x 10	180
C15 CAD 72432	72432	Brass Ø 7 mm	26	71 x 45 x 10	180

Accessories:

C15 CLE 72423	Single key n°72423
C15 CLE 72432	Single key n°72432

Brass padlocks

Technical specifications: Brass body padlock.

Body width : 45 mm.

Padlocks are labelled with lockout stickers.

Delivered without key, the keys have to be ordered separately or as part of a set.



Ref.	Key numbers available	Shackle	Shackle height (mm)	Dimensions (mm)	Weight (g)
C16A N---	701 to 712	Brass Ø 7 mm	60	105 x 46 x 10	200
C16B N---	601 to 612	Brass Ø 7 mm	60	105 x 46 x 10	200

Accessories:

C22AC N---	Single numbered key from N° 701 to 712 (to be precised)
C22BC N---	Single numbered key from N° 601 to 612 (to be precised)

Option(s):

C28J4 N---	Set of 4 padlocks on rack IS47 with one numbered key (to be precised)
C28J6 N---	Set of 6 padlocks on rack IS47 with one numbered key (to be precised)
C28J10 N---	Set of 10 padlocks on rack IS47 with one numbered key (to be precised)

Complete the reference with the desired key number.



Brass padlocks with ABS shell

Technical specifications: Brass body padlock, ABS shell.

Width of the body : 48 mm.

Padlocks are labelled with lockout stickers.

Delivered without key, the keys have to be ordered separately or as part of a set.

Ref.	Key numbers available	Shackle	Shackle height (mm)	Dimensions (mm)	Weight (g)
C18A N---	531 to 535	Brass Ø 7 mm	26	76 x 50 x 18	180
C18B N---	401 to 405	Brass Ø 7 mm	26	76 x 50 x 18	180
C22A N---	701 to 712	Brass Ø 7 mm	60	110 x 50 x 18	200
C22B N---	601 to 612	Brass Ø 7 mm	60	110 x 50 x 18	200

Accessories:

C18BC N---	Single numbered key from N° 401 to 405 (to be precised)
C18AC N---	Single numbered key from N° 531 to 535 (to be precised)
C22AC N---	Single numbered key from N° 701 to 712 (to be precised)
C22BC N---	Single numbered key from N° 601 to 612 (to be precised)

Option(s):

C27J4 N---	Set of 4 padlocks C18A N--- on rack IS47 with one numbered key (to be precised)
C27J6 N---	Set of 4 padlocks C18AN--- on rack IS47 with one numbered key (to be precised)
C27J10 N---	Set of 10 padlocks C18A N--- on rack IS47 with one numbered key (to be precised)
C29J4 N---	Set of 4 padlocks C22A N--- on rack IS47 with one numbered key (to be precised)
C29J6 N---	Set of 6 padlocks C22A N--- on rack IS47 with one numbered key (to be precised)
C29J10 N---	Set of 4 padlocks C22A N--- on rack IS47 with one numbered key (to be precised)

Complete the reference with the desired key number.



Brass body padlocks with removable nylon shell

Technical specifications: Brass body padlock with removable nylon shell, labelled with a space on one side for writing the lockout manager's name and the date, and on the other side «Locked out - Do not operate».

Body width : 35 mm.

Padlock identification made by colours, each colour matches with a serial number.

Available colours with the corresponding code:

Red (R), Blue (BL), Green (V), Yellow (J), Black (N), White (B), Orange (O), Brown (BR), Purple (VI), Grey (G), White/Black (BN), White/Brown (BB), White/Red (BRO), White/Blue (BBL), White/Green (BV), White/Orange (BO)

Delivered without key, the keys have to be ordered separately.

Ref.	Colour	Shackle	Shackle height (mm)	Dimensions (mm)	Weight (g)
MC1--	R, BL, V, J, N, B, O, BR, VI, G, BN, BB, BRO, BBL, BV, BO	Hardened steel Ø 5 mm	45	80 x 35 x 17	125
MC1C--	R, BL, V, J	Hardened steel Ø 5 mm	20	49,5 x 35 x 17	110

Accessories:

CC1--	Colour coded key (code to be precised)
--------------	--

Complete the reference with the desired colour code.

Padlocks • Padlocks - Keyed different

Type of network: LV  MV  HV 

Composite body padlocks

+ For model with composite shackle : all components are non conductive (body and shackle) for dielectric protection.

Technical specifications: Composite body padlock, colour : orange.

Body width : 38 mm.

Chemicals resistant, corrosion resistant, UV-stable padlock, withstands extreme temperatures.

Key retaining-ensures that padlock is not left unlocked.

Marking : key number on 1 side and «Sibille Safe» on the other side (indelible ink).

Supplied with a set of padlock labels «Danger» and «Locked out» in English, Arabic, French and Spanish.

Delivered without key, the keys have to be ordered separately or as part of a set.



Ref.	Key numbers available	Shackle	Shackle height (mm)	Dimensions (mm)	Weight (g)
C410B---	252 to 263	Hardenned steel Ø 6 mm	38	90 x 38 x 20	96
C406B---	240 to 251	Composite Ø 6 mm	38	90 x 38 x 20	96
C410BLT---	264 to 275	Hardenned steel Ø 6 mm	76	132 x 38 x 20	116

Accessories:

606B--- Single numbered key from N° 240 to 275 (to be precised)

Option(s):

C36J4B---	Set of 4 padlocks C410B--- on rack IS47 with one numbered key (to be precised)
C36J6B---	Set of 6 padlocks C410B--- on rack IS47 with one numbered key (to be precised)
C36J10B---	Set of 10 padlocks C410B--- on rack IS47 with one numbered key (to be precised)
C35J4B---	Set of 4 padlocks C406B--- on rack IS47 with one numbered key (to be precised)
C35J6B---	Set of 6 padlocks C406B--- on rack IS47 with one numbered key (to be precised)
C35J10B---	Set of 10 padlocks C406B--- on rack IS47 with one numbered key (to be precised)
C37J4B---	Set of 4 padlocks C410BLT--- on rack IS47 with one numbered key (to be precised)
C37J6B---	Set of 6 padlocks C410BLT--- on rack IS47 with one numbered key (to be precised)
C37J10B---	Set of 10 padlocks C410BLT--- on rack IS47 with one numbered key (to be precised)

Complete the reference with the desired key number. Other colours available on request.

Other padlocks and accessories

C20 - C21PT

STRENGTHENED ARTILLEY PADLOCK

Technical specifications: Brass padlock.

2 opening shapes available (triangular or half-moon).

Padlocks delivered without key.



Ref.	Description	Shackle	Dimensions (mm)	Weight (g)
C20T	Padlock with triangular shape opening	Brass Ø 8 mm	60 x 50 x 15	80
C21PT	Padlock with triangular shape opening	Brass Ø 6 mm, height 50 mm	65 x 60 x 14	80
C20DL	Padlock with half-moon opening	Brass Ø 8 mm	60 x 50 x 15	80

Accessories:

C20TC Triangular shaped key

C20DLC Half-moon shaped key



B7604

MULTIPLE LOCKING DEVICE

Use: Device allowing lockout of a same apparatus by different lockout managers.

Technical specifications: 4 holes.

Locking device delivered without padlock and without key.

Ref.	Dimensions (mm)	Weight (g)
B7604	165 x 40 x 22	150



SC2

PADLOCK RACK - 30 PADLOCKS

Technical specifications: Made of stainless steel

Key storage in the handle.

Fitted with a hook for storage or for being maintained on metallic structure during lockout operation.

Delivered without padlock and without key.

Ref.	Dimensions (mm)	Weight (g)
SC2	310 x 115 x 190	560



IS47

PADLOCK RACK

Use: Allows to classify, identify quickly and carry padlocks.

Technical specifications: Rack made in composite material, fitted with handle.

Delivered without padlock and without key.

Ref.	Number of holes	Dimensions (mm)	Weight (g)
IS47 4TROUS	4	150 x 115 x 9	85
IS47 6TROUS	6	150 x 115 x 9	85
IS47 10TROUS	10	150 x 115 x 9	85

Padlocks • Other padlocks and accessories

Type of network: LV  MV  HV 

SFES503RED

GROUP LOCK BOX

Use: Secures each lock-out point on one or more large items of equipment using your personal lock-out padlock.

+ Exclusive mechanism ensures that no-one can access the keys in the box until every member has removed his padlock.

Technical specifications: Durable powder-coated red finish with stainless steel handle.
Integrated storage organises up to 12 keys or hundred of bulk keys.
Up to 14 workers can apply their personal safety padlocks or hasps



Ref.	Dimensions (mm)
SFES503RED	324 x 89 x 162

SFE148

PADLOCK STATIONS

Use: Allow to store padlocks and accessories

+ Transparent cover protects contents.
Innovative hinges hold cover open.

Technical specifications: One-piece moulded construction for increased ruggedness.
Polycarbonate material provides twice the heat resistance and quadruple the impact resistance of normal stations.

Padlock station can be locked with a combination padlock.

Wall mounted.

Delivered empty.



Ref.	Description	Dimensions (mm)
SFE1482B	Unfilled padlock station for 4 padlocks, 2 hasps and 1 set of 12 labels	311 x 406 x 44
SFE1483B	Unfilled padlock station for 10 padlocks, 2 hasps and 2 sets of 12 labels	394 x 559 x 44
SFE1484B	Unfilled padlock station for 20 padlocks, 4 hasps and 4 sets of 12 labels	559 x 559 x 44

SFES1900

LOCKOUT STATION

Use: High capacity lockout station holds departmental lockout needs.

+ Rugged and durable.

Technical specifications: Moveable dividers in top and bottom trays help organise devices.
Holes provided along with bottom for optional peg hook hangers to hang bulky devices.
16 hanger clips holds 2 padlocks or hasps each.
Each compartment in lower section holds 25 tags each, 150 tags total.



Ref.	Description	Dimensions (cm)
SFES1900	Unfilled station	67,3 x 55,9 x 10,5
SFES1900VE	Complete station with padlocks	67,3 x 55,9 x 10,5



SFES430

LOCK-OUT HASP 4 MM

Use: Ideal for electrical circuit breakers, holds up to two padlocks with shackles up to 6 mm in diameter.

+ Enables to lockout devices with diameter lower than 6 mm.

Technical specifications: Steel lock-out hasp with composite body, shackle diameter : 4 mm. Withstands extreme temperature and chemicals, UV stable.

Ref.	Dimensions (mm)
SFES430	76 x 57 x 25



SFE420 - SFE421

STEEL LOCKOUT HASPS

Use: Lockout by multiple workers at each lockout point.

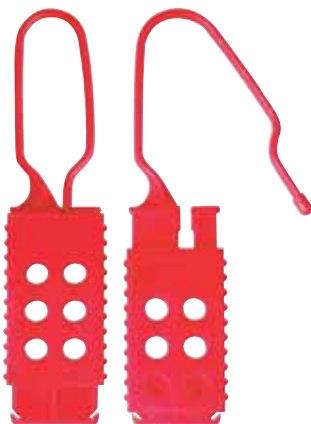
Keeps equipment inoperative while repairs or adjustments are made.

Control cannot be turned on until last worker's padlock is removed from hasp.

Technical specifications: Heavy gauge steel jaw with red vinyl coated handle.

Holds up to 6 padlocks with shackles up to 6,35 mm in diameter.

Ref.	Dimensions (mm)	Inside jaw diameter	Weight (g)
SFE420	115 x 45 x 9	25 mm	95
SFE421	128 x 60 x 9	38 mm	110



SFE428

NYLON COMPOSITE LOCK-OUT HASP

Use: Lockout by multiple workers at each lockout point.

Keeps equipment inoperative while repairs or adjustments are made.

Ideal for electrical applications.

Technical specifications: Nylon body and jaw.

Non-conductive-hasp, dielectric protection, non-sparking.

Shackle diameter : 6 mm.

Holds up to 6 padlock with shackles up to 6,35 mm in diameter.

Ref.	Dimensions (mm)	Inside jaw diameter (mm)	Weight (g)
SFE428	177 x 44 x 10	63 x 25	30

Padlocks • Lockout hasps

Type of network: LV  MV  HV 

SFE427

LABELLED LOCKOUT HASP

Use: Red lockout with tagout identification for multiple workers.

- ⊕ Features an easy-to-apply 'snap-on' advantage with its spring-loaded locking arm.
- Fits more lockout points than alternative rivet-hinge labelled lockout hasp.

Technical specifications: Anodized aluminium and stainless steel construction for combined corrosion-resistance and strength.

Capacity: 5 padlocks.

Complete with high visibility, re-usable write-on safety labels (English, French & Spanish) - identify the responsible person, then erase for the next job.



Ref.	Inside jaw diameter (mm)	Dimensions (mm)	Weight (g)
SFE427	54 x 44	180 x 73 x 13	160

Adjustable lockout cables

SFES806

ADJUSTABLE LOCKOUT CABLE

Use: Integrated safety hasp and cable is ideal for multiple circuit breaker panel and side-by-side gate valve lockouts.

Lock-out can be adjusted once the cable is locked.

Device can be locked using 4 padlocks

- ⊕ Adjustable cable for a better fixing and lockout.
- Identify the responsible person, then erase for the next job.

Technical specifications: Tough, flexible multi-stranded steel cable is insulated with a clear plastic coating (PVC free).

Lightweight thermoplastic body withstands chemicals and extreme temperatures (-57 °C to +177 °C).

Includes high-visibility, re-usable, write-on safety labels (English, French & Spanish)



Ref.	Cable diameter (mm)	Length (mm)	Weight (g)
SFES806A	4	1 830	160
SFES806B	4	4 572	260

Innovation !

USB14X200

LOCKOUT DEVICE FOR ULTRA-FINE HOLES OF ELECTRICAL INSTALLATIONS

Use:

For use where usual safety padlocks can't be positioned.

With this product, you can easily lock out, ultra-fine holes of electrical installations and realise a mechanical locking.

- ⊕ Ultra-fine and ultra-resistant cable.
- Easy to use

Technical specifications:

Multi-stranded steel cable with vinyl coating : maximum cable diameter : 1,3 mm.

Passage hole for padlock : max shackle diameter 5 mm (padlock not supplied)

Sticker on the back to identify the lockout manager.



Ref.	Dimensions (mm)	Weight (g)
USB14X200	147 x 31 x 14	25



SFES2390 - SFES2391

LV CIRCUIT BREAKER LOCKOUT

Use: Locks out most miniature ISO/DIN circuit-breakers throughout the world.

Is placed on the toggle of the breaker. Used to interrupt power at source.

Available for single and multi-pole breakers. Works with all padlocks and lockout hasps.

+ The mini circuit breaker lockout is simple to use, quick to apply.

Ref.	Description	Dimensions (mm)	Weight (g)
SFES2390	LV Circuit breaker lockout fits breaker with toggle openings 11 mm or less	47 x 21 x 21	6
SFES2391	LV Circuit breaker lockout fits breakers with toggle openings over 11 mm	47 x 21 x 21	6



SFES2392

LV CIRCUIT-BREAKER LOCK-OUT

Use: Locks out many miniature ISO/DIN circuit breakers throughout the world.

Fits breakers with lockout holes on the outside of the switch.

Used to interrupt power at source.

Available for single and multi-pole breakers. Works with all padlocks and lockout hasps.

+ Fast and easy to use.

Technical specifications: Fits openings up to 12,7mm between lockout holes.

Ref.	Dimensions (mm)	Weight (g)
SFES2392	47 x 21 x 20	6



SFES2393

UNIVERSAL MINIATURE CIRCUIT-BREAKER LOCK-OUT (LV)

Use: Locks out virtually all miniature ISO/DIN circuit breakers throughout the world.

Fits on breakers toggle and can be tightened using screwdriver.

Works with all safety padlocks and hasps.

Ref.	Dimensions (mm)	Weight (g)
SFES2393	44 x 25 x 10	8

New!

SFES2394

MINIATURE CIRCUIT BREAKER LOCKOUT DEVICE

Use:

Device locks virtually all miniature ISO/DIN pin-out circuit breakers throughout the world. The patented device features a thumb turn dial screw for easy attachment, no tools required. Device attaches to circuit breaker and makes dial inaccessible in the locked position to prevent removal.

- ⊕ **Thumb turn dial screw for easy attachment - no tools required!**
- Dial is inaccessible in the locked position to prevent removal**
- Safety padlock can be applied horizontally or vertically**
- Can be mounted side-by-side on adjacent miniature circuit breakers**

Technical specifications:

Durable thermoplastic material is chemical resistant and performs effectively in extreme environments



Ref.	Dimensions (mm)	Weight (g)
SFES2394	54 x 30 x 18 mm	20

SFE491B - SFE493B

LV CIRCUIT-BREAKER LOCK-OUT

Use: Fits all type of breaker toggle.

Narrow profile for side-by-side breaker lock-out.

Accepts all safety padlock shackles and lockout hasp diameters.

- ⊕ **Secure and simple mounting for solid lock-out.**
- Adjusts to breaker with simple thumb turn and then close clamping handle for a tight grip on the toggle.**
- Compact device easy to transport and store.**

Technical specifications: Durable construction with powder coated steel and reinforced polymer for operation in harsh environments.



Ref.	Description	Dimensions (mm)	Weight (g)
SFE491B	LV Circuit-breaker lock-out for wide or tall breaker toggles	32 x 26 x 86	100
SFE493B	LV Circuit-breaker lock-out for standard breaker toggles	19 x 19 x 72	50



SFEKDCMGB

LV CIRCUIT BREAKER LOCKOUT KIT

Ref.	Description
SFEKDCMGB	Lock-out kit
Contents:	
S350 GBC11	Plastic tag 80 mm «Do not operate - Disconnection»
SFET201	Bras padlock 25 mm with 2 keys
SFES2393	Universal miniature circuit-breaker lock-out (LV)

Electrical plug lockouts



SFE487 - SFE488

ELECTRICAL PLUG LOCKOUTS

Use: Surrounds the electrical plug and prevents accidental reconnection.

Outward/inward rotation for easier application & storage

+ Unique, patent-pending rotation design allows for easier installation in confined space applications.

Technical specifications: High-visibility permanent safety labels (English, French, and Spanish)
Tough, lightweight, dielectric thermoplastic bodies withstand chemicals ; perform effectively in extreme conditions (temperature range -46°C to +177°C).

Delivered without padlock.

Ref.	Description	Dimensions (mm)	Weight (g)
SFE487	Electrical plug lockout for 120 to 240 V electrical plugs	110 x 111 x 70	90
SFE488	Electrical plug lockouts for 240 to 550 V electrical plugs	190 x 130 x 90	140



SFES453

OVERSIZED PLUG CONTROL COVER

Use: Effectively locks out odd size and large electrical connectors and remote controls.

Cinch sack offers a lockout solution for a wide range of application.

Technical specifications: Nylon bag.

Accepts up to 6 padlocks or hasps.

PVC tubing can be inserted to block access to remote control buttons.

Trilingual lock-out warning printed on bag.

Ref.	Dimensions (mm)	Size
SFES453L	482 x 165	L
SFES453XL	660 x 254	XL
SFES453XXL	914 x 356	XXL

Multiple lockout devices • Valve lockouts

Type of network: LV  MV  HV 

SFE48

ROTATING GATE VALVE LOCKOUT DEVICES

Use: Surrounds the valve operating handle to protect against accidental valve opening. Multiple workers can apply their personal safety locks.

+ Outward/inward rotation for easier installation and storage. Unique patented rotating design allows for easier installation in confined space applications.

Technical specifications: Tough, lightweight, dielectric thermoplastic bodies withstand chemicals. Perform effectively in extreme conditions temperature range (-46°C to 177°C). Centre knockout can be removed for rising stem gate valves. Each size rotates into itself and nests into the next larger size to save space in safety tool boxes. High-visibility permanent safety labels (English, French & Spanish) that can be written-on to identify the responsible person, then erased for the next job.



Ref.	Outer diameter (mm)	Valve diameter (mm)	Weight (g)
SFE480	120	25 to 76	80
SFE481	180	50 to 127	160
SFE482	215	101 to 165	260
SFE483	300	152 to 254	550
SFE484	400	203 to 330	1060

New!

SFES3068MLP

LOCKOUT DEVICE FOR HANDLES OF 1/4 TURN VALVE

Use:
Locks valve in OFF position, clamps tight on handle stop to prevent handle movement. Fits valve from 6 to 100 mm. Works on insulated pipes and in close quarters

+ Lightweight and compact for easy carrying and storage.

Technical specifications:
Durable aluminium and steel construction defies corrosive environments and temperatures up to 538°C. Lockable with safety padlock (not included). Includes product labels in Czech, English, French, Spanish, Flemish/Dutch, German, Italian, Japanese, Mandarin Chinese, Polish, Portuguese, and Russian).



Ref.	Description
SFES3068MLP	Lockout device for handles of 1/4 turn valve

Without



SFES3080

ADJUSTABLE LOCKOUT DEVICE FOR 1/4 TURN VALVE

Use:

Easy to use device prevents accidental activation of a closed ball valve, locks valve in ON/OFF position.

Adjustable design fits valves from 13 to 51 mm.

Works with SFES806 cable lockout device for the most secure fit.

Technical specifications:

Durable, lightweight thermoplastic material is chemical resistant and performs effectively in extreme environments.

Four locking holes to accept safety padlocks.

Ref.	Description
SFES3080	Adjustable lockout device for 1/4 turn valve
Accessories:	
SFES806A	Adjustable lockout cable 1830 mm
SFES806B	Adjustable lockout cable 4572 mm

New!



SFE468L

HANDLE-OFF BALL VALVE LOCKOUT

Use:

Patented innovative design eliminates the risk of valve reactivation with removal of the handle

Simple remove and store handle and covers the valve stem for secure lockout

Universal fit-effectively lock out all valves from 10 to 100 mm.

Works in virtually all valve installations - metal and PVC valves, insulated pipes, pipes mounted close to a wall or ceiling and valves with tight access due to proximity to other valves or pipes.

+ Easy to use - simple to apply with an intuitive wrapping strap and locking mechanism
 Lightweight, flexible device is easily carried to the job and then folded for compact storage in safety toolboxes



Technical specifications:

Constructed of durable PVC polyester fabric and HDPE plastic

Performs effectively to withstand corrosive environments and operates in extreme conditions (temperature range: -40°C to 121°C).

Includes write-on erasable labels in English, French & Spanish

Ref.	Description
SFE468L	Handle-off ball valve lockout

Lockout tag

Type of network: LV  MV  HV 

S350 GBC11

PLASTIC TAG 80 MM «DO NOT OPERATE - DISCONNECTION»

Technical specifications: Hole Ø 10 mm on top.

Text : «Do not operate - Disconnection».

Symbol : lightning.

Colour : red background, white text and symbol.



Ref.	Diameter (mm)	Weight (g)
S350 GBC11	80	7

C222

MULTILINGUAL LABELS FOR PADLOCKS

Technical specifications: Set of 4 stickers «Do not operate - Disconnection» in English, French, Spanish and Arabic.

To be used with padlocks C410B, C410BLT, C406B, C410V, C410VLT and C406V.



Ref.	Description	Weight (g)
C222	Multilingual labels for padlocks	2

C26

STICKERS FOR LOCKOUT OR DISCONNECTION PADLOCKS



Ref.	Description	Colour	Diameter (mm)
C26	Stickers marked «Locked by - On the «	Blue background, white text	40
C26R	Stickers marked «Disconnection - Do not operate»	Red background, white text	40



LADDERS AND POLE CLIMBERS



LADDERS AND POLE CLIMBERS



LADDERS AND STEPLADDERS

Insulated safety ladders	466
Spliced ladders for LV and MV live working.	471
Ladders with working platform	473
Aluminium ladders	476
Wooden stepladder	476

POLE CLIMBERS

Pole climbers	477
Accessories	479



TE17AUD - TE12AUD

ROPE-OPERATED INSULATING EXTENSION LADDERS WITH 2 OR 3 SECTIONS

EN 131-1 / EN 131-2 / EN 50528

Use: Ladder for live working below 1000V AC / 1500V DC

- Rugged and reliable construction: the ladder is assembled by bolting, allowing the replacement of rungs and uprights.
- Improved ergonomics through the use of rectangular composite profiles with rounded edges.
- New tri-oval shape rungs.

Technical specifications: Automatically engaging aluminium double-safety rung lock.

Ø 10 mm extension rope, strength 1800 daN.

Anti-slip rubber feet.

Guided by nylon-coated low-friction guides.

Ribbed anti-slip aluminium rungs, tri-oval shape, inclined to have an horizontal foot position.

Anatomic 250 mm distance between rungs making it possible to support the knee and make work safer and more comfortable.

Standard wall wheels make it easier to extend the ladder and protect the fibreglass surface.

The uprights are made of fibreglass/polyester composite material.

The material offers high mechanical performance.

A fibreglass surface finish makes them more efficient and improves UV resistance.

In addition to its insulation qualities, the material is non-rotting and lightweight for user convenience.

The optional V-shaped pole support has an anti-slip rubber profile.



Standard wall wheels, factory assembled



Option : V-shaped pole support with rope, factory installed



Option : Cleats and rope, factory assembled



Option : compensating stabiliser, factory assembled

Ref.	Number of sections	Folded length (m)	Intermediate length (m)	Extended length (m)	Number of rungs	1st section	Weight (kg)
TE17AUD 2.50M	2	2,5	N/A	4	2 x 9	70 x 30	14
TE17AUD 3M	2	3	N/A	5	2 x 11	70 x 30	17
TE17AUD 3.50M	2	3,5	N/A	6	2 x 13	70 x 30	20
TE17AUD 4M	2	4	N/A	7	2 x 15	85 x 30	25
TE17AUD 4.50M	2	4,5	N/A	8	2 x 17	85 x 30	32
TE17AUD 5M	2	5	N/A	9	2 x 19	85 x 30	36
TE17AUD 5.50M	2	5,5	N/A	10	2 x 21	85 x 30	42
TE17AUD6M	2	6	N/A	11	2 x 23	85 x 30	46
TE12AUD 2.50M	3	2,5	4	5,5	3 x 9	85 x 30	22
TE12AUD 3M	3	3	5	7	3 x 11	85 x 30	25,5
TE12AUD 3.50M	3	3,5	6	8,25	3 x 13	85 x 30	30
TE12AUD 4.25M	3	4,25	7,25	10,2	3 x 16	85 x 30	45
TE12AUD 6M	3	6	10	14	3 x 23	102 x 30	90

Option(s):

OPE802065	V-shaped pole support with rope for extension ladders with 2 sections
OPE802071	V-shaped pole support with rope for extension ladders with 3 sections
OPE802073	Compensating stabiliser for ladders with 1st section of 70 x 30
OPE802074	Compensating stabiliser for ladders with 1st section of 85 x 30
OPE802077	Pair of cleats with rope for ladders with extended length below or equal to 6 m
OPE802049	Pair of cleats with rope for ladders with extended length above 6 m and below 10 m
OPE802050	Pair of cleats with rope for ladders with extended length above or equal to 10 m
DESA2 STD	Portable anchoring device for insulated ladders without pole support
DESA2 APP	Portable anchoring device for insulated ladders with pole support

TE22AUD

MANUALLY-OPERATED INSULATING EXTENSION LADDER WITH 2 SECTIONS

EN 131-1 / EN 131-2 / EN 50528

Use: Ladder for live working below 1000V AC / 1500V DC

+ Rugged and reliable construction.
The rungs and uprights are repairable.
New tri-oval shape rungs.

Technical specifications: The uprights are made of pultruded composite material, made up of fibreglass in a polyester matrix.

The material offers high mechanical performance.

A fibreglass surface finish makes them more efficient and improves UV resistance.

In addition to its insulation qualities, the material is non-rotting and lightweight for user convenience.

Ribbed anti-slip aluminium rungs, tri-oval shape, inclined to have an horizontal foot position.

Anatomic 250 mm distance between rungs making it possible to support the knee and make work safer and more comfortable.

The rungs and uprights are repairable thanks to a patented assembly system (repairs in factory).

Anti-slip rubber feet with a section equal to the uprights (avoids wrenching off).

Standard wall wheels make it easier to extend the ladder and protect the fibreglass surface.

The optional V-shaped pole support is fitted with a rubber cushioning profile.



Standard wall wheels, factory assembled



Option : V-shaped pole support with rope, factory installed



Option : Cleats and rope, factory assembled



Option : compensating stabiliser, factory assembled

Ref.	Folded length (m)	Extended length (m)	Number of rungs	1st section	Weight (kg)
TE22AUD 2M	2	3	2 x 7	70 x 30	12
TE22AUD 2.5M	2,5	4	2 x 9	70 x 30	15
TE22AUD 3M	3	5	2 x 11	70 x 30	17
Option(s):					
OPE802077	Pair of cleats with rope for ladders with extended length below or equal to 6 m				
OPE802065	V-shaped pole support with rope for extension ladders with 2 sections				
OPE802073	Compensating stabiliser for ladders with 1st section of 70 x 30				
DESA2 APP	Portable anchoring device for insulated ladders with pole support				
DESA2 STD	Portable anchoring device for insulated ladders without pole support				





TE18AUD - TE20AUD

INSULATING COMBINATION LADDER WITH 2 OR 3 SECTIONS

EN 131-1 / EN 131-2 / EN 50528

Use: Ladder for live working below 1000 V AC / 1500 V DC.

- ⊕ **Rugged and reliable construction.**
- The rungs and uprights are repairable.**
- V-shaped stabiliser to avoid obstacles on the ground.**
- New tri-oval shape rungs.**

Technical specifications: The uprights are made of pultruded composite material, made up of fibreglass in a polyester matrix.

The material offers high mechanical performance.

A fibreglass surface finish makes them more efficient and improves UV resistance.

In addition to its insulation qualities, the material is non-rotting and lightweight for user convenience.

Ribbed anti-slip aluminium rungs, tri-oval shape, inclined to have an horizontal foot position.

Anatomic 250 mm distance between rungs making it possible to support the knee and make work safer and more comfortable.

The rungs and uprights are repairable thanks to a patented assembly system (repairs in factory).

Anti-slip rubber feet with a section equal to the uprights (avoids wrenching off).



Option : V-shaped pole support with rope, factory installed



Option : Cleats and rope, factory assembled



V-shaped stabiliser, factory assembled

Ref.	Number of sections	Folded length (m)	Intermediate length (m)	Extended length (m)	Number of rungs	1st section	Weight (kg)
TE18AUD 2M	2	2	N/A	3,25	2 x 7	70 x 26	12,5
TE18AUD 2.50M	2	2,5	N/A	4,25	2 x 9	70 x 26	15
TE18AUD 3m	2	3	N/A	5,25	2 x 11	70 x 26	17,5
TE20AUD 2M	3	2	3,25	4,5	3 x 7	70 x 26	17
TE20AUD 2.50M	3	2,5	4	5,5	3 x 9	70 x 26	21
TE20AUD 3M	3	3	4,75	6,25	3 x 11	70 x 26	30
Option(s):							
OPE802066	V-shaped pole support for insulating combination ladders with 2 sections						
OPE802067	V-shaped pole support for insulating combination ladders with 3 sections						
OPE802076	Pair of cleats with rope for insulating combination ladders 2 or 3 sections						

TE14AUD - TE16AUD

ROPE-OPERATED MIXED EXTENSION LADDER WITH 2 OR 3 SECTIONS

EN 131-1 / EN 131-2

Use: Climbing ladder, used particularly for telecom networks.

Rugged and reliable construction.

The rungs and uprights are repairable.
Designed for heavy-duty use.
New tri-oval shape rungs.

Technical specifications: First and second sections made of light alloy (rope and pulley operated), third section and uprights made of composite material, with light alloy rungs (manually operated).

Upright material : fibreglass and aluminium.

The rungs and uprights are repairable thanks to a patented assembly system (repairs in factory).

Automatically engaging aluminium double-safety rung lock.

Ø 10 mm extension rope, strength 1800 daN.

Ribbed anti-slip aluminium rungs, tri-oval shape, inclined to have an horizontal foot position.

Anatomic 250 mm distance between rungs making it possible to support the knee and make work safer and more comfortable.

Anti-slip rubber feet with a section equal to the uprights (avoids wrenching off).

Standard wall wheels make it easier to extend the ladder and protect the fibreglass surface.



Standard wall wheels, factory assembled



Option : V-shaped pole support with rope, factory installed



Option : Cleats and rope, factory assembled



Option : compensating stabiliser, factory assembled



Ref.	Number of sections	Folded length (m)	Intermediate length (m)	Extended length (m)	Number of rungs	1st section	Weight (kg)
TE14AUD 2.5M	2	2,5	N/A	4	2 x 9	70 x 30	16
TE14AUD 3M	2	3	N/A	5	2 x 11	70 x 30	18
TE14AUD 3.50M	2	3,5	N/A	6	2 x 13	70 x 30	20
TE14AUD 3.75M	2	3,75	N/A	6,5	2 x 14	70 x 30	21
TE14AUD 4M	2	4	N/A	7	2 x 15	85 x 30	22
TE14AUD 4.50M	2	4,5	N/A	8	2 x 17	85 x 30	34
TE14AUD 5M	2	5	N/A	9	2 x 18	85 x 30	37
TE14AUD 5.50M	2	5,5	N/A	10	2 x 21	85 x 30	41
TE14AUD6M	2	6	N/A	11	2 x 23	85 x 30	45
TE16AUD 2.50M	3	2,5	4	5,5	3 x 9	70 x 30	25
TE16AUD 3M	3	3	5	7	3 x 11	70 x 30	27
TE16AUD 3.50M	3	3,5	6	8,25	3 x 13	70 x 30	31
TE16AUD 4.25M	3	4,25	7,25	10,25	3 x 16	85 x 30	40

Option(s):

OPE802065	V-shaped pole support with rope for extension ladders with 2 sections
OPE802071	V-shaped pole support with rope for extension ladders with 3 sections
OPE802073	Compensating stabiliser for ladders with 1st section of 70 x 30
OPE802074	Compensating stabiliser for ladders with 1st section of 85 x 30
OPE802077	Pair of cleats with rope for ladders with extended length below or equal to 6 m
OPE802049	Pair of cleats with rope for ladders with extended length above 6 m and below 10 m
OPE802050	Pair of cleats with rope for ladders with extended length above or equal to 10 m
DESA2 STD	Portable anchoring device for insulated ladders without pole support
DESA2 APP	Portable anchoring device for insulated ladders with pole support



TE32

INSULATED STEPLADDER

EN 131 / EN 50528 / BS 2037 CLASS 1

Use: «Full-safety» stepladder with ultra-strong fibreglass stiles, insulated from low and medium voltages.

Technical specifications: Fibreglass stiles : electrical protection against low and medium voltages up to 10 000V.

Ribbed 80-mm anti-slip steps with 230 mm spacing.

Stand larger than the climbing section.

Anti finger-pinching articulation.

Retractable large-capacity tool holder.

Cast aluminium platform : 250 x 250 mm

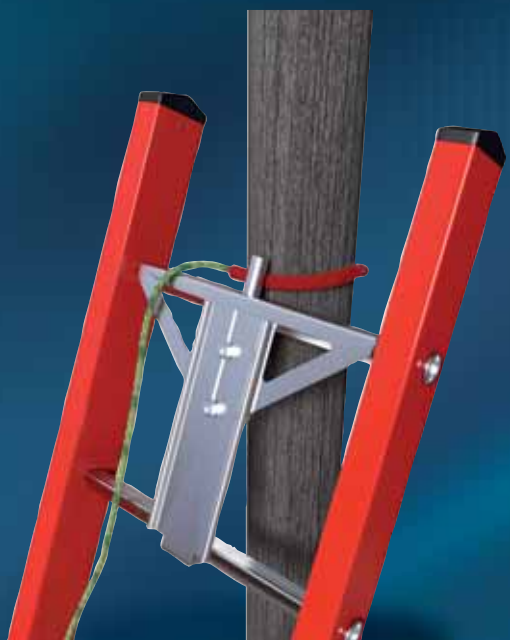
Anti-slip pads.

Max. working load : 150 kg.

Repairs in the factory after acceptance of the quotation.

Ref.	Number of rungs	Platform height (m)	Folded height (m)	Work amplitude (m)	Spacing (m)	Spacing (m)	Dimensions (mm)
TE32 3M	3	0,69	1,45	2,58	0,52	0,71	1390 x 500 x 80
TE32 4M	4	0,92	1,70	2,81	0,55	0,87	1640 x 530 x 80
TE32 5M	5	1,15	1,95	3,04	0,57	1,03	1890 x 550 x 80
TE32 6M	6	1,38	2,20	3,27	0,60	1,20	2140 x 580 x 80
TE32 7M	7	1,61	2,45	3,50	0,63	1,37	2390 x 600 x 80

New range!



DESA2 STD

PORTABLE ANCHORING DEVICE FOR INSULATED LADDERS WITHOUT POLE SUPPORT

EN 795 : 2012 - CLASS B CERTIFIED WITH AUDINNOV INSULATED LADDERS

Use:

This device allows, at the same time, to secure the ladder to its support and to create a safety line from the ground.

⊕ **Removable device, easy to install.**

3 main functions :

- **Secure the ladder to the pole**
- **Lateral stabilisation of the ladder**
- **Installation of an anchoring point to connect a lifeline**

Technical specifications:

2 stainless steel parts to be connected together, 2 mm thick, with adjustable slide for fixation between the 2 upper rungs of the ladder.

Supplied with :

- a lanyard 1,30 m
- screws and bolts
- installation and operating instructions
- a transport bag

Ref.	Description
DESA2 STD	Portable anchoring device for insulated ladders without pole support

New range!

DESA2 APP

PORTABLE ANCHORING DEVICE FOR INSULATED SUPPORT WITH POLE SUPPORT

EN 795 : 2012 - CLASS B CERTIFIED WITH AUDINNOV INSULATED LADDERS DELIVERED WITH POLE SUPPORT

Use:

This device allows, at the same time, to secure the ladder to its support and to create a safety line from the ground.

+ Removable device, easy to install.

3 main functions :

- Secure the ladder to the pole
- Lateral stabilisation of the ladder
- Installation of an anchoring point to connect a lifeline

Technical specifications:

3 stainless steel parts to be connected together with plate and counter plate, 2 mm thick, with adjustable slide for fixation between the 2 upper rungs of the ladder and to be fixed between the rung and the pole support.

Supplied with :

- a lanyard 1,30 m
- screws and bolts
- installation and operating instructions
- a transport bag



Ref.	Description
DESA2 APP	Portable anchoring device for insulated ladders with pole support

Spliced ladders for LV and MV live working

LV LADDER KIT

LOW VOLTAGE SPLICED LADDER KIT

Use: For Low Voltage Live Working.

For climbing on poles, regardless of the height.

Positions line workers safely.

Technical specifications: Kit made up of:

- Aluminium base with adjustable feet for adapting to ground irregularities (Ref. EB)
- Aluminium intermediate elements (Ref. EM)
- Insulating intermediate elements to keep the line worker safe in the work area (Ref. EI)



Ref.	Description	Number of rungs	Weight (kg)
EB210	Metal Base element 2,10 m with adjustable feet + 2 cradles with straps	7	7
EB300	Metal base element 3.00 m with adjustable feet + 2 cradles with straps	10	9
EM210	Metal intermediate element 2.10 m with adjustable feet + 2 cradles with straps	7	6
EM300	Metal intermediate element 3.00 m with adjustable feet + 2 cradles with straps	10	8
EI120	Insulating intermediate element 1.20 m + 1 cradle with strap	4	7,4
EI210	Insulating intermediate element 1.20 m + 1 cradle with strap	7	4,7
EI300	Insulating intermediate element 1.20 m + 1 cradle with strap	10	9,5





MV LADDER KIT ↻

MIDDLE VOLTAGE SPLICED LADDER KIT

Use: For Middle Voltage Live Working.

For climbing on poles, regardless of their height. Positions line workers safely

Technical specifications: Kit made up of:

- Aluminium base with adjustable feet for adapting to ground irregularities (Ref. EB)
- Aluminium intermediate elements (Ref. EM)
- Insulating intermediate elements to keep the line worker safe in the work area (Ref. ESE)

Ref.	Description	Number of rungs	Weight (kg)
EB210	Metal Base element 2,10 m with adjustable feet + 2 cradles with straps	7	7
EB300	Metal base element 3.00 m with adjustable feet + 2 cradles with straps	10	9
EM210	Metal intermediate element 2.10 m with adjustable feet + 2 cradles with straps	7	6
EM300	Metal intermediate element 3.00 m with adjustable feet + 2 cradles with straps	10	8
ESE120	Insulated intermediate element 1,20 m + 1 cradle with strap	4	7,4
ESE210	Insulated intermediate element 1,20 m + 1 cradle with strap	7	4,7
ESE300	Insulated intermediate element 3,00 m + 2 cradles with straps	10	9,5



K37218188 ↻

CRADLE KIT FOR LV AND MV SPLICED LADDERS

Use: The cradle kit is designed to be fitted on spliced ladders, type ESE120, ESE210, ESE300, EI120, EI210 and EI300.

Technical specifications: The kit includes the following :

- a cradle made of synthetic material,
- 4 struts,
- 4 fastening bolts with nuts and washers.

Supplied in a transparent nylon bag.

Ref.	Dimensions (mm)	Weight (g)
K37218188	320 x 200 x 60	367



K37238373 ↻

STRAP KIT FOR LV AND MV SPLICED LADDERS

Use: The strap kit is designed to be fitted on ESE120, ESE210, ESE300, EI120, EI210 and EI300 type spliced ladders.

Technical specifications: The kit includes the following :

- a short strap with a hook, 300 mm long
- a long strap with a ratchet load binder, 1200 mm long

The straps are always placed above the rung located at the level of the cradle.

Supplied in a transparent nylon bag.

Ref.	Weight (g)
K37238373	380

TE33AUD

ALUMINIUM LADDER WITH WORKING PLATFORM

EN 131-7

Use: Ladder designed for work on poles or walls.

The work platform allows long-term work in maximum comfort and safety.

