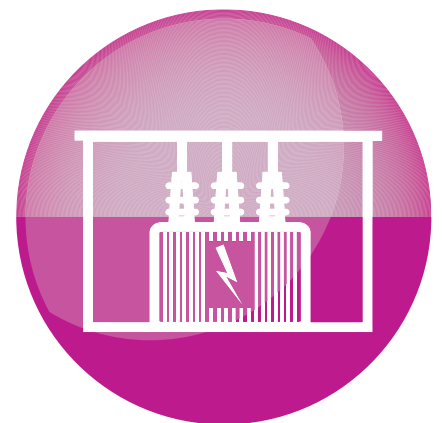




WWW.CABLEJOINTS.CO.UK  
THORNE & DERRICK UK  
TEL 0044 191 490 1547 FAX 0044 477 5371  
TEL 0044 117 977 4647 FAX 0044 977 5582  
WWW.THORNEANDDERRICK.CO.UK

# MV Substation equipment

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Substation equipment	101
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Voltage detectors	103
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# Safety Equipment

Keep your substations in compliance

## Special regulatory signaling

The standard recommends the following signaling in substations:

- A substation poster,
- Two posters about what to do in the event of an indoor or outdoor electrical emergency,
- A poster displays the service rules.

All of these posters comes in kits that were specially designed by CATU to get your substations in compliance.



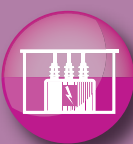
## Safety Equipment

The standard recommends the following service equipment:

- An insulating platform or an insulated mat,
- A rescue pole,
- A pair of insulating gloves adjusted to the sub-station's rated voltage,
- A voltage detector (see below for information)
- A grounding and short circuit device (see below for information)
- A glove box,
- A fuse holder.

CATU has assembled all of the service equipment into kits to simplify your selection and to bring your facilities into compliance right away. This equipment must include a suitable voltage detector.





## Intervention kits

Reference	Characteristics
<b>KIT-01</b>	Intervention kit with insulating platform
<b>KIT-02</b>	Intervention kit with insulating platform
<b>KIT-10</b>	Intervention kit with insulating mat delivered with a protective P.V.C. container

Reference				Characteristics		mm
KIT-01	KIT-02	KIT-10	Composition of kits			
•	–	•	<b>CG-30-C</b>	Insulating rubber gloves Classe III	26 500 V max	Size C (10)
–	•	–	<b>CG-40-C</b>	Insulating rubber gloves Classe IV	36 000 V max	Size C (10)
•	•	•	<b>CG-35/2 *</b>	Rubber gloves box	–	60 x 210 x 460
•	•	•	<b>CI-23 *</b>	Fuse holder	Ø maxi 85 mm	90 x 240 x 260
•	•	•	<b>CS-45 **</b>	Rescue stick	45 000 V max	Long. 1.65 m
•	•	•	<b>CI-06-D</b>	Wall mounted supports	Delivered with <b>CS-45</b>	–
•	•	–	<b>CT-7-25/1</b>	Insulating platform	24 000 V max	500 x 500 x 220
–	–	–	<b>CT-7-40/1</b>	Insulating platform	40 000 V max	500 x 500 x 220
–	•	•	<b>MP-42/16</b>	Insulating MAT <b>IEC-61111</b>	Class III - 26.5 kV	0.6 m x 1 m
–	–	•	<b>MP-20</b>	Mat storage box	–	Ø 10 cm x 1 m

\* Delivered with fixations.

\*\*Delivered with wall mounted supports **CI-06-D**.

CS-45



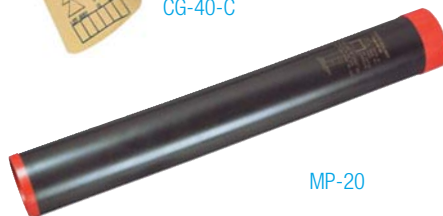
CG-35/2

CG-30-C  
CG-40-C

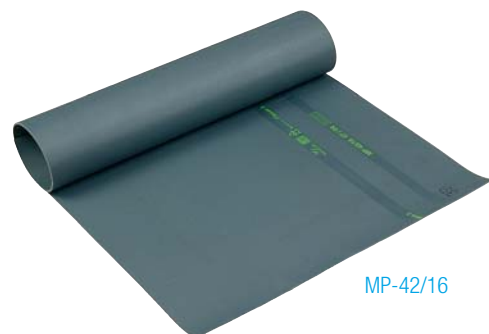
CI-23



CI-06-D

CT-7-25/1  
CT-7-40/1

MP-20



MP-42/16



The **KIT-01** is complemented by an appropriate detector:  
see pages 103, 118, and 119.

## Voltage detectors and short-circuiting systems for substations with bare conductors

IEC electronic Voltage Detectors, "Compact serie"  
for indoor and outdoor use

IEC 61243-1

CE

### Ultimate technology of voltage detector "Head Capacitive Technology"

Compact and light, it offers a wide band (10/36 kV).

#### Operating check:

By pressing the TEST button:

- a red LED flashes on
- powerful rated audible signal > 60 dB(A)/2 m
- when loosening the button, the timed green LED lights up. While remaining on, it indicates the good working order of the detector

#### Characteristics:

- Precise and stable operating threshold
- High environmental resistance (impacts, vibrations, moisture)
- Temperature conditions: class N (IEC -61243-1 standard)
- Use from 50 to 60 Hz.



## IEC Voltage detector

In compliance with IEC-61243-1.

**CC-875** high environmental resistance: impacts, vibrations, moisture.

Recommended stick **CE-4-21-C**.

Reference	Characteristic	~	mm	g
CC-875-10/36- <sup>(*)</sup>	Voltage detector in storage box	12/36 kV	390 x 90 x 90	500
CC-875-11/33- <sup>(*)</sup>	Voltage detector in storage box	11/22 kV	390 x 90 x 90	500

(\*) Specify type of mounting when ordering: C or K  
For other voltage range: contact us.



Contact electrodes fitted to the housing by screwing and easily interchangeable.

