



SUBSTATION EQUIPMENT



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Substation equipment

Type of network: LV MV HV

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 il 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 pour 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

T548

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

Earth circuits

Type of network: LV  MV  HV 

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



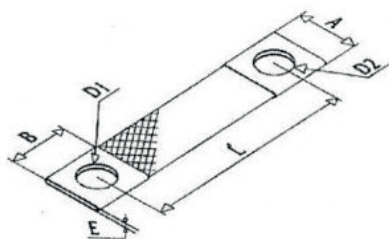
Earth circuits

Type of network: LV MV HV



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



Earth circuits

Type of network: LV MV HV

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

Earth circuits

Type of network: LV  MV  HV 

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

P1495

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.

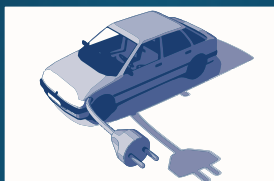




ASSISTANCE TO PEOPLE IN PRESENCE OF ELECTRICAL HAZARDS



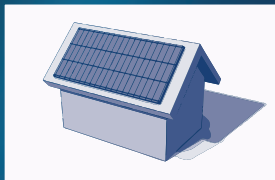
Road accidents



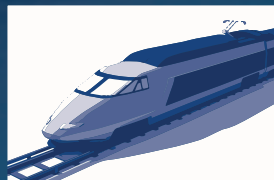
Electric and hybrid cars



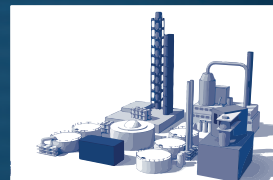
Cable removal



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

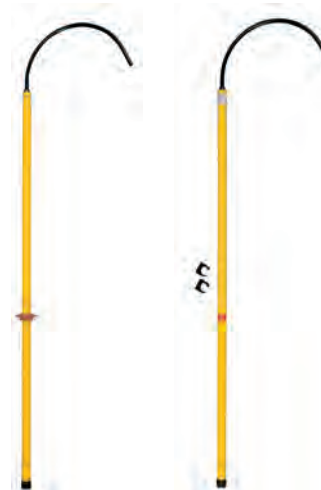
Use: Stick for rescuing an injured technician (electrocution, dizziness...), working on category 1, 2 and 3 substations. It is used to grasp the injured person by the waist and bring him back to a protected area.

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 RESCUE 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 also 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 - I/B - 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 - I/B - 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

A

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