- **Ergonomics :** ergonomic work platform with all regulatory guards: railing, hand rail, under rail, base plate, anti-slip floor etc.
- **Weight :** portable equipment that uses materials that are both rugged and lightweight.
- **Setting up :** may be put into use within 3 minutes; it is physically compact to make handling and extension on site easier.
- **Stability :** innovative and intelligent equipment that can adapt to every terrain (slopes, inclinations up to 1 m).

Technical specifications: Rapid work platform locking.

Patented platform opening/closing system.

Folding pole support (to be defined depending on use), 300 / 400 / 500 mm long

Lockable pole strut for effective holding on all types of pole.

Cleats integrated into the uprights.

The ladder is supplied with :

- a stability kit : X-shaped extra legs
- a pole support straddle with pair of wheels
- a pole strut and cleats.



Ref.	Folded length (m)	Extended length (m)	Platform height min/max (m)	Working height min/max (m)	Optional level compensator	Weight (kg)
TE33AUD 2.9M-KIT	3,1	4,5	1,9 / 3,2	3,1 / 4,9	OPE802073 (with wheels)	23
TE33AUD 3.2M-KIT	3,4	5	2,2 / 3,8	3,4 / 5,5	OPE802073 (with wheels)	25
TE33AUD 3.5M-KIT	3,7	5,5	2,5 / 4,3	3,7 / 6	OPE802074 (without wheels)	28
TE33AUD 3.8M-KIT	4	6	2,8 / 4,9	4 / 6,6	OPE802074 (without wheels)	33
TE33AUD 4.3M-KIT	4,3	6,5	3,1 / 5,4	4,3 / 7,1	OPE802074 (without wheels)	36
TE33AUD 4.6M-KIT	4,6	7	3,3 / 6	4,6 / 7,7	OPE802074 (without wheels)	39
Option(s):						
OPE802022	Compensatory load distribution pads					



TE30AUD

LIGHTWEIGHT ROLLING INDIVIDUAL PLATFORM

EN 131-7

Use: Automatically opening ultra-light model designed to replace stepladders and combination ladders, but with a safe work platform and adjustable legs to adapt to level differences (pavements, steps).

Particularly suited to work at low heights in urban environments.

Three versions are available:

- Folding version for saving storage space
- Ultra-light version for working on flat ground
- Multi-purpose version for adapting to the terrain (two telescopic front extensions and sliding rear surface)

- **Ergonomics :** ergonomic work platform with all regulatory guards: railing, hand rail, under rail, base plate, anti-slip floor etc.
- **Weight :** portable equipment that uses materials that are both rugged and lightweight.
- **Setting up :** may be put into use within 3 minutes; it is physically compact to make handling and extension on site easier.
- **Stability :** innovative and intelligent equipment that can adapt to every terrain.

Technical specifications: Patented platform opening/closing system : the two front legs that offer stability can be opened and positioned in a single movement.

400 x 400 mm floor with openings for better adherence.

Uprights, extensions and work platform made of aluminium.

Adjustable front extensions with a 30-mm pitch.

Integrated transport wheels Ø 175 mm.

Load capacity : 150 kg.

Ref.	Version	Working height (m)	Platform height (m)	Number of rungs	Adjustment range	Weight (kg)
TE30AUD PL1.9M	Folding	1,75 / 2,45	0,5 / 0,75	3	NO	14
TE30AUD 1.9M	Ultralight	1,75 / 2,45	0,75	3	NO	15
TE30AUD 2.2M	Ultralight	2 / 2,70	1,20	4	NO	17
TE30AUD 2.5M	Ultralight	2,25 / 2,95	1,45	5	NO	18
TE30AUD P1.9M	Polyvalent	1,75 / 2,70	0,75 / 1	3 - 4	0 to 250 mm	18
TE30AUD P2.2M	Polyvalent	2 / 3,20	1 / 1,50	4 - 6	0 to 250 mm	21

New!

TE41AUD

LIGHTWEIGHT ROLLING INDIVIDUAL PLATFORM IN FIBREGLASS AND ALUMINIUM

EN 131-7

Use:

Automatically opening ultra-light model designed to replace stepladders and combination ladders, but with a safe work platform and adjustable legs to adapt to level differences (pavements, steps).

Particularly suited to work at low heights in urban environments.

Technical specifications:

Patented platform opening/closing system : the two front legs that offer stability can be opened and positioned in a single movement.

420 x 480 mm floor with openings for better adherence.

Pivoting swing gate for a safe and easy access.

Uprights and adjustable legs made of composite fibreglass polyester : non-conductive and non-staining.

Floor and swing gates made of aluminium.

Flat rungs.

Tool holder injected in the handrail.



Ref.	Number of rungs	Platform height (m)	Working height (m)	Dimensions (m)	Weight (kg)
TE41AUD1,86M	2	0,50	1,50 / 2,20	1,86 x 0,75 x 0,22	12
TE41AUD2,14M	3	0,75	1,75 / 2,45	2,14 x 0,75 x 0,22	13
TE41AUD2,42M	4	1	2 / 2,7	2,42 x 0,75 x 0,22	14





TE61

ALUMINIUM STEPLADDER WITH TELESCOPIC FEET

EN 131

Use: Equipment for specific professional use.

Upon request, we can supply a heavy-duty aluminium stepladder for work sites and factories.
Repairs in the FACTORY under a quote

Technical specifications: 290 x 250 mm platform with chequered non-skid metal plate.
Folding guardrail.

Level adjustment rear feet to compensate for 0.80 m level differences.

Opening lock strut.

90 mm deep anti-slip ribbed drawn steps.

Access steps with 65° slope.

Safe load : 150 kg.

Made in France.

Three-year warranty for stepladder.

Ref.	Number of rungs	Platform height (m)	Extended height (m)	Height with folded guardrail (m)	Weight (kg)
TE61	4	0,875	1,52	1,285	9



E17NM

ALUMINIUM HOOK LADDER

Use: Straight ladder for linesmen, with a pair of hooks and safety chains.

The hooks fixed to the ladder uprights are also held by a steel cable going through the entire length of the uprights.

This new system offers full safety. Vertical or horizontal use.

Technical specifications: High-strength rectangular tube uprights.

Ø 26 mm rungs, serrated, anti-slip.

Rung distance: 25 cm.

Ø 35 mm hooks

Hanging Ø : 250 mm.

Strength : 390 kg.

Safe working load : 150 kg max.

On request, we can supply ladders in 5 and 6 metres.

Please contact us for replacement chains

Ref.	Height (m)	Width (cm)	Uprights section	Dimensions	Weight (kg)
E17NM 2	2	38	80 x 27 mm	2000 x 380 x 330 mm	8
E17NM 3	3	38	80 x 27 mm	3000 x 380 x 330 mm	11
E17NM 4	4	38	94 x 27 mm	4000 x 380 x 330 mm	13



E46

WOODEN SWINGBACK STEPLADDER

EN 131

Use: The top shelf of this ladder may not be considered to be a step.

⊕ Wood is a non-conducting material that is appreciated for its electrical insulation.
The ladder is assembled mechanically, allowing all possible repairs in the factory.
The ladder has 80 mm steps for more comfort.

Technical specifications: The uprights are made of top-quality light Canadian Western Hemlock, with wraparound anti-slip pads.

The steps are made of beech, with a comfortable 250 mm distance.

The ladder is impregnated with water-repellent and fungicide.

Safe working load : 150 kg max.

Ref.	Number of rungs	Platform height (m)	Work amplitude (m)	Dimensions	Weight (kg)
E46 5	5	1,40	3,07	1400 x 450 x 100 mm	7

Pole climbers

Type of network: LV  MV  HV 

G22

CLIMBING IRONS FOR METAL TOWERS AND PROFILED SUPPORTS

Technical specifications: Steel climbing irons with adjustable jaws from 5 to 20 mm, which takes the wing of the section on its thickness.

Climbing irons with a replaceable forged buckle (galvanisation and paint) guard rubber pad and leather straps.



Ref.	Dimensions	Weight (kg)
G22	235 x 110 x 80 mm	3,2
Spare part(s):		
G22A	Replacement plate (sold singly)	
G22B	Set of 4 replacement rubber pads	
S22S	Full set of replacement leather straps	

Note: upon request, we can supply the same type of climbing iron (as G22) for climbing poles, towers and sections from the front (less fatigue due to better foot positioning). On request, we can also supply climbing irons for beams. Please contact us for adjustable types.

G23

CLIMBING IRONS FOR METAL POLES

Use: Climbing irons designed especially for climbing metal poles with max. opening diameter 180 mm or 300 mm depending on model.

Technical specifications: Steel climbing irons with forged buckles and leather straps for tapered, hexagon or cyclical poles made of metal, cement or wood.

The parts in contact with the pole are coated with a rubber tube and pad.



Ref.	Version	Capacity (mm)	Dimensions	Weight (kg)
G23	Non-adjustable	180	360 x 220 x 180 mm	4
G23BIS	Adjustable	140 to 300	360 x 220 x 180 mm	6,5
Spare part(s):				
G23A	Set of 2 replacement rubber pads			
G23B	Set of 2 replacement rubber tubes			

D2001

CLIMBING IRONS WITH GAFFS FOR CONCRETE POLES

Technical specifications: Light-alloy climbing iron tightened automatically by the bungee cord tension, with forged buckles and 140 to 460 mm tightening to grip all sections of concrete poles.

Deformation load : 500 DaN per foot.



Ref.	Capacity (mm)	Dimensions (mm)	Weight (kg)
D2001	120 to 450	560 x 160 x 160	7
D2001L	120 to 520	635 x 200 x 180	7,70
Spare part(s):			
G25S	Replacement bungee cord		
KSD2001	Complete set of replacement belts for model D2001		
KSD2001L	Complete set of replacement belts for model D2001L		



G20  

CLIMBING IRONS WITH GAFFS FOR WOODEN POLES

Use: For wooden poles.

Technical specifications: Treated forged steel climbing iron with forged buckles, 7 tempered gaffs and belts.

Model with sewn and riveted belts.

Ref.	Type	Pole diameter (cm)	Number of gaffs	Dimensions	Weight (kg)
G20 24	1	24	7	385 x 195 x 95 mm	2,6
G20 26	2	26	8	420 x 220 x 100 mm	2,9
G20 32	3	32	8	490 x 250 x 100 mm	3,6
G20 35	4	35	8	515 x 230 x 240 mm	3,6

Accessories:

S23 Full set of belts



G21  

CLIMBING IRONS WITH GAFFS FOR WOODEN POLES

Use: Climbing irons designed especially for electricity companies and contractors.

Technical specifications: Treated forged steel climbing irons with forged buckles and leather belts. Six solid forged gaffs.

Ref.	Type	Pole diameter (cm)	Dimensions	Weight (kg)
G21 25	2	25	370 x 200 x 170 mm	2,7
G21 30	3	30	370 x 200 x 170 mm	3
G21 35	4	35	370 x 200 x 170 mm	3,2

Spare part(s):

S22 Full set of belts



G24  

CLIMBING IRON WITH GAFFS FOR WOODEN POLES

Technical specifications: Treated forged steel climbing iron with forged buckles and belts. Each iron has 7 tempered gaffs.

Ref.	Type	Pole diameter (cm)	Dimensions	Weight (kg)
G24 24	1	24	390 x 190 x 175 mm	2,7
G24 30	2	30	425 x 230 x 175 mm	3
G24 35	3	35	495 x 260 x 180 mm	3,2

Spare part(s):

G27PM Pair of climbing irons with gaffs, 24 cm

G24J Full set of belts

Note: please contact us for irons with riveted belts.

Pole climbers

Type of network: LV  MV  HV 

G26

CLIMBING IRONS FOR PRUNERS

Use: Designed to climb on trees and poles of different diameters.

 **Simple, lightweight and efficient.**

Technical specifications: Made in forged steel.

One interchangeable gaff.

Leather straps.

Foamed calf protectors.



Ref.	Dimensions (mm)	Weight (kg)
G26	440 x 150 x 100	2,7

TP73

WORK PLATFORM FOR ELECTRICITY POLES

Use: Removable work platform, fastens rapidly to all types of electricity poles.

Round wooden poles, diameter 150 to 300 mm

Concrete poles with 200x200 to 400x400 section, put in place by a single worker.

Weight 10 kg, lifting eye, with a line pulled by the operator from the top of the pole.

Fastened around the pole by a very safe strap and protective sleeve; it keeps it in the working position, with perfect height and angular sector adjustment.

Tension secured by lever ratchet, strength 5000 daN.

The textile strap tension will make up for irregular pole shapes and jolts transmitted by the operator on the platform.

At the end of the platform, a 50-mm high retaining plate on the surface makes the platform safer by ensuring that the operator's feet do not go past the safe working area.

Technical specifications: The welded load transfer diagonal members demarcate the operator's area of work; they take up the load and make the platform easier to grasp for transport to the site.

The welded connection of aluminium parts is made safe by steel break-stem rivets, for a longer life and for greater operator safety.

These non-removable rivets make it possible to visually inspect the fastening.

The materials - aluminium, galvanised steel and textile - make it easy to use in all weather, with no oxidation.

Our platform is delivered with untreated welds so that the seams, fastenings and materials can be seen as they are every day by the operator to immediately identify any occasional failure.

Working load : 100 daN

Test load : 265 daN, Norisko test certificate



Ref.	Dimensions (mm)	Weight (kg)
TP73	1000 x 356 x 310	10



TC12

POSITIONING FOOT-REST FOR CONCRETE POLES

Use: Foot-rest for positioning a climber on a concrete pole, with standardised holes, no wider than 340 mm at the usage point.

Technical specifications: Composition:

- Ø 14 mm steel rod with a ribbed metal stirrup at one end and holes for adjusting the mobile stirrup at the other end,
- mobile stirrup with a tube in the lower part for positioning it on the support rod; it is held by a spring pin placed on the side, which fits into one of the rod adjusting holes depending on the spacing required.

The two parts above are made integral with each other by a chain that keeps them from falling separately. For effective immobilisation with the holes made in the concrete pole, each of the two stirrups has a pin placed laterally, its centre being 70 mm away from the centre of the support rod.

Safe load : 150 kg.

Ref.	Charge admissible (kg)	Weight (kg)
TC12 14	150	2,4
Spare part(s):		
TC12K	Repair kit including : 1 S-shaped steel piece, 1 copper tube, 1 spring and 1 shaft	



LWA146

POSITIONING GIRDER

Use: The girder is used to position one or two operators when working on concrete poles.

It allows to either work directly on the conductor configuration or to work from distance during live working. The operator must be secured directly to the pole.

Technical specifications: Girder made of aluminium alloy.

Safe working load : 265 daN 2 workers maximum on the girder, one on each side.

The girder bears the following information :

- the name of manufacturer
- the month and year of production
- the serial number
- the Safe Working Load of 265 daN



Ref.	Weight (kg)	Version	Dimensions
LWA146C	9,8	Small version	1,6 x 0,1 x 0,5 m
LWA146	10,8	Big version	2 x 0,1 x 0,5 m

TD10

GUY-WIRING DEVICE FOR WOODEN POLES

Use: Device designed to guarantee stability to wooden pole before operations on it for either a repair, a junction, a replacement or a temporary anchorage point after an accident.

Technical specifications: Bracer including:

- 1 clamp with 2 jaws, parallelogram type articulation,
- 5 aluminium alloy spliced tubes that make up the control rod, each approximately 1 m long,
- 2 straps brought together by a central ring,
- 3 guys made up of a \varnothing 12 mm line, 15 m long each, with lugs
- 3 anchor stakes, 1 m, galvanised steel, \varnothing 18 mm

System supplied in a box.



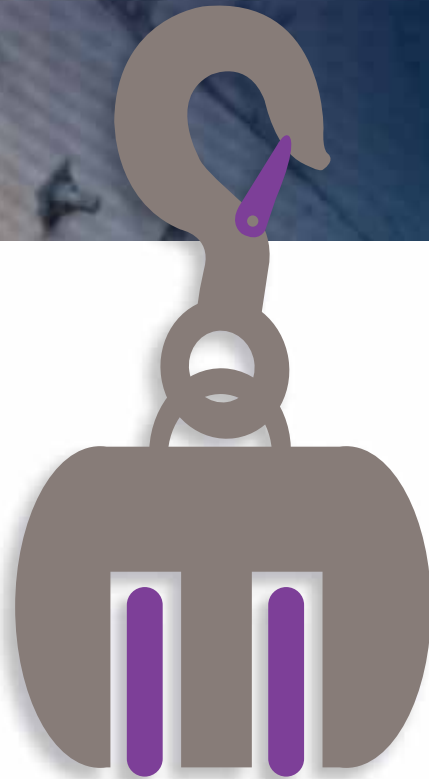
Ref.	Dimensions (mm)	Weight (kg)
TD10	480 x 340 x 200	26,5
Accessories:		
TD10C	Rope with lugs for guys, \varnothing 12 mm, 15 m long	
701	Hexagonal earthing rod 1 m \varnothing 18 mm	

Note: only the three stakes are stored outside the box, held with straps.





PULLING UNWINDING LIFTING



PULLING UNWINDING LIFTING

Tirvit tensioners and accessories	484
Come along clamps, cable clamps	486
Pulling sleeves	487
Wire pullers, needles and accessories	489
Hand-operated winches	491
Swivels, dynamometers	491
Rope ties, slings	492
Hoists, lashing systems	493
Straps, slings and ropes	496
Anchor clamps, pole extractors, jacks	497
Lifting and handling equipment	499
Unwinding equipment, pulleys, tensioners	501
Pulling/lifting winches	505





T43 - T44 - T45

«TIRVIT» TENSIONER

Use: The TIRVIT tensioner is light, small, sturdy and easy to handle, comprising two self-gripping automatic cams which grip the cable or wire rope directly. It is used to tension electric or telephone cables, guys and fences etc, and to pull out stakes, brush and thicket, etc.

Ref.	Capacity (kg)	Cable Ø	Cable cross-section	Dimensions (mm)	Weight (kg)
T43F2	400	2 - 8 mm	3 - 40 mm ²	535 x 90 x 90	4
T44F3	600	7 - 15 mm	30 - 120 mm ²	625 x 110 x 110	5,2
T45F4	800	14 - 18 mm	90 - 220 mm ²	625 x 115 x 115	6,2



T46

JAW OR COMPLETE GRIP FOR «TIRVIT» TENSIONERS

Ref.	Version	Weight (g)
T46 P/T43	For «Tirvit» tensioner T43	280
T46 P/T44	For «Tirvit» tensioner T44	520
T46 P/T45	For «Tirvit» tensioner T45	600



T49

UNIVERSAL SPRINGLESS GROOVED CAM FOR COPPER CABLE

Technical specifications: For aluminium cable, use universal cam ref. T49 with planed teeth (to ensure a smooth surface).

Ref.	Description	Use	Weight (g)
T49 P/T43	Universal springless grooved cam	For Tirvit tensioner T43	100
T49 P/T44-45	Universal springless grooved cam	For Tirvit tensioners T44 and 45	190
T49R P/T43	Spring for universal grooved cam	For Tirvit tensioner T43	40
T49R P/T44-45	Spring for universal grooved cam	For Tirvit tensioners T44 and 45	60

Tirvit tensioners and accessories

Type of network: LV  MV  HV 

T48C

ANCHOR CHAIN

Use: For «Tirvit» tensioners ref T43 and T44.



Ref.	Length (mm)	Weight (g)
T48C	900	660

T48E

ANCHOR SLING

Use: For «Tirvit» tensioner ref. T45.



Ref.	Length (m)	Weight (g)
T48E	105	350

T48

ACCESSORIES FOR «TIRVIT» TENSIONERS

Ref.	Description	Use
T48R	Spring-loaded safety clip	For Tirvit tensioners T43 and T44
T48L	Safety clip with soldered blade	For Tirvit tensioner T45
T48AL	Set of 5 lever shafts with nut	For Tirvit tensioners T43, T44 and T45
T48AB	Set of 20 rod shafts with nut	For Tirvit tensioners T43 and T44
T48AB/1	Set of 20 rod shafts with nut	For Tirvit tensioner T45
T48BC	Short rod	For Tirvit tensioner T43
T48BC/1	Short rod	For Tirvit tensioners T44 and T45
T48BL	Short rod	For Tirvit tensioner T43
T48BL/1	Short rod	For Tirvit tensioners T44 and T45
T48AC	Set of 10 cam shafts with segment	For Tirvit tensioner T43
T48AC/1	Set of 10 cam shafts with segment	For Tirvit tensioner T44 and T45



T47

WIRE ROPE GRIPPER

Use: This wire rope gripper with a self-gripping jaw will hold a wire rope at any point along its length to hold a load or to take up the tension while fixing or adjusting the slack end.

Technical specifications: Light alloy body,
Complete with shackle for anchoring,
Spring operated jaw for automatic gripping.
Breech loading.

Ref.	Capacity (kg)	For cables	Weight (g)
T47 P/T43	320	from 3 to 8 mm	290
T47 P/T44	380	from 7 to 15 mm	550
T47 P/T45	400	from 14 to 18 mm	610



G05

LEVER-OPERATED COME ALONG CLAMP OR TENSIONER

Technical specifications: Clamp for tensioning cables, made of hardened steel.

Note : please contact us concerning clamps for copper or steel cable from 5 to 15 mm.

Ref.	Tightening capacity	WLL (daN)	Diameter (mm)	Dimensions (mm)	Weight (g)
G05 N1	Ø 1 to 5 mm	400	17	120 x 75 x 25	300
G05 N2	Ø 1 to 12 mm	800	19	135 x 95 x 35	950



G08 - G10 - G12

TENSIONING COME ALONG CABLE CLAMP

Use: The lever-operated tensioning cable clamp is the only clamp to fully transform the traction effort into tightening effort.

The choice of this clamp should be based not only on the cable diameter but also the efforts involved. In normal use, the coupling link shaft should never reach the end of the stroke.

Technical specifications: Models G08 and G10 made of aluminium alloy.
Model G12 made of plasticized aluminium alloy.

- G08 : Alu/Canna steel Ø 12.5 to 19.6 mm : 93.2 to 228 mm²
Almelec Aster Ø 12.5 to 19.6 mm : 93 to 228 mm²
Almelec/Pastel steel Ø 15.8 to 147.1 mm²
Almelec/Phlox steel Ø 10 to 11.25 mm : 59.7 and 75.5 mm²
- G10 : Alu/Canna steel Ø 6 to 14 mm : 22 to 116.6 mm²
Almelec Aster Ø 6 to 14 mm : 22 to 117 mm²
Almelec/Phlox steel Ø 8.3 : 37.7 mm²
- G11 : LV cable strand/draw onto base for sections 54.6 and 70 mm²
8 strand telecom cable

Ref.	Capacity	WLL (daN)	Tightening length (mm)	Weight (kg)
G08	10 to 20 mm	1400	175	4,1
G10	6 to 14 mm	800	160	1,6
G12	6 to 13,5 mm	800	160	1,6

For greased cables, please contact us concerning non-slip groove coatings.

Pulling sleeves

Type of network: LV  MV  HV 

C91

PULLING SLEEVE OR RILSAN SINGLE LOOP CABLE PULLING DEVICE

Use: The sleeves are specially designed to cover an entire cable (carrier + wires) during connection works.

Technical specifications: Single loop rilsan sleeve

In order to create a connection, the following are strictly necessary :

- 2 ref. C85-5 sleeves (one for the carrier and one for the pull-cord),
- 1 ref. C91 sleeve to cover both carrier and wires,
- 1 ref. E41-3 swivel.

- C91 3 : For LV overhead network from 3 x 25 mm² + P (54,6 mm²) to 3 x 35 mm² + P (54,6 mm²)
- C91 4 : For LV overhead network from 3 x 35 mm² + P (54,6 mm²) to 3 x 70 mm² + P (54,6 mm²) or P (70 mm²)
- C91 5 : For LV overhead network from 3 x 150 mm² + P (70 mm²)



Ref.	For cables	Load	Length (mm)	Weight (g)
C91 3	Ø 20 to 25 mm	0,3 t	600	250
C91 4	Ø 25 to 32 mm	0,6 t	650	600
C91 5	Ø 42 to 55 mm	0,8 t	900	1200

Please contact us for ordering parts with different dimensions

C85

PULLING SLEEVE OR LV AND MV CABLE-PULLER FOR OVERHEAD NETWORKS

Use: Specially designed sleeve for pulling overhead cables.

Technical specifications: Galvanized steel single eye sleeve.

- Low voltage from 3 x 35 mm² + P (54.6 mm²) to 3 x 70 mm² + P (54.6 mm²) or P (70 mm²).

To create a connection, the following are required :

- 2 ref. C85-5 sleeves (one for the carrier and one for the pulling cord),
- 1 Rilsan sleeve ref. C91-4 covering the whole cable (carrier + conductors),
- 1 ref. E41-3 swivel block.

- Low voltage from 3 x 150 mm² + P (70 mm²).

To create a connection, the following are required :

- 2 ref. C85-5 sleeves (one for the carrier and one for the draw cord),
- 1 ref. C91-5 Rilsan sleeve covering the whole cable (carrier + conductors),
- 1 ref. E41-3 swivel.

- Medium Voltage from 3 x 25 mm² + 25 mm² to 3 x 240 mm² + 25 mm².

To create a connection, the following are required :

- 2 ref. C85-5 sleeves (one for the carrier and one for the pulling cord),
- 1 ref. C93 Rilsan sleeve covering the whole cable (carrier + conductors),
- 1 ref. E41-3 swivel.



Ref.	For cables	Load	Length (mm)	Weight (g)
C85 5	Ø 10 to 12 mm	0,7 t	350	125
C85 1	Ø 10 to 15 mm	0,4 t	300	90
C85 2	Ø 15 to 20 mm	0,8 t	350	130
C85 3	Ø 18 to 25 mm	0,8 t	425	135
C85 4	Ø 23 to 30 mm	1,65 t	475	220

Other dimensions available on request.



C90

DOUBLE LOOP GALVANIZED STEEL PULLING SLEEVE OR CABLE PULLER.

Use: Suitable for pulling electrical cables.

Technical specifications: Double loop galvanized steel sleeve.

Ref.	For cables	Load	Length (mm)	Weight (g)
C90 3	Ø 25 to 30 mm	1,65 t	475	270
C90 4	Ø 30 to 38 mm	1,65 t	500	295

Other dimensions available on request.



C86

PULLING SLEEVE OR CABLE PULLER IN GALVANIZED STEEL FOR LV AND MV UNDERGROUND NETWORKS

Use: Pulling sleeve specially designed to pull underground electric cables.

Technical specifications: Sheathed galvanised steel single loop sleeve.

- C86 3 : For underground connection LV HGE 33S33 cables from 3 x 16 mm² + 16 mm² (Ø 24.3 mm)
- C86 4 : For HN 33S33 network cables from 3 x 50 mm² + 50 mm² (Ø 30.4 mm) and 3 x 95 mm² + 50 mm² (Ø 34.7 mm),
For underground connection LV HGE 33S33 cables from 1 x 35 mm² + 35 mm² (Ø 27 mm),
For underground connection LV HGE 33S33 cables from 3 x 25 mm² + 25 mm² (Ø 29 mm) and 3 x 35 mm² + 35 mm² (Ø 30 mm)
- C86 5 : For HN 33S33 network cables from 3 x 150 mm² + 70 mm² (Ø 42.1 mm) and 3 x 240 mm² + 95 mm² (Ø 51.5 mm)
- C86 6 : For HN 33S23 network cables from 3 x 50 mm² + 25 mm² (Ø 68 mm) and 3 x 95 mm² + 25 mm² (Ø 75.8 mm)
- C86 7 : For HN 33S23 network cables from 3 x 150 mm² + 25 mm² (Ø 82.8 mm) and 3 x 240 mm² + 25 mm² (Ø 91.4 mm)

Ref.	For cables	Load	Length (mm)	Weight (g)
C86 3	Ø 15 to 25 mm	2 t	500	170
C86 4	Ø 25 to 45 mm	3,3 t	600	300
C86 5	Ø 45 to 60 mm	3,3 t	650	350
C86 6	Ø 60 to 80 mm	6,1 t	700	900
C86 7	Ø 80 to 100 mm	6,1 t	900	1600

Other dimensions available on request. For LV underground network cables or connections, use of a ref. E41-4 swivel is recommended.

Wire pullers, needles and accessories

Type of network: LV  MV  HV 

A07

3 MM PULLING NEEDLE IN CASE + REPAIR KIT

Technical specifications: The repair kit contains 1 connection, 2 threaded end fittings and 1 tube of glue.



Ref.	Length (m)	Weight (g)	Dimensions (mm)
A07 30	30	780	325 x 325 x 47
A07 50	50	960	340 x 330 x 45

NB: if required, we are able to supply Ø 11 mm needles, Ø 24 mm screwable needles, pipe flushing materials and pneumatic pulling needles and accessories.

A01-2

PULLING NEEDLE Ø 4 MM (NYLON PROBE) WITH 1 EYE AND 1 FLEXIBLE HEAD



Ref.	Length (m)	Diameter (mm)	Weight (g)
A01 2	5	4	80

N.B. If requested, we are able to supply Ø 11 mm needles, Ø 24 mm screwable needles, pipe flushing materials and pneumatic needles and accessories.

T39

WIRE PULLER

Use: Simple to use for flat steel electricity and telephone cables.

Technical specifications: This model is dismantlable
PVC Case, 300 mm diameter, flat steel surface



Ref.	Length (m)	Weight (kg)
T39PM	30	2,1
T39GM	60	3,25



A06060TD

Ø 4,5 MM NEEDLE MOUNTED ON DRUM REEL

Technical specifications: Needle mounted on handleless drum wheel, with brass end fittings at each end.

Ref.	Diameter (mm)	Length (m)	Weight (kg)
A06060TD	4,5	60	5

Accessories:

A06060	Fibreglass PVC sheathed needle
KRA06060	Repair kit

Other dimensions available on request.



A08060TD - A08100TD

Ø 5,5 MM NEEDLE MOUNTED ON DRUM REEL

Use: For small and medium sleeves.

⊕ **Light, compact, sturdy and efficient.**

Technical specifications: Needle mounted on drum wheel without winding handle.

Ref.	Diameter (mm)	Length (m)	Weight (kg)
A08060TD	5,5	60	7
A08100TD	5,5	100	9

Accessories:

A08060	Fibreglass PVC sheathed needle for 60 m
A08100	Fibreglass PVC sheathed needle for 100 m
KRA080610	Repair kit

Other dimensions available on request.



A10100TD - A10150TD - A10200TD

Ø 9 MM NEEDLE MOUNTED ON DRUM REEL

Use: For medium and large sleeves.

⊕ **Compact and efficient**
The wheels (aired) facilitate use

Technical specifications: Needle mounted on drum reel without winding handle.

Ref.	Diameter (mm)	Length (m)	Weight (kg)
A10100TD	9	100	24
A10150TD	9	150	29
A10200TD	9	200	38,7

Accessories:

A10100	Fibreglass PVC sheathed needle for 100 m
A10150	Fibreglass PVC sheathed needle for 150 m
A10200	Fibreglass PVC sheathed needle for 200 m
KRA10101520	Repair kit

Other dimensions available on request.

Hand-operated winch

Type of network: LV  MV  HV 

T410

PULLING AND LIFTING TOOL WITH LIMITED CABLE TRAVEL, FORCE 1600/3000 AND 3200/6000 KG

Use: Very compact, light design, particularly recommended for situations in which its light weight is a primary consideration : work in mountain areas, particularly at great heights, works in mines, quarries, forest plantations, agriculture, firefighting, civil defence, public works, industrial companies, mechanical workshops, electricity and telephone companies, etc.

Technical specifications: Equipment supplied with 20 m of 11,6 or 16 mm cable.



Ref.	Lifting	Traction	Breaking load (kg)	Cable Ø	Dimensions (cm)	Weight (kg)
T410 15	1,6 t	3 t	9680	11,6 mm	62 x 30 x 15	26
T410 35	3,2 t	6 t	17200	16 mm	72 x 32 x 14	33

Swivels, dynamometers

D85

TRACTION DYNAMOMETER

Use: Traction dynamometer for pre-assembled cables for regulating tensioned cable networks. Extremely robust and reliable instrument, all-weather instrument.

Technical specifications: Graduation in decanewton

Accuracy (±0.6%) fulls cale

Waterproof (IP65)

Made from special, cold resistant steel approved for low temperature operation (-20°C)

Occasional overload : 100 % of the nominal value

Static load safety factor 5:1

Fully pressure tight, and each instrument is pressure tested.



Ref.	Force	Graduation	Length (mm)	Device Ø	Weight (kg)
D85NB	0-1000 daN	20 daN - 2 mm	266	50 mm	1,9
D85NM	0-2000 daN	25 daN - 2 mm	395	86 mm	7,8

E41

UNWINDING SWIVEL

Technical specifications: Swivel with bearing and cover.

Ø 16 and 22 mm swivels are suited to the dimensions of pipes for fibre cables.

Friction is obtained by bronze rings instead of ball bearings.

For Ø 34 and 38 mm swivels friction is obtained using ball bearings.



Ref.	Ø	Passing size	Breaking	Weight (g)
E41 5	16 mm	8 mm	1900 daN	80
E41 2	22 mm	10 mm	3000 daN	160
E41 3	34 mm	16 mm	4900 daN	520
E41 4	38 mm	16 mm	7500 daN	690



TC155

INSULATED STRANDED NYLON POLYESTER ROPE TIE

Use: Used to attach rope Hoist ref. TP10 or feed pulley ref. TP90 to pull LV or MV network conductors.

Technical specifications: Manufactured from 16 mm diameter synthetic fibres.

Spliced loop at each end.

Ref.	WLL (daN)	Length (m)	Weight (g)
TC155	180	1	250



E30 - E35

STEEL SLING WITH THIMBLE EYE AT EACH END

Ref.	Ø	Length (m)	Force on 1 strand	Weight (g)
E30 0,80 1,3T	12 mm	0,8	1,3 t	910
E35 1,20 1,3T	12 mm	1,2	1,3 t	1110
E35 2 1,3T	12 mm	2	1,3 t	1510
E35 3 1,3T	12 mm	3	1,3 t	2010
E30 0,80 2,5T	16 mm	0,8	2,5 t	1940
E35 1,20 3T	18 mm	1,2	3 t	2930
E35 2 3T	18 mm	2	3 t	3840
E35 3 3T	18 mm	3	3 t	4980
E35 1,20 4 T	20 mm	4	4 t	3960
E35 3 5T	22 mm	5	5 t	7890



E27

CHAIN SLING

Use: Used for carrying H61 transformers.

Ref.	Force (kg)	Length (m)	Weight (kg)
E27	1500	1	6,4



P12

MANUAL RATCHET LEVER HOIST

Technical specifications: Light, sturdy compact hoist :

- The chain is released unloaded.
- The short-linked chain is equipped with a rotating hook with wide opening capacity and safety clip.
- The hoisting tackle is protected.



Ref.	WLL (kg)	Standard lifting height (m)	Number of strands	Max force on lever	Dimensions (mm)	Weight (kg)
P12A	750	1,5	1	20 daN/kg	350 x 155 x 140	7
P12A 3M	750	3	1	20 daN/kg	350 x 155 x 140	8
P12B	1500	1,5	1	26 daN/kg	400 x 165 x 175	11
P12B 3M	1500	3	1	26 daN/kg	400 x 165 x 175	13
P12C	3000	1,5	1	33 daN/kg	410 x 200 x 200	21
P12C 3M	3000	3	1	33 daN/kg	410 x 200 x 200	24

P15

LUG ALL WINCH HOIST

Use: This range of products is described as a range of «winch hoists» because they provide lifting as well as pulling operations. They may be used in all positions or situations. They are also suitable for underwater operation.

This apparatus is designed to be used by all building trades for the following operations: Lifting, Pulling, Repositioning, Lowering, Tightening and Tensioning.

The entire range of that product is intended for industrial purposes only and not for lifting or supporting persons.

⊕ Compact tool with small volume for all types of work at height by all assembly or breakdown teams in the majority of companies. It is equipped with its own fuse, providing self-limitation of overloads since the operating handle is designed to bend in case of severe overload. Low maintenance and open design for easy inspection.



Ref.	Pulling strength on 1 strand	Pulling strength on 2 strands	Cable diameter (mm)	Cable length (m)	Dimensions	Weight (kg)
P15 1	500 kg - lifting height : 4 m	1000 kg - lifting height : 2 m	5,6	4	530 x 115 x 130 mm	4,2
P15 2	800 kg - lifting height : 6.6m	1600 kg - lifting height : 3.3 m	6,4	6,6	780 x 150 x 130 mm	6,2

Repairs are carried out in the factory following acceptance of estimate



P17 ⚡ ⚡

ALUMINIUM CABLE WINCH HOIST

Technical specifications: Equipped with 3 hooks, each with safety clip.

Ref.	Pulling strength on 1 strand (kg)	Pulling strength on 2 strands (kg)	Cable diameter (mm)	Cable length (m)	Dimensions	Weight (kg)
P17 2	1000	1600	63	6	620 x 170 x 170 mm	6.200



TP10 ⚡

INSULATED ROPE-OPERATED HOIST 240 DAN

Use: This hoist is used to transmit traction effort from the ground to a wire or overhead network cable. It is also used to take up the mechanical tension of conductors for insulator and insulator fitting replacement and to carry out adjustments to conductors or transfer them from one support to another.

Technical specifications: Operates using 2 insulated tackle blocks with 3 sheaves, manufactured in insulated material, external diameter 80 mm and deep groove diameter 60 mm. Hoist fitted with 25 m of Ø 10 mm nylon braided rope. Dimensions: 400 x 180 x 80 mm.

The tackle blocks are fitted with a swivel hook including rust proofed attachment ring and steel locking clip, with 22 mm opening.

Ref.	Max load	Weight (kg)
TP10	240 daN	2,89
Spare part(s):		
C325 A	Polyamide or white nylon braided rope 25 m Ø 10 mm	
TP10L	Replacement safety clip for TP10 hoist	



T88F ⚡

INSULATED ROPE-OPERATED HOIST 550 DAN

Use: Insulated rope-operated hoist 550 daN for lifting H61 transformer.

Technical specifications: Sheave and pulley blocks made in polycarbonate.

The pulley blocks are equipped with corrosion resistant swivel hooks.

Hoist delivered with 100 m of polyamide/nylon braided rope Ø 12 mm.

Ref.	WLL (daN)	Dimensions (mm)	Weight (kg)
T88F	550	400 x 400 x 250	10,2

TP11

INSULATED ROPE-OPERATED HOIST 1300 DAN

Use: This hoist is used for both traditional handling and lifting operations and for carrying out adjustments to conductors or changing the position of a triangulation network carried out with insulated sticks on a support.

Technical specifications: Hoist manufactured from reinforced fibreglass polyester.

Maximum vertical static load : 1,300 daN.

Maximum load without audible or visible deformation: 7,800 daN.

Fitted with 2 tackle blocks with 3 sheaves of dimensions 120 x 90 mm weighing 2.2 kg each, fitted with a rotating hook with safety latch with adjustable swivel in anti-ageing steel.

The sheaves are fitted with sealed, permanently lubricated ball bearings assembled without any lateral play on a hollow shaft through which the rigging rope passes to form the anchor point.

The swivel hook rotates at an angle of at least 15° around its axis.

The hook of the fixed tackle block is off centre to counter-balance the effort on the tackle rope and keep the hoist in balance.

The route followed by the rope strands across the sheaves is indelibly marked on the tackle block.

The blocks have no sharp edges to prevent damaging the rigging rope.

The outer edges of the sheave rotation shafts are creased to form a seam.

Hoist supplied with 50 m of 12 mm diameter polyamide nylon braided rope.



Ref.	WLL (daN)	Weight (kg)
TP11	1300	9,7

T89

ALL PURPOSE SAFETY LASHING SYSTEM

EN 12195-2

Technical specifications: Device with :

- 100% polyester blue webbing strap, width 50mm
- N° 1 anchor fitting
- Tightener with double safety mechanism



Ref.	Length (m)	Lashing capacity (daN)	Breaking force (daN)	WB (daN)
T89	8	2000	4000	6000



E25

ROUNDSLING

EC MARKING / EN 1492-2

Technical specifications: Highly resistant 100% parallel polyester fibres in anti-abrasion-treated sheath.

Level of resistance equal to that of steel, but lighter, more flexible, easier to handle, and compliant with safety requirement. Low elongation.

Totally rot-proof and chemical proof.

Each type of roundsling is identified by a different colour. Roundslings also bear a label indicating the maximum vertical static load (CMU) and the materials used.

If requested, it is possible to adapt 1 PVC sleeve with a sheath stitched onto a loop. (factory operation)

Safety factor 7:1

Ref.	Type	WLL	Extended length (m)	Colour	Weight (g)
E25A2	A 18	1 t	1	Purple	200
E25A3	A 20	2 t	1	Green	350
E25B1	B 22	3 t	1,5	Yellow	800
E25C1	C 25	4 t	1,5	Grey	1300
E25C2	C 27	5 t	2	Red	2000
E25C3	C 30	6 t	2	Brown	2400
E25D1	D 38	8 t	2,5	Blue	4000



E26

SYNTHETIC FLAT WEBBING SLING

EC MARKING / EN 1492-1

Technical specifications: 100% high tenacity Polyester.

2 carrying straps with two reinforced folded loops.

Safety Factor 7:1

Ref.	Type	WLL	Extended length (m)	Width (mm)	Colour	Weight (g)
E26 1	B 1000	1 t	1	50	Purple	300
E26 3	B 2000	2 t	2	60	Green	1000
E26 4	B 2000	3 t	2	75	Yellow	1300
E26 5	B 3000	4 t	3	100	Grey	2300



C319

SEMI-STATIC ROPE 18 MM

Use: For lifting and working at height.

Technical specifications: Very strong semi-static polyamide rope Ø 10,5 mm.