CC-875-10/36-C

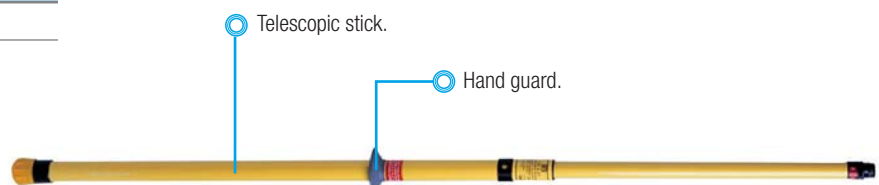
#### Voltage presence is indicated by:

red flashing LED (very bright - visible at more than 20 m in direct lighting).

## IEC Insulating stick for Voltage Detector

Stick in compliance with IEC 61235.

Reference	~	m
CE-4-21-C	90 kV	2



CE-4-21-C

mm Dimensions

mm Total length

g Weight



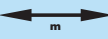

CATU™





### Voltage detector with leds for indoor use without batteries

Built-in device for checking operation of the led's indicator via a piezo-electric generator.  
High-brightness led's indicator.

Reference		 m	 m	
<b>CL-4-10/30-M *</b>	10-30 kV	—	1.35	1 000
<b>CL-4-10/30-2 **</b>	10-30 kV	0.85	1.26	950

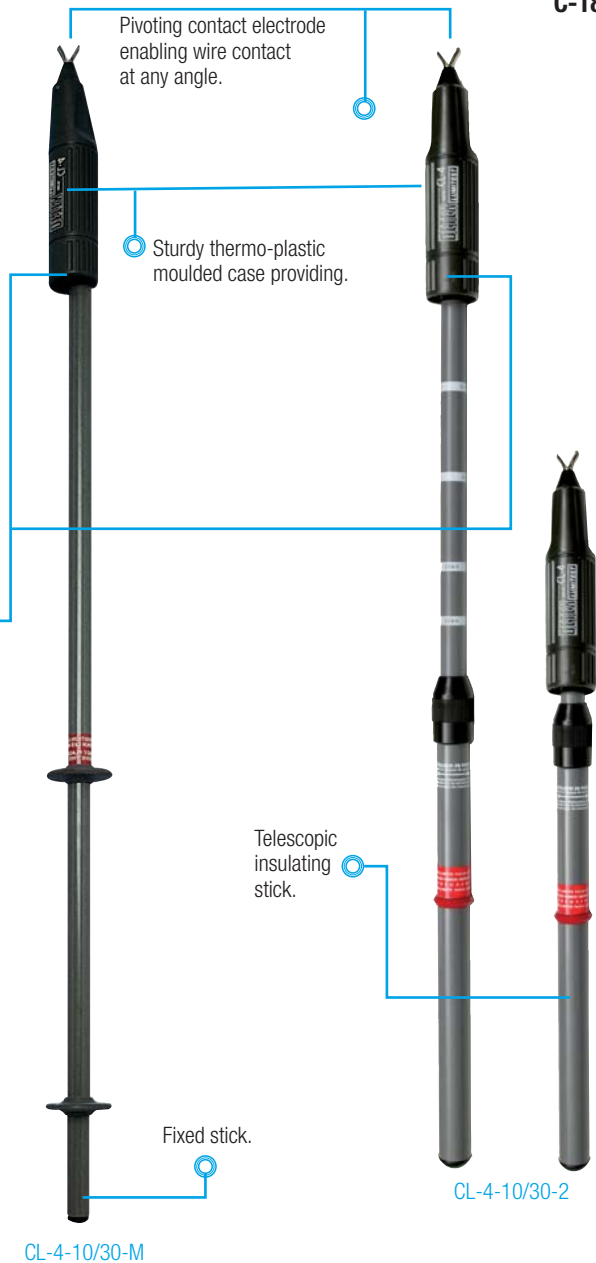
\* Delivered in vinyl sheath with wall brackets CI-06-D.

\*\* Delivered in canvas, waterproofed with ramp.




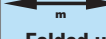


Ø 58.5 mm  
compatible  
with aperture  
housing.

C-18-311  
CE

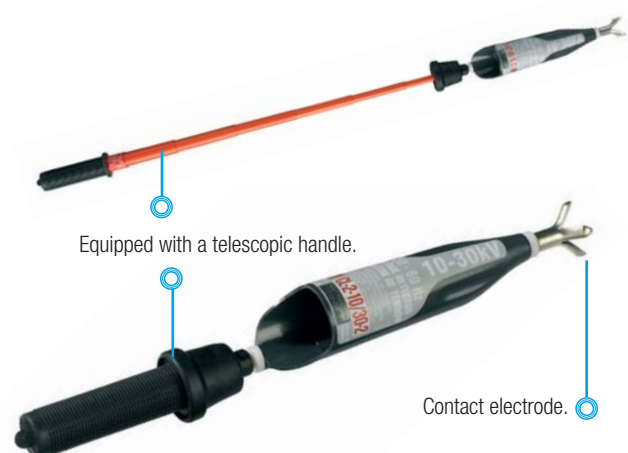


### Voltage detector with leds for indoor use (Compact serie) without batteries

For indoor use. This compact serie voltage detector is designed to be carried easily by operators. Voltage presence is indicated by a high-brightness LED's indicator. Built-in device for checking of the LED's indicator by a piezotest generator.

Reference		 m	 m	
<b>CL-2-5/36-2</b>	5-36 kV	0.33	0.9	400
<b>CL-2-10/30-2</b>	10-30 kV	0.33	0.9	400

Other models fixed or telescopic, please contact us.  
Delivered in holster.



 Total length

 Weight

**GATU™**

## Two-pole phase comparators for indoor use

The **DETEX CL-8-36** detects differences in voltage between any two points of an installation indicated by LED's. It also enables assessment of the order of magnitude of the residual voltage induced by nearby live lines or circuits, and thus differentiates it from the one provided directly from a high voltage source.