Ref.	Length (m)	Packaging	Weight (kg)
C319050	50	Roll of rope	3,2
C319060	60	Roll of rope	3,9
C319100	100	On reel	6,5
C319	200	On reel	13

Straps, slings and ropes

Type of network: LV  MV  HV 

C320

POLYPROPYLENE ROPE (4 STRANDS)



Ref.	Ø	Length	Breaking resistance (kg)	Weight (kg)
C320 10	10 mm	100 m	1560	4,5
C320 12	12 mm	100 m	2220	6,5
C320 14	14 mm	100 m	3060	9
C320 B	12 mm	25 m	2220	1,63
C320 C	14 mm	25 m	3060	2,25

C325

POLYAMIDE OR WHITE NYLON BRAIDED ROPE (8 REELS)



Ref.	Ø	Length	Breaking resistance (kg)	Weight (kg)
C318	3 mm	100 m	200	0,5
C325 06	6 mm	100 m	650	1,7
C325 08	8 mm	100 m	1100	4
C325 10	10 mm	100 m	1600	5,5
C325 12	12 mm	100 m	2400	8,5
C325 14	14 mm	100 m	2800	10
C325 A	10 mm	25 m	1600	1,38
C325 B	12 mm	50 m	2400	4,25

6 mm diameter rope is recommended for anchoring life buoys. Rope C325A is recommended for hoist TP 10. Rope C325B is recommended for hoist TP 11.

Anchor clamps, pole extractors, jacks

TE40 - TE45 - TE50

ANCHOR CLAMP

Use: The anchor clamp is used to create a fixed anchor point for one or two LV overhead connections of insulated conductors leaving a LV overhead network as bare conductors.

Technical specifications: Cast-iron anchor clamp with ring tightening screw.

The shape of the clamp jaw is adapted to the item on which it is to be installed.

The lengthened ring of the anchor clamp receives the insulated hook of the anchor clamp approved for remote work on energised cables.



Ref.	Version	Tightening capacity	Dimensions	Weight (g)
TE40	Small A type for round parts	47 mm	140 x 100 x 65 mm	450
TE45	Large D type for flat aprts	14 mm	100 x 95 x 70 mm	590
TE50	Small C type for flat parts	14 mm	100 x 90 x 50 mm	360



C390

POLE EXTRACTOR JACK

Technical specifications: Ratchet lifting jack with chain and foldaway safety handle.
Spare parts supplied on request.

Ref.	Force	Stroke	Height (mm)	Weight (kg)
C390	5 t	400 mm	800	32
Spare part(s):				
C390M	Foldaway safety handle			
C390C	Chain, length 1,05 m			



V042

RATCHET CONTROLLED CABLE DRUM LIFTER

Use: Reliable jack with central screw mechanism, used for lifting and unwinding cable drums.

A round shaft is threaded through the cable drum and attached to a part at the end of the central screw mechanism for unwinding the cable.

The design of this device makes it extremely stable on all types of ground.

Technical specifications: Steel head, screw, column and base.

Bronze nut.

Supplied without spindle bar (to be ordered separately).

Ref.	Max load	Min-Max drum Ø	Min. height (cm)	Stroke	Screw Ø	Base Ø	Weight (kg)
V042 01T	1 t	1,20 - 1,76 m	55	380 mm	49 mm	40 cm	24
V042 02T	2 t	1,50 - 2,30 m	70	500 mm	59 mm	57 cm	35
V042 04T	4 t	1,90 - 3,10 m	90	700 mm	69 mm	57 cm	57
V042 06T	6 t	1,90 - 2,70 m	90	500 mm	74 mm	70 cm	64
V042 10T	10 t	2,50 - 3,50 m	120	600 mm	89 mm	77 cm	113

Accessories:	
AV042 1T	Spindle bar for V042 01T, length 2 m, Ø 60 mm, thickness 6 mm
AV042 2T	Spindle bar for V042 02T, length 2 m, Ø 76 mm, thickness 8 mm
AV042 4/6T	Spindle bar for V042 04T and V042 06T, length 2 m, Ø 80 mm round solid tube
AV042 10T	Spindle bar for V042 10T, length 2 m, Ø 90 mm round solid tube



V16

POLE EXTRACTOR

Technical specifications: Steel pole extractor with specially shaped foot for left-right rotation without needing to dismantle the system.

Fixing using a 1,2 m strap.

Ø 40 mm bushing.

Delivered without handle (use a Ø 40 mm handle).

Ref.	Dimensions (mm)	Weight (kg)
V16	250 x 250 x 200	5

Lifting and handling equipment

Type of network: LV  MV  HV 

TC160H

INSULATING TRANSPORT HOOK 50 DAN

IEC 60900: 2012

Use: Live working up to 1000V AC and 1500V DC.

Hook is used with transport block to hang bags with tools or equipment during live working on overhead lines.

Technical specifications: Insulating hook made from red polyamide with 30% addition of fibreglass.

The hook has two holes (diameter 16mm) for interlacing rope.

Max. load : 50daN



Ref.	Max load	Weight (g)
TC160H	50 daN	45

F60

LIFTING FORK FOR WOODEN POLES

Technical specifications: Made in special forged steel.

- 3 tips (united with the fork)

- socket Ø 45 mm

- opening 285 mm

Delivered without handle.



Ref.	Dimensions (mm)	Weight (kg)
F60	320 x 380 x 50	1,35

M25

HARDWOOD CYLINDRICAL HANDLE

Use: Handle specially designed for lifting forks ref. F60.



Ref.	Length (m)	Ø	Weight (kg)
M25 2,50	2,5	40 mm	1
M25 3,00	3	40 mm	1,4

P101

SPECIAL «RIVAUX» TYPE GRIP

Use: Rivaux type for raising opening and repositioning almost all types of plates and cast-iron SEBEL, SAMBRE & MEUSE, PARKING, etc... type manhole covers.

Technical specifications: Made in steel.



Ref.	Dimensions	Weight (kg)
P101	630 x 245 x 50 mm	2,87





MARTAP

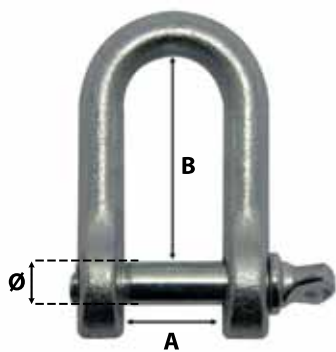
PLATE REMOVING HAMMER

Use: Hammer used to loosen, lift and remove almost all chamber covers (metal or concrete).
Used separately or in pairs, as required.

Technical specifications: Moving inertia compensator in the handle.
Curved end with bar for blind holes.
Straight end for through holes.
Bronze striking plate.

Ref.	Dimensions (mm)	Weight (kg)
MARTAP	1 050 x 270 x 40	5.500
Spare part(s):		
KSMART	Replacement bronze striking plate with bolts	

Shackles



M110

STRAIGHT SHACKLE

J 83 301

Use: Standard technical shackle used for lifting.

Technical specifications: Straight shackle with eye bolt in galvanized steel.

Ref.	Normal load (kg)	Ø	A	B	Weight (g)
M110 06	160	6 mm	12 mm	20 mm	24
M110 08	250	8 mm	16 mm	28 mm	58
M110 10	400	10 mm	20 mm	35 mm	102
M110 12	630	12 mm	24 mm	44 mm	185
M110 14	800	14 mm	28 mm	46 mm	290
M110 16	1000	16 mm	32 mm	55 mm	440
M110 18	1250	18 mm	36 mm	60 mm	650
M110 20	1600	20 mm	40 mm	70 mm	860
M110 22	2000	22 mm	44 mm	73 mm	1100
M110 24	2500	24 mm	48 mm	77 mm	1440
M110 27	3150	27 mm	54 mm	90 mm	2110
M110 30	4000	30 mm	60 mm	96 mm	2800

Unwinding equipment, pulleys, tensioners

Type of network: LV  MV  HV 

P223

SCISSOR TYPE SNATCH PULLEY

Use: This is the simplest and most economical type of pulley, and is suitable for direct anchoring using a chain or cable with shackle.

+ Implementation is easy with its low weight.
Multiple stowage options : shackles, shafts, chains, hooks, slings.
ultimate load : 4 times the working load limit.

Technical specifications: Bichromate treated pulley with scissors-type opening, sheave with «cable guide» flared groove.



Ref.	Sheave bog Ø / out Ø (mm)	Min / max rope Ø (mm)	WLL (t)	Dimensions (mm)	Weight (kg)
P223 2	132 / 160	10 / 12	3,2	Ø 260 x 164	4,8

PDRE

TELEPHONE CABLE STRINGING PULLEY

Use: For use on straight lines or wide angles, particularly suitable for stringing 8-strand telecommunication cables, up to 112 pairs.

Technical specifications: Fixed hook.

Stainless steel hook and hook arm.

Polyamide nylon sheave.



Ref.	Load	Weight (g)
PDRE	150 daN	350

802 - 842

RETURN PULLEY FOR SERVICE ROPES

Use: Mainly used as a return pulley for ropes up to maximum diameter of 16 mm (hoist, service or operating ropes).

Technical specifications: Light alloy pulley with rustproofed tempered steel hook fitted with a safety clip; light alloy sheave mounted on reinforced permanently greased ball bearings for rapid jam-free unwinding.



Ref.	Version	Sheave deep groove Ø	WLL on hook	WLL per strand	Dimensions (mm)	Weight (kg)
842	with rotating safety hook with attachment ring	60 mm	250 daN	125 daN	90 x 80 x 265	1,37
802	with safety hook, mobile flange and opening shell	130 mm	500 daN	250 daN	155 x 80 x 365	3,06



P222

PULLEY WITH REVOLVING FLANGE OPENING FOR STEEL CABLES

Use: Slow pulling or handling and cable tensioning operations, for which the pulleys are often repositioned and must be both highly resistant and extremely light, with minimum winding ratios, such as R = 5 or 6.3, since the sheaves have a low turning rate.

Lifting at speeds or frequencies that vary according to winding ratios and ISO/FEM use groups.

Pulling or tensioning operations with overloads of up to 60 % of the maximum vertical static load (WLL) for lifting operations are permissible in situations where no shock occurs when the load does not leave the ground.

- ⊕ Pulley with unique advantages :
- lightweight : use of «HR» steel with good anti-aging properties and resistance to cold temperatures,
 - does not unhook: the apparatus opens by releasing the locked shaft and turning the plate on the sheave shaft,
 - interchangeable hanging parts: alloy hook with pawl or swivel and «HR» shackle or shaft and fixed socket centred for hooking,
 - for oblique returns: the «cable guide» sheave groove is designed for 6 x 36-180 kg/mm² cables,
 - does not wear out: the hub of the bronze banded sheave, fitted with a lubricating unit, is mounted on a tempered, case-hardened shaft,
 - permanent lubrication: sheave on sealed bearings,
 - bichromate finish.

Ref.	Max permissible cable Ø	External sheave Ø	Standardized deep groove Ø	WLL on 1 strand	WLL on 2 strands	Flange width (mm)	Dimensions
P222 1	9 mm	79 mm	60 mm	1 t	2 t	82	Ø 262 x 82 mm
P222 2	14 mm	114 mm	90 mm	2,5 t	5 t	120	Ø 367 x 120 mm



PDL

LYON TYPE PULLEY BLOCKS

Use: Only for pulling.

Technical specifications: Polyamide sheaves; suspension and die-cut hook.

Maximum load : 4 times the working load limit.

Zinc bichromated coating for a durable finish.

Delivered in pairs.

Ref.	External sheave Ø	Min / max rope Ø (mm)	WLL (kg)	Number of sheaves	Weight (kg)
PDL250	40 mm	8 / 10	250	3	1,3
PDL320	50 mm	10 / 12	320	2	1,8
PDL500	50 mm	10 / 12	500	3	2,4



P220

STRINGING PULLEY FOR BARE CABLES, WITH HOOK

Technical specifications: Manufactured from light alloy throughout.

Revolving hook with safety clip.

Ring with lubricator.

Safety catch.

Ref.	Weight (kg)	For cables	Effective load	Deep groove diameter
P220 0500	1,15	38 mm ² copper / 43 mm ² alu	500 daN	150 mm
P220 0800	2,1	54 to 117 mm ² alu	800 daN	250 mm
P220 1300	4	148 mm ² alu	1300 daN	300 mm

Unwinding equipment, pulleys, tensioners

Type of network: LV  MV  HV 

TP90

INSULATED RETURN PULLEY FOR SERVICE ROPES, FORCE 60 DAN

Use: This pulley is used for :

- changing the direction of a hoist rope.
- lifting tools or materials, used with a service rope.
- installation of a service pipe, using an operating rope with a retaining cord or tightening rod, ref.TM05.

Please note that traction operations using ropes should always be carried out from the ground and never by crews working on a stand.

Technical specifications: Return pulley in insulated material between two flanges, also insulated.

The revolving steel hook is closed by a safety clip fitted with ring a compatible with hooked sticks.

Permissible load on rope strand : 75 DaN

Effective hook opening: 20 mm.

The pulley may be attached to a console, to the ring of an anchor strap ref. TE40, TE45 or TE50, a rope tie ref. TC155, or a ring clip ref. TC125.



Ref.	Deep groove diameter	Min / max rope Ø (mm)	Permissible load on rope strand	Weight (g)
TP90	45 mm	10	75 daN	390

P228 - P228ST - P225

STRINGING PULLEY FOR INSULATED LV AERIAL BUNDLED CONNECTORS

Technical specifications: Plastic-coated aluminium sheave for cables up to 3 x 70 mm² + 54.6 mm² and 3 x 150 mm² + 70 mm² (compact cable).

Pulley for overhead HV cable braid C33223 3x502 + 50/200: please consult us.



Ref.	Version	Use	Deep groove diameter	Effective load	Groove width (mm)	Dimensions	Weight (kg)
P228	Incorporating tensioner with strap-operated catch	For direct fixing to pole, preventing the console from operating during stringing.	130 mm	800 daN	60	550 x 250 x 180 mm	5,2
P228ST	Without tensioner		130 mm	800 daN	60	470 x 250 x 140 mm	2,5
P225	With hook	Recommended for cables on façades	130 mm	800 daN	60	550 x 250 x 140 mm	2,6

T26

TENSIONER WITH STRAP-OPERATED CATCH FOR PULLEYS REF. P228 AND P228ST

Technical specifications: The ratchet tensioner, whose shoe must be completely positioned against the post, is held by the flat strap of 45 mm width passed around it.

The perpendicular shaft of the shoe is designed for fixing the tensioner on P228 and P228ST pulleys.



Ref.	Description	Dimensions (mm)	Weight (kg)
T26 1,20M	Tensioner with strap-operated catch 1,20 m	230 x 150 x 140	2,7
T26 2M	Tensioner with strap-operated catch 2 m	230 x 150 x 140	2,9
Spare part(s):			
T26S1	Spare strap length 1,20 m		
T26S2	Spare strap length 2 m		



P230

LIFTING PULLEY FOR STEEL CABLES

Technical specifications: Pulley with opening shell and bronze ring.
Hook fitted with safety clip.

Ref.	External sheave Ø	Deep groove	Lifting on 2 strands	Max cable	Flange width (mm)	Dimensions	Weight (kg)
P230 160	160 mm	140 mm	1,25 t	11 mm	197	Ø 342 x 197 mm	5,2
P230 200	200 mm	172 mm	2 t	14 mm	255	Ø 430 x 255 mm	9,3



D25

SINGLE PIECE CABLE DRUM UNWINDER

Technical specifications: Sturdy painted steel frame, with two handles.
Rollers mounted on sealed ball-bearings with two guide flanges,
Blocking system for drum changes.
Maximum width or clearance : 530 mm.
Please contact us concerning rollers.

Ref.	Capacity (kg)	Drum diameter min/max (mm)	Dimensions (mm)	Weight (kg)
D25	800	600 / 1050	800 x 715 x 115	23



D260

PAIR OF CABLE DRUM UNWINDERS ON BASE

Use: Ideal drum unwinding apparatus.

⊕ **Anti-slip access ramps : easy loading and great stability.
Sturdy design.**

Technical specifications: Steel frame and aluminium rollers.
Sold in pairs.

Ref.	Capacity (kg)	Drum diameter min/max (mm)	Dimensions of 1 unwinder (mm)	Weight (kg)
D260	1000	300 /1600	800 x 200 x 115	8

Unwinding equipment, pulleys, tensioners

Type of network: LV  MV  HV 

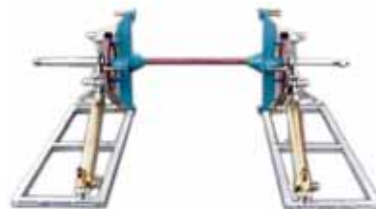
SFEPT

CABLE DRUM LIFTING JACKS

Use: Ideal to control efficiently the winding and unwinding of underground and overhead cables for networks installations.

Height adjustment made by independent manual hydraulic jack : easily adapt to level difference.

Technical specifications: Supplied with a spindle bar with brake.



Ref.	Effective load	Drum diameter min/max (mm)	Drum width min/max (mm)	Dimensions (m)	Weight (kg)
SFEPT2	2 t	700 / 2000	800 / 1300	1,4 x 0,6 x 0,55 (for 1 jack)	180
SFEPT4	4 t	800 / 2800	900 / 1400	1,8 x 0,6 x 0,55 (for one jack)	230
SFEPT7	7 t	1000 / 2800	1000 / 1500	2 x 0,6 x 0,55 (for one jack)	280
SFEPT10	10 t	1500 / 3200	1150 / 1650	2,2 x 0,6 x 0,55 (for one jack)	500

Pulling/lifting winches

KITPCW5000/150

PULLING/LIFTING WINCH SET 150 M FOR LINEMEN

Technical specifications: Contents :

- 1 Gas-powered pulling/lifting winch with polyester sling
- 1 Double braided polyester rope 12 mm x 150 m
- 1 Rope bag capacity 150 m
- 2 Polyester slings 60 mm x 2,5 m
- 1 Hitch plate winch anchor for towing balls
- 2 Swing side snatch blocks Ø100 mm
- 2 Heavy duty steel locking carabiner
- 1 Padded waterproof case



Ref.	Description
KITPCW5000/150	Pulling/lifting winch 150 m for linemen

KITPCH1000TOP

COMPLETE PULLING/LIFTING WINCH SET

Technical specifications: Contents :

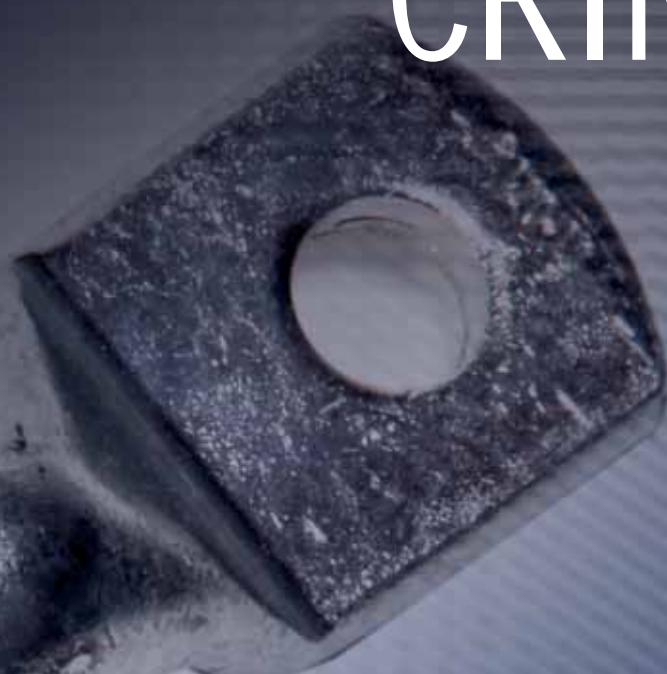
- 1 Gas-powered pulling/lifting winch with polyester sling
- 1 Double braided polyester rope 12 mm x 100 m
- 1 Rope bag with shoulder straps capacity 100 m
- 2 Polyester slings 60 mm x 2,5 m
- 1 Tree/pole mount w/anchor strap
- 1 Vertical pull winch support
- 1 Winch support plate adaptor for Heck-Pack anchor system
- 1 Hitch plate winch anchor for towing balls
- 1 Winch support plate w/bent pin
- 2 Swing side snatch blocks Ø100 mm
- 2 Heavy duty steel locking carabiners
- 1 shackle 16 mm capacity 3,25 t
- 1 shackle 13 mm capacity 2 t
- 1 safety hook
- 1 Padded waterproof case



Ref.	Description
KITPCH1000TOP	Complete pulling/lifting winch set



HYDRAULIC CRIMPING AND CUTTING TOOLS



HYDRAULIC CRIMPING AND CUTTING TOOLS

CABLE CUTTERS

Manual ratchet cable cutters	508
Manual hydraulic cable cutters	510
Hydraulic cutting heads	512
Battery operated hydraulic cable cutters.....	514
Chargers - Batteries	518

CRIMPING TOOLS

Manual crimping tools and accessories	519
Manual hydraulic crimping tools	522
Hydraulic crimping heads	525
Battery operated hydraulic crimping tools.....	527
Chargers - Batteries	532
Hydraulic power units and accessories.....	532
Connecting Accessories.....	536
Product selector guide for crimping dies.....	538





C76  

RATCHET CABLE CUTTER Ø 35 MM

Ref.	Opening	Length (mm)	Copper	Aluminium	Almelec	Weight (g)
C76	Ø 35 mm	260	240 mm ²	300 mm ²	NO	720
Spare part(s):						
MS76SMF	Spare fixed jaw					
MS76SMM	Spare movable jaw					



C46F  

FRONT RATCHET CABLE CUTTER Ø 35 MM

+ Cable cutter easier to use thanks to its frontal cut.

Ref.	Opening	Length (mm)	Copper	Aluminium	Almelec	Steel	Weight (g)
C46F	Ø 35 mm	320	150 mm ²	240 mm ²	54,6 mm ²	non	1000
Spare part(s):							
MS46SM	Spare movable jaw						



C79  

RATCHET CABLE CUTTER Ø 45 MM

Technical specifications: Delivered without protective case.

Ref.	Opening	Length (mm)	Copper	Aluminium	Almelec	Weight (g)
C79	Ø 45 mm	275	300 mm ²	300 mm ²	NO	1100
Spare part(s):						
MS79MF	Spare fixed jaw					
MS79MM	Spare movable jaw					



Cable cutters • Manual ratchet cable cutters

Type of network: LV MV HV

C79GM

RATCHET CABLE CUTTER Ø 60 MM

Technical specifications: Widest opening of the range : 60 mm.
Very strong tool for large cable section (except steel).



Ref.	Opening	Length (mm)	Copper	Aluminium	Almelec	Weight (g)
C79GM	Ø 60 mm	400	750 mm ²	750 mm ²	570 mm ²	1800
Spare part(s):						
MS79GM MF	Spare fixed jaw					
MS79GM MM	Spare movable jaw					

C77

CHAIN RATCHET CABLE CUTTER Ø 50 MM

Use: Cable cutter used for a quick cut of communication power cables.
For copper and aluminium cables, with lead or rubber jacket.

Technical specifications: Improved heavy duty jaw design.
Jaw keeper prevents jaws from spreading while under heavy load.
Built for tough conditions.
Ratchet provides up to 5 times the mechanical advantage over manual cutters.
Opening jaw : Ø 50 mm



Ref.	Opening	Length (mm)	Copper	Non self-supporting telephone cable	Aluminium	Weight (g)
C77	Ø 50 mm	700	750 mm ²	2 000 mm ²	750 mm ²	4300
Spare part(s):						
C77M	Spare jaw					

C99SR

HEAVY-DUTY RATCHET CABLE CUTTER Ø 52 MM

Use: For guy-wires and suspension cables (Ø 9 to 10 mm).

Technical specifications: Very strong tool, able to cut «almelec» cable type.
Telescopic arm to increase movement and easily cut cable (retractable arms: 340 to 510 mm)



Ref.	Opening	Length	Copper	Aluminium	Almelec	Weight (g)
C99SR	Ø 52 mm	Retractable arms : 340 to 510 mm	300 mm ²	600 mm ²	300 mm ²	2000



MC25

MANUAL HYDRAULIC CABLE CUTTER Ø 25 MM

Use: Guillotine type hydraulic cable cutter for copper, aluminium or steel cables with maximum diameter of 25 mm.

Improvement of the pumping force.

Do not use this tool on live cables.

+ The ergonomically designed movable handle makes it possible to start cutting one-handed.
High usage convenience in comparison with a mechanical tool.

Technical specifications: Cutting head strengthened at the fork and at the lock.

Quick opening and closing head, rotatable 180°.

Automatic release with audible «click» in the event of overload. Piston return by release trigger.

Periodic inspection frequency : 1 year or 10 000 cycles.

Supplied in plastic case (490 x 302 x 90 mm).

MAX. CUTTING CAPACITIES	Types of cables			Max. hardness	Max. section or Ø of cut
	Multi-strand cables	7x19 strands 7x37 strands	steel	100 > 120 daN/mm ² 130 > 145 daN/mm ²	Ø 15 > 16 mm Ø 12 > 13 mm
Electric cables	bare rigid multi-strand semi-rigid multi-strand	copper aluminium		300 mm ² Ø 20 > 22 mm	
Round bars		copper hard copper aluminium mild steel medium hard steel	20 > 28 daN/mm ² 42 > 45 daN/mm ²	Ø 20 > 22 mm Ø 15 > 18 mm Ø 20 > 25 mm Ø 12 > 14 mm Ø 10 mm	
Insulated cables (depends on thickness of insulation)					150 > 240 mm ²

Ref.	Force	Max. passage	Cables	Dimensions (mm)	Weight (kg)
MC25	55 kN	Ø 25 mm	Steel / Copper / Alu	380 x 60 x 140	2,94



MC40

MANUAL HYDRAULIC CABLE CUTTER Ø 40 MM

Use: Guillotine type hydraulic cable cutter for copper, aluminium, or steel cables.

Ergonomically designed moveable handle.

Two-stage hydraulic system, reducing the number of pumping.

Do not use this tool on live cables.

+ 2 speed-tool : fast advance / working advance.
Ergonomically designed moveable handle.
High usage convenience in comparison with a mechanical tool.

Technical specifications: Quick opening and closing head, rotatable 340°.

Automatic release with audible «click» in the event of overload. Return of piston by rotation of moveable handle.

Periodic inspection frequency : 1 year or 10 000 cycles.

Supplied in linen carrying bag.

MAX. CUTTING CAPACITIES			Max. hardness	Max. Ø of cut
	Cables	copper aluminium almelec steel		< 40 daN/mm ² < 20 daN/mm ² < 34 daN/mm ² < 180 daN/mm ²
	multistrands steel medium hard steel		< 180 daN/mm ² < 180 daN/mm ²	26 x Ø 2.50 + 7 x Ø 1.95 (= Ø 15.85) 26 x Ø 3.06 + 7 x Ø 2.38 (= Ø 19.38) 26 x Ø 3.60 + 7 x Ø 2.80 (= Ø 22.80) 54 x Ø 3.50 + 19 x Ø 2.10 (= Ø 31.50) 54 x Ø 4.36 + 19 x Ø 2.62 (= Ø 39.20)
Bars	steel copper aluminium		< 60 daN/mm ² < 42 daN/mm ² < 30 daN/mm ² < 25 daN/mm ² < 16 daN/mm ²	Ø 18 Ø 20 Ø 30 Ø 32 Ø 40

Ref.	Force	Max. passage	Cables	Dimensions (mm)	Weight (kg)
MC40	88 kN	Ø 40 mm	Steel / Copper / Alu	645 x 85 x 165	5,88



Cable cutters • Manual hydraulic cable cutters

Type of network: LV MV HV

MC55

MANUAL HYDRAULIC CABLE CUTTER Ø 55 MM

Use: Guillotine type hydraulic cable cutter for copper or aluminium cables with maximum diameter of 55 mm. Two-stage hydraulic system, reducing the number of pumping. Do not use this tool on live cables.

**⊕ 2-speed tool : fast advance / working advance.
Ergonomically designed moveable handle.
High usage convenience in comparison with a mechanical tool.**

Technical specifications: Quick opening and closing head, rotatable 180°. Automatic release with audible «click» in the event of overload. Piston return by release trigger placed on the moveable handle. Periodic inspection frequency : 1 year or 10 000 cycles. Supplied in linen carrying bag.

MAX. CUTTING CAPACITIES	Copper leads cables	400 > 500 mm ²
	Aluminium underground cables	3 x 240 + 1 x 95 mm ²
	Round annealed copper	Ø 18 > 20 mm
	Round annealed aluminium (A5)	Ø 22 > 25 mm
	Telephone cables	Ø 55 mm



Ref.	Force	Max. passage	Cables	Dimensions (mm)	Weight (kg)
MC55	43 kN	Ø 55 mm	Cuivre/Alu	560 x 55 x 140	3,7

MC85

MANUAL HYDRAULIC CABLE CUTTER Ø 85 MM

Use: Guillotine type hydraulic cable cutter for copper or aluminium cables with a maximum diameter of 85 mm. Tool particularly suitable for cutting underground lines, as well as other general cutting application. Two-stage hydraulic system, reducing the number of pumping. Do not use this tool on live cables.

**⊕ 2-speed tool : fast advance.
High usage convenience in comparison with a mechanical tool.**

Technical specifications: Quick opening and closing head, rotatable 180°. Automatic release with audible «click» in the event of overload. Piston return by rotation of the moveable handle. Periodic inspection frequency : 1 year or 10 000 cycles. Supplied in linen carrying bag.

MAX. CUTTING CAPACITIES	Underground insulated aluminium cables	3 x 240 mm ² + 1 x 95 mm ² 1 x 630 mm > 800 mm ²
	Copper cables	630 mm ²



Ref.	Force	Max. passage	Cables	Dimensions (mm)	Weight (kg)
MC85	55 kN	Ø 85 mm	Copper / Alu	745 x 72 x 190	7,6



XC25

HYDRAULIC CUTTING HEAD Ø 25 MM

Use: The XC25 hydraulic cutting head must be connected to a 700 bar hydraulic group, with high-pressure hose and couplings.

The XC25 hydraulic cutting head has the same force, passage and capacity than the MC25 hand tool or BLC25 battery-operated model : cutting of steel, copper or aluminium cables with a maximum diameter of 25 mm.

Technical specifications: This head is supplied with a protection kit to safe the technician. Quick opening and closing head, with reinforced lock and fork.

Periodic inspection frequency : 1 year or 10 000 cycles.

MAX. CUTTING CAPACITIES	Types of cables			Max. hardness	Max. section or Ø of cut
	Multi-strand cables	7x19 strands	steel	100 > 120 daN/mm ²	Ø 15 > 16 mm Ø 12 > 13 mm
		7x37 strands		130 > 145 daN/mm ²	
	Electric cables	bare	copper aluminium		300 mm ² Ø 20 > 22 mm
		rigid multi-strand semi-rigid multi-strand			
Round bars		copper	20 > 28 daN/mm ² 42 > 45 daN/mm ²	Ø 20 > 22 mm Ø 15 > 18 mm Ø 20 > 25 mm Ø 12 > 14 mm Ø 10 mm	
		hard copper			
		aluminium			
		mild steel			
Insulated cables (depends on thickness of insulation)					150 > 240 mm ²

Ref.	Force	Max. passage	Cables	Dimensions (mm)	Weight (kg)
XC25	55 kN	Ø 25 mm	Steel / Copper / Alu	215 x 52 x 90	2,4



XC40

HYDRAULIC CUTTING HEAD Ø 40 MM

Use: The XC40 hydraulic cutting head must be connected to a 700 bar hydraulic group, with high-pressure hose and couplings.

The XC40 hydraulic cutting head has the same force, passage and capacity than the MC40 hand tool or BC40 battery-operated model : cutting of steel, copper or aluminium cables with a maximum diameter of 40 mm.

Technical specifications: This head is supplied with a protection kit to safe the technician. Quick opening and closing head.

Periodic inspection frequency : 1 year or 10 000 cycles.

MAX. CUTTING CAPACITIES			Max. hardness	Max. Ø of cut	
	Cables	copper	steel	< 40 daN/mm ²	Ø 40 Ø 40 Ø 40 19 x Ø 2.3 (= Ø 11.5) Ø 18 (strand qty > 200) 54 x Ø 4.36 + 19 x Ø 2.62 (= Ø 39.20)
		aluminium		< 20 daN/mm ²	
hard copper		< 34 daN/mm ²			
multistrands steel		< 180 daN/mm ²			
medium hard steel		< 180 daN/mm ²			
		< 180 daN/mm ²			
Bars	Steel	aluminium	< 42 daN/mm ²	Ø 20 Ø 32 Ø 40	
	copper		< 25 daN/mm ²		
	aluminium		< 16 daN/mm ²		

Ref.	Force	Max. passage	Cables	Dimensions (mm)	Weight (kg)
XC40	88 kN	Ø 40 mm	Steel / Copper / Alu	285 x 85 x 105	4,3



Cable cutters • Hydraulic cutting heads

Type of network: LV MV HV

XC55

HYDRAULIC CUTTING HEAD Ø 55 MM

Use: The XC55 hydraulic cutting head must be connected to a 700 bar hydraulic group, with high-pressure hose and couplings.

The XC55 hydraulic cutting head has the same force, passage and capacity than the MC55 hand tool or BC55 battery-operated model : cutting of copper or aluminium cables with a maximum diameter of 55 mm.

Technical specifications: This head is supplied with a protection kit to safe the technician.
Quick opening and closing head.

Periodic inspection frequency : 1 year or 10 000 cycles.



MAX. CUTTING CAPACITIES	Copper leads cables	400 > 500 mm ²
	Aluminium underground cables	3 x 240 + 1 x 95 mm ²
	Round annealed copper	Ø 18 > 20 mm
	Round annealed aluminium (A5)	Ø 22 > 25 mm
	Telephone cables	Ø 55 mm

Ref.	Force	Max. passage	Cables	Dimensions (mm)	Weight (kg)
XC55	43 kN	Ø 55 mm	Copper / Alu	300 x 55 x 110	3

XC85

HYDRAULIC CUTTING HEAD Ø 85 MM

Use: The XC85 hydraulic cutting head must be connected to a 700 bar hydraulic group, with high-pressure hose and couplings.

The XC85 hydraulic cutting head has the same force, passage and capacity than the MC85 hand tool or BC85 battery-operated model : cutting of copper or aluminium cables with a maximum diameter of 85 mm.

Technical specifications: This head is supplied with a protection kit to safe the technician.
Quick opening and closing head.

Periodic inspection frequency : 1 year or 10 000 cycles.



MAX. CUTTING CAPACITIES	Underground insulated aluminium cables	3 x 240 mm ² + 1 x 95 mm ² 1 x 630 mm > 800 mm ²
	Copper cables	630 mm ²

Ref.	Force	Max. passage	Cables	Dimensions (mm)	Weight (kg)
XC85	55 kN	Ø 85 mm	Copper / Alu	385 x 75 x 170	6,2





BLC25

BATTERY OPERATED HYDRAULIC CABLE CUTTER Ø 25 MM

Use: Compact, self-contained and rapid electro-hydraulic tool for cutting of copper, aluminium or steel cables with maximum diameter of 25 mm.

Do not use this tool on live cables.

+ Ergonomic design and light weight enable cutting to be done one handed.
 Balanced centre of gravity for easy handling and effortless operations.
 Maximum operating speed with high performance motor.
 Double control of the cutting by the operator.
 Fast cutting operation.

Technical specifications: Electronic control of the cut:

- on/off button
- simple display panel with light diode for battery charge level and maintenance control
- USB connection for data analysis & preventive maintenance with dedicate software

Quick opening and closing head, rotatable 180°.

Electronic speed control in the trigger allowing a perfect control of the approach before cutting.

Automatic release with audible «click» in the event of overload. Return of piston by release trigger

Handling ring for safety cable or transportation.

Workplace illumination by LED.

Robust plastic housing with rubber grip handle.

Anti-corrosion treatment for the head.

Large and ergonomic triggers.

High autonomy battery.

Cutting capacity : 100 to 150 cuts before charging.

Made in France.

Supplied in a plastic case (510 x 360 x 115 mm) with 2 batteries and a charger.

Periodic inspection frequency : 1 year or 15 000 cycles.

NB : «European» type plug (charger), on request we can find solution for specific areas.

MAX. CUTTING CAPACITIES	Types of cables			Max. hardness	Max. section or Ø of cut
	Multi-strand cables	7x19 strands 7x37 strands	steel	100 > 120 daN/mm ² 130 > 145 daN/mm ²	Ø 15 > 16 mm Ø 12 > 13 mm
Electric cables	bare rigid multi-strand semi-rigid multi-strand	copper aluminium		300 mm ² Ø 20 > 22 mm	
Round bars		copper hard copper aluminium mild steel medium hard steel	20 > 28 daN/mm ² 42 > 45 daN/mm ²	Ø 20 > 22 mm Ø 15 > 18 mm Ø 20 > 25 mm Ø 12 > 14 mm Ø 10 mm	
Insulated cables (depends on thickness of insulation)					150 > 240 mm ²

Ref.	Force	Max. passage	Cables	Battery	Dimensions (mm)	Weight (kg)
BLC25	55 kN	Ø 25 mm	Steel / Copper/ Alu	18 V - 1,5 Ah	320 x 80 x 425	3,82



Cable cutters • Battery operated hydraulic cable cutters

Type of network: LV MV HV

BC40

BATTERY OPERATED HYDRAULIC CABLE CUTTER Ø 40 MM

Use: Hydraulic cable cutter on 18V battery for copper, aluminium or steel cables with maximum diameter of 40 mm.

Do not use this tool on live cables.

- ⊕ Ergonomic and stability for single one-hand operation.
- Balanced centre of gravity for easy handling and effortless operations.
- Hydraulic double stage system for more speed.
- Double control of the cutting by the operator.
- Fast cutting operation.

Technical specifications: Light indicator:

- Control of the battery power load,
- Confirmation of the right end of cutting,
- Maintenance indicator every 15 000 cycles.

Quick opening and closing head, rotatable 340°, with protection kit.

Electronical variator of speed in the trigger enables the exact control of approach before cutting.

Automatic release with an audible «click» when the force of 88 kN is reached.

Return of piston by release trigger.

Robust plastic housing with rubber grip handle.

Operating on 18V 4,0 Ah Ni-MH battery for more efficiency.

Rechargeable battery without memory effect.

Made in France.

Supplied in a plastic case (495 x 592 x 150 mm) with 2 batteries and a charger.

Periodic inspection frequency : 1 year or 15 000 cycles.

NB : «European» type plug (charger), on request we can find solution for specific areas.



MAX. CUTTING CAPACITIES			Max. hardness	Max. Ø of cut
	Cables		copper	< 40 daN/mm ²
		aluminium	< 20 daN/mm ²	Ø 40
		hard copper	< 34 daN/mm ²	Ø 40
		steel	< 180 daN/mm ²	19 x Ø 2.3 (= Ø 11.5)
		multistrands steel	< 180 daN/mm ²	Ø 18 (strand qty > 200)
		medium hard steel	< 180 daN/mm ²	54 x Ø 4.36 + 19 x Ø 2.62 (= Ø 39.20)
Bars		Steel	< 42 daN/mm ²	Ø 20
		copper	< 25 daN/mm ²	Ø 32
		aluminium	< 16 daN/mm ²	Ø 40

Ref.	Force	Max. passage	Cables	Battery	Dimensions (mm)	Weight (kg)
BC40	88 kN	Ø 40 mm	Steel / copper/ alu	18 V - 4,0 Ah	475 x 320 x 95	7,8



BC55

BATTERY OPERATED HYDRAULIC CABLE CUTTER Ø 55 MM

Use: Hydraulic cable cutter on 18V battery for cables with maximum diameter of 55 mm
Do not use this tool on live cables.

+ Ergonomic design and light weight enable cutting to be done one handed.
Balanced centre of gravity for easy handling and effortless operations.
Hydraulic double stage system for more speed.
Double control of the cutting by the operator.

Technical specifications: Light indicator :

- Control of the battery power load,
- Confirmation of the right end of cutting,
- Maintenance indicator every 15 000 cycles.

Quick opening and closing head, rotatable 180°, with protection kit.

Electronical variator of speed in the trigger enables the exact control of approach before cutting.

Automatic release with an audible «click» when the force of 88 kN is reached.

Return of piston by release trigger.

Robust plastic housing with rubber grip handle.

Operating on 18V 4.0 Ah Ni-MH battery for more efficiency.

Rechargeable battery without memory effect.

Made in France.

Supplied in a metallic case (510 x 360 x 115 mm) with 2 batteries and a charger.

Periodic inspection frequency : 1 year or 15 000 cycles.

NB : «European» type plug (charger), on request we can find solution for specific areas.

MAX. CUTTING CAPACITIES	Copper leads cables Aluminium underground cables Round annealed copper Round annealed aluminium (A5) Telephone cables	400 > 500 mm ² 3 x 240 + 1 x 95 mm ² Ø 18 > 20 mm Ø 22 > 25 mm Ø 55 mm
--------------------------------	---	--

Ref.	Force	Max. passage	Cables	Battery	Dimensions (mm)	Weight (kg)
BC55	43 kN	Ø 55 mm	Copper / Alu	18 V - 4,0 Ah	505 x 320 x 95	6,2



BC85

BATTERY OPERATED HYDRAULIC CABLE CUTTER Ø 85 MM

Use: Hydraulic cable cutter on 18V battery for cables with maximum diameter of 85 mm.

Do not use this tool on live cables.

+ Ergonomic design and light weight enable cutting to be done one handed.
 Balanced centre of gravity for easy handling and effortless operations.
 Hydraulic double stage system for more speed.
 Double control of the cutting by the operator.

Technical specifications: Light indicator :

- Control of the battery power load,
- Confirmation of the right end of cutting,
- Maintenance indicator every 15 000 cycles.

Quick opening and closing head, rotatable 180°, with protective kit.

Electronic speed variator in the trigger enabling the exact control of approach before cutting.

Automatic release with an audible «click» when the force of 55 kN is reached.

Return of piston by release trigger.

Robust plastic housing with rubber grip handle.

Operating on 18V 4.0Ah Ni-MH battery for more efficiency.

Rechargeable battery without memory effect.

Made in France.

Supplied in a metallic case (610 x 360 x 115 mm) with 2 batteries and a charger.

Periodic inspection frequency : 1 year or 15 000 cycles.

NB : «European» type plug (charger), on request we can find solution for specific areas.