Reference		aerial		
		assembled	dismantled	
<b>CL-8-36</b>	2 to 36 kV	1.25 m	0.62 m	1 100
<b>CL-8-36/1 *</b>	2 to 36 kV	1.25 m	0.62 m	1 300

\* As CL-8-36 tester with 2 probes extenders 0.550 m.  
Câble 1.5 m for CL-8-36 and 3 m for CL-8-36/1. Delivered in plastic case.

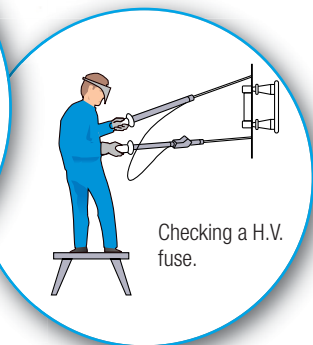
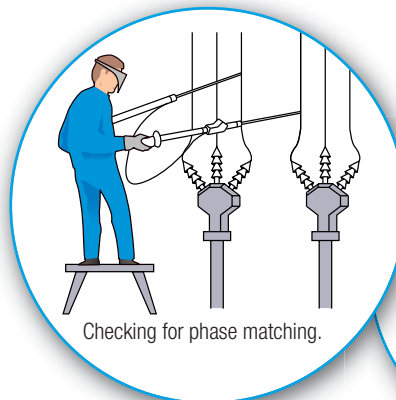
### Accessories

Reference	Characteristics
<b>C-92-20</b>	Spare probe 0.550 m
<b>CL-8-05</b>	Probe extenders 0.550 m

Two 1.25 m elements with removable probes, connected via a high-insulation lead.

High dielectric quality insulating material.

CL-8-36



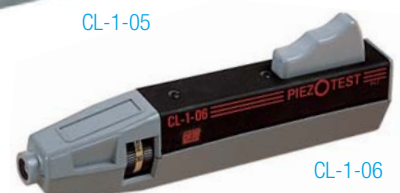
## Operating Testers

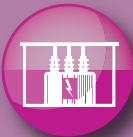
To perform mandatory testing on the controllers before and after each use

Reference	Characteristic		mm	
<b>CL-1-06</b>	Delivered in case with lead	Adjustable 10, 20, 30 kV	190 x 32 x 65	320



Unlike single-core voltage testers, dual core testers can recognize potential differences between any two points in an MV installation. Primarily reserved for conductors of the same phase (matching), they can also be used for dual core detection and for testing MV fuses.





## Two-pole phase comparator and permanent indicator

## Two-pole phase comparator for indoor and outdoor use

CE




Complete function testing: built-in, with TEST push-button (battery supplied).

Consists of two elements connected by a high-insulation lead.

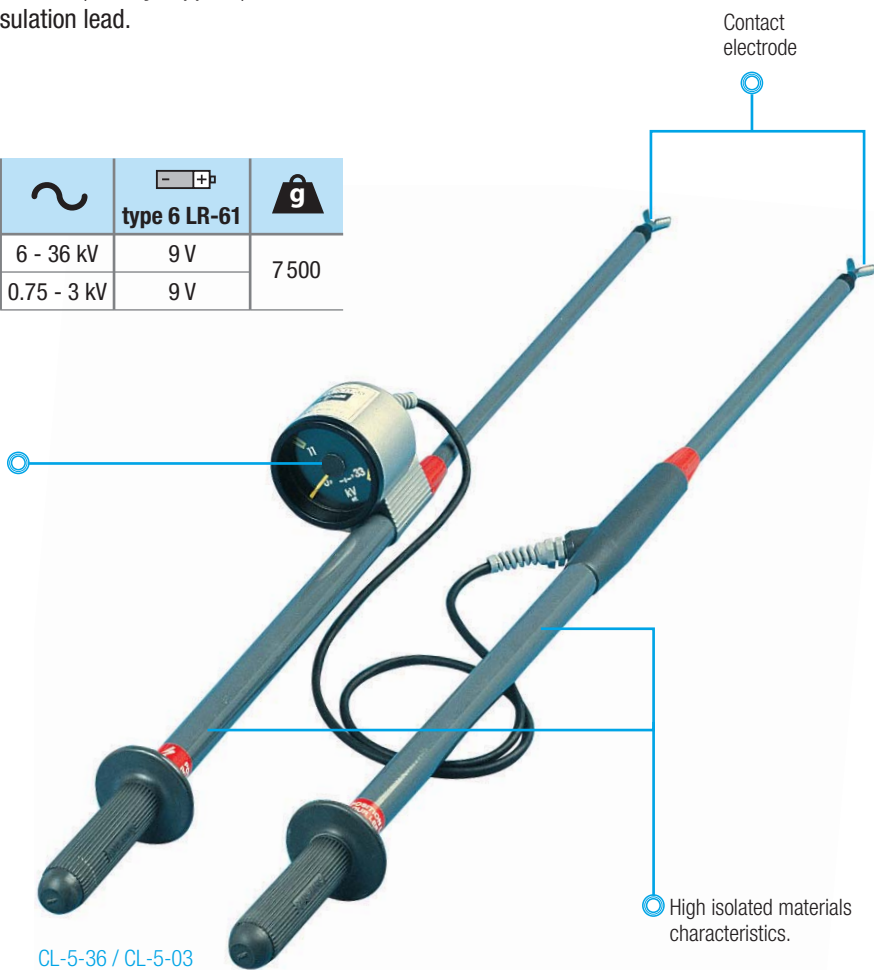
Removable handles.

Device delivered in metal case.

140 x 250 x 850 mm - 7.5 kg.

Reference	Graduation cadran (kV)		 type 6 LR-61	
CL-5-36	5 - 10 - 15 - 20 - 25 - 30 - 33 - 36	6 - 36 kV	9 V	7 500
CL-5-03	0.75 - 1 - 1.25 - 1.5 - 3	0.75 - 3 kV	9 V	

Indications provided by the galvanometer needle; dials are calibrated according to voltage.