MAX. CUTTING CAPACITIES	Underground insulated aluminium cables	3 x 240 mm ² + 1 x 95 mm ² 1 x 630 mm > 800 mm ²
	Copper cables	630 mm ²

Ref.	Force	Max. passage	Cables	Battery	Dimensions (mm)	Weight (kg)
BC85	55 kN	Ø 85 mm	Copper / Alu	18 V - 4,0 Ah	575 x 340 x 95	9,4





AC18220

CHARGER 220V 18V LI-ION

Technical specifications: Battery type : Li-Ion.

Charge current : 4 A.

Charging time for battery 1,5 Ah : 30 min.

Charging time for battery 4 Ah : 60 min.

Ref.	Dimensions (mm)	Weight (g)
AC18220	200 x 140 x 75	550



AB18LI

18V BATTERY

Use: These batteries fit all the battery operated hydraulic cable cutters and battery operated crimping tools in our catalogue.

Technical specifications: No memory effect and no loss of load capacity for maximum productivity and time saving.

Excellent life span.

Ref.	Capacity	Voltage	Dimensions (mm)	Weight (g)
AB18LI150	1,5 Ah	18V	115 x 75 x 45	300
AB18LI400	4 Ah	18V	115 x 75 x 65	500
AB18LI500	5 Ah	18 V	115 x 75 x 65	620





P117

CRIMPING TOOL FOR UNINSULATED CABLE LUGS

Use: For uninsulated cable lugs and connectors from 10 to 25 mm²

+ Ratchet for precise crimping.
Release option in the event of incorrect operation.



Ref.	Capacity	Length (mm)	Weight (g)
P117	10 to 25 mm ²	260	685

Q990205

INDENT CRIMPING TOOL FOR BARE LUGS AND INSULATED LUGS

Use: Indent crimping tool for bare cable lugs and insulated cable lugs from 6 to 16 mm².

Technical specifications: Ratchet guarantees precise crimping.
Release option in the event of incorrect operation.



Ref.	Capacity	Length (mm)	Weight (g)
Q990205	6 to 16 mm ²	200	420

P125

INDENT CRIMPING PLIERS

Use: Pliers designed to crimp :

- copper tubular terminals and sleeves XCT , XCT EQ and XG7T type from 6 to 70 mm²
- protected aluminium terminals and sleeves ACT type from 10 to 25 mm².

Technical specifications: Ruggedly built, this tool has proven over the years that it is reliable and easy to use.

It is equipped with:

- a recess turret for crimping various barrel diameters
- a single punch
- a button to select the groove to be used
- a moving arm
- a non-return system ensures high quality crimping

Supplied without protective case.



Ref.	Capacity	Dimensions (mm)	Weight (kg)
P125	10 to 25 mm ²	420 x 85 x 35	2,5





P125CO

INDENT CRIMPING PLIERS IN CASE WITH 85 TERMINALS AND LUGS

Technical specifications: Contents :

- 1 plastic case with dividers
- 1 indent crimping pliers (ref. P125),
- 5 LV copper sleeves XG7T series 15 mm²,
- 5 LV copper sleeves XG7T series 25 mm²,
- 5 LV copper sleeves XG7T series 50 mm²,
- 5 LV copper sleeves XG7T series 70 mm²,
- 10 copper tubular lugs XCT series 10-8,
- 10 copper tubular lugs XCT series 10-6,
- 10 copper tubular lugs XCT series 6-6,
- 5 copper tubular lugs XCT series 16-6,
- 5 copper tubular lugs XCT series 16-8,
- 5 copper tubular lugs XCT series 25-8,
- 5 copper tubular lugs XCT series 25-10,
- 5 copper tubular lugs XCT series 35-8,
- 5 copper tubular lugs XCT series 50-10,
- 5 copper tubular lugs XCT series 70-10.

Ref.	Description	Dimensions (mm)	Weight (kg)
P125CO	Indent crimping pliers in case with 85 terminals and lugs	445 x 345 x 95	5,08



P126

CRIMPING PLIERS

Use: Hexagonal crimping tool with integrated die E140.

Designed to crimp connectors :

- EBPAU from 16 to 35 mm², black or blue
- CPTAU from 16 to 35 mm²,
- MJPB from 6 to 35 mm²,
- MJPBAS from 10 to 35 mm²,
- MJPBS from 16 to 35 mm².

Technical specifications: Width : 9 mm.

Supplied without protective case.

Ref.	Dimensions (mm)	Weight (kg)
P126	260 x 75 x 30	1,29

Accessories:

P126M	Die E140/9
P126E	Canvas belt holster



P127

CRIMPING PLIERS SIMECA SM1 - 6 TO 240 MM² CU

Use: For hexagonal crimping of C-shaped connectors, copper sleeves and lugs, copper/alu sleeves and lugs and connectors for insulated networks.

Technical specifications: Delivered without protective case.



Ref.	Description	Dimensions (mm)	Weight (kg)
P127	Crimping pliers SIMECA SM1 - 6 to 240 mm ² CU	610 x 160 x 80	3,8
Accessories:			
P127M01	Hexagonal crimping die n° 7E 10/6 cu		
P127M02	Hexagonal crimping die n° 7E 16/25 cu		
P127M03	Hexagonal crimping die n° 7E 95/35 cu		
P127M04	Hexagonal crimping die n° 7E 120/70 cu		
P127M05	Hexagonal crimping die n° 7E 150/50 cu		
P127M06	Hexagonal crimping die n° 7E 173E140		
P127M07	Hexagonal crimping die n° 7E 185 cu		
P127M09	Hexagonal crimping die n° 7E 215		
P127M11	Hexagonal crimping die n° 7E 240 cu		
P127MR50	Pre-rounding die n° 7R50		
P127MR70	Pre-rounding die n° 7R70		
P127MR95	Pre-rounding die n° 7R95		
P127MR150	Pre-rounding die n° 7R150		
P127CV	Metal case with dividers 705 x 200 x 100 mm, 2 kg		

P128

CRIMPING PLIERS 4 TO 120 MM² CU

Use: For hexagonal crimping of C-shaped connectors, copper sleeves and lugs, copper/alu sleeves and lugs and connectors for insulated networks.



Ref.	Description	Dimensions (mm)	Weight (kg)
P128	Crimping pliers 4 to 120 mm ² CU	440 x 80 x 45	2,5
Accessories:			
P128M1	Hexagonal crimping die n° 4E 4/120 cu		
P128M2	Hexagonal crimping die n° 4E 6/35 cu		
P128M3	Hexagonal crimping die n° 4E 10/50 cu		
P128M4	Hexagonal crimping die n° 4E 16/70cu		
P128M5	Hexagonal crimping die n° 4E 25/95 cu		
P128M6	Hexagonal crimping die n° 4E 16/25 cu		
P128M7	Hexagonal crimping die n° 4E 35/70 cu		
P128M8	Hexagonal crimping die n° 4E C25/C35		





MP36

MANUAL HYDRAULIC CRIMPING TOOL

Use: Manual, ergonomically designed, lightweight hydraulic tool for one handed crimping of 4 to 150 mm² connectors.

+ The most compact of the market.
High usage convenience in comparison with a mechanical tool.
Maximal power to weight ratio.

Technical specifications: This new model, new look with its bicolor and grip handle sheaths, gains -20% in weight, thanks to the aluminium double-fork, that is very resistant.

A new overload valve incorporated into the oil tank improves the reliability of calibration.

Quick opening and closing head, rotatable 180°.








Automatic release with an audible «click» when force of 35 kN is reached.

Return of piston by release trigger.

Max. capacity : 150 mm²

Periodic inspection frequency : 1 year or 10 000 cycles.

Delivered in a plastic case (350 x 360 x 85 mm 2,1 kg) that can contain 10 die sets.

Interchangeable die sets which are common to MP36 and BLP36							
	Application	Copper sleeves and lugs	Copper or alu bare or insulated sleeves	Copper or alu sleeves and lugs	C-shaped connectors	Pre-rounding	Copper sleeves and lugs
	Type of crimp						
	Section	4 > 150 mm ²	E 140 > E215	K24 > K218	C6 > C16	10 > 120 mm ²	10 > 95 mm ²

Ref.	Force	Stroke	Hexagonal crimping	Dimensions (mm)	Weight (kg)
MP36	35 kN	8 mm	4 > 150 mm ²	215 x 50 x 175	1,4



MP55

MANUAL HYDRAULIC CRIMPING TOOL

Use: Manual, ergonomically designed, lightweight hydraulic tool for crimping of 4 to 185 mm² connectors.

+ High usage convenience in comparison with a mechanical tool.
Accept all brands of dies.

Technical specifications: Quick opening and closing head, rotatable 180°.

Reversible or simple interchangeable dies.








Ball plunger can fit dies of 30 to 38 mm width.

Automatic release with an audible «click» when force of 55 kN is reached.

Return of the piston by release trigger protected by the moveable handle.

Periodic inspection frequency : 1 year or 10 000 cycles.

Delivered in a plastic case (490 x 302 x 90 mm) that can contain 7 die sets.

Interchangeable die sets which are common to MP55 and BLP55							
	Application	Copper sleeves and lugs	Copper or alu bare or insulated sleeves	Copper or alu sleeves and lugs	C-shaped connectors	Pre-rounding	Copper sleeves and lugs
	Type of crimp						
	Section	4 > 185 mm ²	E 54 > E215	K26 > K225	C6 > C35	25 > 185 mm ²	10 > 120 mm ²

Ref.	Force	Stroke	Hexagonal crimping	Dimensions (mm)	Weight (kg)
MP55	55 kN	13 mm	4 > 185 mm ²	365 x 53 x 130	2,5



Crimping tools • Manual hydraulic crimping tools

Type of network: LV MV HV

MP80

MANUAL HYDRAULIC CRIMPING TOOL

Use: Manual, ergonomically designed, lightweight hydraulic tool for crimping of 6 to 240 mm² connectors.

+ High usage convenience in comparison with a mechanical tool.

Accept all brands of dies.

Two-stage hydraulic system : fast advance and working advance.

Technical specifications: Quick opening and closing head, rotatable 180°.

Automatic release with an audible «click» when force of 80 kN is reached.

Return of the piston by rotation of the moveable handle.

Periodic inspection frequency : 1 year or 10 000 cycles.

Delivered in a plastic case (645 x 290 x 125 mm) that can contain 10 die sets.



Interchangeable die sets which are common to MP80 and BP80						
	Application	Copper sleeves and lugs	Copper or alu bare or insulated sleeves	Copper or alu sleeves and lugs	C-shaped connectors	Pre-rounding
	Type of crimp					
	Section	6 > 240 mm ²	E 54 > E230	K26 > K232	C10 > C50	25 > 240 mm ²

Ref.	Force	Stroke	Hexagonal crimping	Dimensions (mm)	Weight (kg)
MP80	80 kN	13 mm	6 > 240 mm ²	535 x 57 x 175	3,86

MPH130

MANUAL HYDRAULIC INDENT CRIMPING TOOL

Use: Manual hydraulic tool particularly suitable for deep indenting of underground cables from 16 to 400 mm² and for crimping connectors from 10 to 400 mm².

Hexagonal crimping is possible using adapter A12D1 (not supplied).

+ Multi-function tool : aluminium deep indenting and crimping.

Accept all brands of dies.

Two-stage hydraulic system: fast advance and working advance.

Technical specifications: C-shaped head, rotating 320°.

The hexagonal crimping dies for MP130 and BP130 tools can also be used with this tool by using the A12D1 adapter (not supplied).

Automatic release with an audible «click» when force of 130 kN is reached.

Return of piston by release trigger.

Aluminium indenting : 240 mm²

Copper crimping : 400 mm²

Periodic inspection frequency : 1 year or 10 000 cycles.

Delivered in a plastic case (645 x 290 x 125 mm) that can contain 10 die sets.



Interchangeable die sets which are common to MPH130, XPH130 and BPH130			
	Application	Bare or insulated alu sleeves	Adapter A12D1 type for using C130 dies
	Type of crimp		
	Section	16 > 240 mm ²	

Ref.	Force	Stroke	Crimping	Deep indenting	Dimensions (mm)	Weight (kg)
MPH130	130 kN	26 mm	10 > 400 mm ²	16 > 240 mm ²	560 x 80 x 165	5.260

Accessories:

MOS85880	A12D1 adapter to use C130 dies
-----------------	--------------------------------



MP130

MANUAL HYDRAULIC CRIMPING TOOL

Use: Manual hydraulic tool particularly suitable for crimping overhead lines as well as other general applications.

+ Accept all brands of dies.
Two-stage hydraulic system: fast advance and working advance.

Technical specifications: Very large crimp capacity from 10 to 300 mm² or 10 to 400 mm².
C-shaped head, rotating 320°.
Two-stage hydraulic system, reducing the number of pumping.
Semicircular dies common to all 130 kN tools.
Automatic release with an audible «click» when force of 130 kN is reached.
Return of piston by rotation of moveable handle.

Periodic inspection frequency : 1 year or 10 000 cycles.

Delivered in a plastic case (645 x 290 x 125 mm) which can contain 10 die sets.

Interchangeable die sets which are common to MP13026, XP13026 and BP13026							
	Application	Copper sleeves and lugs	Copper or alu bare or insulated sleeves	Copper or alu sleeves and lugs	C-shaped connectors	Pre-rounding	Copper sleeves and lugs
	Type of crimp						
	Section	10 > 300 mm ²	E 54 > E280	KZ6 > KZ28	C10 > C70	50 > 240 mm ²	10 > 240 mm ²

Interchangeable die sets which are common to MP13038, XP13038 and BP13038							
	Application	Copper sleeves and lugs	Copper or alu bare or insulated sleeves	Copper or alu sleeves and lugs	C-shaped connectors	Pre-rounding	Copper sleeves and lugs
	Type of crimp						
	Section	10 > 400 mm ²	E 54 > E280	KZ6 > KZ34	C10 > C70	50 > 240 mm ²	10 > 240 mm ²

Ref.	Force	Stroke	Hexagonal crimping	Dimensions (mm)	Weight (kg)
MP13026	130 kN	26 mm	10 > 300 mm ²	545 x 70 x 160	5,36
MP13038	130 kN	38 mm	10 > 400 mm ²	580 x 70 x 160	6,42





Crimping tools • Hydraulic crimping heads

Type of network: LV MV HV

XP130

HYDRAULIC CRIMPING HEAD 130 KN

Use: The XP130 hydraulic crimping heads must be connected to a 700 bar hydraulic group, with high-pressure hose and couplings, for semi-intensive or intensive use (according to the group connected to). This solution enables to interchange different crimping or cutting heads, as per capacities and applications.

+ Accept all brands of dies.
Large crimping capacity.

Technical specifications: The XP130 hydraulic crimping heads have the same force, stroke and capacity than the MP130 hand tools or BP130 battery-operated models : crimping of 10 to 300 mm² or 10 to 400 mm² connectors.

C-shaped head with 26mm max. passage.

Semicircular dies, common to all 130kN tools.

Periodic inspection frequency : 1 year or 10 000 cycles.



Ref.	Force	Stroke	Hexagonal crimping	Dimensions (mm)	Weight (kg)
XP13026	130 kN	26 mm	10 > 300 mm ²	195 x 70 x 125	3,9
XP13038	130 kN	38 mm	10 > 400 mm ²	230 x 70 x 115	4,6

XPH130

HYDRAULIC INDENT CRIMPING HEAD 130 KN

Use: The XPH130 hydraulic crimping head must be connected to a 700 bar hydraulic group, with high-pressure hose and couplings, for semi-intensive or intensive use (according to the group connected to). This solution enables to interchange different crimping or cutting heads, as per capacities and applications.

+ Large crimping capacity.
Anti-corrosion treatment on the head.

Technical specifications: The XPH130 hydraulic indent crimping head has the same force, stroke and capacity than the MPH130 hand tool or BPH130 battery-operated model : deep indenting of underground lines from 16 to 240 mm² and crimping of 10 to 300 mm² connectors.

Periodic inspection frequency : 1 year or 10 000 cycles.



Ref.	Force	Stroke	Hexagonal crimping	Deep indenting	Dimensions (mm)	Weight (kg)
XPH130	130 kN	26 mm	16 > 300 mm ²	16 > 400 mm ²	205 x 80 x 80	3,6

XPH250

HYDRAULIC CRIMPING HEAD 250 KN

Use: The XPH250 hydraulic crimping head must be connected to a 700 bar hydraulic group, with high-pressure hose and couplings, for semi-intensive or intensive use (according to the group connected to). This solution enables to interchange different crimping or cutting heads, as per capacities and applications.

+ Large crimping capacity.
Anti-corrosion treatment on the head.

Technical specifications: The XPH250 hydraulic crimping head is designed to crimp connectors from 50 to 630 mm².

Anti-rotation system for the bottom die and locking pin for the upper die.

Periodic inspection frequency : 1 year or 10 000 cycles.



Ref.	Force	Stroke	Hexagonal crimping	Dimensions (mm)	Weight (kg)
XPH250	250 kN	28 mm	50 > 630 mm ²	287 x 100 x 130	6,88



XPU250

HYDRAULIC INDENT CRIMPING HEAD 250 KN

Use: The XPU250 hydraulic indent crimping head must be connected to a 700 bar hydraulic group, with high-pressure hose and couplings, for semi-intensive or intensive use (according to the group connected to). This solution enables to interchange different crimping or cutting heads, as per capacities and applications. Hexagonal crimping is possible (with care) using adapter 2S1 (not supplied).

Technical specifications: The XPU250 hydraulic indent crimping head is particularly suitable for deep indenting of underground lines from 16 to 400 mm².

Anti-rotation system for the bottom die and locking pin for the upper die.

Periodic inspection frequency : 1 year or 10 000 cycles.

Ref.	Force	Stroke	Deep indenting	Dimensions (mm)	Weight (kg)
XPU250	250 kN	29 mm	16 > 400 mm ²	255 x 85 x 100	6,65
Accessories:					
MOS30857	2S1 adapter to use H130 dies (with care)				



XPH450

HYDRAULIC CRIMPING HEAD 450 KN

Use: The XPH450 hydraulic crimping head must be connected to a 700 bar hydraulic group, with high-pressure hose and couplings, for semi-intensive or intensive use (according to the group connected to). This solution enables to interchange different crimping or cutting heads, as per capacities and applications.

⊕ Large crimping capacity.
Anti-corrosion treatment on the head.

Technical specifications: Very sturdy, the XPH450 hydraulic crimping head has a large crimp capacity : connectors from 95 to 1000 mm².

The side coupling enables to sit this head on a bench.

Periodic inspection frequency : 1 year or 10 000 cycles.

Ref.	Force	Stroke	Hexagonal crimping	Dimensions (mm)	Weight (kg)
XPH450	450 kN	35 mm	95 > 1000 mm ²	285 x 115 x 120	11



Crimping tools • Battery operated hydraulic crimping tools

Type of network: LV MV HV

BLP36

BATTERY OPERATED CRIMPING TOOL

Use: Hydraulic crimping tool operated by battery 18V Li-Ion 1,5Ah, for crimping connectors from 4 to 150 mm².

+ Balanced centre of gravity for easy handling and effortless operations.
Maximum operating speed with high performance motor.

Technical specifications: Simple display panel with light diode for battery charge level, crimping failure and maintenance control.

Quick opening and closing head, 180° rotatable with interchangeable dies and wide crimping.

Robust plastic housing with rubber grip handle.

Ergonomic design with On/ Off button.

Large and ergonomic triggers with electronic speed control in the trigger allowing a perfect control of the approach before crimping.

Anti-corrosion treatment on the head.

Workplace illumination by LED.

Handling ring for safety cable or transportation.

Adjustable stroke between 5 and 8 mm by rotation of graduated ring, reducing the cycling number when crimping small cables.

Quick motor stop function for high user safety.

Automatic release with an audible «click» when the force of 35 kN is reached.

Return of piston by release trigger.

USB connection for data analysis & preventive maintenance with dedicate software.

Pressure safety system to prevent over pressure failures.

Energy saving function by stopping tool after 10 minutes unused.

18V Li-Ion battery, high performance with short charging time.

Made in France.

Periodic inspection frequency : 1 year or 15 000 cycles.

This tool is supplied with 1 battery and 1 charger.

Delivered in a plastic case (510 x 360 x 115 mm) that can contain 12 die sets.

NB : «European» type plug (charger), on request we can find solution for specific areas.



Interchangeable die sets which are common to MP36 and BLP36							
	Application	Copper sleeves and lugs	Copper or alu bare or insulated sleeves	Copper or alu sleeves and lugs	C-shaped connectors	Pre-rounding	Copper sleeves and lugs
	Type of crimp						
	Section	4 > 150 mm ²	E 140 > E215	KZ4 > KZ18	C6 > C16	10 > 120 mm ²	10 > 95 mm ²

Ref.	Force	Stroke	Hexagonal crimping	Battery	Dimensions (mm)	Weight (kg)
BLP36	35 kN	5 > 8 mm	4 > 150 mm ²	18 V - 1,5 Ah	355 x 75 x 128	2,2



BLP55

BATTERY OPERATED CRIMPING TOOL

Use: Hydraulic crimping tool operated by battery 18V Li-Ion 1,5Ah, for crimping connectors from 4 to 185 mm².

- +** Balanced centre of gravity for easy handling and effortless operations.
- Maximum operating speed with high performance motor.
- Double control of the crimping quality by the operator.
- Accepts all brands of dies.

Technical specifications: Simple display panel with light diode for battery charge level, crimping failure and maintenance control.

Quick opening and closing head, 180° rotatable with interchangeable dies and wide crimping.

Robust plastic housing with rubber grip handle.

Ergonomic design with On/ Off button.

Large and ergonomic triggers with electronic speed control in the trigger allowing a perfect control of the approach before crimping.

Anti-corrosion treatment on the head.

Workplace illumination by LED.

Handling ring for safety cable or transportation.

Ball plunger can take dies of 30 or 38 mm width.

Quick motor stop function for high user safety.

Automatic release with an audible «click» when the force of 55 kN is reached.

Return of piston by release trigger.

USB connection for data analysis & preventive maintenance with dedicate software.

Pressure safety system to prevent over pressure failures.

Energy saving function by stopping tool after 10 minutes unused.

18V Li-Ion battery, high performance with short charging time.








Made in France.

Periodic inspection frequency : 1 year or 15 000 cycles.

This tool is supplied with 1 battery and 1 charger.

Delivered in a plastic case (510 x 360 x 115 mm) that can contain 12 die sets.

NB : «European» type plug (charger), on request we can find solution for specific areas.

Interchangeable die sets which are common to MP55 and BLP55							
	Application	Copper sleeves and lugs	Copper or alu bare or insulated sleeves	Copper or alu sleeves and lugs	C-shaped connectors	Pre-rounding	Copper sleeves and lugs
	Type of crimp						
	Section	4 > 185 mm ²	E 54 > E215	KZ6 > KZ25	C6 > C35	25 > 185 mm ²	10 > 120 mm ²

Ref.	Force	Stroke	Hexagonal crimping	Battery	Dimensions (mm)	Weight (kg)
BLP55	55 kN	13 mm	4 > 185 mm ²	18 V - 1,5 Ah	310 x 80 x 235	3,24



Crimping tools • Battery operated hydraulic crimping tools

Type of network: LV MV HV

BP80

BATTERY OPERATED CRIMPING TOOL

Use: Hydraulic crimping tool operated by battery 18V Li-Ion 4.0 Ah, for crimping connectors from 6 to 240 mm².

**⊕ Balanced centre of gravity for easy handling and effortless operations.
Max. weight/power ratio.
Maximum operating speed with high performance motor.**

Technical specifications: Simple display panel with light diode for battery charge level, crimping failure and maintenance control.

Quick opening and closing head, 180° rotatable.

Robust plastic housing with rubber grip handle.

Large and ergonomic triggers with electronic speed control in the trigger allowing a perfect control of the approach before crimping.

Anti-corrosion treatment on the head.

Workplace illumination by LED.

Handling ring for safety cable or transportation.

80 kN semicircular dies can be used with 62 kN and 130 kN hydraulic tools.

Automatic release with an audible «click» when the force of 80 kN is reached.

Return of piston by release trigger.

USB connection for data analysis & preventive maintenance with dedicate software.

Pressure safety system to prevent over pressure failures.

Energy saving function by stopping tool after 10 minutes unused.

18V Li-Ion battery, high performance with short charging time.

Made in France.

Periodic inspection frequency : 1 year or 15 000 cycles.

This tool is supplied with 2 batteries and 1 charger.

Delivered in a plastic case (592 x 495 x 115 mm) that can contain 24 die sets.

NB : «European» type plug (charger), on request we can find solution for specific areas.



Interchangeable die sets which are common to MP80 and BP80

	Application	Copper sleeves and lugs	Copper or alu bare or insulated sleeves	Copper or alu sleeves and lugs	C-shaped connectors	Pre-rounding
	Type of crimp					
	Section	6 > 240 mm ²	E 54 > E230	KZ6 > KZ32	C10 > C50	25 > 240 mm ²


Ref.	Force	Stroke	Hexagonal crimping	Battery	Dimensions (mm)	Weight (kg)
BP80	80 kN	13 mm	6 > 240 mm ²	18 V - 4,0 Ah	370 x 315 x 95	5,48



BP13026 - BP13038

BATTERY OPERATED CRIMPING TOOL

Use: Hydraulic crimping tool operated by battery 18V Li-ion 4.0 Ah, for crimping connectors from 10 to 300 mm² or from 10 to 400mm² according to models.

-  **Balanced centre of gravity for easy handling and effortless operations.**
- Max. weight/power ratio.**
- Double control of the crimping quality by the operator.**
- Accepts all brands of dies.**

Technical specifications: Simple display panel with light diode for battery charge level, crimping failure and maintenance control.

Open C crimping head, 320° rotatable with interchangeable dies and wide crimping

Robust plastic housing with rubber grip handle.

Ergonomic design with On/ Off button.

Large and ergonomic triggers with electronic speed control in the trigger allowing a perfect control of the approach before crimping.

Anti-corrosion treatment on the head.

Workplace illumination by LED.

Handling ring for safety cable or transportation.

Semicircular dies common to all 130 kN hydraulic tools.

Quick motor stop function for high user safety.

Automatic release with an audible «click» when the force of 130 kN is reached.

Return of piston by release trigger.

USB connection for data analysis & preventive maintenance with dedicate software.

Pressure safety system to prevent over pressure failures.

Energy saving function by stopping tool after 10 minutes unused.

18V Li-Ion battery, high performance with short charging time.








Made in France.








Periodic inspection frequency : 1 year or 15 000 cycles.

This tool is supplied with 2 batteries and 1 charger.

Delivered in a plastic case (592 x 495 x 115 mm) that can contain 24 die sets.

NB : «European» type plug (charger), on request we can find solution for specific areas.

Interchangeable die sets which are common to MP13026, XP13026 and BP13026							
	Application	Copper sleeves and lugs	Copper or alu bare or insulated sleeves	Copper or alu sleeves and lugs	C-shaped connectors	Pre-rounding	Copper sleeves and lugs
	Type of crimp						
	Section	10 > 300 mm ²	E 54 > E280	KZ6 > KZ28	C10 > C70	50 > 240 mm ²	10 > 240 mm ²

Interchangeable die sets which are common to MP13038, XP13038 and BP13038							
	Application	Copper sleeves and lugs	Copper or alu bare or insulated sleeves	Copper or alu sleeves and lugs	C-shaped connectors	Pre-rounding	Copper sleeves and lugs
	Type of crimp						
	Section	10 > 400 mm ²	E 54 > E280	KZ6 > KZ34	C10 > C70	50 > 240 mm ²	10 > 240 mm ²

Ref.	Force	Stroke	Hexagonal crimping	Battery	Dimensions (mm)	Weight (kg)
BP13026	130 kN	26 mm	10 > 300 mm ²	18 V - 4,0 Ah	385 x 305 x 95	6,84
BP13038	130 kN	38 mm	10 > 400 mm ²	18 V - 4,0 Ah	410 x 305 x 95	7,70



BPH130

BATTERY OPERATED INDENT CRIMPING TOOL

Use: Hydraulic crimping tool operated by battery 18V Li-Ion 3.0Ah, for deep indenting of underground cables from 16 to 240 mm² and for crimping connectors from 10 to 400 mm².

Hexagonal crimping is possible using adapter A12D2 (not supplied).

- Balanced centre of gravity for easy handling and effortless operations.**
- Max. weight/power ratio.**
- Maximum operating speed with high performance motor.**
- Double control of the crimping quality by the operator.**

Technical specifications: Simple display panel with light diode for battery charge level, indent crimping failure and maintenance control.

Quick opening and closing head, 180° rotatable.

Robust plastic housing with rubber grip handle.

Large and ergonomic triggers with electronic speed control in the trigger allowing a perfect control of the approach before crimping.

Anti-corrosion treatment on the head.

Workplace illumination by LED.

Handling ring for safety cable or transportation.

The hexagonal crimping dies for MP130 and BP130 tools can also be used with this tool by using the A12D2 adapter (not supplied).

Automatic release with an audible «click» when the force of 130 kN is reached.

Return of piston by release trigger.

USB connection for data analysis & preventive maintenance with dedicate software.

Pressure safety system to prevent over pressure failures.

Energy saving function by stopping tool after 10 minutes unused.

18V Li-Ion battery, high performance with short charging time.

Made in France.

Periodic inspection frequency : 1 year or 15 000 cycles.

This tool is supplied with 2 batteries and 1 charger.

Delivered in a plastic case (592 x 495 x 115 mm) that can contain 24 die sets.

NB : «European» type plug (charger), on request we can find solution for specific areas.



Interchangeable die sets which are common to MPH130, XPH130 and BPH130

	Application	Bare or insulated alu sleeves	Adapter A12D1 type for using C130 dies
	Type of crimp		
	Section	16 > 240 mm ²	

Ref.	Force	Stroke	Crimping	Deep indenting	Battery	Dimensions (mm)	Weight (kg)
BPH130	130 kN	26 mm	10 > 400 mm ²	16 > 240 mm ²	18 V - 4,0 Ah	395 x 310 x 95	6,56
Accessories:							
H130A12D2	A12D2 adapter to use C130 dies						



AB18LI

18V BATTERY

Use: These batteries fit all the battery operated hydraulic cable cutters and battery operated crimping tools in our catalogue.

Technical specifications: No memory effect and no loss of load capacity for maximum productivity and time saving.

Excellent life span.

Ref.	Capacity	Voltage	Dimensions (mm)	Weight (g)
AB18LI150	1,5 Ah	18V	115 x 75 x 45	300
AB18LI400	4 Ah	18V	115 x 75 x 65	500
AB18LI500	5 Ah	18 V	115 x 75 x 65	620



AC18220

CHARGER 220V 18V LI-ION

Technical specifications: Battery type : Li-Ion.

Charge current : 4 A.

Charging time for battery 1,5 Ah : 30 min.

Charging time for battery 4 Ah : 60 min.

Ref.	Dimensions (mm)	Weight (g)
AC18220	200 x 140 x 75	550



PH700

FOOT OPERATED HYDRAULIC PUMP

Use: Hydraulic foot operated double speed pump, developing a maximum pressure of 700 Bar.

Connection to all types of 700 Bar hydraulic heads.

+ This new foot-operated pump is more compact for a better ergonomics. Sturdy design. Two-stage hydraulic system : fast advance and working advance.

Technical specifications: Automatic release when force of 700 Bar is reached.

Ram retract mechanism actuated by release trigger.

Hook to hold the pump in stop position.

Equipped with a metallic support for a high working stability.

Supplied without coupler.

Optional wooden case (820 x 315 x 320 mm 10,9 kg) ref. CBPH700

Case capacity : a pump + hose and couplers + 1 hydraulic head + accessories.

Ref.	Pressure	Oil capacity	Pumping force on pedal	Dimensions (mm)	Weight (kg)
PH700	700 bar	0,7 L	38 daN	620 x 175 x 165	7,3



EH705

220V ELECTRICAL HYDRAULIC POWER UNIT

IP 55 ACCORDING TO EN 60529

Use: 220V Electrical hydraulic power unit developing a maximum pressure of 700 Bar.

Connection to all types of 700 Bar hydraulic heads. Designed for a semi-intensive work.

+ Excellent weight/power/volume ratio.
Two-stage hydraulic system : fast advance and working advance.

Technical specifications: Motor 550W single-phase 220V 50Hz.

Automatic stop of engine at 700 Bar.

Safety valve against overpressure risks.

Thermal circuit breaker to protect against electric motor overcharge.

Emergency control for manual return of piston.

Supplied with a 2 switches remote control (cable length : 3 metres) and 2 additional fuses 160 mA in bag.

Hoses and couplers are not included.

Optional wooden case (600 x 400 x 400 mm 13,5 kg) ref.CBEH705.

Case capacity : power unit, flexible hose and couplers, 1 hydraulic head + accessories.

NB : «European» type plug, on request we can find solution for specific areas.



Ref.	Pressure	Flow	Oil capacity	Engine	Sound level	Dimensions (mm)	Weight (kg)
EH705	700 bars	1,2L/min LP - 0,4L/min HP	2 L	550 W	LWA 91 dB(a)	320 x 180 x 440	13,4

Accessories:

82814	Foot control pedal
MOS82801	Remote control
MOS82809	Insulating hydraulic oil XV32 0,5L
82812	Manometer

BGH700

BATTERY OPERATED HYDRAULIC POWER PACK

Use: Hydraulic foot operated double speed pump, developing a maximum pressure of 700 Bar.

Connection to all types of 700 Bar hydraulic heads.

+ • Maximum operating speed with high performance motor.
• Quick motor stop function for high user safety.
Energy saving function for switching off the tool after 10 min.
• 2 hydraulic pump stages for improved fast advance.
Pressure safety system to prevent from pressure failures, with audible click at release.

Technical specifications: • ON/OFF button with emergency saving function

- Display panel for : Battery charge level - Cycle conformity - Maintenance
- High oil volume, easy access to the tank for draining and refilling oil
- 360° rotating coupling
- Handling ring for transportation (strap)
- Manual release by emergency button
- Control system : Cut / crimp switch - integrated control (+ wire remote control) - USB connection
- Battery 18V 4.0Ah and wire remote control included.



Ref.	Pressure	Oil capacity	Battery	Dimensions (mm)	Weight (kg)
BGH700	700 bar	0,8 L	18 V - 5.0 Ah	330 x 160 x 250	5,67

Accessories:

AB18LI400	Battery 18V 4,0Ah
AC18220	Charger 220V 18V Li-Ion
MOS82809	Insulating hydraulic oil XV32 0,5L
82812	Manometer





EH706

220V ELECTRICAL HYDRAULIC POWER UNIT

IP 55 ACCORDING TO EN 60529

Use: 220 V Electrical hydraulic power unit developing a maximum pressure of 700 Bar.

Connection to all types of 700 Bar hydraulic heads.

Designed for an intensive work.

+ Ergonomic and noiseless power unit.
 Excellent weight/power ratio.
 Sturdy body.
 2 stage hydraulic system : fast advance and working advance.

Technical specifications: Designed for an intensive work: service S3/S6 of 40% (i.e.: crimping capacity with a XP130 head : 6 terminal lugs of 185 mm² per minute).

Motor 750W single-phase 220V 50Hz with condenser of starting (permitting the starting off under load).

Automatic stop of engine at 700 Bar.

Safety valve against overpressure risks.

Thermal circuit breaker to protect against electric motor overcharge.

Emergency control for manual return of piston.

Supplied with a 2 switches remote control (cable length : 3 metres), 2 x 160 mA additional fuses in plastic bag and a 0,5L bottle of XV32 insulating hydraulic oil.

Hoses and couplers are not supplied.

Optional wooden case (630 x 370 x 450 mm 10,45 kg) ref. CBEH706.

Case capacity : power unit + 1 hose/couplers + hydraulic head + accessories.

NB : «European» type plug, on request we can find solution for specific areas.

Ref.	Pressure	Flow	Oil capacity	Engine	Sound level	Dimensions (mm)	Weight (kg)
EH706	700 bar	0,8 L/min	2 L	750 W	> LWA 80 dB(a)	380 x 200 x 420	17

Accessories:

82814	Foot control pedal
MOS82801	Remote control
MOS82809	Insulating hydraulic oil XV32 0,5L
82812	Manometer



MOS30875

CARRYING CASE

Use: Plastic carrying case for storage of opening dies type MJE, MCE and indentors, for deep indenting.

Ref.	Description	Dimensions (mm)
MOS30875	Plastic carrying case	475 x 235 x 95



MOS82801

REMOTE CONTROL

Use: 2 switches remote control (advance/return) with pressure holding (cable length : 3 metres).



Ref.	Description
MOS82801	Remote control

82814

FOOT CONTROL PEDAL

Use: Foot operated dual pedal, equipped with a 3 m length cable.
To be used instead of the remote control.



Ref.	Description
82814	Foot control pedal

DFH

INSULATING HYDRAULIC OIL

Use: To be used with hydraulic tools and power units.



Ref.	Contenance
MOS82809	0,5 L
OMST032	5 L





Choice n°1 : Hydraulic head + quick nozzle (ref. 30887)



Choice n°2 : Hydraulic group + quick coupler (ref. 30888)



Choice n°3 : HP Hose with 1/4 BSP thread + quick nozzle (ref. 80847) + quick coupler (ref. 80848)



As an option : bent coupler (power unit side) for a better rotation of the flexible hose

Flexible hoses and couplers assembly onto hydraulic heads and power units

Use: All our hydraulic crimping/cutting heads and power units are 1/4 BSP thread.

However, some flexible hoses are only available in 3/8 NPT thread, therefore adapters are required.

Choice n°1 : Choice of the nozzle for the hydraulic head

Choice n°2 : Choice of the coupler for the hydraulic power unit

Choice n°3 : Choice of the flexible hose

As an option : bent coupler on request.

Ref.	Description
MOS30887	Quick standard nozzle 1/4 male BSP
MOS30888	Quick standard coupler female 1/4 BSP
MOS80847	Quick standard nozzle CEJN 1/4 BSP (male) + Ring BSP 1/4
MOS80848	Quick standard coupler CEJN 1/4 BSP (female) + Ring BSP 1/4



DRR1

1/4 BSP QUICK STANDARD COUPLERS

Ref.	Description
To be connected to flexible hose:	
MOS80848	Quick standard coupler CEJN 1/4 BSP (female) + Ring BSP 1/4
MOS80847	Quick standard nozzle CEJN 1/4 BSP (male) + Ring BSP 1/4
To be connected to hydraulic head:	
MOS30887	Quick standard nozzle 1/4 male BSP
To be connected to 700 bar hydraulic power unit:	
MOS30888	Quick standard coupler female 1/4 BSP



DRV1

3/8 NPT STANDARD COUPLER

Ref.	Description
To be connected to flexible hose, power unit side:	
HSER001	Coupler type A, EDF-BT
To be connected to the hydraulic head:	
HSER002	Coupler type B, EDF-BT



DRR2

3/8 NPT QUICK STANDARD COUPLERS



Ref.	Description
To be connected to the hydraulic head:	
HCEJ101156404	Quick standard nozzle CEJN 3/8 male NP T (male)
To be connected to flexible hose with 3/8NPT thread:	
HCEJ101156204	Quick standard coupler CEJN 3/8 NPT (female)

DAD1

ADAPTORS



Ref.	Description
HREM68211-40	Adapter male 1/4 BSP to female 3/8 NPT
HCEJ792181623	Adapter male 3/8 NPT to male 3/8 NPT

DFL1

700 BAR FLEXIBLE HOSE, 1/4 BSP

Technical specifications: 1/4 BSP thread.



Ref.	Length (m)	Type
MOS30195-01	3	Uninsulated
MOS80407	6	Uninsulated
MOS30582	10	Insulated
MOS30483	12	Uninsulated

DFLR

700 BAR FLEXIBLE HOSE WITH COUPLER



Ref.	Description
MOS77840	Hydraulic hose 1/4 BSP equipped CEJN S115 - 1,6 m
MOS77841	Hydraulic hose 1/4 BSP equipped CEJN S115 - 3 m
MOS77842	Hydraulic hose 1/4 BSP equipped CEJN S115 - 6 m
MOS77843	Hydraulic hose 1/4 BSP equipped CEJN S115 - 12 m
MOS82810	Hydraulic uninsulated flexible hose + 90° male coupler - 3 m
MOS82811	Hydraulic insulated flexible hose + 90° male coupler - 10 m



HOW TO CHOOSE YOUR CRIMPING DIE SET?

The following are factors to consider to determine the required die set:

- 1 - Type of network
- 2 - Type of connector
- 3 - Cross-section of the cable
- 4 - Model of tool you are using

> EXAMPLE OF SELECTION :

- 1 - I am working on a grounding and industrial network
- 2 - I am working on a tubular lugs NF C20-130
- 3 - The cross-section is 35 mm²
- 4 - I use a battery-operated hydraulic crimping tool BP80

The item number of the required die is MOS84109.

Reminder : Most of the time, the code of the die to be used is marked on the lug or sleeve.

EARTH CIRCUIT AND INDUSTRIAL NETWORK



HEXAGONAL CRIMPING

TUBULAR SLEEVES AND LUGS NF C20-130-XCT-XG



Section (mm ²)	Code	MP36		MP55		MP80		MP130..26-38		MPH130					
		Width (mm)	Die set part n°	Width (mm)	Die set part n°	Width (mm)	Die set part n°	Width (mm)	Die set part n°	Width (mm)	Die set part n°	Width (mm)	Die set part n°	Width (mm)	Die set part n°
4		5	MOS02633	9	MOS31042										
6		9	MOS02454	9	MOS31038	9	MOS84105	9	MOS80414	9	MOS80414				
10		9	MOS02431	9	MOS31039	9	MOS84106	9	MOS30218	9	MOS30218				
16		9	MOS02432	9	MOS31040	9	MOS84107	9	MOS30219	9	MOS30219				
25		9	MOS02433	9	MOS31041	9	MOS84108	9	MOS30220	9	MOS30220				
35		9	MOS02413	9	MOS31038	12	MOS84109	12	MOS30221	12	MOS30221				
50		5	MOS02434	5	MOS31039	12	MOS84110	12	MOS30222	12	MOS30222	12	MOS30525		
70		5	MOS02435	5	MOS31040	5	MOS84111	12	MOS30223	12	MOS30223	12	MOS30526		
95		5	MOS02414	5	MOS31041	5	MOS84112	12	MOS30224	12	MOS30224	12	MOS30527	14	MOS30390
120		3,5	MOS02437	5	MOS31042	5	MOS84113	12	MOS30235	12	MOS30235	12	MOS30528	14	MOS77101
150		3,5	MOS02415	5	MOS31043	5	MOS84114	12	MOS30236	12	MOS30236	12	MOS30444	14	MOS77102
185				5	MOS31297	5	MOS84115	12	MOS30237	12	MOS30237	12	MOS30445	18	MOS77103
240						5	MOS84116	12	MOS30228	12	MOS30228	12	MOS30446	18	MOS77104
300								12	MOS30229	12	MOS30229	12	MOS30447	25	MOS77105
400								9	MOS30452	12	MOS30452	12	MOS30414	25	MOS30466
500												12	MOS30448	25	MOS77106
630												12	MOS30449	18	MOS77107
800														18	MOS30469
1000														18	MOS30470

INDENTING

TUBULAR SLEEVES AND LUGS NF C20-130-XCT-XG



Section (mm ²)	Code															
		Width (mm)	Die set part n°	Width (mm)	Die set part n°	Width (mm)	Die set part n°	Width (mm)	Die set part n°	Width (mm)	Die set part n°	Width (mm)	Die set part n°	Width (mm)	Die set part n°	
10-16-25-35-50	Indentors															
70-95-120			MOS02466		MOS31166											
150-185-240																
10	Dies	9	MOS02577	12	MOS31167			9	MOS30322			9	MOS30322			
16		9	MOS02578	12	MOS31168			12	MOS30323	12	MOS30323	12	MOS30323			
25		9	MOS02579	12	MOS31169			12	MOS30324	12	MOS30324	12	MOS30324			
35		9	MOS02580	12	MOS31169			12	MOS30325	12	MOS30325	12	MOS30325			
50		9	MOS02581	12	MOS31168			12	MOS30326	12	MOS30326	12	MOS30326			
70		9	MOS02582	12	MOS31167			16	MOS30328	16	MOS30328	16	MOS30328			
95		9	MOS02583	12	MOS31170			16	MOS30329	16	MOS30329	16	MOS30329			
120					12	MOS31171			16	MOS30330	16	MOS30330	16	MOS30330		
150									22	MOS30332	22	MOS30332	22	MOS30332		
185									22	MOS30333	22	MOS30333	22	MOS30333		
240									22	MOS30334	22	MOS30334	22	MOS30334		
300																



EARTH CIRCUIT AND INDUSTRIAL NETWORK

			MP36	MP55	MP80	MP130..26-38	MPH130				
			BLP36	BLP55	BP80	BP130..26-38	BPH130				
						XP130..26-38	XPH130				
HEXAGONAL CRIMPING											
C-SHAPED CONNECTORS 	Section (mm²)	Code	Width (mm)	Die set part n°	Width (mm)	Die set part n°	Width (mm)	Die set part n°	Width (mm)	Die set part n°	ADAPTER A12D2 : MOS85880
	6	C6	9	MOS02701	9	MOS31310					
	10	C10	9	MOS02702	9	MOS31311	9	MOS84117	9	MOS80160	
	16	C16	5	MOS02703	2x5	MOS31312	2x5	MOS84118	2x5	MOS80161	
	25	C25			5	MOS31315					
	35	C35					2x5	MOS84119	2x5	MOS80162	
	50	C50									
	70	C70					18	MOS30562-01	18	MOS30562-01	
HEXAGONAL CRIMPING											
COPPER FORGED TINNED LUGS HUR - DPD 	Section (mm²)	Code	Width (mm)	Die set part n°	Width (mm)	Die set part n°	Width (mm)	Die set part n°	Width (mm)	Die set part n°	ADAPTER A12D2 : MOS85880
	16	E100	5	MOS02434	5	MOS31039	12	MOS84110	12	MOS30222	
	25										
	35										
	50										
	70	3,5	MOS02415	5	MOS31043	5	MOS84114	12	MOS30236		
	95										
	120										
	150										
	185	E100					5	MOS84116	12	MOS30228	
240											
DPD 29/25	E100			5	MOS31047	5	MOS84168	18	MOS80390		
HEXAGONAL CRIMPING											
CJ/AL BIMETALLIC LUGS INDUSTRIAL NETWORK 	Section (mm²)	Code	Width (mm)	Die set part n°	Width (mm)	Die set part n°	Width (mm)	Die set part n°	Width (mm)	Die set part n°	ADAPTER A12D2 : MOS85880
	35	E140	9	MOS02377			9	MOS84170	9	MOS30578	
	50								18	MOS80387	
	70	E173	9	MOS02376			9	MOS84171	9	MOS30579	
	95								18	MOS80388	
	120	E235							9	MOS30636	
	150								18	MOS80358	
	185										
240	E260							9	MOS30636		
300								18	MOS80358		
								9	MOS80386		



LV/MV BARE OVERHEAD LINE



HEXAGONAL CRIMPING

MP36	MP55	MP80	MP130..26-38	MPH130
BLP36	BLP55	BP80	BP130..26-38	BPH130
			XP130..26-38	XPH130



COPPER CONDUCTORS
JU



Section (mm²)	Code	Width (mm)	Die set part n°	Width (mm)	Die set part n°	Width (mm)	Die set part n°	Width (mm)	Die set part n°	ADAPTER	Width (mm)	Die set part n°				
7,07 (30/10)	E54			5	MOS31047	5	MOS84176	18	MOS80389		18	MOS80389				
9,9 (35/10)	E68			9	MOS31045	9	MOS84177	18	MOS30346		18	MOS30346				
10,8																
12,56 (40/10)	E72			5	MOS31044	5	MOS84178	10	MOS30347		10	MOS30347				
12,4																
14,1																
15,9 (45/10)																
17,8	E83			9	MOS31046	9	MOS84179	18	MOS30348		18	MOS30348				
22																
27,6																
28,26 (60/10)	E100			5	MOS31047	5	MOS84168	18	MOS80390	A12D2 - MOS85880	18	MOS80390				
29,3																
38,2																
38,46 (70/10)																
48,3	E120			5	MOS31044	5	MOS84169	18	MOS80152		18	MOS80152				
59,7	E173	9	MOS02376	9	MOS31046	9	MOS84171	14	MOS30353		14	MOS30353				
74,9																
93,3																
116	E215	9	MOS02371	9	MOS31093	9	MOS84173	9	MOS30580		9	MOS30580				
146																
182	E230					5	MOS84174	10	MOS30357		10	MOS30357				





Crimping tools • Crimping dies

Type of network: LV MV HV

LV/MV BARE OVERHEAD LINE

			MP36	MP55	MP80	MP130..26-38	MPH130							
			BLP36	BLP55	BP80	BP130..26-38	BPH130							
						XP130..26-38	XPH130							
HEXAGONAL CRIMPING														
ALUMINIUM ALLOY CONDUTORS JL-CN2AA-CN2AU-CNAA-ABT- CB-CBO-RDB-QN2AU-AT-AB-AR- LR-ALR	Section (mm²)	Code	Width (mm)	Die set part n°	Width (mm)	Die set part n°	Width (mm)	Die set part n°	Width (mm)	Die set part n°	ADAPTER A12D2 : MOS85880	Width (mm)	Die set part n°	
	22	E100			5	MOS31047	5	MOS84168	18	MOS80390			18	MOS80390
	34,4	E120			5	MOS31044	5	MOS84169	18	MOS80152			18	MOS80152
	43,1	E140	9	MOS02377	9	MOS31217	9	MOS84170	15	MOS30352			15	MOS30352
	54,6													
	75,5	E173	9	MOS02376			9	MOS84171	14	MOS30353			14	MOS30353
	93,3													
	117	E210			5	MOS31048	5	MOS84172	10	MOS30355			10	MOS30355
	148	E230					5	MOS84174	10	MOS30357			10	MOS30357
	181,6	E250							5	MOS80453			5	MOS80453
228	E280							5	MOS30360		5	MOS30360		
ALUMINIUM CRIMPING														
ALUMINIUM/STEEL CONDUCTORS JAR-JALR-JLR	Section (mm²)	Code	Width (mm)	Die set part n°	Width (mm)	Die set part n°	Width (mm)	Die set part n°	Width (mm)	Die set part n°	ADAPTER A12D2 : MOS85880	Width (mm)	Die set part n°	
	17,8	E120			5	MOS31044	5	MOS84169	9	MOS30351			9	MOS30351
	22													
	27,8													
	34,4													
	37,7	E140	9	MOS02377			9	MOS84170	15	MOS30352			15	MOS30352
	43,1													
	54,6													
	58,9	E173	9	MOS02376			9	MOS84171	14	MOS30353			14	MOS30353
	69,3													
	80													
	88													
	59,7	E210			5	MOS31048	5	MOS84172	10	MOS30355			10	MOS30355
	116,2													
	75,5	E230					5	MOS84174	10	MOS30357			10	MOS30357
147,1														
181,6	E250							5	MOS30250		5	MOS30250		
228	E280							5	MOS30360		5	MOS30360		
STEEL CRIMPING														
ALUMINIUM/STEEL CONDUCTOR JAR-JALR-JLR	Section (mm²)	Code	Width (mm)	Die set part n°	Width (mm)	Die set part n°	Width (mm)	Die set part n°	Width (mm)	Die set part n°	ADAPTER A12D2 : MOS85880	Width (mm)	Die set part n°	
	17,8	E54			5	MOS31047	5	MOS84176	10	MOS30345			10	MOS30345
	22													
	27,8													
	34,4													
	43,1	E72			5	MOS31044	5	MOS84178	10	MOS30347			10	MOS30347
	37,7													
	54,6													
	69,3	E100			5	MOS31047	5	MOS84168	10	MOS30349			10	MOS30349
	88													
	58,9	E120			5	MOS31044	5	MOS84169	9	MOS30351			9	MOS30351
	80													
	59,7													
75,5														
116,2														
147,1														



LV INSULATED OVERHEAD LINE



		MP36	MP55	MP80	MP130..26-38	MPH130							
		BLP36	BLP55	BP80	BP130..26-38	BPH130							
					XP130..26-38	XPH130							
HEXAGONAL CRIMP													
		Width (mm)	Die set part n°	Width (mm)	Die set part n°	Width (mm)	Die set part n°	Width (mm)	Die set part n°	ADAPTER	Width (mm)	Die set part n°	
INSULATED LUGS AND SLEEVES MJPB-MJPT-MJT-EBPAU-EDBPAU-CCFBD-CPTA-DP/CN-XN8S-EJAS-EDAS CN	Section (mm²)												
	6	E140	9 MOS02377			9 MOS84170		9 MOS30578			9	MOS30578	
	10										9	MOS30578	
	16	d16 E140	9 MOS02377			9 MOS84170		9 MOS30578			9	MOS30578	
	25	d20 E173	9 MOS02376			9 MOS84171		9 MOS30579			9	MOS30579	
	35			9 MOS31217									
	50												
	54,6												
	70	E173	9 MOS02376			9 MOS84171		9 MOS30579				9	MOS30579
	70 N												
95													
120	E215	9 MOS02371	9 MOS31093	9 MOS84173	9 MOS30580					A12D2 : MOS85880	9	MOS30580	
150											9	MOS30360-01	
185	E280							9 MOS30360-01			9	MOS30360-01	
240													
SLEEVES MJPAS-MJPASE-JAS	50												
	70												
	95							9 MOS80386			9	MOS80386	
	150												
SLEEVES MJTAS-MJTASE-EJASE	50												
	70	E215	9 MOS02371	9 MOS31093	9 MOS84173	9 MOS30580					9	MOS30580	
	95												
	150												
	240/95N	E280						9 MOS30360-01			9	MOS30360-01	





Crimping tools • Crimping dies

Type of network: LV MV HV

LV UNDEGROUND LINE

			MPH130				XPH130						
			BPH130				XPU250						
DEEP INDENTING													
			for terminals	for junctions	INDENTER HOLDER	Indenter	ADAPTER	for terminals	for junctions	Indenter			
AL & CU/AL SLEEVES AND LUGS RJA-RJAU-MJAU-CA-CAU-QAU-EAU-XCX-XLX-XD-XG-XB 	Section (mm²)	Code	Opening dies part n°	Opening dies part n°	PP130 : MOS30842	MOS30392	2S1 : MOS30857	Opening dies part n°	Opening dies part n°	Indenter			
	16	0E	MOS30861	MOS30865				MOS30861	MOS30865		MOS30861	MOS30865	MOS30392
	25												
	35												
	50												
	70	1E	MOS30862	MOS30866				MOS30862	MOS30866		MOS30862	MOS30866	MOS30393
	95												
	120	2E	MOS30863	MOS30867				MOS30863	MOS30867		MOS30863	MOS30867	MOS30394
	150												
	185												
240	4E	MOS30864	MOS30868	MOS30864	MOS30868	MOS30864	MOS30868	MOS30395					
300													
400	5E								MOS30858	MOS30859	MOS30860		

COPPER OR ALUMINIUM SECTORAL CABLE

			MP36	MP55	MP80	MP130..26-38	MPH130						
			BLP36	BLP55	BP80	BP130..26-38	BPH130						
PRE-ROUNDING													
			for terminals	for junctions	for terminals	for junctions	ADAPTER	for terminals	for junctions	Indenter			
	Section (mm²)	Code	Width (mm)	Die set part n°	Width (mm)	Die set part n°	Width (mm)	Die set part n°	A12D2 : MOS85880	Width (mm)	Die set part n°		
	10	9	MOS02637	MOS02638	12	MOS31114	35	MOS84134		35	MOS84134	60	MOS30518
	16												
	25												
	35	9	MOS02640	12	MOS31115	35	MOS84135	35		MOS84135	35	MOS84136	MOS30518
	50												
	70	9	MOS02642	12	MOS31098	35	MOS84136	35		MOS84136	35	MOS84137	MOS30519
	95												
	120												
	150	9	MOS02643	12	MOS31099	35	MOS84137	35		MOS84137	35	MOS84138	MOS30520
	185												
	240	9	MOS02644	12	MOS31100	35	MOS84138	35		MOS84138	35	MOS84139	MOS30521
	300												
			12	MOS31101	35	MOS84139	35	MOS84139	35	MOS84140	MOS30522		
			12	MOS31102	35	MOS84140	35	MOS84140	35	MOS84141	MOS30523		
			12	MOS31103	35	MOS84141	35	MOS84141	35	MOS84142	MOS30524		
					35	MOS84142	35	MOS84142	35	MOS80449			
							9	MOS80449	9	MOS80449			





TOOLS FOR EXPLOSIVE ATMOSPHERE



TOOLS FOR EXPLOSIVE ATMOSPHERE

Pliers, shears	546
Pipe wrenches, hook spanners	550
Antistatic torque wrench	551
Ratchet spanner gas sockets	554
Gas tightening spanners	558
Gas screwdrivers	566
Gas saw and knives	568
Non sparking tools	568
Devices of electrostatic charges flow	573
Tool sets	574
Tents, umbrellas	576





GS4

UNIVERSAL PLIERS ATEX II

NF E 74400 / ISO 5743 / ISO 5744 / ISO 5746

Use: «Blue» antistatic tools used in explosive atmosphere group II sub. A and B of the standard NF C 23-514.

ATEX II

Ref.	Cutting capacity	Length (mm)	Weight (g)
GS4 185	medium-hard steel wire 160 kg/mm ² : Ø 1,6 mm	185	340
GS4 210	medium-hard steel wire 160 kg/mm ² : Ø 1,6 mm	210	490



GS10

HALF-ROUND LONG NOSE TELEPHONE PLIERS ATEX II

NF E 74400 / ISO 5743 / ISO 5744 / ISO 5745

Use: «Blue» antistatic tool used for explosive atmosphere group II sub. A and B of the standard NF C 23-514.

ATEX II

Ref.	Cutting capacity	Length (mm)	Weight (g)
GS10 170	Medium-hard steel wire 160 kg/mm ² : Ø 1,6 mm	170	180



GS6

END CUTTING PLIERS ATEX II

NF E 74400 / ISO 5743 / ISO 5744 / ISO 5748

Use: «Blue» antistatic tool used in explosive atmosphere group II sub. A and B of the standard NF C 23-514.

ATEX II

Ref.	Cutting capacity	Length (mm)	Weight (g)
GS6 210	Steel wire 200 kg/mm ² : Ø 2 mm	210	410

Antistatic gas pliers • Pliers, shears

Type of network: LV  MV  HV 

GS5

DIAGONAL CUTTING PLIERS ATEX II

NF E 74400 / ISO 5743 / ISO 5744 / ISO 5749

Use: «Blue» antistatic tools used in explosive atmosphere group II sub. A. and B. of the standard NF C 23-514.



ATEX II

Ref.	Cutting capacity	Length (mm)	Weight (g)
GS5 175	Steel wire 200 kg/mm ² : Ø 1,6 mm	175	300
GS5 195	Steel wire 200 kg/mm ² : Ø 1,8 mm	195	400

GS195

END CUTTING PLIERS ATEX II

NF E 74400 / ISO 9242

Use: «Blue» antistatic tool used in explosive atmosphere group II sub. A and B of the standard NF C 23-514.



ATEX II

Ref.	Cutting capacity	Length (mm)	Weight (g)
GS195	Steel wire 160 kg/mm ² : Ø 1,6 mm	220	400

GS62

PROFILING SHEARS ATEX II

NF E 74400

Use: Designed nose for precision cuts.

«Blue» antistatic tool used in explosive atmosphere group II sub. A and B of the standard NF C 23-514.

Technical specifications: Cutting capacity:

- inox sheet : 0,6 mm,
- steel sheet : 1 mm,
- copper sheet : 1,2 mm.



ATEX II

Ref.	Nose length (mm)	Length (mm)	Weight (g)
GS62 275	53	275	660





GS8 ⚡

SLIP JOINT PLIERS ATEX II

NF E 74400 / ISO 5744 / ISO 8976

Technical specifications: Head and nose tapered for places difficult to reach.

Rack joint.

6 setting positions.

ATEX II

Ref.	Opening (mm)	Length (mm)	Weight (g)
GS8 310	35	310	670



GS26 ⚡

SLIP JOINT PLIERS ATEX II

NF E 74400 / ISO 5744 / ISO 8976

Use: Pliers designed to block tube pipes and protective tubes.

ATEX II

Ref.	Opening (mm)	Length (mm)	Weight (g)
GS26 310	35	310	650



GS27 ⚡

DOUBLE RACK SLIP-JOINT PLIERS ATEX II

NF E 74400 / ISO 5744 / ISO 8976

Technical specifications: The intermediate hinge and the double rack enable twisting work to be carried out without deformation.

5 setting positions.

ATEX II

Ref.	Opening (mm)	Length (mm)	Weight (g)
GS27 250	28	250	440
GS27 310	35	310	700

Antistatic gas pliers • Pliers, shears

Type of network: LV  MV  HV 

GS27V

SLIP JOINT PLIERS WITH LOCKING BUTTON ATEX II

NF E 74400 / ISO 8976

Use: Pliers designed to block tube pipes and protective tubes.

+ Fully adaptable for both large and small hands : thanks to its rotating axis, the handles are adaptable to your hand.
 High number of positions available : fast and precise push-button adjustment (fool proof).
 Safety of the operator : Excellent resistance to bending and torsions.

Technical specifications: Number of ratchet positions: 28 positions (14 sockets).

Fast and precise push-button adjustment with safety locking device.

Maximum hex capacity : 46mm

Maximum pipe capacity : 49mm

Excellent resistance to bending and torsions.



Ref.	Length (mm)	Weight (g)
GSV27V	305	450

GS63

GAS PLIERS ATEX II

NF E 74400

Use: Pliers designed to block tube pipes and protective tubes.



ATEX II

Ref.	Length (mm)	Weight (g)
GS63 230	230	630

Pipe wrenches, hook spanners

GS150

STILLSON PIPE WRENCH ATEX II

NF E 74400

Use: Wrench designed to block tube pipes and protective tubes.



ATEX II

Ref.	N°	Opening (mm)	Length (mm)	Weight (g)
GS150 250	10	35	250	620
GS150 350	14	50	350	1140
GS150 450	18	60	450	1960
GS150 600	24	80	600	3300





GS150CSP

FULLY COATED OFFSET PIPE WRENCH

NF E 74400

Use: Pliers designed to block tube pipes and protective tubes.

⊕ The shape of the jaw makes it possible to tighten all square or hexagonal nuts, union fittings, tightening nuts, valves, etc.
The jaws are smooth for working on chrome-plated nuts.
Thin jaws to reach confined areas.

Technical specifications: Opening capacity : 20 to 67 mm.

Ref.	Opening (mm)	Length (mm)	Weight (g)
GS150CSP	20 to 87 mm	290	840



GS150C

OFFSET PIPE WRENCH ATEX II

NF E 74400

Use: Pliers designed to block tubes pipes and protective tubes.

⊕ The shape of the jaw makes it possible to tighten all square or hexagonal nuts, union fittings, tightening nuts, valves, etc.
The jaws are smooth for working on chrome-plated nuts.
Thin jaws to reach confined areas.

Technical specifications: Opening capacity : 20 to 67 mm.

Ref.	Length (mm)	Weight (g)
GS150C	290	840



GS115

ADJUSTABLE HOOK SPANNER FOR CASTELLATED NUTS ATEX II

NF E 74400

Use: The integrated hinge means that a wider range of nuts can be covered with this key than with a non-hinged pin key.

ATEX II

Ref.	Jaw opening	Length (mm)	Weight (g)
GS115 35/50	35/50 mm	207	220
GS115 50/80	50/80 mm	287	460



GS1080

ADJUSTABLE HOOK SPANNER

Technical specifications: «Bronze» tool for explosive area.
Aluminum bronze.

Advice: Do not use this tool in the presence of acetylene.

Ref.	For nuts	Length (mm)	Weight (g)
GS1080 32	32/75 mm	200	230
GS1080 50	50/120 mm	290	450
GS1080 115	115/170 mm	310	500

Antistatic ratchet torque wrenches

Type of network: LV  MV  HV 

GS100X

GAS TIGHTENING KIT - SQUARE DRIVE 1/2"

Use: For any tightening in a defined torque :

- Mechanical joints for polyethylene tubes (with fork-type end fitting GS100 F30, GS100 F32, GS100 F45, GS100 F50, GS100 F55).
- Junctions (with fork-type end fitting GS100 F32, GS100 F50, GS100 F55). In both cases, use necessarily the adapter GS100A.
- Express joints with curved extension GS100RC, ratchet GS100C 1/2" and 30 mm socket GS66.



Ref.	Description
GS100X	Gas tightening kit - square drive 1/2"
Contents:	
GS100 20	Ratchet torque wrench 20-100 Nm
GS100A	Adapter for ratchet torque wrench
GS100C 1/2	Reversible ratchet 1/2" square drive
GS100C 3/8	Reversible ratchet 3/8" square drive
GS100F30	Fork type end fitting 30 mm
GS100F32	Fork-type end fitting 32 mm
GS100F45	Fork type end fitting 45 mm
GS100F50	Fork-type end fitting 50 mm
GS100F55	Fork type end fitting 55 mm
GS100RC	90° curved extension EDF-GDF type
GS66 30	Female 12 sided sockets 1/2" (12,7 mm) square drive 30 mm ATEX I
GS100SV	Empty plastic case 435 x 308 x 90 mm

GS100SE

RATCHET TORQUE WRENCH KIT

NF E 74400

Use: The wrench and adapter allow the use of reversible ratchet (ref. GS100C1/2") for tightening of express joints, fork-type end fitting (ref.GS100F30 to F55) and curved extension (ref. GS100RC).



Ref.	Description
GS100SE	Ratchet torque wrench kit
Contents:	
GS100 20	Ratchet torque wrench 20-100 Nm
GS100A	Adapter for ratchet torque wrench





GS100N1 - GS100N2

NON-REVERSIBLE RATCHET TORQUE WRENCH 1/2" SQUARE DRIVE ATEX II

NF E 74400 / EN 6789

Use: Non-reversible model.

⊕ A linear graduation allowing a perfect reading of the torque during adjustment spanner.
Light, body in aluminum alloy, extremely strong, English and French scales (Lbf et Nm).

Technical specifications: Automatic reset.

Adjustment toothed wheel with free wheel.

The inversion of driving square is impossible.

Only for right-hand tightening.

Fitted out with adapter ref. GS100A, the wrench allows the use of all fitting equipment 20 x 7.

ATEX II

Ref.	Square drive	Torque capacity (Nm)	Torque capacity (lbft)	Length (mm)	Weight (g)
GS100N1 1/2	1/2"	8-50	5-37	315	850
GS100N2	1/2"	30-150	20-110	450	930



C182

RATCHET TORQUE WRENCH KIT WITH GRADUATED SECTOR FOR GAS WORKER - 5 TOOLS

EN ISO 6789

⊕ Simply designed, the torque spanner is particularly reliable and strong, even in difficult conditions of use.

Advice: Do not use in explosive atmosphere.

Ref.	Description
C182	Ratchet torque wrench kit with graduated sector for gas worker - 5 tools
Contents:	
C182C 1/2	Ratchet 1/2" square drive
C182D	2-10 Nm Ratchet torque wrench
C182E 30	Fork-type end fitting 30 mm
C182E 32	Fork-type end fitting 32 mm
C182H	Female hexagonal socket 1/2" square drive 30 mm
C182CV	Empty case
Accessories:	
C182E 34	Fort-type end fitting 34 mm
C182E 36	Fort-type end fitting 36 mm
C182E 45	Fort-type end fitting 45 mm
C182E 50	Fort-type end fitting 50 mm
C182E 55	Fort-type end fitting 55 mm

Antistatic ratchet torque wrenches

Type of network: LV  MV  HV 

GSPI

SMALL GAS OPERATIONS KIT

NF E 74400

Use: Especially designed for «small operations».

Assembling/disassembling gas metres.

Substitution/tightening of different joints (flat metre joint, flat gas joint).



Ref.	Description	Weight (kg)
GSPI	Small gas operations kit	7,4
Contents:		
GS100-20	20-100 Nm Ratchet torque wrench 1/2" square drive	
GS100A	Adapter for ratchet torque wrench	
GS100F32	Fork-type end fitting 32 mm	
GS100F34	Fork-type end fitting 34 mm	
GS100F36	Fork-type end fitting 36 mm	
GS100F50	Fork-type end fitting 50 mm	
GS150CSP	Fully coated offset pipe wrench	
GS210 6,5X150	Slotted screwdriver 6,5 x 150 mm ATEX II	
GS27 250	Double rack slip-joint pliers 250 mm ATEX II	
TS38N	Bypass device for gas soil pipes - length 70 cm	
B110	Gas leak controller spray can	
C274GM	Empty plastic case 510 x 360 x 120 mm	





GS65SP

REVERSIBLE RATCHET WRENCH 1/2" (12,7 MM) SQUARE DRIVE ATEX II

NF E 74400 / ISO 1174-1 / ISO 3315

ATEX II

Ref.	Length (mm)	Weight (g)
GS65SP	255	530



GS66

FEMALE 12 SIDED SOCKETS 1/2" (12,7 MM) SQUARE DRIVE ATEX I

NF E 74400 / ISO 691 / ISO 1174-1 / ISO 1711-1 / ISO 2725-1

ATEX I

Ref.	12 sided (mm)	Weight (g)
GS66 08	08	60
GS66 09	09	65
GS66 10	10	65
GS66 11	11	65
GS66 12	12	70
GS66 13	13	70
GS66 14	14	70
GS66 15	15	75
GS66 16	16	75
GS66 17	17	75
GS66 18	18	80
GS66 19	19	80
GS66 20	20	85
GS66 21	21	100
GS66 22	22	110
GS66 23	23	120
GS66 24	24	130
GS66 25	25	140
GS66 26	26	160
GS66 27	27	160
GS66 28	28	160
GS66 29	29	165
GS66 30	30	180
GS66 32	32	200

Ratchet spanner gas sockets • 1/2"

Type of network: LV  MV  HV 

GS66L

FEMALE 12 SIDED SOCKET 1/2" (12,7 MM) SQUARE DRIVE ATEX I

NF E 74400 / ISO 691 / ISO 1174-1 / ISO 1711-1 / ISO 2725-1



Ref.	12 sided (mm)	Weight (g)
GS66L 19	19	170
GS66L 21	21	220
GS66L 24	24	350
GS66L 27	27	380
GS66L 30	30	520

GS67

MALE HEXAGONAL SOCKET 1/2" (12,7 MM) SQUARE DRIVE ATEX I

NF E 74400 / ISO 1174-1 / ISO 2936



Ref.	6 sided (mm)	Weight (g)
GS67 08	08	110
GS67 10	10	100
GS67 12	12	145
GS67 14	14	160
GS67 17	17	175

GS71

EXTENSION PIECE 1/2" (12,7 MM) SQUARE DRIVE ATEX I

NF E 74400 / ISO 1174-1 / ISO 3316



Ref.	Length (mm)	Weight (g)
GS71	130	245





GS72 ↻

T-WRENCH 1/2" (12,7 MM) SQUARE DRIVE ATEX II

NF E 74400 / ISO 1174-1 / ISO 3316

Use: This accessory provides access to the deepest places.

ATEX II

Ref.	Length (mm)	Weight (g)
GS72	310	800



GS69C ↻

SET OF 32 TOOLS

NF E 74400

Ref.	Description
GS69C	Set of 32 tools

Contents:

GS65SP	Reversible ratchet wrench 1/2" (12,7 mm) square drive ATEX II
GS66 08	Female 12 sided sockets 1/2" (12,7 mm) square drive 8 mm ATEX I
GS66 09	Female 12 sided sockets 1/2" (12,7 mm) square drive 9 mm ATEX I
GS66 10	Female 12 sided sockets 1/2" (12,7 mm) square drive 10 mm ATEX I
GS66 11	Female 12 sided sockets 1/2" (12,7 mm) square drive 11 mm ATEX I
GS66 12	Female 12 sided sockets 1/2" (12,7 mm) square drive 12 mm ATEX I
GS66 13	Female 12 sided sockets 1/2" (12,7 mm) square drive 13 mm ATEX I
GS66 14	Female 12 sided sockets 1/2" (12,7 mm) square drive 14 mm ATEX I
GS66 15	Female 12 sided sockets 1/2" (12,7 mm) square drive 15 mm ATEX I
GS66 16	Female 12 sided sockets 1/2" (12,7 mm) square drive 16 mm ATEX I
GS66 17	Female 12 sided sockets 1/2" (12,7 mm) square drive 17 mm ATEX I
GS66 18	Female 12 sided sockets 1/2" (12,7 mm) square drive 18 mm ATEX I
GS66 19	Female 12 sided sockets 1/2" (12,7 mm) square drive 19 mm ATEX I
GS66 20	Female 12 sided sockets 1/2" (12,7 mm) square drive 20 mm ATEX I
GS66 21	Female 12 sided sockets 1/2" (12,7 mm) square drive 21 mm ATEX I
GS66 22	Female 12 sided sockets 1/2" (12,7 mm) square drive 22 mm ATEX I
GS66 23	Female 12 sided sockets 1/2" (12,7 mm) square drive 23 mm ATEX I
GS66 24	Female 12 sided sockets 1/2" (12,7 mm) square drive 24 mm ATEX I
GS66 25	Female 12 sided sockets 1/2" (12,7 mm) square drive 25 mm ATEX I
GS66 26	Female 12 sided sockets 1/2" (12,7 mm) square drive 26 mm ATEX I
GS66 27	Female 12 sided sockets 1/2" (12,7 mm) square drive 27 mm ATEX I
GS66 28	Female 12 sided sockets 1/2" (12,7 mm) square drive 28 mm ATEX I
GS66 29	Female 12 sided sockets 1/2" (12,7 mm) square drive 29 mm ATEX I
GS66 30	Female 12 sided sockets 1/2" (12,7 mm) square drive 30 mm ATEX I
GS66 32	Female 12 sided sockets 1/2" (12,7 mm) square drive 32 mm ATEX I
GS67 08	Male hexagonal socket 1/2" (12,7 mm) square drive 8 mm ATEX I
GS67 10	Male hexagonal socket 1/2" (12,7 mm) square drive 10 mm ATEX I
GS67 12	Male hexagonal socket 1/2" (12,7 mm) square drive 12 mm ATEX I
GS67 14	Male hexagonal socket 1/2" (12,7 mm) square drive 14 mm ATEX I
GS67 17	Male hexagonal socket 1/2" (12,7 mm) square drive 17 mm ATEX I
GS71	130 mm Extension piece 1/2" (12,7 mm) square drive ATEX I
GS72S	T-wrench, male square drive
GS69CV	Empty plastic case 350 x 250 x 80 mm

Ratchet spanner gas sockets • 1/2"

Type of network: LV  MV  HV 

GS69T

SET OF 15 TOOLS

NF E 74400



Ref.	Description
GS69T	Set of 15 tools
Contents:	
GS65SP	Reversible ratchet wrench 1/2" (12,7 mm) square drive ATEX II
GS66 08	Female 12 sided sockets 1/2" (12,7 mm) square drive 8 mm ATEX I
GS66 09	Female 12 sided sockets 1/2" (12,7 mm) square drive 9 mm ATEX I
GS66 10	Female 12 sided sockets 1/2" (12,7 mm) square drive 10 mm ATEX I
GS66 11	Female 12 sided sockets 1/2" (12,7 mm) square drive 11 mm ATEX I
GS66 12	Female 12 sided sockets 1/2" (12,7 mm) square drive 12 mm ATEX I
GS66 13	Female 12 sided sockets 1/2" (12,7 mm) square drive 13 mm ATEX I
GS66 14	Female 12 sided sockets 1/2" (12,7 mm) square drive 14 mm ATEX I
GS66 16	Female 12 sided sockets 1/2" (12,7 mm) square drive 16 mm ATEX I
GS66 17	Female 12 sided sockets 1/2" (12,7 mm) square drive 17 mm ATEX I
GS66 18	Female 12 sided sockets 1/2" (12,7 mm) square drive 18 mm ATEX I
GS66 19	Female 12 sided sockets 1/2" (12,7 mm) square drive 19 mm ATEX I
GS66 21	Female 12 sided sockets 1/2" (12,7 mm) square drive 21 mm ATEX I
GS66 22	Female 12 sided sockets 1/2" (12,7 mm) square drive 22 mm ATEX I
GS66 23	Female 12 sided sockets 1/2" (12,7 mm) square drive 23 mm ATEX I
GS71	130 mm Extension piece 1/2" (12,7 mm) square drive ATEX I
GS69CV	Empty plastic case 350 x 250 x 80 mm

GS69S

SET OF 14 TOOLS

NF E 74400



Ref.	Description
GS69S	Set of 14 tools
Contents:	
GS65SP	Reversible ratchet wrench 1/2" (12,7 mm) square drive ATEX II
GS66 08	Female 12 sided sockets 1/2" (12,7 mm) square drive 8 mm ATEX I
GS66 09	Female 12 sided sockets 1/2" (12,7 mm) square drive 9 mm ATEX I
GS66 10	Female 12 sided sockets 1/2" (12,7 mm) square drive 10 mm ATEX I
GS66 11	Female 12 sided sockets 1/2" (12,7 mm) square drive 11 mm ATEX I
GS66 12	Female 12 sided sockets 1/2" (12,7 mm) square drive 12 mm ATEX I
GS66 13	Female 12 sided sockets 1/2" (12,7 mm) square drive 13 mm ATEX I
GS66 14	Female 12 sided sockets 1/2" (12,7 mm) square drive 14 mm ATEX I
GS66 17	Female 12 sided sockets 1/2" (12,7 mm) square drive 17 mm ATEX I
GS66 19	Female 12 sided sockets 1/2" (12,7 mm) square drive 19 mm ATEX I
GS66 21	Female 12 sided sockets 1/2" (12,7 mm) square drive 21 mm ATEX I
GS66 22	Female 12 sided sockets 1/2" (12,7 mm) square drive 22 mm ATEX I
GS66 23	Female 12 sided sockets 1/2" (12,7 mm) square drive 23 mm ATEX I
GS71	130 mm Extension piece 1/2" (12,7 mm) square drive ATEX I
GS69SV	Empty plastic case 350 x 250 x 80 mm





GS7

ADJSUTABLE SPANNER ATEX II

NF E 74400 / ISO 1711-1 / ISO 6787

Use: Specially designed for gasmen.

Technical specifications: Millimetre graduation on the front face of the head designed to preset the spanner.

The rack of the moving jaw is never visible.

ATEX II

Ref.	Max opening (mm)	Length (mm)	Weight (g)
GS7 160	19	160	170
GS7 210	24	210	300
GS7 260	28	260	510
GS7 310	34	310	830
GS7 385	43	385	1500



GS7E

FULLY COATED ADJSUTABLE SPANNER ATEX II

NF E 74400 / ISO 1711-1 / ISO 6787

Use: Specially designed for gasmen.

Technical specifications: The rack of the moving jaw is never visible.

ATEX II

Ref.	Max opening (mm)	Length (mm)	Weight (g)
GS7E-260	28	260	520
GS7E-385	43	385	1520



GS16

SINGLE OPEN ENDED SPANNER ATEX II

NF E 74400 / ISO 691 / ISO 1711-1 / ISO 3318 / ISO 10102

Technical specifications: The thickness of the head is the lowest existing on the market.

Other dimensions available on request.

ATEX II

Ref.	Opening (mm)	Weight (g)
GS16 10	10	40
GS16 11	11	40
GS16 13	13	50
GS16 14	14	70
GS16 17	17	100
GS16 19	19	140
GS16 21	21	200
GS16 22	22	180
GS16 23	23	220
GS16 24	24	210
GS16 27	27	260
GS16 30	30	370
GS16 32	32	370
GS16 36	36	580

Gas tightening spanners

Type of network: LV  MV  HV 

GS120

OPEN ENDED SPANNER ATEX I

NF E 74400 / ISO 691 / ISO 1711-1 / ISO 3318



ATEX I

Ref.	Opening (mm)	Weight (g)
GS120 6x7	06 x 07	34
GS120 8x9	08 x 09	36
GS120 10x11	10 x 11	54
GS120 12x13	12 x 13	76
GS120 14x15	14 x 15	110
GS120 16x17	16 x 17	142
GS120 18x19	18 x 19	186
GS120 20x22	20 x 22	240
GS120 21x23	21 x 23	240
GS120 24x26	24 x 26	360
GS120 24x27	24 x 27	400
GS120 25x28	25 x 28	420
GS120 27x29	27 x 29	500
GS120 30x32	30 x 32	520
GS120 32x36	32 x 36	640
GS120 36x41	36 x 41	880
GS120 41x46	41 x 46	1140
GS120 46x50	46 x 50	1490

Other dimensions available on request.

GS130

COMBINATION SPANNER ATEX I

NF E 74400 / ISO 1711-1 / ISO 3318

Technical specifications: Open end head and ring inclined 15°.

2 heads with the same opening, allowing:

- for open end side : fast tightening,
- for 12 sided ring side: effective locking.

Other dimensions on request.



ATEX I

Ref.	Opening (mm)	Weight (g)
GS130 08	08	45
GS130 09	09	45
GS130 10	10	45
GS130 11	11	45
GS130 12	12	80
GS130 13	13	85
GS130 14	14	105
GS130 15	15	120
GS130 16	16	135
GS130 17	17	140
GS130 18	18	170
GS130 19	19	195
GS130 21	21	265
GS130 22	22	305
GS130 23	23	330
GS130 24	24	350
GS130 26	26	410
GS130 27	27	410
GS130 30	30	570
GS130 32	32	590





GS38

SINGLE HEAD RING SPANNER ATEX II

EN 74400 / ISO 691 / ISO 1711-1 / ISO 3318 / ISO 10104

Use: Provides a secure locking. Its shape facilitates work in the most confined places. Its inclination enables an obstacle to be negotiated, thanks to the thickness of the head.

Technical specifications: Ring offset at 15°.

Other dimensions available on request.

ATEX II

Ref.	Diameter (mm)	Weight (g)
GS38 14	14	70
GS38 17	17	100
GS38 19	19	130
GS38 21	21	180



GS1110

SINGLE OPEN ENDED SPANNER

Technical specifications: Hand tool in aluminium bronze.

Other dimensions available on request.

These products are also available in beryllium copper .

Advice: Do not use this tool in the presence of acetylene.

Ref.	Opening (mm)	Length (mm)	Weight (g)
GS1110 10	10	115	40
GS1110 11	11	125	50
GS1110 13	13	145	70
GS1110 14	14	145	70
GS1110 17	17	170	120
GS1110 19	19	185	155
GS1110 21	21	200	180
GS1110 22	22	200	180
GS1110 23	23	220	250
GS1110 24	24	220	250
GS1110 27	27	240	350
GS1110 30	30	260	420
GS1110 32	32	285	550
GS1110 36	36	310	710

Gas tightening spanners

Type of network: LV  MV  HV 

GS1120

OPEN ENDED SPANNER

Technical specifications: Hand tool in aluminium bronze.

Other dimensions available on request.

These products are also available in beryllium copper.

Advice: Do not use this tool in the presence of acetylene.



Ref.	Opening (mm)	Length (mm)	Weight (g)
GS1120 06x7	06 x 07	100	25
GS1120 07x8	07 x 08	100	30
GS1120 08x9	08 x 09	110	35
GS1120 10x12	10 x 12	135	65
GS1120 11x13	11 x 13	145	85
GS1120 13x15	13 x 15	155	110
GS1120 14x17	14 x 17	170	130
GS1120 16x18	16 x 18	170	130
GS1120 20x22	20 x 22	200	240
GS1120 19x24	19 x 24	220	300
GS1120 21x23	21 x 23	220	300
GS1120 25x28	25 x 28	260	490
GS1120 27x30	27 x 30	260	500
GS1120 30x32	30 x 32	290	650
GS1120 36x41	36 x 41	375	1500
GS1120 46x50	46 x 50	420	1900

GS1150

COMBINATION SPANNER

Technical specifications: Hand tool in aluminium bronze.