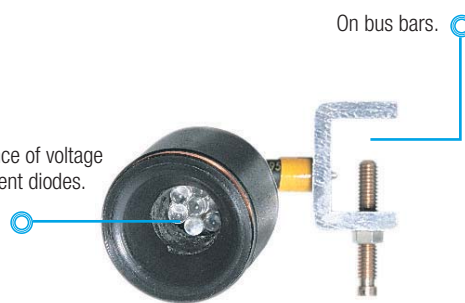
CL-5-36 / CL-5-03

## Permanent luminous indicator for indoor use

Single-pole 5 to 75 kV indicator.

Reference	
CL-40010	Sold in box of 3 units

Signaling the presence of voltage by 7 electroluminescent diodes.

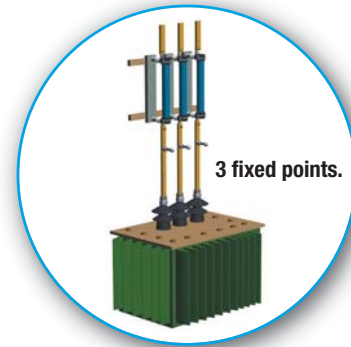


CL-40010

## IEC short-circuiting and earthing systems for MV substations

### Installation on permanent fixed points

Reference	Rating (kA/1 s)	Installation on fixed points	Composition	Connection set
MT-1910	20	Ø 20 mm MT-2951 range	3 clamps MT-1911-E 1 MT-1911	3 cables 95 mm <sup>2</sup> 1 earth cable 35 mm <sup>2</sup>
MT-1920	30	Ø 25 mm MT-3951 range	3 clamps MT-1921-E 1 MT-1921	3 cables 150 mm <sup>2</sup> 1 earth cable 50 mm <sup>2</sup>



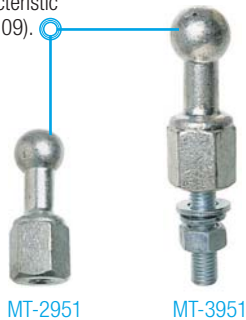
IEC-61230



### Installation on permanent fixed points

Reference	Characteristics
MT-890	Clamps 3 claws
MT-891	Earth clamp fixation
MT-893	Cable tensioner
MT-895	Cable kit support
CI-10-D	Wall mounted support
M-78665	Fixed points MT-1910 or MT-1920

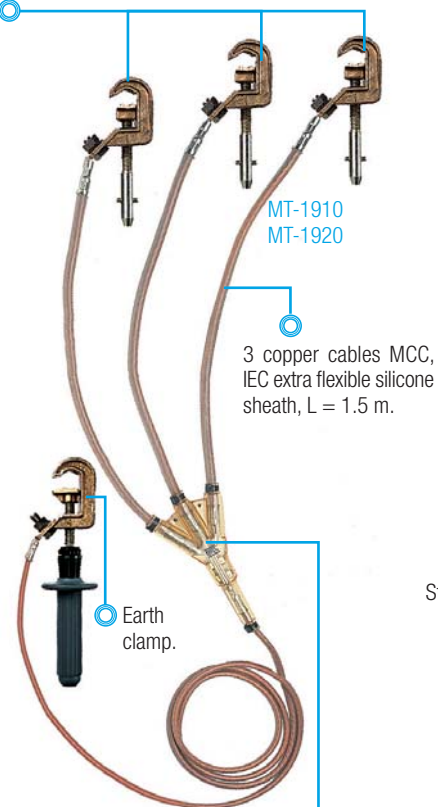
Fixed points  
(characteristic  
page 109).



Plastic case.



3 contact  
clamps.



CF-5-40-E

Stick.

### Earth clamps

Claw for "T" or round fixed points for round conductors.

Reference	Characteristic	Rating (kA/1 s)	g
MT-1911-E	Claw for "T" fixed points MT-1951... Ø 20 mm MT-2951... round fixed points Ø 8 à 18 mm	20	580
MT-1921-E	Claw for "T" fixed points MT-1951... round fixed points Ø 25 mm MT-3951... round conductors Ø 10 à 25 mm	30	690
MT-1911	Same characteristics with handle MT-1911-E	20	—
MT-1921	Same characteristics with handle MT-1921-E	30	—

Delivered with screws M 12.



MT-1911-E  
MT-1921-E



MT-1911  
MT-1921





## IEC short-circuiting and earthing systems for MV substations

### Installation on bare conductors

IEC-61230

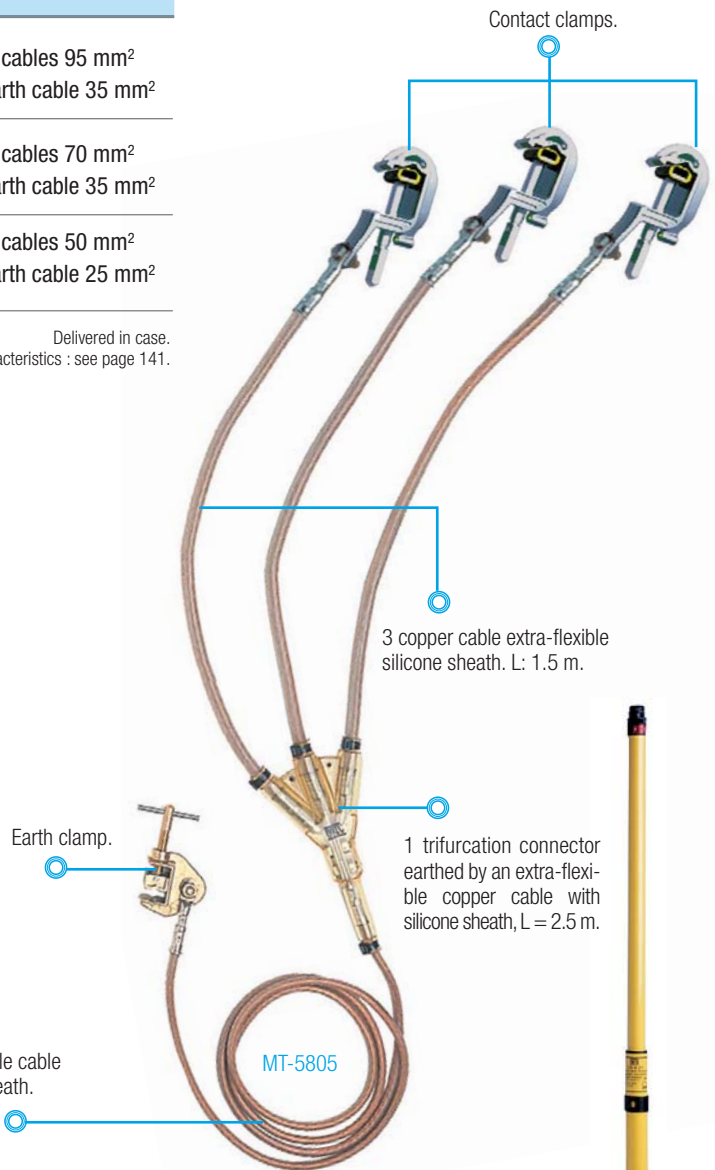
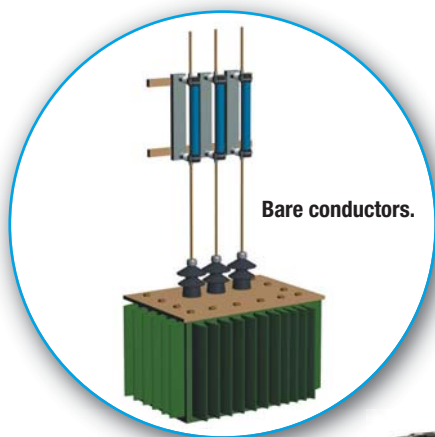


Reference	Rating (kA/1 s)	Installation on fixed points	Composition	Connection set
MT-5805	20	<ul style="list-style-type: none"> <li>• Ø 5-35</li> <li>— 16-40</li> <li>! 5-40</li> </ul>	3 clamps MT-815-C 1 MT-840/1	3 cables 95 mm <sup>2</sup> 1 earth cable 35 mm <sup>2</sup>
MT-8408	12,5	<ul style="list-style-type: none"> <li>• Ø 18-33</li> <li>— —</li> <li>! —</li> </ul>	3 clamps MT-814/3 1 MT-840/1	3 cables 70 mm <sup>2</sup> 1 earth cable 35 mm <sup>2</sup>
MT-9801	10	<ul style="list-style-type: none"> <li>• Ø 5-16</li> <li>— 0-16</li> <li>• Ø 5-28</li> </ul>	3 clamps MT-817-C 3 clamps MT-814/2 1 MT-840/1	3 cables 50 mm <sup>2</sup> 1 earth cable 25 mm <sup>2</sup>

Delivered in case.  
Clamp characteristics : see page 141.

### Installation on permanent fixed points

Reference	Characteristics
MT-890	Clamps 3 claws
MT-891	Earth clamp fixation
MT-893	Cable tensioner
MT-895	Cable kit support
CI-06-D	Wall mounted support



M-78665  
Plastic case included.

Stick to be ordered separately.

CE-4-21-C

## Clamps for installation on bare conductors

### Attachment (C-Type)

Hexagonal end-fitting. A circumferential braking system prevents the clamp from turning under the weight of the cable. Separate by simple pulling.

Earth cable connection.

With a crimped lug (12 mm Ø hole).

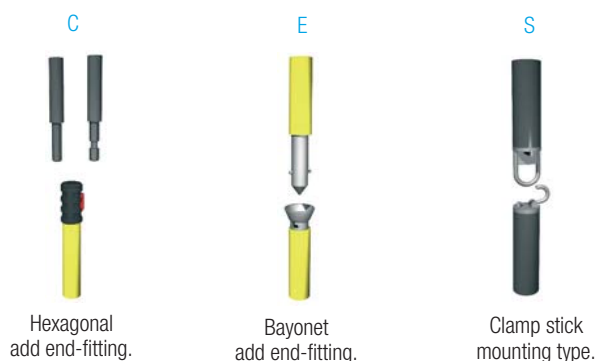
### Material

Aluminium alloy except MT-814/2 and MT-814/3: copper-aluminium bronze.



Reference	Rating (kA/1 s)	mm	mm conductor	g
MT-811-C	21	35 x 77 x 157	• Ø 5-16	330
MT-812-C	21	35 x 79 x 143	• Ø 5-16 — 0-16	320
MT-813-C	21	35 x 79 x 169	— 40 x 16	330
MT-814/2	14.5	85 x 56 x 192	• Ø 5-28	660
MT-817-C	21	30 x 90 x 140	• Ø 5-16 — 40 x 16	330
MT-814/3	14.5	85 x 56 x 195	• Ø 18-33	620
MT-815-C	30	44 x 100 x 180	• Ø 5-35	650
MT-815-E	30	44 x 100 x 180	— 16-40	650
MT-815-S	30	44 x 100 x 180	— 5-40	650
MT-815-S1	30	44 x 100 x 180		650

Recommended stick:  
CE-4-21-C / CF-5-90-E / MG-115-S.



MT-811-C



MT-812-C



MT-813-C



MT-814/2  
MT-814/3



MT-815-C



MT-817-C



MT-818-C

## Earth clamps

Copper aluminium bronze earth clamps.

Earth cable connection by connector, lug, TO- system...

Reference	Rating (kA/1 s)	mm	Connection	mm	g
MT-840	20	40 x 73 x 135	TO-08 connector 35 mm <sup>2</sup>	• Ø 6 - 25 — 0 - 25	480
MT-840/1	20	40 x 73 x 135	Thread: Ø 12.5 mm	• Ø 6 - 25 — 0 - 25	480
MT-841	20	40 x 73 x 135	Fontenay connector ≤ 50 mm <sup>2</sup>	• Ø 6 - 25 — 0 - 30	480



MT-840



MT-840/1



MT-841



## Short-circuiting and earthing systems (installations)

## NORMAFIX™ access points and clamps for placement on permanently installed fixed points

The advantages of grounding and short circuiting using permanently installed fixed points on existing conductors include:

- Using the same grounding and short circuiting equipment regardless of the conductor shape, section, or configuration
- Accessibility from variable angles
- Eliminating the risk of errors because grounding locations appear at first glance.