Other dimensions available on request.

These products are also available in beryllium copper.

Advice: Do not use this tool in the presence of acetylene.



Ref.	Diameter (mm)	Length (mm)	Weight (g)
GS1150 08	8	135	40
GS1150 09	9	150	50
GS1150 10	10	160	50
GS1150 11	11	175	70
GS1150 12	12	190	90
GS1150 13	13	205	110
GS1150 14	14	205	110
GS1150 15	15	225	140
GS1150 16	16	225	140
GS1150 17	17	245	170
GS1150 18	18	245	170
GS1150 19	19	270	260
GS1150 21	21	295	300
GS1150 22	22	295	300
GS1150 23	23	325	400
GS1150 24	24	325	400
GS1150 26	26	355	550
GS1150 27	27	355	550
GS1150 30	30	390	690
GS1150 32	32	430	1000





GS23

SINGLE HEAD HEX KEY ATEX II

NF E 74400 / ISO 2936

Use: Essential for manoeuvring hex screws in confined areas.

Technical specifications: Other dimensions available on request.

ATEX II

Ref.	6 sided (mm)	L small handle	L long handle	Weight (g)
GS23 03	3	83 mm	123 mm	10
GS23 04	4	84 mm	124 mm	15
GS23 05	5	85 mm	125 mm	20
GS23 06	6	85 mm	125 mm	30
GS23 08	8	86 mm	126 mm	50
GS23 10	10	88 mm	128 mm	80



GS21

SINGLE OFFSET RING SPANNER ATEX II

NF E 74400 / ISO 691 / ISO 1711-1 / ISO 3318 / ISO 10104

Technical specifications: Other dimensions available on request.

ATEX II

Ref.	Diameter (mm)	Weight (g)
GS21 08	8	60
GS21 10	10	80
GS21 12	12	100
GS21 26	26	460
GS21 30	30	530
GS21 32	32	630



GS146

OFFSET RING SPANNER ATEX I

NF E 74400 / ISO 1711-1 / ISO 3318

Use: Convenient to use, with secure locking and release, the offset heads provide easy access to countersunk nuts.

Technical specifications: Other dimensions available on request.

ATEX I

Ref.	Diameter (mm)	Weight (g)
GS146 06x7	06 x 07	60
GS146 08x9	08 x 09	80
GS146 10x11	10 x 11	100
GS146 12x13	12 x 13	140
GS146 14x15	14 x 15	180
GS146 16x17	16 x 17	260
GS146 18x19	18 x 19	320
GS146 20x22	20 x 22	400
GS146 21x23	21 x 23	420
GS146 24x26	24 x 27	560
GS146 25x28	25 x 28	620
GS146 27x29	27 x 29	700
GS146 30x32	30 x 32	760
GS146 36x41	36 x 41	1300
GS146 46x50	46 x 50	2160

Gas tightening spanners

Type of network: LV  MV  HV 

GS1180

HEX KEY

Technical specifications: Hand tool in aluminium bronze.

Other dimensions available on request.

These products are also available in beryllium copper .

Advice: Do not use this tool in the presence of acetylene.



Ref.	Diameter (mm)	Weight (g)
GS1180 03	3	5
GS1180 04	4	11
GS1180 05	5	20
GS1180 06	6	30
GS1180 08	8	70
GS1180 10	10	105

GS1160

OFFSET RING SPANNER

Technical specifications: Hand tool in aluminium bronze.

Other dimensions available on request.

These products are also available in beryllium copper .

Advice: Do not use this tool in the presence of acetylene.



Ref.	Diameter (mm)	Length (mm)	Weight (g)
GS1160 06X7	06 x 07	150	60
GS1160 08X10	08 x 10	170	80
GS1160 09X11	09 x 11	170	100
GS1160 12X13	12 x 13	180	140
GS1160 14X15	14 x 15	220	180
GS1160 16X17	16 x 17	260	260
GS1160 18X19	18 x 19	280	320
GS1160 20X22	20 x 22	330	400
GS1160 21X23	21 x 23	330	420
GS1160 24X27	24 x 27	400	560
GS1160 25X28	25 x 28	400	620
GS1160 30X32	30 x 32	430	760
GS1160 36X41	36 x 41	510	1300
GS1160 46X50	46 x 50	630	2160

GS20

SINGLE HEAD SOCKET WRENCH ATEX II

NF E 74400

Technical specifications: 12 sided head.

Deep socket.

Other dimensions 6 to 32 mm on request.



ATEX II

Ref.	12 sided (mm)	Weight (g)
GS20 14	14	170
GS20 17	17	280
GS20 19	19	370
GS20 23	23	690
GS20 24	24	710





GS1170

HEX SOCKET WRENCH

Technical specifications: Hand tool in aluminium bronze.
These products are available in beryllium copper.
Dimensions 8 to 50 mm on request.

Advice: Do not use this tool in the presence of acetylene.

Ref.	6 sided (mm)	Length (mm)	Weight (g)
GS1170 14	14	250	280
GS1170 17	17	270	320
GS1170 19	19	300	530
GS1170 23	23	340	830
GS1170 24	24	340	830



GS1100

PIPE WRENCH

Technical specifications: Hand tool in aluminium bronze.
«Bronze» tools for explosive atmosphere.

Advice: Do not use this tool in the presence of acetylene.

Ref.	Capacity (mm)	Length (mm)	Weight (kg)
GS1100 0200	3 to 19	215	0,60
GS1100 0250	3 to 25	280	1
GS1100 0360	6 to 38	350	1,50
GS1100 0460	6 to 50	420	2,20
GS1100 0610	6 to 63	565	3,80
GS1100 0915	12 to 90	770	7,20
GS1100 1220	25 to 130	1100	10,50



GS1070

COUPLING WRENCH

Technical specifications: Hand tool in aluminium bronze.
These products are also available in beryllium copper.

Advice: Do not use this tool in the presence of acetylene.

Ref.	Length (mm)	Weight (g)
GS1070	455	1100

Gas tightening spanners

Type of network: LV  MV  HV 

GS1075

HOOK WRENCH

Technical specifications: Hand tool in aluminium bronze.

Advice: Do not use this tool in the presence of acetylene.



Ref.	Capacity	Length (mm)	Weight (g)
GS1075 012	12/14 mm	110	30
GS1075 016	16/20 mm	110	30
GS1075 025	25/28 mm	135	50
GS1075 030	30/32 mm	135	50
GS1075 034	34/36 mm	170	100
GS1075 040	40/42 mm	170	100
GS1075 045	45/50 mm	200	200
GS1075 052	52/55 mm	200	200
GS1075 058	58/62 mm	245	270
GS1075 068	68/75 mm	245	270
GS1075 080	80/90 mm	290	410
GS1075 095	95/100 mm	290	410
GS1075 110	110/115 mm	340	730
GS1075 120	120/130 mm	340	730
GS1075 135	135/145 mm	390	1200
GS1075 155	155/165 mm	390	1200

GS95

MULTI-HEAD BUNG WRENCH

NF E 74400

Use: For 20 different types of bung.

Technical specifications: Hand tool in aluminium bronze.

These products also exist in beryllium copper .

Advice: Do not use this tool in the presence of acetylene.



Ref.	Length (mm)	Weight (kg)
GS95	385	1.300





GS210

SLOTTED SCREWDRIVER ATEX II

NF E 74400 / ISO 2380-1



Ref.	Blade dimensions	Weight (g)
GS210 03X100	03 x 100 mm	30
GS210 04X120	04 x 120 mm	52
GS210 5,5X150	5,5 x 150 mm	72
GS210 6,5X150	6,5 x 150 mm	92
GS210 08X150	08 x 150 mm	142
GS210 10X150	10 x 150 mm	216
GS210 12X200	12 x 200 mm	318



GS1250

SLOTTED SCREWDRIVER

Technical specifications: Hand tool in beryllium bronze.

These products are also available in beryllium copper .

Advice: Do not use this tool in the presence of acetylene.

Ref.	Blade width (mm)	Blade length (mm)	Length (mm)	Weight (g)
GS1250 03x60	03	60	150	45
GS1250 04x70	04	70	160	55
GS1250 05x80	05	80	170	60
GS1250 08x80	08	80	180	70
GS1250 10x200	10	200	320	230
GS1250 10x300	10	300	420	300
GS1250 11x150	11	150	260	140

Gas screwdrivers

Type of network: LV  MV  HV 

GS205

PHILLIPS SCREWDRIVER ATEX II

NF E 74400 / ISO 8764-1



Ref.	Blade dimensions	Weight (g)
GS205 04X75	n° 0 - 4 x 75 mm	50
GS205 5,5X100	n° 1 - 5,5 x 100 mm	60
GS205 06X100	n° 2 - 6 x 100 mm	82
GS205 08X150	n° 3 - 8 x 150 mm	146
GS205 10X200	n° 4 - 10 x 200 mm	256

GS1260

PHILLIPS SCREWDRIVER

Technical specifications: Hand tool in aluminium bronze.

These products are also available in beryllium copper .

Advice: Do not use this tool in the presence of acetylene.



Ref.	Blade length (mm)	Length (mm)	Weight (g)
GS1260 N1	80	170	55
GS1260 N2	100	200	75
GS1260 N3	150	260	140
GS1260 N4	200	320	230





GS160

METAL SAW FRAME FOR 300 MM BLADES ATEX I

NF E 74400

Technical specifications: Excellent grip, even with handling gloves.

Delivered with steel blade.

ATEX I

Ref.	Length (mm)	Weight (kg)
GS160	400	1,04
Spare part(s):		
L10 08D	Hacksaw spare blade 300 mm 8 teeth/cm	
L10 12D	Hacksaw spare blade 300 mm 12 teeth/cm	
GS172	Spare saw blade	



GS172

SAW BLADE

Technical specifications: Hand tool in beryllium bronze.

Blade designed to fit blue gas saw ref. GS160.

This product is also available in beryllium copper.

Advice: Do not use this tool in the presence of acetylene.

Ref.	Length (mm)
GS172	310



GS1050

KNIFE

Technical specifications: Beryllium copper hand tool.

Blade length : 150 mm.

Wooden handle.

Advice: Do not use this tool in the presence of acetylene.

Ref.	Length (mm)	Weight (g)
GS1050	260	80

Non sparking tools



GS153

PAINT SCRAPER

Technical specifications: Silicon nickel cupro bronze hand tool.

This product is also available in beryllium copper.

Advice: Do not use this tool in the presence of acetylene.

Ref.	Description	Dimensions (mm)	Weight (g)
GS153F	Paint scraper with flexible blade	115 x 90 x 220	115
GS153R	Paint scraper with stiff blade	115 x 90 x 220	165

Non sparking tools

Type of network: LV  MV  HV 

GS155

SCRAPER WITHOUT HANDLE

Technical specifications: Hand tool in aluminium bronze (delivered without handle).

These products are also available in beryllium copper.

Advice: Do not use this tool in the presence of acetylene.



Ref.	Ø opening (mm)	Blade	Length (mm)	Weight (g)
GS155 125	25	125 x 65 mm	220	540
GS155 150	27	150 x 65 mm	220	900

GS166

PINCHING BAR

Technical specifications: Hand tool in bronze aluminium Ø 22 mm.

Bronze tools for explosive atmosphere.

This product is also available in beryllium copper.

Advice: Do not use this tool in the presence of acetylene.



Ref.	Length (mm)	Weight (kg)
GS166	760	2,33

GS1060

WRECKING BAR

Technical specifications: Hand tool in aluminium bronze, hexagonal shape, Ø 16 mm.

Other dimensions available on request.

Advice: Do not use this tool in the presence of acetylene.



Ref.	Length (mm)	Weight (g)
GS1060	460	920

GS86B

BRUSH WITH HANDLE

Technical specifications: Hand tool in phosphor bronze.

Bristle size: 30 mm.

This product is also available in beryllium copper.

Advice: Do not use this tool in the presence of acetylene.



Ref.	Dimensions (mm)	Weight (g)
GS86B	260 x 30	175





GS1190

SLUGGING AND FORK WRENCH

Technical specifications: Hand tool in aluminium bronze.
These products are also available in beryllium copper.

Advice: Do not use this tool in the presence of acetylene.

Ref.	Version
GS1190	Dimensions 27 to 100 mm on request



GS1200

SLUGGING BOX WRENCH

Technical specifications: Hand tool in aluminium bronze.
These products are also available in beryllium copper.

Advice: Do not use this tool in the presence of acetylene.

Ref.	Version
GS1200	Dimensions 27 to 95 mm on request



GS88

CHISEL

Technical specifications: Hand tool in aluminium bronze.
These products are also available in beryllium copper.

Advice: Do not use this tool in the presence of acetylene.

Ref.	Dimensions (mm)	Weight (g)
GS88 17	17 x 230	380
GS88 19	22 x 200	400
GS88 20	20 x 225	475
GS88 21	22 x 305	655

Non sparking striking tools

Type of network: LV  MV  HV 

GS80

CAPE CHISEL

Technical specifications: Hand tool in aluminium bronze.

These products are also available in beryllium copper.

Advice: Do not use this tool in the presence of acetylene.



Ref.	Dimensions (mm)	Weight (g)
GS80 205	205 x 13	400
GS80 235	235 x 17	610

GS164

PEAK SCRAPER

Technical specifications: Hand tool in aluminium bronze.

This product is also available in beryllium copper.

Advice: Do not use this tool in the presence of acetylene.



Ref.	Blade	Overall length (mm)	Weight (g)
GS164	75 mm	450	1100

GS152

SCRAPER WITH ANGLED BLADE

Technical specifications: Hand tool in aluminium bronze.

This product is also available in beryllium copper.

Advice: Do not use this tool in the presence of acetylene.



Ref.	Width (mm)	Overall length (mm)	Weight (g)
GS152	50	300	570





GS158 SQUARE MALLET

Technical specifications: Hand tool in aluminium bronze.
These products are also available in beryllium copper.
Advice: Do not use this tool in the presence of acetylene.

Ref.	Head section	Overall length (mm)	Weight without handle (kg)	Weight with handle (kg)
GS158 1	36 mm	355	0,8	1,04
GS158 3	40 mm	355	1,02	1,18
GS158 4	42 mm	380	1,25	1,53
GS158 5	44 mm	380	1,36	1,68



GS157 4 SLEDGED HAMMER

Technical specifications: Hand tool in aluminium bronze.
Fibre handle.
These products are also available in beryllium copper.
Advice: Do not use this tool in the presence of acetylene.

Ref.	Head section	Overall length (mm)	Weight without handle (kg)	Weight with handle (kg)
GS157 4	60 mm	840	4.540	5.030



GS3100240 SHOVEL WITH HANDLE

Technical specifications: Made in beryllium copper.

Ref.	Dimensions shovel alone (mm)	Length (m)	Weight (kg)
GS3100240	240 x 290	1,35	1.500



GS3900470 PICKAXE

Technical specifications: Made in beryllium copper.

Ref.	Length (m)	Weight (kg)
GS3900470	1,05	2.500

Devices of electrostatic charges flow

Type of network: LV  MV  HV 

TD09

ELECTROSTATIC EARTHING DEVICE



Ref.	Description	Dimensions (mm)	Weight (g)
TD09	Electrostatic earthing device	520 x 130 x 35	860
Contents:			
TD09H	Waterproof soft case		
TD09P	Earthing auger 400 mm with ring		
TD09T	Cotton braid 2,50 m		

TS38A - TS38B

BYPASS DEVICE FOR GAS SOIL PIPES

Technical specifications: Device composed of :

- Safety shunt with two insulated clamps in anti-spark alloy,
- Capacity 18 to 38 mm,
- Crimp terminal for cable diameter up to 8,2 mm with insulated cover,
- Clamps linked by a 35 mm² copper braid (extra flexible), transparent plastic coated.



Ref.	Braid length (m)	Case dimensions (mm)	Weight (kg)
TS38A	0,7	340 x 260 x 85	1,4
TS38B	2	340 x 260 x 85	1,9

TS38

CLAMP FOR BY-PASS DEVICE FOR GAS SOIL PIPES

Technical specifications: Insulated clamp, spring activated, capacity : 18 to 38 mm
Crimp terminal for cable diameter up to 8,2 mm, with insulated cover



Ref.	Description
TS38	Clamp for by-pass device for gas soil pipes



GS400

SET OF 35 TOOLS



Ref.	Description
GS400	Set of 35 tools
Contents:	
GS80 240	Cape chisel 240 x 17 mm
GS156 4	Bronze hammer 600 g with handle, 31 mm head
GS160	Metal saw frame for 300 mm blades ATEX I
GS38 14	Single head ring spanner 14 mm ATEX II
GS38 17	Single head ring spanner 17 mm ATEX II
GS38 19	Single head ring spanner 19 mm ATEX II
GS38 21	Single head ring spanner 21 mm ATEX II
GS20 14	Single head socket wrench 14 mm ATEX II
GS20 17	Single head socket wrench 17 mm ATEX II
GS20 19	Single head socket wrench 19 mm ATEX II
GS20 23	Single head socket wrench 23 mm ATEX II
GS20 24	Single head socket wrench 24 mm ATEX II
GS65	Reversible ratchet wrench 1/2" (12,7 mm) square drive
GS66 12	Female 12 sided sockets 1/2" (12,7 mm) square drive 12 mm ATEX I
GS66 13	Female 12 sided sockets 1/2" (12,7 mm) square drive 13 mm ATEX I
GS210 6,5X150	Slotted screwdriver 6,5 x 150 mm ATEX II
GS16 19	Single open ended spanner 19 mm ATEX II
GS16 21	Single open ended spanner 21 mm ATEX II
GS16 22	Single open ended spanner 22 mm ATEX II
GS16 23	Single open ended spanner 23 mm ATEX II
GS21 08	Single offset ring spanner 8 mm ATEX II
GS21 10	Single offset ring spanner 10 mm ATEX II
GS21 12	Single offset ring spanner 12 mm ATEX II
GS21 26	Single offset ring spanner 26 mm ATEX II
GS21 30	Single offset ring spanner 30 mm ATEX II
GS21 32	Single offset ring spanner 32 mm ATEX II
GS7 260	Adjsutable spanner 260 mm ATEX II
GS7 385	Adjsutable spanner 385 mm ATEX II
GS150 350	Stillson pipe wrench n°14 - 350 mm ATEX II
GS5 195	Diagonal cutting pliers 195 mm ATEX II
GS6 210	End cutting pliers 210 mm ATEX II
GS4 210	Universal pliers 210 mm ATEX II
GS27 250	Double rack slip-joint pliers 250 mm ATEX II
GS63 230	Gas pliers 230 mm ATEX II
GS62 275	Profiling shears 273 mm ATEX II
ART162	Plastic toolbox 515 x 287 x 275 mm

GS450

SET OF 17 TOOLS

Use: Kit specially adapted for intervention vehicles and for transport vehicles of dangerous products.

Kit used by firemen, prevention services, disaster and emergency services, safety services, gas service, etc.



Ref.	Description
GS450	Set of 17 tools
Contents:	
GS210 08X150	Slotted screwdriver 8 x 150 mm ATEX II
GS205 08X150	Phillips screwdriver n° 3 - 8 x 150 mm ATEX II
GS27 250	Double rack slip-joint pliers 250 mm ATEX II
GS7 210	Adjustable spanner 210 mm ATEX II
GS7 310	Adjustable spanner 310 mm ATEX II
GS150CSP	Fully coated offset pipe wrench
GS10 170	Half-round long nose telephone pliers ATEX II
GS63 230	Gas pliers 230 mm ATEX II
GS153R	Paint scraper with stiff blade
GS152	Scraper with angled blade
GS86B	Brush with handle
GS164	Peak scraper 450 mm
GS1060 460	Bronze wrecking bar 450 mm
GS1070	Coupling wrench
GS1050	Knife in beryllium copper 260 mm
GS62 275	Profiling shears 273 mm ATEX II
B102P	Polypropylene tool box 457 x 257 x 255 mm





T28

"ECO" TRIANGULAR TENT

Use: Working protective tent

Technical specifications: White PVC canvas with aluminum frame.

Ref.	Dimensions (m)	Weight (kg)
T28	2 x 1,45 x 1,40	12



T31

CANADIAN TRIANGULAR TENT

Use: Working protective tent

Technical specifications: Fiberglass frame.

Canvas : translucent white polyester 350 g/m², yellow PVC base 670 g/m².

Fire classification: M2.

Delivered with carrying bag, tent poles, retaining ropes.

Ref.	Description	Dimensions (m)
T31PM	Canadian triangular tent - small version	1,80 x 1,70 x 1,65
T31GM	Canadian triangular tent - big version	2,50 x 2,00 x 1,90



T34

ADJUSTABLE TRIANGULAR TENT

Use: Working protective tent

Technical specifications: Red and white PVC canvas with zip, steel frame.

Adjustable model in width.

Ref.	Dimensions (m)	Weight (kg)
T34	L: 2,55 x w: from 0 to 2,40	32

Tents, umbrellas

Type of network: LV  MV  HV 

T270

WELDING TENT

Use: For staff and equipment protection during trench works.

+ Tent mounted in few seconds only.
All the elements are part of a single piece (frame and cloth), the tent is always ready to use.
None of the elements are removable.

Technical specifications: Canvas in white polyester.
Option : Customisation available on request (color and/or logo).



Ref.	Description	Assembled dimensions (m)	Folded dimensions (m)	Weight (kg)
T270PM	Welding tent - small version	1,80 x 1,80 x 1,95	1,80 x 0,25 x 0,25	13
T270GM	Welding tent - big version	2,50 x 2,50 x 2	1,80 x 0,35 x 0,35	20

P14

WELDING UMBRELLA

Use: Triangular-shape umbrella for all weld works.

Technical specifications: Each angle is equipped with an attachment system which allows the fastening of the umbrella with rope to avoid it from rolling over because of the wind.
The extended covers avoid ribs to go out of their site.



Ref.	Description	Dimensions (mm)	Weight (kg)
P14	Welding umbrella	170 x 190 mm	6

Accessories:

P14P	Cast iron pedestal with steel feet (allows ballasting for stability)
P14S	Protective bag in polyester PVD double-side coated, fireproof M1

Spare part(s):

P14PS	Spare stake for umbrella Ø 22 mm
--------------	----------------------------------





MISCELLANEOUS TOOLS



MISCELLANEOUS TOOLS

Cabinet keys	580
Drills and drill bits	583
Bit braces and gimlets	584
Soldering irons, heating guns and blowtorches.	585
Digging tools	586
Tools for laboratory, electronics, telephony, wrapping	588
Marking tools	589
Knives, scissors and sharpening steel	590
Stripping tools	591
Tensioning tools	593
Pliers	595
Bruhes and paintbrushes	595
Miscellaneous wrenches.	596
Hammers	598
Anchor and striking tools	600
Distance measuring tool	601
Measures	602
Spirit levels	604
Pruning equipment	604
Hacksaws, frames and blades	605
Tools for LV electricians.	605
Binoculars	605





C209

CABINET KEY

Use: To open easily electrical cabinet locks even in confined spaces.

+ Foldable arms allowing to use the key in confined spaces

Technical specifications: Key to open cabinets, 4 dimensions :

- 1 male square of 6 mm- 1 rectangle of 4,5 x 9 mm,
- 1 female triangle of 11 mm
- 1 female triangle of 14 mm

Zinc plated

2 arms 125 mm long and 175 mm long.

Ref.	Weight (g)
C209	210



C210

CABINET KEY

Use: To open easily electrical cabinet locks even in confined spaces.

+ Foldable arms allowing to use the key in confined spaces.

Technical specifications: Key to open cabinets, 4 dimensions :

- 1 rectangle of 4,5 x 9 mm,
- 1 female triangle of 11 mm
- 1 square with conic ended from 5 to 7 mm
- 1 hex male 5 mm

2 arms 125 mm long and 175 mm long.

Ref.	Weight (g)
C210	210



C213

CABINET KEY

Use: To open easily electrical cabinet locks even in confined spaces.

+ Foldable arms allowing to use the key in confined spaces.

Technical specifications: Key to open cabinets, 4 dimensions :

- 1 female square of 14 mm
- 1 rectangle of 4,5 x 9 mm,
- 1 female triangle of 11 mm
- 1 square with conical end 5 to 7 mm on 2 cm long

Zinc plated

2 arms 125 mm long and 175 mm long.

Ref.	Weight (g)
C213	210

Cabinet keys

Type of network: LV  MV  HV 

C214

CABINET KEY

Use: To open easily electrical cabinet locks even in confined spaces.

 **Foldable arms allowing to use the key in confined spaces.**

Technical specifications: Key to open cabinets, 4 dimensions :

- 1 male square with conical end of 5 to 7 mm on 2 cm long
- 1 rectangle of 4,5 x 9 mm,
- 1 female triangle of 11 mm
- 1 female triangle of 14 mm

Zinc plated

2 arms 125 mm long and 175 mm long.



Ref.	Weight (g)
C214	210

TC74

INSULATING SPANNER

Use: Opening gas cabinets S100, 200 and 300.

Valve manoeuvres (valve with 14mm square).

Technical specifications: 14,5 mm square and 11 mm flat.

Manufactured in plastic.



Ref.	Weight (g)
TC74	30

TC58

INSULATING SPANNER

Use: Opening of gas cases S100, 200 and 300

Taps manoeuvre (taps with 14mm square)

Technical specifications: 14,5 mm square and 10 x 4 mm flat



Ref.	Weight (g)
TC58	30





C206

UNIVERSAL SWITCH CABINET KEY

Use: For all common switch cabinets.

+ Small size, lightweight.

Technical specifications: Cabinet Key with adapter for 1/4" bits, with square key for radiator bleed valves and reversible bit for :

- slot-head screws 1 x 7 mm
- Phillips screws PH2
- Square bits: 5, 6 and 7/8 mm
- Triangle bit : 9 mm
- Double bit : 3/5 mm

Ref.	Dimensions (mm)	Weight (g)
C206	70 x 60 x 20	80



CPM D H M T

FOLDING KEY CPM

Use: Folding key CPM are specially made to adapt to your composition.

21 different codes which can be combined by 2, 3, 4 or 5 on the same key.

The disposition of elements is determined by our cares according to number and components selected.

All combinations are possible such as : CPM-B-J-T-M, CPM-E-H-N-T and CPM-B-G-H-M-T

Technical specifications: Made in bronze.

Elements	Section	Description	Code	Use
FEMALE KEY	Square	6 x 6	A	For square lock 6 mm male
		8 x 8	B	For square lock 8 mm male
		14 x 14	C	Opening and closing of polyvalent cases
		15 x 15	D	
		16 x 16	E	
	Triangular	11	H	Access to the technical area of phone box
		13	J	For electrical boxes and cabinets
		15	L	Old openings
		18	P	
		8	K	
5	G	Opening padlock		
7	I	For fixing screw to triangular head (TTR)		
1/2 moon	1/2 moon	1/2 moon \varnothing 5	X	Opening padlock
MALE KEY	Square	7 x 7	T	Opening technical sheaths and old openings for female lock from 6 to 8 mm
	Right-angled	4.5 x 9 Long	M	Opening door of sheaths S 300
		4.5 x 9 Short	N	
	Teat	Boob \varnothing 1.8 setting over with guide \varnothing 10	R	Opening building electrical cabinets
	Cross	Cross 1.2	S	Opening Belgian electrical boxes and cabinets
		Double teat \varnothing 2.3	Y	Gas riser apparatus
	Double bar	Bit 2.2	V	For female double bit safety lock 3 mm
Bit 2.9		W		

Ref.	Description
CPM D H M T	Folding key CPM

Drills and drill bits • Drills

Type of network: LV  MV  HV 

AOP400N2

IMPACT DRILL

Technical specifications: Standard equipment : side handle and depth gauge, with auto tightening chuck 13 mm.

- Capacity :
 - Max. drilling capacity in steel 13 mm
 - Max. drilling capacity in masonry 20 mm
 - Max.drilling capacity in wood 40 mm
- No-load speed 0 - 3000 r.p.m.
- Max. impact rate 0 - 48000 p.m.
- Input Power : 1000 W
- Weight: 1,5 kg
- Delivered in case with a set of 3 masonry drills (Ø 5, 6 and 8 mm), a side handle, a depth gauge and user's instructions.



Ref.	Dimensions (mm)	Weight (kg)
AOP400N2	398 x 294 x 108	2,1

AOP790N3

CORDLESS DRILL

- ➕ Variable speed for gentle start and full control at all times
- Electronic brake prevents overtightening of screws and enables quicker, more efficient working
- 20-position VariTorque for precise screw driving plus full lock-up position for drilling
- 10 mm double-sleeve keyless chuck for quick, easy accessory change
- Soft grip and ergonomic handle size for optimum comfort and ergonomics
- Convenient reversing action for driving or removing screws and bolts
- Ergonomic design provides optimal balance for comfortable use

Technical specifications: Voltage : 14,4 V

Battery capacity : 1,2 Ah

No-load speed : 0-600 r.p.m.

Max. torque hard joint : 30 Nm

Double-sleeve keyless chuck : 10 mm

Clutch setting : 19 + 1

Drilling capacity in wood : 24 mm

Drilling capacity in steel : 6 mm

Capacity screws : 8 mm

Charging time : 5 h

Product delivered with 2 batteries, 1 charger, a «screw assist», a magnetic bit holder and 2 screw bits (Phillips and slotted).



Ref.	Weight (kg)
AOP790N2	1,6

Drill bits

C255

SET OF 25 METAL DRILLS - Ø 1 TO 13 MM

Technical specifications: Metallic box with 25 drills HSS model F 40

Ø 1 to 13 mm by 0,5 mm



Ref.	Dimensions (mm)	Weight (kg)
C255	195 x 95 x 50	1,37





BC.B18V

IMPACT DRIVER

- ⊕ Phosphorescent bumper - high visibility
- Built-in LED light with afterglow illuminates the work area
- Ergonomic rubberised grip with non-slip dimples
- Belt clip.

Technical specifications: Square drive : 1/2"

No Load Speed (variable speed) : 0 - 2,100 RPM

Impacts Per Minute (variable speed) : 0 - 3,200 IPM

Maximum Torque : 170 ft.lbs./230 N•m

Battery : 18V Lithium-Ion

Battery charge time : 30 min

Delivered in case with a battery charger, 2 batteries, a socket set (size 10/13/16/19) and 6 sided end fitting 6 mm.

Ref.	Dimensions (mm)	Weight (kg)
BC.B18V	234 x 165 x 79	1,6
Spare part(s):		
DOUILLE.CHOCS.10	Impact socket 10 mm	
DOUILLE.CHOCS.13	Impact socket 13 mm	
DOUILLE.CHOCS.16	Impact socket 16 mm	
DOUILLE.CHOCS.19	Impact socket 19 mm	
PORTE.EMBOUT	Hexagonal impact socket adapter	
EMBOUT.CHOCS.6	Hexagonal impact socket 6 mm (adapter is needed)	
JEU.DOUILLE.CHOC	Set of impact sockets (T10, T13, T16, T19, hex 6 mm)	

Bit brace and gimlet



V10

RATCHET BIT BRACE

Technical specifications: Ratchet bit brace for woodwork flat drill bit, 12 mm rod steel.

2-jaw chuck.

Capacity : 13 mm (with ball bearing).

Ref.	Weight (g)
V10	1070



V50

STEEL GIMLET, ROLLED RINGS

Ref.	Diameter (mm)	Overall length (mm)	Weight (g)
V50 03	3	115	10
V50 04	4	135	15
V50 05	5	145	20

Soldering irons, heating gun and blowtorch

Type of network: LV  MV  HV 

P154

HEATING GUN

Use: Ideal tool for :

- Heat zinc without breaking
- Shape sleeves and PVC tubes
- Heat shrinkable tubing
- Unstick plastic tiles and adhesives
- Easily install flexible flooring
- Dry plasterboard joint tape
- Strip and dry paint and varnish
- Unfreeze pipework and locks
- Unjam nuts and screws

 **Automatic ignition, Stable, Works in any position**

Technical specifications: Set delivered under plastic blister including :

- 1 complete set gun
- 1 gas cartridge
- 1 flat nozzle for burning off, unsticking and shrinking of tubes
- 1 nozzle equipped with a reflector for soldering copper tubes with tin
- Instructions for use
- Spare butane/propane gas cartridges

Ring hook.

Type of flame : hidden.

Can be used in temperatures up to - 8°C.

2 hours running time.

Varying power using adjustable flow button.

Adjustable temperature : 400 to 750°C.




Ref.	Dimensions (mm)	Weight (g)
P154	304 x 157 x 95	910

L21

MULTIFUNCTION BLOWTORCH

EN 521

Use: Ideal device to weld, braze, burn off, unfreeze pipe.

 **Multi purpose.**
High autonomy (> 1h15).
Ergonomic handle for an excellent handling.
Operate with cartridges type 200.
Metal cover.
2 years warranty.

Technical specifications: Delivered with handle, fitted out of adjustment knurl, automatic ignition and locking button.

Delivered in box without cartridge.

Gas cartridge : ref. R18 and R18S.



Ref.	Dimensions (mm)	Weight (g)
L21	235 x 125 x 135	500

R18N

GAS CARTRIDGE

EN 417

Technical specifications: Butane gas cartridge 360 ml, type 200.

For multifunctional blowlamps.

Can be used in temperatures starting from 0°C (32°F).



Ref.	Weight (g)
R18N	190





F30

SOLDERING IRON

⊕ Very compact and lightweight.
Energy efficient.

Technical specifications: Very quick heating : less than 1 minute 30 seconds.
Excellent grip for better handling, soft touch handle sleeve.
Integrated flange used as a stand.
Interchangeable iron bit allowing 10 000 solders.
Optimised power output.
Stabilised working temperature.

Ref.	Heating power	power consumption	Dimensions of iron bit (mm)
F30 45 W	45 W	23 W	2,5 x 1
F30 55 W	55 W	23 W	3,8 x 1,5

Digging tools



P140

PICKAXE

Technical specifications: Steel pickaxe with round hole, delivered without handle.

Ref.	Description	Length (cm)	Weight (kg)
P140	Pickaxe without handle	50	2
Accessories:			
M65 1,00	Wooden handle 1 m		



P30

ROUND SHOVEL

Technical specifications: Round shovel delivered without handle.

Ref.	Description	Width (cm)	Weight (g)
P30	Round shovel without handle	27	950
Accessories:			
M60 1,10	Wooden handle 1,10 m		
M60R	Red handle 1,10 m		

Digging tools

Type of network: LV  MV  HV 

P25

TRENCH DIGGING SHOVEL

Use: For easy digging.

Technical specifications: Treated steel shovel, delivered without handle.



Ref.	Width (cm)	Width of the bit (cm)	Length (cm)	Depth	Weight (kg)
P25	19	17	24	25 mm	1
Accessories:					
M25 2,50	Hardwood cylindrical handle 2,50 m				
M25 3,00	Hardwood cylindrical handle 3 m				

P40

SQUARE SHOVEL

Technical specifications: Treated steel shovel, delivered without handle.
With a square shape for better digging work.



Ref.	Width (cm)	Length (cm)	Depth	Weight (kg)
P40	16	27,5	75 mm	1,2
Accessories:				
M25 2,50	Hardwood cylindrical handle 2,50 m			
M25 3,00	Hardwood cylindrical handle 3 m			

P41

HALF ROUND SHOVEL

Use: For large vertical digging.

Technical specifications: Treated steel half round shovel, delivered without handle.



Ref.	Width (cm)	Length (cm)	Weight (kg)
P41	22	28	2,25
Accessories:			
M25 2,50	Hardwood cylindrical handle 2,50 m		
M25 3,00	Hardwood cylindrical handle 3 m		





ML108-ML112

STRAIGHT NEEDLE NOSED PLIERS

Technical specifications: Stainless steel, antimagnetic, PVC-coated handles.

Ref.	Description	Length (mm)	Weight (g)
ML108	Straight needle nosed pliers	155	25
ML112	40° Bent needle nosed pliers	150	25



ML56

INSULATED SCRAPING PLIERS FOR VARNISHED WIRES

EN 60900 / IEC 60900 / ISO 8979

Use: For stripping lacquered or varnished 0,1 to 0,8 mm diameter wires.

Ref.	Length (mm)	Weight (g)
ML56	135	36

Overall length tolerance : ± 5 mm of the nominal value.

Telecom wrapping tools



D29

SPIRAL UNWRAPPER 0,6 - 1 MM

Use: Unwrapping of connected cables to the left only.

Ref.	Wires	Length (mm)	Weight (g)
D29	0,6 to 1 mm	133	10

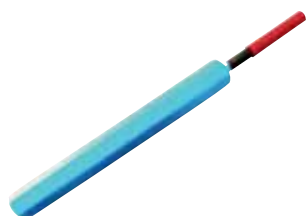


E52

MANUAL REELER

Use: Reeling to the left or to the right.

Ref.	Wires	Length (mm)	Weight (g)
E52	0,4 to 0,6 mm, 26 to 22 AWG	150	15



E64

UNREELER WITH TELESCOPIC NOZZLE

Use: Unreeling of connected cable to the left or to the right.

Ref.	Wires	Length (mm)	Weight (g)
E64	0,4 to 0,6 mm, 26 to 22 AWG	133	13

Marking tools

Type of network: LV  MV  HV 

P109

LEAD PLIERS WITHOUT TEXT BLOC

Technical specifications: Pliers made from black steel for 10 mm leads.
Engraving block possible on one or two sides, until 10 text blocks. Please contact us.
The lead pliers (ref. P109) are delivered without accessories.



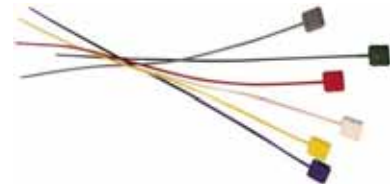
Ref.	Description	Length (cm)	Weight (g)
P109	Lead pliers without text bloc	15	190
Accessories:			
P109BG	Single block engraved with text		
P109BV	Single block without engraving		
P109V	Bag of 10 spare screws		
P109P	Lead Ø 10 mm (in bag of 1000 pieces)		
P109PF	Lead Ø 8 mm on 200 mm rod (in bag of 1000 pieces)		
P109F 1000	Wire seals n° 1 Ø 1,11 mm (on reel)		

P109A

PLASTIC CABLE TIES

Use: The seal is done with the same pliers used for lead (Ref. P109).

Technical specifications: - Head: 10 mm.
- Length 160 mm (240 mm on demand, by 100 pieces).
- Wire Ø 1,2 mm.
Bag of 300 pieces.



Ref.	Colour
P109ABE	Blue
P109AR	Red
P109AB	White
P109AJ	Yellow
P109AN	Black
P109AG	Grey

E62

SOFT CASE

Use: Soft case for lead pliers.

Technical specifications: Cloth case with Velcro closure, with belt loop on the back.



Ref.	Dimensions (mm)	Weight (g)
E62	270 x 80 x 70	62





C170E

ELECTRICIAN'S SCISSORS WITH STRIPPING NOTCHES

Use: Designed for telecom and electrical applications and heavy-duty use.

⊕ **Lightness - sharpness - professional product.**

Technical specifications: Sharp blades with stripping notches.
Tempered steel, nickel-plated finish resists corrosion.
Delivered in protective case.

Ref.	Length (mm)	Weight (g)
C170	125	60
C170E	125	70

Accessories:

ETC170	Protective leather case 145 x 77 mm
--------	-------------------------------------



C365-C370-C375-C371

ELECTRICIAN POCKET KNIVES

Use: Lightness, ergonomic, stainless steel blade to maintain durability and sharpness.

⊕ **Lightness, ergonomic, stainless steel blade to maintain durability and sharpness.**
Made in France.

Ref.	Description	Version	Blade length (mm)	Overall length (mm)	Weight (g)
C365	Electrician knife, bubinga handle	1 straight blade	80	180	65
C370	Electrician knife, varnished wooden handle	1 curved blade	75	175	70
C371	Electrician knife, black ABS handle	1 straight blade	80	180	60
C375	Electrician knife, bubinga handle	1 straight blade + 1 curved blade	straight blade : 80, curved blade : 75	180	100



A02

SHARPENING STEEL

Use: Used for the sharpening of any blade.

Technical specifications: This sharpening stone comes complete with a protective plastic handle.

Ref.	Length (cm)	Length (mm)	Weight (g)
A02	25	250	220

Knives, scissors and sharpening steel

Type of network: LV  MV  HV 

C362B

PROFESSIONAL BLADE CUTTER

Use: Ideal for heavy-duty line work.

Technical specifications: Bi-material body, metallic reinforcements around the blade , tightening screw, easy blade removal.

Breakable blade 25 mm.



Ref.	Dimensions (mm)	Weight (g)
C362B	200 x 50 x 30	280
Spare part(s):		
C362LB	10 spare breakable blades 25 mm	

Stripping tools

P97

SELF ADJUSTING CUT AND STRIP TOOL

Use: The tool can be operated with one hand and ensures quality stripping and cutting of the cable.

Technical specifications: Wire cutting notch.

Stripping length : 4 to 18 mm

Stripping capacity : 0,02 mm² to 10 mm².



Ref.	Length (mm)	Dimensions (mm)	Weight (g)
P97	200	250 x 115 x 30	150


C366 - C366 A

JOKARI STRIPPING KNIFE

Use: Stripping tool for regular cables.

Capacity Ø 8 to 28 mm.

Circular and longitudinal cut.

 Each tool is delivered with a spare blade in the handle.
The blade is adjustable to the insulation thickness.

Technical specifications: - Rotating blade for circular and longitudinal cut.

- Adjustable cutting depth with a red knurled nut.

- The cable to be stripped is positioned by a guiding «V» slot with return spring.

- Handle made of PA (Polyamide).

- Special hardened steel blade.



Ref.	Description	Overall length (mm)	Weight (g)
C366	JOKARI stripping knife n°28	170	75
C366 A	JOKARI stripping knife n°27	130	70



**003****ROUND WIRE STRIPPER**

Use: For stripping of outer insulation from cables. Spring loaded gripping arm, blade has adjustable cutting depth. Blade can be turned by pushing the side knob, to cut along the length of cable.