Reference	Rating (kA/1 s)	Sphere dimension Ø	Fixing	Conductors (mm)	g
MT-951/1	10	18 mm	Bolt: M 10 - L = 25 mm	Flat conductors	90
MT-951/2			Bolt: M 10 - L = 35 mm		100
MT-951/3			Bolt: M 10 - L = 45 mm		107
MT-952/1			Bolt: M 10 - L = 25 mm		110
MT-952/2			Bolt: M 10 - L = 35 mm		120
MT-952/3			Bolt: M 10 - L = 45 mm		130
MT-953/08			Ø 6-8	Round conductors	130
MT-953/12			Ø 10-12		185
MT-955/08			Ø 6-8		150
MT-955/12			Ø 10-12		200
MT-956			Thread: Ø 12.5 mm	Terminal fitting	75
MT-2951	20	20 mm	Bolt: M 12	-	130
MT-2951/1			Bolt: M 12 - L = 35 mm		180
MT-2951/2			Bolt: M 12 - L = 45 mm		200
MT-2950/35			Bolt: M 12 - L = 35 mm		247
MT-3951	30	25 mm	Bolt: M 12	-	240
MT-3952			Bolt: M 16		240
MT-3951/1			Bolt: M 12 - L = 45 mm		300
MT-3952/1			Bolt: M 16 - L = 45 mm		350
MT-3950/35			Bolt: M 12 - L = 35 mm		300



MT-951



MT-952



MT-953...



MT-955...



MT-956

MT-2951  
MT-3951  
MT-3952MT-2950/35  
MT-3950/35MT-2951/1  
MT-2951/2  
MT-3951/1  
MT-3952/1

## Access points

To be used with clamps type [MT-1911](#), [MT-1921](#) (see page 106).

Reference	Rating (kA/1 s)	Fixing	g
MT-1951/10	20	Bolt: M 10 - L = 35 mm	125
MT-1951/12	20	Bolt: M 12 - L = 35 mm	125

MT-1951/10  
MT-1951/12

MT-920-E




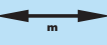

## Clamps

Reference	Rating (kA/1 s)	Fixing	g
MT-920-E	20	For fixed points Ø 20 mm	350
MT-925-E	20	For fixed points Ø 25 mm	400

## Short-circuiting and earthing systems (installations)

### Insulating sticks for substation use



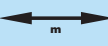

Telescopic sticks for voltage detectors and earthing systems for use in dry and wet conditions.

Reference		 mm	 m Folded	 m	 g
CE-4-21-(*)	90 kV	41/32	1.15	2	1 500
CM-7-10-A	Extension*	36	—	1	1 000
CE-75-(*)	75 kV	41/32	1.15	2	1 200

(\*) Specify type of mounting when ordering: C or K.  
Delivered with wall mounted support CI-10-D.  
\* For CE-4-21.

### Standard sticks



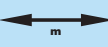

For short circuiting and earthing system.  
For use in dry conditions.

Reference		 mm	 m	 g
CE-3-72-(*)	72.5 kV	36	1.50	880
CE-3-90-(*)	90 kV	36	2	1 060

(\*) Specify type of mounting when ordering: C, K or E.  
Delivered with wall mounted support CI-10-D.

### Sticks with skirts

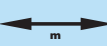

For short circuiting and earthing system.  
For use in dry conditions.

Reference		 mm	 m	 g
CF-5-40-(*)	40 kV	36	1.50	1 550
CF-5-90-(*)	90 kV	36	2	1 550

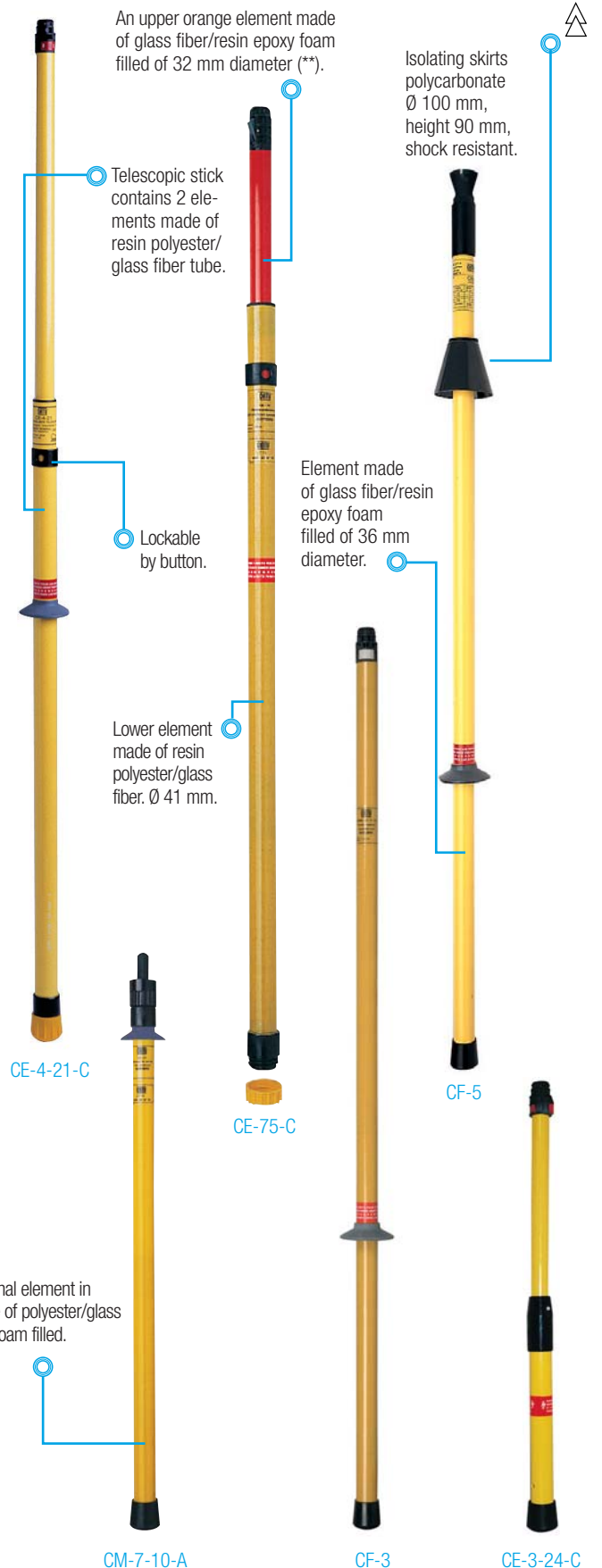
(\*) Specify type of mounting when ordering: C, K or E.

### Short length stick

For MV telescopic sticks.

Reference	 m	 g
CE-3-24-C	Insulating Length = 0.52 Overall Length = 0.80 Folded Length = 0.56	370

IEC-61235  
\*\*IEC-60855

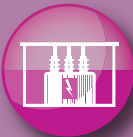


 Diameter

 Total length

 Weight

**GATU**



## VPIS and VDS systems for M.V. cubicles

We can deliver complete set with foot capacitance, head capacitance and wirings to your own specifications. Please consult us.



\* IEC 61958  
\*\* IEC-61243-5



### Integrated voltage presence indicating system (V.P.I.S)

Indicates the voltage presence on M.V. cubicles by being installed on the capacitive dividers. Voltage of use behind capacitive dividers:  $V < 1\,000\text{ V}$ . Light threshold: 90 V. Signaling: 3 neons. Attachment: male/female plugs.

Reference	Characteristics	mm	g
CL-495-3 *	Delivered complete with connector assembly	130 x 30	85



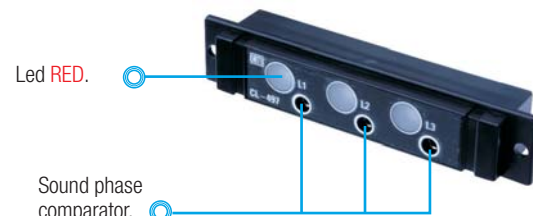
Diode.

Sound phase comparator. MX-404.

### Integrated voltage detecting system (V.D.S)

Indicates the voltage presence on M.V. cubicles by being installed on the capacitive dividers. Voltage of use behind capacitive dividers: 1 000 V (between phase and earth). Light threshold: 70/90 V. Input impedance: 36 MΩ. Signalling by 3 red diodes.

Reference	Characteristics	mm	g
CL-497-00 **	Delivered complete with connector assembly	146 x 30	90



Led RED.

Sound phase comparator.

### Sound phase comparator

The MX-404 sound phase comparator checks the concordance between 2 phases.

The comparator's operation is indicated by:

Emission of an audible signal when there is discrepancy between the two phases. Absence of an audible signal when there is no discrepancy between the two phases. Power supply: 9V type 6LR battery.

Reference	Characteristics	mm	type 6 LR-61
MX-404 **	Delivered with case	145 x 80	9 V

Discrepancy indication led GREEN.





## Interface for integrated voltage detecting system (V.D.S)

IEC-61243-5



Indicates the voltage presence on M.V cubicles by being installed on the capacitive dividers. For High impedance detecting systems Input impedance: 36/43 MΩ. Voltage indication by 4 mm standard sockets on the front of the indicator.

Reference	Characteristics	mm	g
CL-498-00	Delivered with connection set	146 x 30	90



Voltage indicator by 4 mm standard socket.

## Separable voltage detecting system (V.D.S)

This device enables to check the absence or presence of voltage on three phases (L1, L2, L3). HR high impedance. Voltage max: 1 080 V rms. 50/60 Hz. Voltage presence: red flashing LED > 1 Hz. Fits in CL-498 devices.

Reference	Characteristics	mm	type 6 LR-61
CL-499/101	Delivered in plastic bag	145 x 80	9 V



CL-499/101

Voltage detector.

## Voltage tester for M.V. separable connectors

### Voltage detectors and indicators

CE

### Voltage tester for M.V. separable connectors

Checks the absence of voltage on the capacitive terminals of plug-in M.V. bushings.

Sensor in the form of a bent finger enabling removal and reinstallation of the terminal insulating cover.

Signal via beeping and bright red flashing of electro-luminescent diodes.

Built-in function test via the "TEST" button which covers the entire device.

Permanent stand-by state.

Power supply: four 1.5 V, R-6 batteries.

Mounting on insulating stick via a universal end.

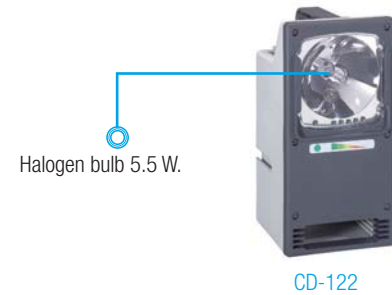
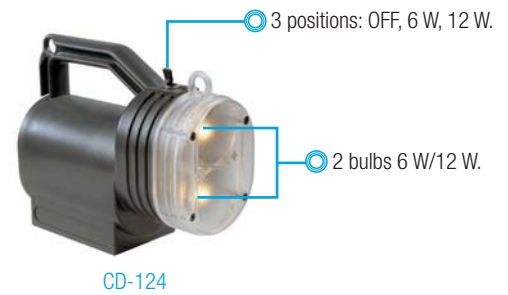
Reference	Characteristics	type LR-6	g
CC-151-K	Tester in rigid case with batteries 70 x 100 x 165 mm	4 x type LR-6	700
CC-45-K	Special 45 kV insulating stick 70 x 100 x 165 mm		600





## Safety lamps

Reference	Characteristics	mm	g
<b>CD-122</b>	Automatic switch on in case of power break Adjustable flood beam - power beam: 5.5 W Operates: 3 hours - IP40 Classe II	240 x 120 x 128	1 800
<b>CD-124</b>	Delivered with a wall mounted support. Operates: 1 hour (12 W), 2 hours (6 W) Rechargeable on 230 V 50/60 Hz	100 x 190 x 220	1 900



## Aperture Housing

Compatible with [NF C 13-100](#).