Technical specifications: Spring loaded gripping arm, blade has adjustable cutting depth. Blade can be turned by pushing the side knob, to cut along the length of cable.

Ref.	Length (mm)	Weight (g)
003	135	140

**004****STRIPPING TOOL «KABIFIX»**

Technical specifications: PA (polyamide) stripping tool with rotating blade for all type of cables up to 25mm.

Ref.	Dimensions (mm)	Weight (g)
004	100 x 40 x 30	100

Spare part(s):

004C	Spare blade
-------------	-------------

**C368****JACKET REMOVER WITH RETRACTABLE BLADE**

Use: Circular and longitudinal cut.

Technical specifications: Lightweight, retractable blade with guiding security tip. For a longitudinal cut of maximum 3,5 mm thick insulation cable. Insulated PA handle (PA - Polyamide)

Ref.	Dimensions (mm)	Weight (g)
C368	170	90

Tensioning tools

Type of network: LV  MV  HV 

A13AV

TENSIONING TOOL

Use: Ideal for heavy-duty line work.

Technical specifications: For fixing and cutting steel strip from 10 mm to 20 mm wide, and 4/10e to 7/10e thick.

Delivered in a cardboard box.



Ref.	Dimensions (mm)	Weight (kg)
A13AV	270 x 93 x 90	1.950

A13

MANUAL TENSIONER

Use: For fixing and cutting steel strip from 10 mm to 20 mm wide, and 4/10e to 7/10e thick.



Ref.	Dimensions (mm)	Weight (kg)
A13	305 x 85 x 65	1.370

C119

STEEL STRIP SHEARS

Technical specifications: Equipped with a return spring, designed to cut steel strip at the desired length.

Its specific shape facilitates collar fixation.



Ref.	Length (mm)	Weight (g)
C119	230	490





P115

CLAMPING TOOL FOR STEEL STRIP

C33-226, UTE C33-223, NF C 33-223, HN33S23.

Use: Specific pliers used to bind all types of pipes, cables, ropes, boxes, etc...

It allows to cut metallic strip thanks to a cutting part.

Technical specifications: For steel strips up to 10 mm wide.

Suitable for all diameters and sections.

Ref.	Dimensions (mm)	Weight (g)
P115	160 x 25 x 56	240



F06 C

CLASP FOR METAL STRIP

Technical specifications: Clasp for 20 mm stainless steel strip.

Bag of 100 pieces.

Ref.	Weight (kg)
F06 C	1



F06-4 / F06-7

STAINLESS STEEL STRIP

Technical specifications: Reel of stainless steel strip 20 mm wide.

Ref.	Thickness	Dimensions (mm)	Weight (kg)
F06 4	4/10e	230 x 230 x 25	3
F06 7	7/10e	230 x 230 x 25	5

Pliers

Type of network: LV  MV  HV 

PE9Y

PLASTIC-COATED PLIERS FOR INSULATED CONNECTORS

Use: Used in telephone field for multi pair wires.



Ref.	Length (mm)	Weight (g)
PE9Y	150	150

P110

PLIERS FOR PLASTIC COLLARS

Use: For fixing and cutting Rilsan plastic collars.

Technical specifications: Steel pliers, lacquer finish.



Ref.	Length (mm)	Weight (g)
P110	200	320

Brush and paintbrushes

B142

SCRATCH BRUSH

Technical specifications: Ergonomic wooden handle, brass-coated steel wire brush, 4 rows,.



Ref.	Overall length (mm)	Weight (g)
B142	295	150

P135P

ROUND PAINTBRUSH

Technical specifications: Dielectric round paintbrush with plastic ring.



Ref.	Diameter (mm)	Length (mm)	Weight (g)
P135 P23	23	200	15
P135 P30	30	200	20





C205

ADJUSTABLE SPANNER

Technical specifications: High resistance steel.
15° inclined head.
Graduation on the head.

Ref.	Length (mm)	Opening	Weight (g)
C205 155	155	20 mm	60
C205 205	205	27 mm	210
C205 255	255	30 mm	350
C205 305	305	34 mm	560
C205 385	385	44 mm	900



C187

COMBINATION SPANNER

Technical specifications: Manufactured from chrome vanadium steel with chrome finish.

Ref.	Diameter (mm)	Length (mm)	Weight (g)
C187 06	6	110	25
C187 07	7	115	30
C187 08	8	120	38
C187 09	9	125	43
C187 10	10	130	47
C187 11	11	135	53
C187 12	12	140	62
C187 13	13	150	70
C187 14	14	160	82
C187 15	15	170	90
C187 16	16	180	100
C187 17	17	190	122
C187 18	18	200	140
C187 19	19	220	170
C187 20	20	230	195
C187 21	21	240	210
C187 22	22	250	260
C187 23	23	260	305
C187 24	24	270	330
C187 25	25	280	355
C187 26	26	290	380
C187 27	27	300	440
C187 28	28	310	510
C187 29	29	320	630
C187 30	30	330	690
C187 32	32	360	740

Miscellaneous wrenches

Type of network: LV  MV  HV 

C216

OPEN SOCKET WRENCH

Technical specifications: Manufactured from chrome vanadium steel with chrome finish.
Hexagonal head.



Ref.	Diameter (mm)	Weight (g)
C216 06	6	40
C216 07	7	50
C216 08	8	50
C216 09	9	60
C216 10	10	80
C216 11	11	100
C216 12	12	110
C216 13	13	140
C216 14	14	160
C216 15	15	190
C216 16	16	230
C216 17	17	300
C216 18	18	340
C216 19	19	380
C216 20	20	410
C216 21	21	440
C216 22	22	470
C216 23	23	530
C216 24	24	620
C216 26	26	770
C216 27	27	935
C216 30	30	1180
C216 32	32	1300

C199

RING-SET OF 8 HEXAGONAL METRIC KEY

ISO 2936

Technical specifications: High performance steel hexagonal keys.

Bevelled edges for a better torque resistance.

Burnish finish.

Ring-set of 8 hexagonal keys : 1,5 - 2 - 2,5 - 3 - 4 - 5 - 6 - 8 mm.



Ref.	Weight (g)
C199	250





M125

ENGINEER'S HAMMER 22 HICKORY SHAFT

EN 71-010 / EN 71-014

⊕ **Ideal for heavy-duty line work.**
Hard wood shaft made of Hickory for long life.

Technical specifications: 1 protection ring under the head to preserve the shaft from strikes.
1 ring on the end of the shaft to rap and adjust pieces.

More precision :

- working parts carefully polished.

Comfortable and ergonomics :

- clear and well controlled impact, it avoids any discordant movement which could damage the tool or the striking part.

- general balance : tool asymmetry with the eye to avoid any vibration around the eye which could react along the handle.

- hands and arms do not suffer from any lateral deviation or rebound.

Ref.	Head	Weight with handle (g)	Weight without handle (g)
M125 250G	26 mm	315	250
M125 315G	28 mm	410	315
M125 500G	32 mm	605	500
M125 750G	38 mm	870	750
M125 1000G	42 mm	1135	1000



M125NER

ENGINEER'S HAMMER WITH CARBON SHAFT

E 71-010 / E 71-014

⊕ **The Carbon 4-material shaft has an ergonomic design and prevents from tiredness and dangers due to intensive use of the tool.**

Technical specifications: Unbreakable : Fibreglass heart : exceptional lengthwise design = shaft resistance 10 times superior to wooden shaft.

Anti vibration polypropylene combined with the transverse flexibility of fibreglass = absorbs 10 times more vibration than a classical shaft

Comfort : Webbed, consistent and flexible elastomer = comfortable handling (no lump) = efficient grip

Precision : Major adding of the ultra-rigid carbon fibre : allows the striking precision without avoiding the absorption of vibrations.

The striking is sharp, easy and precise.

Ref.	Head	Weight with handle (g)
M125NER 315G	28 mm	315
M125NER 400G	30 mm	400
M125NER 800G	40 mm	800



M115

ELECTRICIAN'S HAMMER WITH HICKORY SHAFT

E 71-010 / EN 71-011

Use: Electrician's hammer, light and handy for precise strike.

⊕ **Ideal for heavy-duty line work.**
Hard wood shaft made of Hickory for long life.

Technical specifications: Electrician's hammer forged steel head, hardened and tempered.

Hickory shaft with double ring :

- 1 protection ring under the head to preserve the shaft from strikes.

- 1 ring on the end of the shaft to rap and adjust pieces.

Ref.	Head	Weight with handle (g)	Weight without handle (g)
M115 160G	16 mm	220	160
M115 200G	18 mm	260	200

Hammers

Type of network: LV  MV  HV 

M135

HAND-DRILLING HAMMER WITH HICKORY SHAFT

E 71-010

Use: Hand-drilling hammer with square head for masonry work.

 **Straight-grain hickory handle stained and lacquered.**

Technical specifications: Extra-heavy, forged steel head, hardened and tempered.



Ref.	Head	Weight with handle (g)	Weight without handle (g)
M135 1250G	45 x 41 mm	1405	1250
M135 1500G	50 x 44 mm	1635	1500

M130

SLEDGE HAMMER

E 71-010

Use: For professional use.

Suitable for very powerful strikes, or destruction.

Technical specifications: Extra-heavy, forged steel square head, hardened and tempered. Bevelled edges.



Ref.	Head	Weight with handle (g)	Weight without handle (g)
M130 4000G	170 x 62 mm	4850	4000





B55

CHISEL AND POINT CROWBAR

Use: Suitable for a wide range of general duty applications, ideal for dismantling timber constructions.

⊕ Provides extra-leverage.

Technical specifications: Steel hexagonal crowbar with a pointed end and a chisel end.
Made in France.

Ref.	Diameter (mm)	Length (m)	Weight (kg)
B55 2M	26	2	8
B55 2,50M	26	2,50	10



P145

ANCHOR ROD

Technical specifications: Anchor rod made of forged steel, octagonal shape 28 mm, with knurled head.

Ref.	Diameter (mm)	Length (m)	Weight (kg)
P145	28	1,50	7,5



B195

MASON'S COLD CHISEL

Use: Suitable to shear stones and concrete.

Technical specifications: Chrome Manganese Silicon forged steel
Forged cutting edge (hardened - high resistance) - resharpenable chisels.
Octagonal shape for high rigidity.
Safety haft to avoid blind blows.

Ref.	Section	Length (mm)	Weight (g)
B195 14x250	14 mm	250	300
B195 16x300	16 mm	300	470
B195 18x400	18 mm	400	760



C159

SHARPENABLE CHISEL FOR BRICK

⊕ Reinforced safety handle.

Technical specifications: Made in chrome manganese silicon steel - with safety handle.

Ref.	Dimensions (mm)	Weight (g)
C159	230 x 90 x 26	905

Anchor and striking tools

Type of network: LV  MV  HV 

P170 8x125

POINT SQUARE BRADAWL

Technical specifications: Vanadium chrome square blade.
Ergonomic cellulose acetate handle for optimum tightening.
Blade dimensions : 8 x 125 mm.



Ref.	Handle diameter (mm)	Overall length (mm)	Weight (g)
P170 8x125	31	245	154

P190

MASON'S POINTED CHISEL

Use: Suitable for demolition work, or dig a groove.

Technical specifications: Chrome Manganese Silicon forged steel.
Especially strong end.
Safety handle.



Ref.	Section	Length (mm)	Weight (g)
P190 16x300	16 mm	300	460
P190 18x400	18 mm	400	750

Distance measuring tool

002

TOPOMETER

Use: For road and field measurements.

 **No vibration : belt driven wheel.**

Technical specifications: Counter capacity : 9 999.99 m
Centimetres display : precision 0.05%
Wheel diameter : 318,5 mm
Belt width : 20 mm
Locking device and cleaning device.
Support stand and removable handle.
Accessory : case Ref. 002M (not supplied).



Ref.	Weight (kg)
002	4,3

Accessories:

002M	Transport case
-------------	----------------





T105

FIBREGLASS MEASURING TAPE

CERTIFIED CE CLASS 3

Technical specifications: Fibreglass tape with flush fitting winding handle.
The fibreglass tape is a hard wearing material which gives excellent resistance to moisture.
Double-sided graduation : black on white, with red meter indications.
Metric system.

Ref.	Width of tape (mm)	Length (m)	Weight (g)
T105	13	30	320



T106M

FIBREGLASS MEASURING TAPE WITH HANDLE

CERTIFIED CE CLASS 3

Technical specifications: High resistance bi-component case with round handle.
Fibreglass tape with flush fitting winding handle.
The fibreglass tape is a hard wearing material which gives excellent resistance to moisture.
Double-sided graduation : black on white, with red meter indications.
Metric system.

Ref.	Width of tape (mm)	Length (m)	Weight (g)
T106M	13	50	960



D1510 - D4520

FIBREGLASS MEASURING TAPE

Technical specifications: Flush fitting winding handle, in bi-colour case with belt loop.
The fibreglass tape is a hard wearing material which gives excellent resistance to moisture.
Double-sided graduation : black on white, with red meter indications.
Metric system.

Ref.	Width of tape (mm)	Length (m)	Dimensions (mm)	Weight (g)
D1510	13	10	190 x 190 x 45	220
D4520	13	20	290 x 190 x 45	440



P43

PLASTIC MEASURING VERNIER CALIPER

Technical specifications: Measuring vernier caliper made of insulated plastic.
Metric system.
Vernier : 1/10 mm.

Delivered in blister.

Ref.	Max. capacity	Ruler capacity	Weight (g)
P43	130 mm	150 mm	32

Measures

Type of network: LV  MV  HV 

C335B

CHALK LINE MARKER SET

Technical specifications: Chalk line marker set, up to 30 m.
Plastic case supplied with a 60g bottle of blue chalk.
Delivered in blister.



Ref.	Dimensions (mm)	Weight (g)
C335B	200 x 145 x 70	200

D68

AUTO-LOCK TAPE MEASURE

Technical specifications: Steel measuring tape, bi-component casing.
Mat tape with anti-reflection coating.
Auto-lock system.



Ref.	Length (m)	Width (mm)	Dimensions (mm)	Weight (g)
D68 2M	2	16	125 x 80 x 35	87
D68 3M	3	16	130 x 80 x 40	106
D68 5M	5	19	135 x 85 x 45	190
D68 8M	8	25	135 x 100 x 50	374

NCT

NON-CONDUCTIVE TAPE MEASURE

 100% safe : no conductive metallic parts.

Technical specifications: Tape is constructed of highest quality FRP – Fibre Reinforced Plastic material.
The material will not stretch and when used correctly will allow years of use.
Standard length : 3 m.



Ref.	Length (m)	Dimensions (mm)	Weight (g)
NCT	3	83 x 73 x 29	150

D60

INSULATED PLASTIC FOLDING RULES

CERTIFIED EC - CLASS 3

Technical specifications: 10 section insulated folding rulers, made of ABS plastic.
Extended length : 2 m.
Double-sided graduation.
Delivered in blister.



Ref.	Width (mm)	Weight (g)
D60	15	100





N05A 400

3-VIAL SHOCKPROOF BI-MATERIAL LEVEL

Technical specifications: 3-vial non-magnetic aluminium spirit level.
Smooth lacquered finish.
3 light vials for plum (vertical), level (horizontal), and 45°.

Ref.	Length (cm)	Weight (g)
N05A 400	40	380



N11600

3-VIAL RECTANGULAR LEVEL

Technical specifications: Professional aluminium level.
Rectangle shape.
3 light vials for plum (vertical), level (horizontal), and 45°.

Ref.	Length (cm)	Weight (g)
N11600	60	580



N16B400

ELECTRICIAN'S LEVEL

Technical specifications: Insulated level especially design for electrician's work.
High impact acrylic vials.
Shockproof die cast plastic frame.
Anti-scratch treatment.

Ref.	Length (cm)	Weight (g)
N16B400	40	190

Pruning equipment



M01NM

STRAIGHT BLADE MACHETE

Technical specifications: Straight blade.
Wooden handle.

Ref.	Blade length (mm)	Overall length (mm)	Weight (g)
M01NM	500	645	460

Hacksaw frames and blades

Type of network: LV  MV  HV 

M196M

HACKSAW FRAME

Technical specifications: Heavy duty unbreakable light alloy handle.
Steel bow section chrome polished with storage for spare blades.
One position flush cutting angle.
Robust and compact frame that requires minimum storage place.
Supplied with a HSS blade.



Ref.	Dimensions (mm)	Weight (g)
M196M	420 x 130 x 20	580

L10

HACKSAW SPARE BLADE «ULTRA MAJOR»

Use: Especially designed for engineering, workshops, etc.

Technical specifications: Super High Speed Steel with molybdenum - rustproof treated.
High cutting performances, maximum precision.



Ref.	Description	Length (mm)
L10 08D	Hacksaw spare blade 300 mm 8 teeth/cm	300
L10 10D	Hacksaw spare blade 300 mm 10 teeth/cm	300
L10 12D	Hacksaw spare blade 300 mm 12 teeth/cm	300

Tools for LV electricians

TP71

SUPPORT RODS FOR CURRENT METER PANELS

Use: This set is used to put up or put down electric meters or to maintain it in a sloped position.

Technical specifications: Kit content:

- Two rods for right position, Ø 5 mm Length : 340 mm
 - Two rods for left position, Ø 5 mm Length : 170 mm
 - One screwdriver handle Ref. TP 71MV
- Max. weight of 50 daN on the 4 rods.



Ref.	Dimensions (mm)	Weight (g)
TP71	380 x 40 x 40	350

Spare part(s):

TP71T	Case
TP71VD	Rod for right position
TP71M	Screwdriver handle
TP71VC	Rod for left position (bent rod)

Binoculars

J100

BINOCULARS

MODEL GUARANTEED 5 YEARS AGAINST ANY MANUFACTURING DEFECT.

Use: Ideal product to follow and/or control overhead works.

Technical specifications: No blue reflection

Model 10 x 50 :

- enlarging 10 times, lens 50 mm
- luminosity 25

Binoculars delivered with carrying case and shoulder strap.



Ref.	Height (mm)	Weight (g)
J100	169	730



A

ABC dry powder fire extinguisher, capacity 9 kg.....	110
ABC powder fire extinguisher.....	92, 108
Accessories for «Tirvit» tensioners.....	485
Adapter for fuse holder.....	244
Adapter for insulation piercing connector.....	240
Adapter for Reel Holder with U end fitting.....	279
Adapter M12 female / d12mm fork.....	238
Adapter M12 female / d13mm lug.....	238
Adapter M12 female / d15mm lug.....	239
Adapter M12 female / d18mm fork.....	239
Adapter M12 female / M12 female.....	239
Adapter M12 female / plate lug.....	239
Adapter M8 female / M12 female.....	238
Adapter M8 male / M12 female.....	238
Adaptors.....	537
Additional earthing and short-circuiting equipment.....	324
Additional earthing equipment.....	323
Adhesive safety tape 100 m.....	445
Adhesive sign - Do not climb on power transformer.....	431
Adjustable spanner ATEX II.....	558
Adjustable electrician face shield with support for helmet.....	10
Adjustable fixed points for vertical or oblique conductors.....	356
Adjustable hook spanner.....	550
Adjustable lockout cable.....	457
Adjustable lockout device for 1/4 turn valve.....	462
Adjustable scoring stylus for peelable semiconductor.....	412, 413
Adjustable spanner.....	596
Adjustable triangular tent.....	576
Adjustable webbing lanyard 2 m.....	72
Air cylinder for SCBA.....	23
All purpose safety lashing system.....	495
Alligator clip for continuity testing.....	399
Alligator clip with 4 mm female banana socket.....	397
All-purpose reeler.....	126
Aluminium alloy connector.....	69
Aluminium alloy snap hook with safety inside latch.....	70
Aluminium cable winch hoist.....	494
Aluminium hook ladder.....	476
Aluminium ladder with working platform.....	473
Aluminium sign «Danger - No entry - Electrical station».....	431
Aluminium stepladder with telescopic feet.....	476
Aluminium strip saw.....	407
Ammeter for Low Voltage single core insulated cables.....	373
Analog 5kV insulation tester.....	377
Anchor chain.....	485
Anchor clamp.....	497
Anchor rod.....	600
Anchor sling.....	485
Anchorage ring.....	67
Anchorage ring, width 44 mm.....	68
Angled fixed ball point.....	343
Anti-panic descender.....	75
Arc flash balaclava - ATPV 24,7 cal/cm ²	12
Arc flash protective garments - daily wear.....	44 to 49
Arc flash protective garments - switching wear.....	51, 52
Ascender.....	74, 75
Association of Light And Detector for Individual protection.....	293
Auto-lock tape measure.....	603
Automatic fall arrester device.....	67

B

Backpack for PPE and tools 25L.....	140
Bag for insulating caps.....	81
Bag for insulating sleeves.....	81
Base for rod.....	440
Battery.....	518, 532

Battery operated crimping tool.....	527 to 530
Battery operated hydraulic cable cutter.....	514 to 517
Battery operated hydraulic power pack.....	533
Battery operated indent crimping tool.....	531
Beanie.....	13
Belt reel for continuity test.....	400
Bending tool for 50 to 300 mm ² conductor.....	214
Binoculars.....	605
Block with rolls for ROTO-TMG.....	410
Bonded semiconductor shaving tool.....	415
Borer rod.....	329
Branch pruner.....	276
Branch saw.....	277
Brass cable holders.....	100, 101
Brush for aluminium conductor wire.....	220
Brush for copper or aluminium conductors.....	275
Brush with handle.....	569
Bucket for working at height.....	81, 141
Bypass device for gas soil pipes.....	573
BY-PASS Jumper.....	243

C

Cabinet key.....	580, 581
Cable and phaser identifier for de-energized three phase cables.....	284, 285
Cable Cutter Stick.....	263
Cable drum lifting jacks.....	505
Cable extension.....	127
Cable midspan stripper 10-45 mm.....	408
Cable protection.....	251
Cable protector Road Shell.....	250
Cable reeler 40 m.....	126
Canadian triangular tent.....	576
Cantilever tool box 5-tray.....	134
Canvas bag.....	137
Canvas bag for insulating mats.....	41
Canvas briefcase 17L.....	142
Canvas soft case.....	138
Canvas storage bag for electrician's gloves.....	31
CAP / CAS connections.....	359
Cape chisel.....	571
Car charger.....	311
Carbon dioxide (CO ₂) fire extinguisher.....	109
Carrying bag for earthing device.....	345
Carrying case.....	534
Carrying strap for insulating mats.....	41
Chain ratchet cable cutter Ø 50 mm.....	509
Chain sling.....	492
Chalk line marker set.....	603
Charger 220 V - 50Hz.....	311
Charger 220V 18V Li-Ion.....	518, 532
Checking kit.....	311
Chest ascender.....	74
Chisel.....	570
Chisel and point crowbar.....	600
Clamp.....	437
Clamp for by-pass device for gas soil pipes.....	573
Clamping tool for steel strip.....	409, 594
Clamp-on earth resistance tester.....	386
Clamps on insulating sticks for equipotential bonding.....	351
Clamp-type safety wire grip.....	397
Clasp for metal strip.....	594
Classic multi-situation self-contained breathing apparatus.....	22
Clear anti-UV safety glasses.....	14
Climbing iron.....	477, 478
Combination spanner.....	561, 596
Combination spanner ATEX I.....	559
Compact telescopic insulating stick for work at great heights.....	269
Compact voltage detector stick.....	90
Complete earthing and short-circuiting device.....	343

ALPHABETICAL INDEX

Complete linemen set (electrical distribution).....	54
Complete pulling/lifting winch set.....	505
Composite insulating gloves class with arc flash protection.....	28
Concrete base.....	440
Cone sharpeners.....	416, 421
Connectable insulating sticks made of Ø 32 mm tube.....	258
Connection device for fuse holder.....	243, 244
Container for insulating sleeves.....	80
Continuity tester and reel.....	371
Copper/aluminium bimetallic plates.....	101
Copper/aluminium bimetallic washers.....	101
Cordless drill.....	583
Corrugated sheath cutter Ø 70 - 180 mm.....	427
Cotton fingerless inner gloves.....	29
Cotton inner gloves.....	30
Couplers.....	536, 537
Coupling wrench.....	564
Cradle kit for LV and MV spliced ladders.....	472
Crepe paper.....	84
Crimping pliers.....	520
Crimping pliers 4 to 120 mm ² CU.....	521
Crimping pliers SIMECA SM1 - 6 to 240 mm ² CU.....	521
Crimping tool for uninsulated cable lugs.....	519
Cut resistant gloves with PU coated palm.....	34

D

Danger banners.....	442
DC Bipolar voltage detectors, range 500 / 3.600 V DC.....	294
Demarcation tape in coated fabric.....	445
Derivation box.....	247
Detection mesh for buried cables.....	437
Diagonal cutting pliers ATEX II.....	547
Dielectric overboots.....	39
Digital clampmeter.....	380
Digital insulation tester.....	376
Digital multimeter.....	379
Digital/analog insulation and continuity tester.....	374
Discharge stick.....	271
Disconnected cable and phase vocal identifier, network map checker.....	282
Disposable earplugs 37 dB.....	18
Disposable hair restraint for helmet.....	13
DIY M8 Connector - 35 mm ²	236
DIY M8 Connector - 50 mm ²	236
Docker gloves.....	32
Double cone sharpener 2000/150 ² -240 ²	416
Double loop galvanized steel pulling sleeve or cable puller.....	488
Double rack slip-joint pliers ATEX II.....	548
Driving heads for hearth rods.....	102
Dry powder fire extinguishers on wheels.....	110
Dual cartridge half mask.....	21
Duck Bill clamp (Spring pre-positioning clamps).....	337

E

Ear muffs.....	17
Ear protection system for helmet 26 dB.....	17
Earth and resistivity tester.....	384
Earth and resistivity tester (4 wires).....	383
Earth clamp for pylon angle section with TFK connection.....	354
Earth clamp, substation version.....	354
Earth connection and measurement plate HN 64S33.....	102
Earth connection and measurement plate on support.....	102
Earth Resistivity set.....	385
Earth stud with plate 40 kA/1s.....	357
Earth Tester (3 wires).....	382
Earth/ground resistance testers.....	383
Earthing and sc device for bare MV overhead lines.....	331
Earthing and short-circuit equipment for overhead lines.....	333, 335
Earthing and short-circuiting clamp for bare LV overhead lines.....	321, 322

Earthing and short-circuiting device for cells.....	341
Earthing and short-circuiting device for industrial LV switchboards.....	326
Earthing and short-circuiting device, with spring line clamps.....	333
Earthing and short-circuiting equipment for bare LV overhead cables...321, 322	
Earthing and Short-Circuiting System for MV substations.....	340
Earthing arrester for energy canles.....	288
Earthing cable reels for equipotential bonding.....	351
Earthing clamp.....	339
Earthing clamps for compact fixed ball points.....	342
Earthing clamps for PIMT device.....	340
Earthing clamps, substation and line version.....	352
Earthing clamps, substation version.....	353
Earthing from the ground with insulating rope.....	353
Earthing kit.....	385
Earthing system with interlocking between line and earth clamp.....	346
Earthing to post for Overhead Lines.....	334
ECO triangular tent.....	576
Economical insulation and continuity tester.....	375
Electric shock first aid sign.....	430
Electrical hazard warning signs and earth signs.....	432
Electrical meter replacement tool set.....	228 to 230
Electrical plug lockouts.....	460
Electrical safety kit.....	106
Electrical safety kit.....	104
Electrician face shield with headband and brow-guard.....	9
Electrician Helmet with integrated face shield.....	9
Electrician leather bag.....	135
Electrician leather tool bag.....	137
Electrician pocket knives.....	590
Electrician scissors.....	203
Electrician's hammer with Hickory shaft.....	598
Electrician's level.....	604
Electrician's scissors with stripping notches.....	590
Electrode and soil resistivity stake and wire kit.....	385
Electronic HV no-voltage tester, from 50 to 765 kV.....	313
Electronic voltage detectors.....	295
Electronics tool set.....	231
Electrostatic earthing device.....	573
Emergency exit sign, frame + arrow.....	433
Emergency kit for 20 m height.....	76
Empty case for PIMT earthing device.....	344
End cutting pliers ATEX II.....	546
End cutting pliers ATEX II.....	547
Engineer's hammer 22 Hickory shaft.....	598
Engineer's hammer with carbon shaft.....	598
Enlarger 1/4" - 3/8" (6,35 mm - 9,53 mm).....	188
Enlarger 3/8" - 1/2" (9,53 mm - 12,7 mm).....	180
Equipotential bonding.....	349
Equipotential bonding bars.....	100
Equipotential bonding set for construction companies.....	350
Equipotentiality parking bar on post.....	338
Evacuation harness.....	76
Expandable barrier.....	441
Extension piece 1/2" (12,7 mm) square drive ATEX I.....	555
Extra large safety pin for warning mesh.....	435

F

Fall arrester.....	65
Fastening system.....	279
Female 12 sided socket 1/2" (12,7 mm) square drive Atex 1.....	555
Female 12 sided sockets 1/2" (12,7 mm) square drive ATEX I.....	554
Fibreglass measuring tape.....	602
Filtering cartridges.....	21
Fire blankets.....	111
Fire extinguisher sign.....	433
Fire set.....	111
First aid set.....	112
Five sections compact insulating stick.....	268
Fixation rod.....	438, 439

Flame resistant and arc flash resistant balaclava, ATPV 12,1 cal/cm ²	12	Harness for industry with 3 anchorage points	57
Flame resistant inner gloves	30	Harness for linemen with moving belt 180°	59
Flame resistant, insulated equipment.....	57	Harness for linemen with moving belt 180° and automatic buckles.....	60
Flat saline battery 4,5 V	125	Harness with 1 anchorage point for works on cradle.....	57
Flat/Phillips screwdriver for terminal blocks.....	153	Harness with 3 anchorage points for industry	58
Flat/Pozidriv screwdriver for terminal blocks.....	154	Harness with insulated metal buckles.....	61
Flexible aluminium earthing and short-circuiting cables.....	358	Haul system with 2 double pulleys	73
Flexible copper earthing and short-circuiting cables.....	358	Head end protection box	247
Flexible hose.....	537	Hearthings grids.....	99
Flexible test grip, IP2X	398	Heating gun	585
Folding key CPM	582	Heavy-duty ratchet cable cutter Ø 52 mm.....	509
Folding rescue stretcher set.....	112	Helmet and face shield, HRC 2, ATPV 12 cal/cm ²	8
Foot control pedal	535	Hex key	563
Foot operated hydraulic pump.....	532	Hex socket wrench	564
Forestry safety helmet	10	Hexagonal rod	328
Four function MV case for peelable and non-peelable semicon	427	Hexagonal shunt clip.....	241
Free air breathing apparatus.....	22	High flexible earthing tapes out of tinned copper.....	97
Front ratchet cable cutter Ø 35 mm	508	High performance cooling vest.....	53
Full body harness for linemen.....	62	High resistance bag for earthing cable	143, 361
Full case 50 mm ² to 240 mm ² IMPB	425	High resistance coated canvas bag.....	142
Full case 50 mm ² to 240 mm ² with TC.....	419, 421	High resistance tool tray	141
Full case 50 mm ² to 240 mm ² without TC.....	419, 420	High visibility rain jacket and pants.....	53
Full case 50 mm ² to 630 mm ² with TC630.....	420, 424	High visibility waistcoat class 2.....	52
Full case for cables preparation.....	423	High Voltage DC detector	315
Full case for LV/MV impregnated paper cables.....	425	Holdall bag	142
Full case for NPT cable 1200 mm ²	423	Holdall soft case	138
Fully coated adjustable spanner ATEX II.....	558	Hook with small rope for telescopic stick	68
Fully coated offset pipe wrench	550	Hook wrench	565
Fully insulated adjustable spanner	165	Hot stick tester	273
Fully insulated diagonal cutting pliers	160	HV HYDRAULIC SPIKING CABLE SET	310
Fully insulated electrician scissors.....	203	Hydraulic crimping head	525, 526
Fully insulated flat nose pliers.....	158	Hydraulic cutting head.....	512, 513
Fully insulated half-round straight long nose pliers	157	Hydraulic indent crimping head.....	525, 526
Fully insulated stripping pliers.....	162	Hydraulic power unit.....	533, 534
Fully insulated universal pliers.....	155	Hydraulic Spiking-Cutting cable set	304
Fuse 6x32 mm.....	398	Hooked poles for off-tension work	262
Fuse extractor.....	220, 278		

G

Galvanized steel connector, opening 18 mm	69
Gas cartridge.....	585
Gas pliers ATEX II	549
Gas tightening kit - square drive 1/2"	551
Gauge.....	274
Generating set	128
Green warning flag - Electrical hazard	442
Ground indication sign	432
Grounded wall socket adaptor.....	401
Group lock box.....	455
Guided type fall arrester.....	64, 65
Guy-wiring device for wooden poles	481

H

Hacksaw frame.....	605
Hacksaw spare blade «ULTRA MAJOR»	605
Half moon quick link 10 mm	70
Half round shovel.....	587
Half-round long nose telephone pliers ATEX II.....	546
Halogen rechargeable light	118
Hand lamp - Fluorescent tube 8 W	120
Hand lamp 24V.....	120
Hand-drilling hammer with Hickory shaft.....	599
Hand-held time domain reflectometer and cable length meter	387
Handheld Time Domain Reflector	388
Handle for mesh clamps	436
Handle-off ball valve lockout	462
Handling leather gloves	32, 33
Hardwood cylindrical handle	499

I

Impact diver.....	584
Impact drill	583
Indent crimping pliers	519
Indent crimping pliers in case with 85 terminals and lugs.....	520
Indent crimping tool for bare lugs and insulated lugs	519
Industrial safety helmet for linemen	7
Industry / building industry harness	58, 59
Infrared thermometer.....	391
Insulated female hexagonal socket 1/4" (6,35 mm) square drive	187
Insulated square end socket wrench	175
Insulated 12-sided female socket - 1/2" (12,7 mm) square drive	194
Insulated 12-sided female socket - 3/8" (9,53 mm) square drive	178
Insulated 12-sided female socket set 1/2" square drive, long series	197
Insulated 12-sided female socket, long series, 1/2" (12,7 mm) square drive.....	195
Insulated 4 Nm torque limiting T-wrench 3/8" square drive.....	182
Insulated 4-size ring spanner 13 x 14 x 16 x 17 mm.....	167
Insulated adhesive tapes	83
Insulated adjustable spanner	165
Insulated bent male hex key with handle	171
Insulated bent socket spanner	170
Insulated bent TORX key T50	170
Insulated bolt cutter	113, 212
Insulated box wrench.....	174
Insulated cable cutter 36 kV.....	113
Insulated clips.....	240, 241
Insulated connector pliers.....	162
Insulated cutting pliers.....	163
Insulated diagonal beveled cutting pliers.....	216
Insulated diagonal cutting pliers	159, 160
Insulated diagonal flush cutting pliers.....	216
Insulated end cable cutter.....	160

ALPHABETICAL INDEX

Insulated end cutting pliers.....	217	Insulated T-handled box spanner	168, 169
Insulated female hexagonal cross spanner.....	175	Insulated torque limiting screwdriver 4 Nm	154
Insulated female hexagonal radio key	218	Insulated torque wrench 3/8" set.....	199
Insulated female hexagonal socket - 1/2" (12,7 mm) square drive.....	195, 196	Insulated triangle spanner 11 mm with handle.....	164
Insulated female hexagonal socket - 3/8" (9,53 mm) square drive.....	177	Insulated T-wrench 3/8"	181, 182
Insulated female hexagonal socket set 1/2" square drive, long series	197	Insulated universal pliers	155
Insulated flat nose pliers.....	158	Insulated V-shaped lifting antenna	278
Insulated flush cutting pliers	159	Insulated wrench for ring connectors.....	220
Insulated frame to delimit the working zone.....	437	Insulating bag for connectors.....	82
Insulated full round straight nose pliers.....	157	Insulating cap for LV insulator	81
Insulated fuse extractor pliers	162	Insulating combination ladder with 2 or 3 sections.....	468
Insulated hacksaw.....	202	Insulating composite cutting pliers Ø 22 mm	164
Insulated half-round bent 45° nose pliers	156	Insulating composite flat nose pliers with ceramic blades	158
Insulated half-round bent long nose pliers	215	Insulating composite gloves.....	27
Insulated half-round short nose pliers	215	Insulating composite pliers for network cables.....	404
Insulated half-round straight long nose pliers.....	156, 215	Insulating composite universal pliers with ceramic blades	155
Insulated handle with hand guard	329	Insulating gouge	214
Insulated hexagonal 19 mm end piece.....	175	Insulating half-round bent nose pliers with ceramic blades	156
Insulated hexagonal nut driver	172	Insulating hydraulic oil.....	535
Insulated junior hacksaw	202	Insulating knife with ceramic blade.....	201
Insulated knife.....	201	Insulating latex gloves	26
Insulated long flat nose pliers	215	Insulating lever	214
Insulated LV Pliers.....	404	Insulating mat with fringes.....	78
Insulated male hex key 90° bent.....	171	Insulating mats	40
Insulated male hexagonal socket - 1/2" (12,7 mm) square drive.....	196	Insulating notch pliers.....	159
Insulated male hexagonal socket - 3/8" (9,53 mm) square drive.....	179	Insulating operating hook.....	275
Insulated male hexagonal socket 1/4" (6,35 mm) square drive	187	Insulating plastic stool	94
Insulated male TORX socket 3/8" square drive.....	179	Insulating pliers for electrical panel builder	157
Insulated miniature Phillips screwdriver n° 00	218	Insulating pliers for lead sheath cables	406
Insulated miniature screwdriver for slotted screws	218	Insulating pointed chisel	214
Insulated non reversible ratchet torque wrench 30-150 Nm	200	Insulating reeler.....	127
Insulated offset slotted screwdriver single blade crosswise.....	150	Insulating rescue stick.....	107
Insulated offset-head diagonal cutting pliers.....	159	Insulating screen 20 kV for substation	85
Insulated Phillips screwdriver with smart diameter blade	151	Insulating separator with groove	213
Insulated pipe wrench for square nuts	174	Insulating sheet	78
Insulated plastic folding rules.....	603	Insulating single piece plastic stool for inside use	94
Insulated Pozidriv screwdriver with smart diameter blade	151	Insulating sleeve for LV conductor wire	79
Insulated Pozidriv stubby screwdrivers.....	151	Insulating spanner	581
Insulated ratchet cable cutter.....	207 to 210	Insulating stick 2 or 3 section from 1,54 m to 2,05 m	268
Insulated ratchet ring spanner - 6 sided.....	173	Insulating stick for operating CHC31 low point extensions.....	356
Insulated ratchet spanner 1/2" (12,7 mm) square drive.....	192	Insulating sticks.....	259
Insulated ratchet spanner 1/4" (6,35 mm) square drive.....	187	Insulating storage box for electricians' gloves.....	31, 92
Insulated return pulley for service ropes, force 60 DaN	503	Insulating stripping pliers.....	217
Insulated reversible ratchet spanner 3/8".....	176	Insulating tape.....	78
Insulated reversible ratchet torque wrench 1/2" square drive - 8-50 Nm	200	Insulating telescopic stick 2,36 m.....	267
Insulated reversible ratchet torque wrench 3/8" square drive - 8-50 Nm	198	Insulating transport hook 50 daN	499
Insulated reversible ratchet torque wrench 3/8" square drive 4-20 Nm.....	198	Insulating wedge	213
Insulated rope-operated hoist	494, 495	Insulating wedge separator.....	213
Insulated round nose pliers.....	216	Insulation and continuity testers.....	375
Insulated scraping pliers for varnished wires	218, 588	Insulation chamfering stylus	413
Insulated screwdriver for round headed or conical squ. countersunk screws. 172		Insulation piercing connectors for GDDTORS device.....	323
Insulated screwdrivers ROTOLINE	148	Insulation remover 14 - 40 mm	416
Insulated shear type cable cutter	211, 212	Insulation Resistance Testers	378
Insulated silicone-coated cloth.....	273	Interface for short-circuiting on P&I Interface Panel.....	327
Insulated single head cranked ring spanner (12 sided).....	167	Intermediate earthing stick for connections at great height	355
Insulated single head ring spanner, inclined head 15°	173	IP2X 4 mm safety lead with right-angled plug.....	396
Insulated single open ended spanner	166, 217	IP2X 4 mm stackable safety lead	395
Insulated slip-joint adjustable pliers	161		
Insulated slotted screwdriver with smart diameter blade.....	150	J	
Insulated slotted stubby screwdriver	150	Jacket remover with retractable blade	592
Insulated socket	245	Jaw or complete grip for «Tirvit» tensioners.....	484
Insulated socket set for confined spaces.....	190	JOKARI stripping knife	591
Insulated socket spanner	169	Junction box	246
Insulated stepladder	470		
Insulated straight hex key driver with handle	170	K	
Insulated stranded nylon polyester rope tie	492	K1 type flag	447
Insulated strip saw	407	Kernmantle rope Ø 12 mm.....	72
Insulated stripping pliers.....	162	Knife.....	568
Insulated T wrench 1/2".....	193		