Moulded plastic. Installed outside by tightening three screws on a steel clamp.

Reference	g
<b>CI-70</b>	140

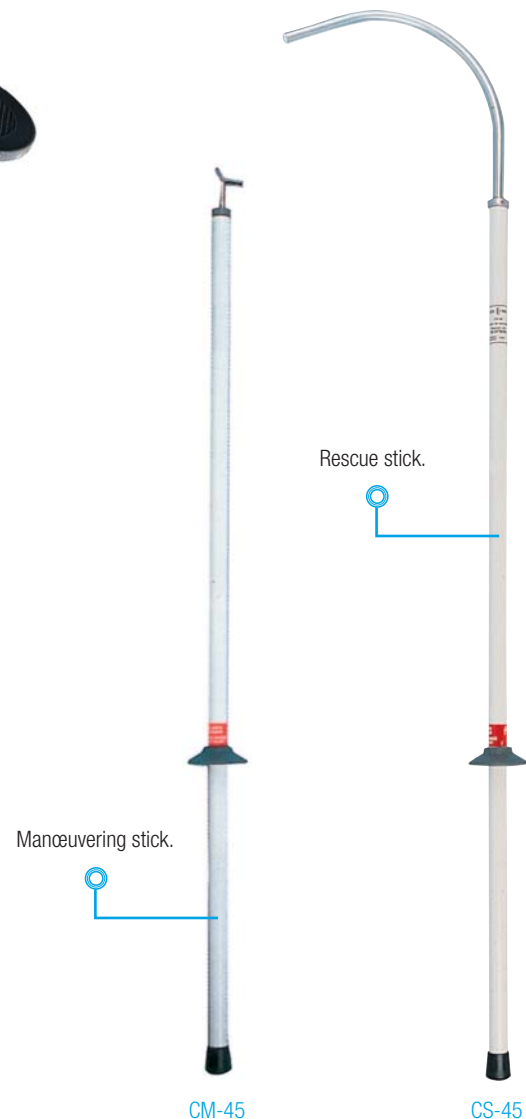


## Manœuvring and rescue sticks

White resin polyester/glass fiber foam filled tube.

Reference	~	m	g
<b>CM-45</b>	45 kV	1,50	7 500
<b>CS-45 *</b>	45 kV	2	1 000
<b>CM-90</b>	90 kV	1.85	800
<b>CS-90 *</b>	90 kV	2.05	1 100
<b>CM-225</b>	225 kV	2.25	850
<b>CS-225 *</b>	225 kV	2.45	1 350

\* Delivered with wall mounted supports.

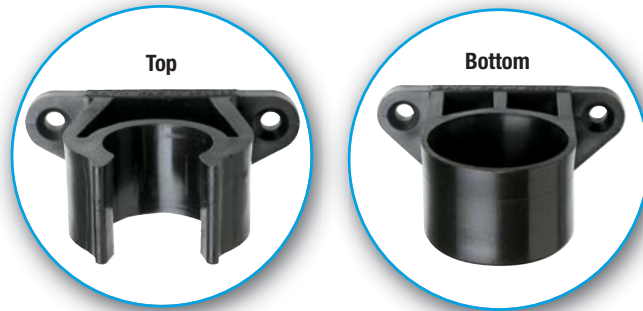


### Wall mounted supports

For sticks and voltage detectors. Plastic.

Reference	Ø Top	Ø Bottom
CI-06-D	28-30	36 max.
CI-08	16-20	36 max.
CI-10-D	32-36	58 max.

Delivered with wood screws.

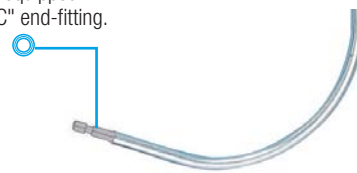


### Rescue hook

Reference	Characteristics	mm	g
CS-01-C	Adaptor C	345 x 335	350

\* Delivered with small mounted supports and 4 screws.

On stick equipped with a "C" end-fitting.



### Compact carrying KIT

This compact kit is designed especially to be carried in a vehicle for safety electrical intervention.  
Made in two part (of moulded material: PEHD), the case is also on its red part, an insulating platform.




Reference	Characteristics with instructions in English	~	mm	g
CZ-53-R	With instructions in English	25 kV	710 x 570 x 240	21 000
CZ-53-MR	With instructions in English/Arabic	25 kV	710 x 570 x 240	21 000
CZ-53-R/2	With instructions in English	36 kV	710 x 570 x 240	21 000
CZ-53-MR/2	With instructions in English/Arabic	36 kV	710 x 570 x 240	21 000





## Life saving kits for M.V. substations

Wall mounted kit.

Reference	Characteristics		 mm	 g
CZ-54-R	With instructions in English	24 kV	840 x 754 x 270	21 000
CZ-54-RM	With instructions in English/Arabic	24 kV	840 x 754 x 270	21 000
CZ-55-R	With instructions in English	36 kV	840 x 754 x 270	21 000
CZ-55-RM	With instructions in English/Arabic	36 kV	840 x 754 x 270	21 000

Voltage detector with flexible antenna contact (with autotest).

Close

Safety instructions on the plastic board.

High voltage Insulating gloves, insulating boots and talcum powder can.

Cable cutter with insulated handles. Forged steel blades. Maximum opening 30 mm.

Insulating boots.

Open

Wall mounted cabinet.

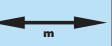

Insulating platform 24 or 36 kV.

Rescue telescopic stick.



In case of an electrical accident, quick response is essential: seconds gained or lost can decide the life or death of a victim. Our life saving equipment is designed to make all necessary materials immediately available to rescue personnel.

## Insulated cable cutter

Reference	 m	 g
CZ-60	0.630	2200

Insulated handles 25 kV.

Maxi cable : 26 mm.  
Section  $\approx 150 \text{ mm}^2$ .





# Services



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