L

Labelled lockout hasp	457
Laboratory set with 31 safety micro tools.....	219
Lanyard securing rope with connector	71
Large carrying bag for insulating mats.....	41
Lead pliers without text bloc	589
Lead sheath spreader (LV-MV)	407
Lead with retractable sleeve	395
Leakage multimeter clamp	386
Leather and textile backpack	140
Leather bag	136
Leather belt, accessory holder	139
Leather overgloves	29
Leather tool bag	138
Leather trolley bag for small interventions	135
LED Flashlight ATEX Zone 0.....	121
LED hand lamp	121
LED Headlamp (3 or 4 LED).....	116
LED headlamp ATEX Zone 0	117
LED photoluminescent flashlight	118
Level	604
Lever-operated come along clamp or Tensioner	486
Lifting fork for wooden poles.....	499
Lifting pulley for steel cables	504
Lightweight rolling individual platform.....	474, 475
Line ice breaker rod.....	277
Live LV cable identifier	366
Live LV feeder and phase identifier 6 to 12 feeders	364
Live working boots with insulated soles	38
Live Working safety boots 20 000 V	39
Lockout device for handles of 1/4 turn valve	461
Lockout device for ultra-fine holes	457
Lock-out hasp 4 mm	456
Lockout station	455
Long distance LED headlamp.....	116
Long extension 1/2" (12,7 mm).....	193
Long extension 1/4"	188
Long extension 3/8"	181
Long length LV notched insulating sleeve	80
Longitudinal cutting head 1 or 3 penetrations	418
Low voltage earthing arrester and phase indicator	286
Low Voltage Live Working Case.....	407
Low Voltage Spliced ladder kit	471
Low Voltage tool set.....	222 to 224
Lug All winch hoist.....	493
LV - MV Pliers for lead sheath cables CC 2.3 LC 3.5	406
LV Cable stripper 54.6 / 148 mm ² or 54.6 / 70 mm ²	406
LV Cable stripper 6 sections for overhead network	405
LV Circuit breaker lockout	458 to 460
LV Dielectric safety boots 1000 V	39
LV Earthing and short-circuiting device for panel boards and cabinets.....	325
LV insulating cap for conductor ends.....	82
LV phase rotation indicator.....	369
LV Pliers for connection cable CC 1.2 LC 1.6	405
LV Pliers with 3-position head for connection cable.....	405
LV Short-circuiting and Earthing Device for panel boards and cabinets.....	324
LV voltage detector TAG780	290
LV-MV Hydraulic cable spiking-cutting set.....	305, 306
Lyon type pulley blocks.....	502
Lead with fuse	393

M

M12 insulated right angle connector	236, 237
M12/Lug Ø14 flexible shunt cable.....	235
M12/M12 Flexible shunt cable - 120mm ²	235
M16 female socket.....	245
M16 insulated right angle connector	237

M8/M8 Flexible shunt cable	234, 235
Maintaining tool for mechanical fitting connectors	410
Maintenance case.....	133
Male hexagonal socket 1/2" (12,7 mm) square drive ATEX I	555
Male hexagonal T keys - Short and long version	171
Mandatory safety signs.....	433
Manual hydraulic cable cutter.....	510, 511
Manual hydraulic crimping tool	522 to 524
Manual hydraulic indent crimping tool	523
Manual ratchet lever hoist	493
Manual reel	248, 588
Manual tensioner.....	593
Manually-operated insulating extension ladder with 2 sections	467
Marking cone of access to the protected area.....	436
Marking of the Minimum Approach Distance.....	434
Mason's cold chisel	600
Mason's pointed chisel	601
Measuring Stick.....	391
Megohmmeter	377
Mesh	435
Metal saw frame for 300 mm blades ATEX I	568
Metallic reel type H.....	445
Meter tester	372
Micro-clamp multi-position, multi-contact, 200 A.....	242
Middle Voltage Case.....	424
Middle Voltage Spliced ladder kit	472
Miniature Circuit Breaker Lockout Device.....	459
Mobile fall arrester.....	64
Mono-lens safety glasses anti UV.....	15
Mono-lens safety overspec	16
Motorized reel.....	249
Multifunction blowtorch	585
Multifunction installation tester	372
Multifunction tool for bonded semiconductor.....	411, 412
Multifunction tools for sheath, peelable semicon and insulation	413, 414
Multi-gas detector	23
Multi-head bung wrench	565
Multilingual labels for padlocks.....	463
Multimeter clamp.....	380
Multimeter clamp.....	381, 382
Multiple locking device	454
Multi-position flame retardant balaclava	11
Multi-purpose telescopic insulating stick PENTA-POLE.....	264
MV hook ammeter	374
MV Hydraulic Spiking-Cutting cables set	307, 308
MV Voltage detector VECTOR.....	296

N

Needle mounted on drum reel.....	490
NH fuse handle with protective sleeve.....	328
Ni-MH battery - 2.6 Ah.....	310
Nitrile mat.....	312
Non deflagrating headlamp.....	117
Non-conductive tape measure	603
Non-metallic safety shoes S3.....	36
Non-reversible ratchet torque wrench 1/2" square drive ATEX II	552
Non-tripping loop and RCD tester	389
Notching pliers	80
Nylon composite lock-out hasp	456
Needle mounted on drum reel.....	490

O

Offset pipe wrench ATEX II	550
Offset ring spanner	563
Offset ring spanner ATEX I.....	562
Oil refill.....	312
Open ended spanner.....	561
Open ended spanner ATEX I	559

ALPHABETICAL INDEX

Open socket wrench	597
Operating Hooks	275
Orange warning mesh for work.....	434
Orientable magnetic spotlight 12 or 24 V	122
Outer sheath pliers 10-28 mm CC 1.0 without TRL	417, 418
Oval quick link 8 mm	70
Overhead cable height and clearance meter	390
Oversheath remover for cables with IMPB.....	408
Oversized plug control cover	460

P

Padlock rack.....	454
Padlock stations	455
Paint scraper	568
Pair of cable drum unwinders on base	504
Parrot beak cable cutter Ø 30 mm	212
Partial Discharge Scanner.....	392
PE Sheath cutter for coated steel pipes.....	427
PE Sheath spreader	409
Peak scraper	571
Peelable semiconductor lifter.....	415
Permanent simple and double position earth connectors.....	356
Permanent voltage indicator light.....	301
Personal Protective Equipment bag.....	129 to 131
Petroleum PVC gloves	33
Phase tester for LV network	292
Phillips screwdriver.....	567
Phillips Screwdriver ATEX II.....	567
Pickaxe	572, 586
Pinching bar	569
Pipe wrench.....	564
Plastic base for rod.....	439
Plastic cable ties.....	589
Plastic chain	443
Plastic clip for insulating sheets and bands.....	79
Plastic measuring vernier caliper	602
Plastic screw box.....	134
Plastic tag 80 mm «Do not operate - Disconnection»	463
Plastic toolbox	133
Plastic-coated pliers for insulated connectors	595
Plate removing hammer.....	500
Pliers for impregnated paper CC 4,65 mm	417
Pliers for plastic collars.....	595
Plumber leather bag with carrying handle.....	136
Pneumatic insulating stick.....	270
Point square bradawl.....	601
Pole extractor	498
Polyamide canvas tool bag.....	137
Polyamide or white nylon braided rope (8 reels).....	497
Polyester fibreglass insulators (female/female)	99
Polypropylene rope (4 strands).....	497
Polypropylene tool box	132 to 134
Portable anchoring device for insulated ladders	470, 471
Portable halogen spotlight 300W.....	122
Portable multimeter	379
Positioning foot-rest for concrete poles.....	480
Positioning girder.....	480
Post on base for plastic chains.....	443
Powder flask.....	31
Power adaptor 4 plugs + plug-in circuit breaker 30mA	127
Power socket tester, earth connection impedance meter.....	370
Power supply block.....	128
Pre-filters P2	21
Prick wire shunt clip	242
Professional blade cutter	591
Professional hand lamp.....	120
Profiling shears ATEX II	547
Protection bag for electrical cabinets S22	84
Protective cover	79

PU coated handling gloves.....	34
Public lighting short-circuiting set for NEVERS device	320
Pulley with revolving flange opening for steel cables.....	502
Pulling needle in case + repair kit.....	489
Pulling needle Ø 4 mm.....	489
Pulling sleeve or cable puller	487, 488
Pulling/lifting winch set 150 m for linemen	505
Pulling and lifting tool with limited cable travel.....	491
PVC covered flat copper braids	95
PVC covered round copper braids	95
PVC Phase marking tapes	83
PVC Sheath spreader	409
PVC soft case.....	139
PVC strip for junctions.....	84
PVC-coated flag.....	360

Q

Quick standard couplers	536
-------------------------------	-----

R

Rain suit (jacket and pants).....	53
Ratchet bit brace	584
Ratchet cable cutter.....	508, 509
Ratchet controlled cable drum lifter	498
Ratchet torque wrench kit.....	551, 552
Rechargeable portable 4 LED lantern	119
Rectangular alkaline battery 9 V 6LR61	125
Red warning flag - Electrical hazard.....	442
Reducer 1/2" - 1/4" (12,7 mm - 6,35 mm)	194
Reducer 1/2" - 3/8" (12,7 mm - 9,53 mm)	194
Reducer 3/8" - 1/4" (9,53 mm - 6,35 mm)	180
Reel equipped with an earth clamp	339
Reel for continuity test, 100 m	400
Reeler-unreeler with safety thermal circuit breaker	126
Reflecting safety armband	52
Reflective safety tape.....	444
Reinforced insulating composite cutting pliers	164
Reinforced PVC-coated canvas tool bag.....	137
Remote Area Lighting System	123, 124
Remote Area Lighting System ATEX Zone 2	124
Remote control	535
Remote controlled hydraulic spiking and cutting tool.....	309
Remote electrical field detector.....	314
Removable handle for fuses.....	328
Removable panel in retro reflective fabric	446
Rescue set.....	73, 103
Rescue strap	73
Residual current device tester	389
Retractable steel cable fall arrester.....	66
Retractable webbing fall arrester	66
Retro reflective steel triangular signs, type AK Class I.....	447
Retro reflective picket K5B.....	447
Return pulley for service ropes.....	501
Reusable earplugs 33 dB with cord.....	18
Reversible ratchet wrench 1/2" (12,7 mm) square drive ATEX II	554
Ring-set of 8 hexagonal metric key.....	597
Rod.....	438
Rod to conductor clamps	102
Rolling earth device for cables unreeling.....	354
Roll-up soft case.....	139
Rope for warning mesh.....	435
Rope-operated insulating extension ladders with 2 or 3 sections	466
Rope-operated mixed extension ladder with 2 or 3 sections.....	469
Rotating gate valve lockout devices	461
Round alkaline battery	125
Round paintbrush	595
Round shovel.....	586
Round wire stripper	592

Roundsling	496
------------------	-----

S

Safeguard	441	Short-circuiting and earthing device for substations s	344
Safety 8-shaped descent device	73	Short-circuiting device	327
Safety adhesive tape	444	Short-circuiting equipment	323
Safety ankle boots SC3CI	36	Short-circuiting equipment for LV overhead lines	319
Safety anti-fogging mask	16	Shovel with handle	572
Safety boots S3 HRO for linemen	35	Shunt clip for flat bus bar	241
Safety cable cutting device	302	Shunt clip for stripped cable	242
Safety cap	11	Siliconized leather overgloves	28
Safety fluorescent waistcoat antistatic and flame retardant	52	Single head hex key ATEX II	562
Safety glasses for live line working	14	Single head ring spanner ATEX II	560
Safety helmet for linemen	6 to 8	Single head socket wrench ATEX II	563
Safety measuring lead	251	Single offset ring spanner ATEX II	562
Safety set for substations with bare conductors	89	Single open ended spanner	560
Safety shoes S1P	37	Single open ended spanner ATEX II	558
Safety shoes S3CI , fully non-metallic	35	Single piece cable drum unwinder	504
Safety shoes with insulating soles up to 20 kV	37	Single use, dust proof soft cup mask	19, 20
Safety wire-grip with insulated croc clips to IP2X	398	Sledge hammer	572, 599
Saw blade	568	Slip joint pliers ATEX II	548
Scissor type snatch pulley	501	Slip joint pliers with locking button ATEX II	549
Scraper for semiconductor residues	415	Slotted screwdriver	566
Scraper with angled blade	571	Slotted screwdriver ATEX II	566
Scraper without handle	569	Slugging and fork wrench	570
Scratch brush	595	Slugging box wrench	570
Screw and socket extension box	246	Small gas operations kit	553
Screw clamp for bare MV overhead lines	337	Small intervention leather or canvas worker bag	136
Self adjusting cut and strip tool	591	Small plastic clip for insulating sheets and bands	79
Self maintenance kit	422	SMAPE device	346
Self maintenance kit for HTA 240 NG tool case	422	Soft leather gloves	34
Self maintenance kit for HTA 630 NG case	423	Soft leather tool bag for working at height	138
Self-extensible copper-coated steel rods	98	Soldering iron	586
Self-extensible stainless steel rods	98	Special «Rivaux» type grip	499
Semi-aural banded earplugs 33 dB	18	Special lead for LV measurement	396
Semi-static rope 10,5 mm	72	Special self-contained breathing apparatus	23
Semi-static rope 18 mm	496	Spiral unwrapper 0,6 - 1 mm	588
Set for industry	55	Split leather tool bag with shoulder strap	136
Set for suspension works	56	Splitter for outer sheath 50-630 mm²	408
Set for works on cradle	54	Square mallet	572
Set for works on scaffolding	55	Square shovel	587
Set for works on telecommunication network	56	Square-end or round-end shunt clip	242
Set of 10 tools in transport case	226	Stainless steel strip	594
Set of 2 bollards of access to the protected area	436	Stainless steel connector in 6 mm rod	69
Set of 2 phase separators	213	Stand for MV fuses	92
Set of 2 safety leads	396	Standard copper-coated steel rods	98
Set of 2 triangular earthing flags	360	Static rope 10,5 mm	72
Set of 25 metal drills - Ø 1 to 13 mm	583	Steel gimlet, rolled rings	584
Set of 6 insulated screwdrivers	153	Steel lockout hasps	456
Set of 6 insulated screwdrivers Rotoline Classic	152	Steel sling with thimble eye at each end	492
Set of 6 insulated screwdrivers Rotoline Classic with soft case	152	Steel strip shears	593
Set of 6 insulated screwdrivers Rotoline Turn	152	Stick access hole	93
Set of 6 insulated screwdrivers Rotoline Turn with soft case	153	Stick lifter	272
Set of 8 insulated bent male hex keys on ring clip	217	Stick lifter rod	272
Set of 8 single open ended spanners for calibration	166	Stick with Hook	263
Set of 8 tools in transport case	225	Stickers for lockout or disconnection padlocks	463
Set of 8 tools in transport case with insulating gloves and overgloves	226	Stillson pipe wrench ATEX II	549
Set of cables for short-circuiting and earthing devices	341	Storage bag for working at height	141
Set of testing accessories	399	Straight blade machete	604
Sharpenable chisel for brick	600	Straight fixed ball point	343
Sharpening steel	202, 590	Straight needle nosed pliers	588
Sheath abrading block for ROTO-TMG tool	411	Straight shackle	500
Sheath and insulation multifunction tools	411	Strap Kit for LV and MV spliced ladders	472
Sheath pliers with 3-position head	410	Strengthened artillery padlock	453
Sheathing guide	80	Stringing pulley for bare cables, with hook	502
Short extension 1/2"	192, 193	Stringing pulley for insulated LV aerial bundled connectors	503
Short extension 1/4"	188	Stripping tool «Kabifix»	592
Short extension 3/8"	180	Substation sign - Responding to an electrical accident	431
Short-circuiting and earthing device for bare LV overhead lines	322	Substitution power terminal block	83
		Support rods for current meter panels	605
		Survival blanket	112
		Suspension harness with dorsal reinforcement	61

ALPHABETICAL INDEX

Suspension safety harness	60
Switch box.....	247
Synthetic flat webbing sling	496

T

Test lead with fuse.....	394
Tactical binder	139
Tear webbing energy absorber.....	62, 63
Tear-off equipotential bonding.....	350
Telephone cable stringing pulley	501
Telescopic halogen spotlight 500 W	122
Telescopic insulating measuring stick.....	266
Telescopic probe for continuity test and no voltage detection	400
Telescopic sticks.....	256
Temporary sc and earthing device for LV flag-type lines.....	320
Temporary transportable anchoring device.....	68
Tennis type mesh with marking	435
Tensioner with strap-operated catch.....	503
Tensioning come along cable clamp.....	486
Tensioning tool	593
Tester Clamp for flat contacts	399
Tester for electricity meters	373
Tester for insulating gloves	30
TFK / TSF connections	359
Three elements rescue stick 50 kV	107
Three function MV case for non-peelable semiconductor	426
Three function MV case for peelable semiconductor	426
Three LED clip lamp.....	119
Tightening hand with insulating body.....	263
Time domain reflectometer.....	387
Tinned flat copper braid.....	96
Tinned round copper braids	96
Tirvit tensioner.....	484
Tool bag in black split leather.....	135
Toolbox with removable tray	132
Topometer	601
Torque limiter socket 3/8" (9,53 mm).....	181
Traction dynamometer	491
Traffic cones K5a-type	446
Transport cover for insulating mats	41
Trench digging shovel.....	587
Triangular earthing flag.....	361
Triangular insulating spanner 11 mm	164
Triangular quick link	70
Triple earthing clamp	339
Tripod	446
TRMS AC digital multimeter	379
Turning flag holder.....	361
Twist lock connector	70
Two wire Loop Impedance Testers	384
T-wrench 1/2" (12,7 mm) square drive ATEX II.....	556

U

Ultrasonic corona/arcing detector	392
Universal fuse handle.....	278
Universal miniature circuit-breaker lock-out (LV)	458
Universal pliers ATEX II.....	546
Universal springless grooved cam for copper cable	484
Universal stick	262
Universal stick support.....	272
Universal switch cabinet key.....	582
Unreeler with telescopic nozzle.....	588
Unwinding swivel.....	491
Unwinding trolley.....	436
Utility line location system	388

V

Visumeter for 3 phase earthing arrester	287
Voltage Absence Detector with air gap arrester	89, 90

Voltage detector 1 to 4 kV.....	299
Voltage detector 5-36 kV with compact stick	91
Voltage detector for substations and overhead lines.....	299
Voltage Detector for use on capacitive terminals.....	301
Voltage detector set.....	298
Voltage detector with integrated self-test 127 V to 90 kV	106
Voltage Limiting Device.....	357

W

Wall Bracket for Storage	359
Wall brackets for sticks.....	93
Warning sign «Work on disconnected line - High Voltage»	430
Warning sign «Work on disconnected line - Low Voltage».....	430
Welding gloves	33
Welding tent	577
Welding umbrella.....	577
Wire puller.....	489
Wire rope gripper.....	486
Wireless phase comparator.....	367, 368
Wire-pricking terminal TECHNOPIC	240
Wooden swingback stepladder	476
Work light for intervention.....	91, 124
Work platform for electricity poles.....	479
Work positioning belt	76, 77
Work positioning lanyard.....	71
Wrap-around mono-lens safety glasses	14
Wrap-around safety glasses	15
Wrecking bar	569

Y

Yellow triangular flag with no marking and no shaft	361
---	-----

NUMERICAL INDEX

DFLR	537	FC2300C	285	GS152	571	HTSMALT	361
DLT8	357	FC2300CP	284	GS153	568	HVDC	315
DM171	21	FC2310	282	GS155	569	HVGIL	52
DMCCTBTARFR	320	FC3000	365	GS157 4	572	HVGL2	52
DMCCTBTI	326	FC3000X	365	GS158	572	HYDROPIC-INT	310
DMCCTBTIX	326	FC5300	366	GS16	558		
DMTABT324FI	335	FD20-FD25	343	GS160	568	I	
DMTBT3245	322	FT211	126	GS164	571	IBPH N1 - IBPH N2	153
DMTBT	325	FT300	122	GS166	569	IBPZ N1 - IPBZ N2	154
DMTBTTR	324	FTFAK1	447	GS172	568	IC18	151
DMTPC	344	FTGAFOU	441	GS195	547	IFFM	99
DMTTP69	322	FTPICLO	439	GS20	563	INDYEVO	75
DPC/10-45	408	FTRUB	84	GS205	567	IP18	151
DR706	369	FU6X32HPC	398	GS21	562	IP18B	151
DRR1	536			GS210	566	IS18	150
DRR2	537	G		GS23	562	IS18B	150
DRV1	536	G01	32	GS26	548	IS22	202
DSP	415	G02	33	GS27	548	IS23TPC - IS23TPL	171
		G05	486	GS27V	549	IS36	172
E		G08 - G10 - G12	486	GS3100240	572	IS39	175
E06 2KGS	92, 108	G109	33	GS38	560	IS47	454
E06 6KGS	93, 108	G115N	34	GS3900470	572	IS64	170
E07 2KGS	109	G116N	34	GS4	546	IS77-IS78	201
E07 5KGS	109	G20	478	GS400	574	IS79	201
E09 9KG	110	G21	478	GS450	575	IS80C	201
E17NM	476	G22	477	GS5	547		
E20	9	G23	477	GS6	546	J	
E22E	10	G24	478	GS62	547	J100	605
E25	496	G26	479	GS63	549	JBG100BV	277
E26	496	G80	80	GS65SP	554	JC660	274
E27	492	G86	30	GS66	554	JJB30210	274
E30 - E35	492	GA25	34	GS66L	555		
E41	491	GASDETECT	23	GS67	555	K	
E46	476	GC	27	GS69C	556	K100H6	55
E52	588	GCA-41	28	GS69S	557	K200H6	55
E62	16	GDC	335	GS69T	557	K310H1A	54
E62	589	GDDTORS	323	GS7	558	K37218188	472
E64	588	GFE-TMG	410	GS71	555	K37238373	472
EASYLOC	388	GLB	26	GS72	556	K400H4	54
EASYUP	73	GRI	415	GS7E	558	K500H1A	56
ECBT	323	GS10	546	GS8	548	K630H3	56
ECC100VATV2	302	GS100N1 - GS100N2	552	GS80	571	K7/GRATT	411
EDF M	437	GS100SE	551	GS86B	569	KH2A-AR	57
EFMT	278	GS100X	551	GS88	570	KIT TERRE PRO	385
EH705	533	GS1050	568	GS95	565	KIT VECTOR	298
EH706	534	GS1060	569	GS95	565	KIT/TEST-EARTH	385
ELISOL	434	GS1070	564	GSG100	30	KITEP	320
ENSTPBT	286	GS1075	565	GSPI	553	KITPCH1000TOP	505
EPPIPE	435	GS1080	550			KITPCW5000/150	505
ERS3437	276	GS1100	564	H		KITSO-01	225
ERS03908	277	GS1110	560	H1	59	KITSO-02	225
ERTTECH	355	GS1120	561	H108	73	KITSO-03	226
EV/NPT	409	GS115	550	H108M	73	KITSO-04	226
EV150 - EV2000 - EV630	409	GS1150	561	H125D	41	KITSO-05	228
EVP	407	GS1160	563	H1A - H1AS	60	KITSO-06	229
EY322	333	GS1170	564	H2	58	KITSO-07	230
EY322NG	333	GS1180	563	H2A	59	KIT-VERIF	311
		GS1180	563	H3N	60	KLEQTP	350
F		GS1190	570	H4	57	KSAFE01-20	76
F05	438	GS120	559	H5	58		
F06	439	GS1200	570	H6	57	L	
F06 C	594	GS1250	566	H7	61	L10	605
F06-4 / F06-7	594	GS1260	567	H7 ISOL	61	L21	585
F10	439	GS130	559	H7N	62	L5500	16
F30	586	GS146	562	HMALT	345	LD1	71
F60	499	GS150	549	HTISAFE	41	LEQ	349
FC20-FC25	343	GS150C	550	HTLC4	154	LEQ35DB	350
		GS150CSP	550	HTSMALT	143		

NUMERICAL INDEX

P148.....	98			S503.....	440	SP18.....	111
P149.....	102			S504.....	440	SR.....	412
P149B.....	102			S505.....	134	SRC.....	412
P149S.....	101			S509NM.....	131	SRC-D.....	413
P15.....	493			S510.....	131	ST-100.....	130
P154.....	585			S515N.....	118	ST-80.....	129
P17.....	494			S552NM.....	127	STA2147DP.....	356
P170 8x125.....	601			S600N.....	118	STDA2147DP.....	356
P190.....	601			S67.....	445	STH-14 - STH-25.....	141
P220.....	502			S713.....	433	STH-VRP.....	138
P222.....	502			S724.....	431	STISAFE.....	41
P223.....	501			S749AL.....	432	STPI-CT.....	135
P228 - P228ST - P225.....	503			S750AL.....	431	STT-100.....	130
P230.....	504			S753ALNM.....	430	STT-80.....	129
P25.....	587			S754ALNM.....	430	SUP600 - SUP600E.....	390
P30.....	586			S80A.....	430		
P40.....	587			S80ALPAS.....	431		
P41.....	587			S81 - S72 - S73 - S74.....	432	T04.....	445
P43.....	602			S85.....	442	T104.....	139
P85.....	80			S87.....	433	T105.....	602
P97.....	591			S900SAFE - S570SAFE.....	116	T106M.....	602
PA3BTERDF.....	319			S920.....	119	T108.....	227
PA3GTI.....	331			S95.....	441	T108B1.....	227
PA4GTI.....	331			S950.....	116	T108V.....	139
PBM.....	101			SAD-25.....	140	T26.....	503
PBU.....	279			SADPI-CT.....	140	T270.....	577
PCT.....	262			SBA.....	407	T28.....	576
PDD.....	271			SBI.....	407	T31.....	576
PDL.....	502			SC2.....	454	T34.....	576
PDRE.....	501			SCH.....	413	T39.....	489
PDS.....	392			SEFRBM.....	100	T410.....	491
PDT-17.....	142			SFE ARIBASIC.....	22	T43 - T44 - T45.....	484
PE9Y.....	595			SFE ARIBOT6.....	23	T46.....	484
PENTA-POLE.....	265			SFE ARIBOT6C.....	23	T47.....	486
PENTA-POLE Compact.....	268			SFE ARIPRO.....	23	T48.....	485
PENTA-POLE measure.....	266			SFE148.....	455	T48C.....	485
PENTA-POLE R.....	267			SFE1965ZO.....	121	T48E.....	485
PERCHTELE.....	400			SFE2690ZO.....	117	T49.....	484
PG0/CIR0911.....	417			SFE420 - SFE421.....	456	T6RL1.....	152
PG3EC/2020.....	404			SFE427.....	457	T6RL2.....	153
PH700.....	532			SFE428.....	456	T702.....	339
PICOU250.....	305			SFE468L.....	462	T88F.....	494
PICOU2E.....	304			SFE48.....	461	T89.....	495
PICOU400.....	309			SFE487 - SFE488.....	460	TAG200BC.....	301
PICOUPEXP240ECE.....	306			SFE491B - SFE493B.....	459	TAG200S.....	300
PICOUPEXP300ECE.....	307			SFE5623.....	327	TAG220.....	299
PICOUPEXP350ECE.....	308			SFE9410.....	119	TAG220L.....	299
PIMT.....	340			SFE9430.....	123	TAG330.....	313
PIMT49S.....	341			SFE9435.....	124	TAG5000.....	367
PINTEL4/CIR10.....	417			SFE9440.....	123	TAG5000S.....	368
PINTEL4BT/1216.....	405			SFEKDCMGB.....	460	TAG780.....	291
PINTEL4BT/1216-1000V.....	404			SFEPT.....	505	TAPISNIT.....	312
PINTEL4BT/1216-R.....	405			SFERM3.....	351	TB02.....	141
PINTEL4BT/1216R-1000V.....	404			SFES1900.....	455	TB05 - TB10.....	79
PINTEL4PI/465.....	417			SFES2390 - SFES2391.....	458	TB11B.....	102
PMT63.....	391			SFES2392.....	458	TB11C2.....	102
PMT632.....	274			SFES2393.....	458	TB11D.....	92
PPOL.....	265			SFES2394.....	459	TB19.....	39
PPU.....	272			SFES3068MLP.....	461	TB19BT.....	39
PRE.....	260			SFES3080.....	462	TB20-TB25.....	275
PRG3/2233 - PRG4/20-2530.....	410			SFES430.....	456	TB210.....	128
PRG3/CIR20.....	418			SFES453.....	460	TB26.....	220
PT1250SB.....	270			SFES503RED.....	455	TBOB.....	39
PTT130.....	329			SFES806.....	457	TC107GB24KV.....	103
PTUM.....	269			SG.....	29	TC107GB36KV.....	103
PVI.....	301			SGM-OS.....	29	TC108.....	31
PXV.....	258			SMAPE.....	348	TC108.....	92

TC12	480	TG105 to TG122	99	TS280	224	TW6507	247
TC120	213	TG40 to TG48	28	TS28H	142	TW6508	247
TC135	80	TG55 to TG68	32	TS28V	135	TW8326	248
TC146M	385	TG73 to TG76	32	TS30	81	TW8327 - TW8328	248
TC15 - TC20	81	TK3S	89	TS338RV	222	TW8420	249
TC151P	328	TL05	214	TS33N	135	TW8425-14	249
TC151PM	328	TL06	93	TS38	573	TW8445	249
TC155	492	TL11	351	TS38A - TS38B	573	TW9120	251
TC158	399	TL19	14	TS48	93	TW9182	250
TC160H	499	TL20 - TL21	15	TS51B	16	TWBP4067-015	243
TC240 - TC630	416	TM05N	263	TS707 - TS711	41	TWIST90°-50/300	214
TC25 - TC30 - TC35	82	TM06	375	TS75	142		
TC4	172	TM09	385	TSAFE	76		
TC40	82	TM17	377	TT015M	94		
TC402	9	TM77	380	TT016	94		
TC41	82	TM92N	382	TT018	94		
TC42AB	17	TM94	376	TT12	383		
TC42ES	6	TME	97	TT15	127		
TC42ESCI	11	TN05 - TN10	78	TT17	127		
TC43	82	TN15	78	TT24B	384		
TC45	7	TN17	78	TT30	382		
TC47	8	TN18N	78	TT7415	273		
TC4712	8	TN200	84	TTCL	40		
TC47V2	7	T007	376	TV10	30		
TC50 - TC95 - TC150	416	TP05A	15	TW2010	240		
TC51N	38	TP05B	14	TW2134 - TW2135	240		
TC52	38	TP05B3	14	TW2136 - TW2137	241		
TC53	273	TP10	494	TW2162	241		
TC56	220	TP105	79	TW2164	241		
TC58	581	TP11	495	TW2165	242		
TC69 - TC70	174	TP115	80	TW2167	242		
TC71	174	TP12	107	TW2168	242		
TC72	174	TP13C	90	TW2170	242		
TC73	174	TP13CS	91	TW2350	243		
TC74	581	TP13P - TP13T	89	TW2350F	243		
TC75	164	TP2300	289	TW2350-IEC-300-#	251		
TC76N	167	TP25	263	TW2351	244		
TC77	175	TP26	263	TW2351F	243		
TC78	175	TP30	262	TW2380	238		
TC79	175	TP31ST2	107	TW2381	238		
TCD2000	416	TP51	399	TW2382	238		
TD09	573	TP54N	381	TW2383	238		
TD10	481	TP55N	381	TW2384	239		
TD386	345	TP57	386	TW2385	239		
TDP536 - TDP572	90	TP60P	79	TW2386	239		
TDPESEC	106	TP60PS	79	TW2387	239		
TDR1000/3P	388	TP71	605	TW2388	240		
TDR2000/3P	387	TP72	214	TW2392	244		
TDR900	387	TP73	479	TW2393	244		
TE04	213	TP75	214	TW2394	244		
TE05	213	TP90	503	TW2410	236		
TE08	85	TPE	96	TW2411	236		
TE14AUD - TE16AUD	469	TPEPVC	95	TW2415	236		
TE17AUD - TE12AUD	466	TR - TRL - TRC	256	TW2417	237		
TE18AUD - TE20AUD	468	TR055	83	TW2418	237		
TE22AUD	467	TRE	96	TW2421	237		
TE26	327	TREPVC	95	TW2429	245		
TE30AUD	474	TRIF	341	TW2430	245		
TE32	470	TRL	418	TW2431	245		
TE33AUD	473	TS05	81	TW2531	246		
TE40 - TE45 - TE50	497	TS10	31	TW2532	246		
TE41AUD	475	TS10T	31	TW2540 - TW2541	246		
TE60	220	TS20 - TS21	82	TW4035	234		
TE61	476	TS26	81	TW4050	235		
TE-FR100	370	TS26	141	TW4120 series	235		
TFK / TSF connections	359	TS270	223	TW4130	235		
TG05	33	TS27V - TS27TV	136	TW6506	247		

U

UFH	278
ULD-40	392
UNITAG	292
USB14X200	457

V

V042	498
V10	584
V148	231
V16	498
V50	584
V658	227
VECTOR	297
VES25	105
VES250B - VES360B	106
VES36	105
VETPLUIE	53
VISUHTA	287
VLE	219
VPEJ - VPEV	53

W

W30V	371
------	-----

X

XC25	512
XC40	512
XC55	513
XC85	513
XE9	435
XE9060	436
XE9062	438
XE9063B	436
XE9066	437
XE9067	437
XE9068	436
XE9070	440
XE9072C	435
XE9075P	439
XE9076	436
XE9105	435
XE9107	438
XE9109	359
XP130	525
XP130	525
XPH250	525
XPH450	526
XPU250	526

GENERAL TERMS OF SALE AND PROVISION OF SERVICES [EXTRACTS]

(Updated 01/09/2013)

3- ORDERS

Any order, to be taken into consideration, must be placed in writing or by any equivalent technological means providing proof of the contractual agreement. It must contain the following items: the term «order form», the date and place of delivery requested, information necessary for invoicing, European VAT number where applicable, item number and description of the product or service, as well as the quantity and order unit of the product.

The order received is valid only after its express acceptance by the Supplier, in the form of an order acknowledgment sent to the Purchaser for the said order, by post, e-mail or any other equivalent process. Any order received may only be changed or cancelled with the express agreement of the Supplier. Such changes or cancellation must be notified in writing with acknowledgment of receipt before the goods are shipped or the performance of the service begun.

As of these dates, any order is deemed firm and final.

In the event of a cancellation accepted by the Supplier, the cancellation may lead to the payment to the Supplier of compensation to cover costs already incurred for the execution of the said order and the loss of earnings.

The Supplier reserves the right to make any modifications to the layout, form, dimensions or materials of its products, of which images and descriptions are contained in its printed literature or internet site for advertising purposes.

4- EXECUTION – DELIVERY - TRANSFER OF RISKS

Unless agreed otherwise in the order acknowledgment, the goods will be delivered to the Supplier's warehouse, and the services are performed on the Supplier's premises.

Unless agreed otherwise the costs relating to the delivery of the goods and the performance of the service are payable by the Purchaser.

The risks of loss or damage of the goods are transferred to the Purchaser as soon as they are shipped or picked up from the Supplier's warehouses.

For sales abroad, the conditions of sale and transfer of risks will be those of the Incoterm stated in the contract or in the order acknowledgment, according to the most recent version of the CCI Incoterms in force at the time of making the offer.

Delivery times and lead times for the performance of the service are given purely for guidance and shall not constitute an essential condition of the agreement between the parties.

Delays in the delivery of the goods or the performance of the service give no right to withhold payment or claim any damages whatever.

The date indicated furthermore shall be suspended as of right in the event of any case of force majeure or one of the events listed in Article 13.

The Supplier may not be held liable for the consequences of any delays in the shipment time, said obligation being incumbent exclusively upon the carrier.

In any event, the delivery of the goods or the performance of the service will only take place within the time specified if the Purchaser is up to date with all its obligations and in particular with the payment of the Supplier's invoices which are due.

6- PRICES

The prices of the products and services as well as the information contained in the catalogues, brochures, pricelists and website are provided for guidance only and may be modified by the Supplier at any time, in particular in the event of changes in the cost of raw materials, production factors and the exchange rate between the Supplier's and the Purchaser's currency (outside the Euro zone).

Unless stipulated otherwise in the Supplier's order confirmation, prices are quoted exclusive of tax and travelling expenses, ex works, packaging included, except for special packaging which will be the subject of a supplementary charge. Prices are quoted in Euros.

Invoices will be drawn up according to the prices in the order confirmation issued by the Supplier. For repair services, the price is the price given in the quotation.

Discounts may be granted according to the quantities negotiated or a turnover to be reached.

7- PAYMENT – DEADLINE FOR PAYMENT

Unless otherwise stipulated in the order confirmations, the goods shall be paid for by bank transfer, at the latest 30 days after the end of the month (invoice date). The Purchaser shall only be released from its obligations on receipt of the funds by the Supplier's bank.

All transactions shall begin with payment of a first instalment, namely a down payment of at least 30% before delivery or the beginning of the performance of the service.

For transactions abroad, the conditions of payment remain the same as regards the payment deadline, but payments shall either be made by SWIFT transfer to the designated bank account, or by irrevocable documentary credit confirmed by a bank of the Supplier's choice.

Orders whose payment is to be made by means of a documentary credit or guaranteed by a stand-by letter or credit or other security, such as a bond or guarantee, shall only be settled on receipt of the notification of the opening of an operational documentary credit with no particular conditions or the issuing of a stand-by letter of credit, security or guarantee required.

With the exception of payments made prior to delivery, on receipt of the goods or before the performance of the service, no discounts shall be granted for early payment.

In the case of a payment made before delivery, on receipt of the goods or before the performance of the service, a discount of 1.5% will be granted on the tax inclusive amount of the invoice.

Any order for an amount under 150 Euros shall give rise to the invoicing of a fixed amount of 15 Euros intended to cover administrative costs.

8- LATE PAYMENT-NON-PAYMENT

8.1 Penalty clause - Late payment interest

In accordance with current legislation, any late payment, even partial, shall lead as of right to the application of late payment penalties, which become due the day after the due date stated on the invoice and until full payment is made of the entire amount, without any formal warning being necessary.

The rate of these late payment penalties is equal to the interest rate applied by the European Central Bank to its most recent refinancing operation plus 10 percentage points.

8.2 Covering compensation

In accordance with current legislation, a compensation of 40€ will be invoiced by the Supplier in case of late payment on every invoice and will be added to late payment penalties.

8.3 Acceleration clause

Non-payment on a contractually fixed due date shall lead as of right to all other invoices issued but not yet due becoming due immediately, even if they are the subject of accepted bills.

8.4 Conditions precedent and resolatory clauses

In the event of the failure to make a single payment on the due date, the Supplier reserves the right to suspend all undelivered order, even to cancel them, with 48 hours of receiving a registered letter left unheeded, whilst retaining any part payments already made.

Should the Purchaser fail to fulfil its obligations, the contract shall be terminated automatically in favour of the Supplier, without prejudice to any damages it may be able to claim from the Purchaser.

In the case of orders to be paid by documentary credit, no deliveries or performance of services shall take place until the Supplier is notified of the opening of the credit.

10- RETENTION OF TITLE CLAUSE

The products delivered or made available and mentioned in the order acknowledgment shall remain the Supplier's property until full payment of their price, principal and ancillary items, the risk of loss and any liability or any other risk being transferred to the Purchaser as of shipping or collection of the products and for sales abroad in accordance with the Incoterm agreed.

The Purchaser therefore undertakes to take out an insurance policy covering the risks of loss, theft or destruction of the products.

Until full payment is made, the Purchaser must ensure that the products are stored in good conditions and in such a way as to ensure that they can be clearly identified as products belonging to the Supplier.

The Purchaser shall take all useful measures to protect the Supplier's rights over the products concerned by this retention of title clause and to inform the Supplier as promptly as possible of any claim by any third party relating to these products.

Should the Purchaser fail to pay all or a part of the price on the due date, the Supplier expressly reserves the right to take back the goods, which the Purchaser will then be obliged to return to the Supplier, at its own expense and risk on the latter's first request.

In the event of any claim, the down payments already made shall be retained by the Supplier in return for the enjoyment of the products from which the Purchaser has benefitted.

The Purchaser is authorised, as part of the normal operation of its business, to re-sell the goods supplied. However, it must not pledge them, or transfer their ownership by way of security.

In the event of re-sale, the Purchaser undertakes to pay immediately to the Supplier the part of the price still outstanding or to inform the Supplier immediately so that it may exercise its claim to the price with the third party which has purchased the goods and the Purchaser undertakes to inform the sub-purchaser that the goods sold are subject to the application of a retention of title clause.

The authorisation to re-sell goods is automatically withdrawn if the Purchaser is in receivership or compulsory liquidation.

Where appropriate, the foreign Purchaser undertakes to carry out the formalities necessary to the validity of this clause as they are applied in its State (registration, etc).

12- WARRANTY

Our products are guaranteed against all material or manufacturing defects for a period of 12 months as from the date of delivery of the products or the performance of the services, in accordance with the warranty certificate that may be enclosed with the products. Interventions under the warranty shall not have the effect of extending its duration.

Under this warranty, the Supplier's sole obligation shall be, at its discretion, to replace or repair the product or component acknowledged as defective by the Supplier. Unless expressly agreed otherwise, any carriage costs shall be borne by the Purchaser.

This warranty shall not cover the following defects:

- defects due to negligence on the part of the Purchaser in handling, storing or installing the products without complying with the seller's specifications and instructions and/or the rules of use

- defect resulting from the repair or modification of the products by the Purchaser or by any third party without the prior written agreement of the Supplier;

On top of this 12-month contractual warranty, a warranty extension may expressly be taken out by the Purchaser, which will be the subject of a separate agreement.

15-JURISDICTION AND APPLICABLE LAW

In the event of any dispute, if no amicable solution is found within a reasonable period of time, the party first acting may take the matter before the relevant court. All disputes shall be subject to the exclusive jurisdiction of the Tribunal de Commerce of PARIS, even in the case of the introduction of third parties or multiple defendants, and the applicable law shall be French law.

The application of the Vienna Convention is expressly excluded by the parties, in accordance with Article 5 thereof.

16-LANGUAGE

In the event of any difficulty, only the French wording of the CGVPS shall be considered authentic.

The complete version of the GTSPS is available on the website of the Supplier.

SFE International

SAS locataire-gérante with capital of 400 000 €

815 B Chemin du Razas – ZI Les Plaines – 26780 MALATVERNE FRANCE

Tel : + 33.(0)4.75.90.58.00 - Fax : +33(0)4.75.90.58.39

E-mail : export@sf-electric.com

Website : www.sf-electric.com

RCS ROMANS TC 815 283 700 – N° SIRET 815 283 700 00012

European VAT n° FR89 815 283 700

Legal liability insurance policy no. RC n° 119.114.181

MMA – 2 rue Sainte Catherine BP 1277 – 68055 MULHOUSE CEDEX

Because
every detail
counts...
...your safety
is our
priority



SFE International

815B Chemin du Razas - ZI les Plaines
26780 MALATAVERNE - France
Phone : +33 475 905 800
Fax : +33 475 905 839
E-mail : export@sf-electric.com

www.sf-electric.com