

# Short-circuiting and earthing systems (installations)

## INSULATING STICKS FOR SUBSTATION USE

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

Reference	~	∅ mm	Folded	Unfolded length	kg
CE-3-24-C	36 kV	∅ 32/27.5	0.56 m	0.80 m	0.37
CE-75-(**)	75 kV	41/32	1.15 m	2 m	2
CE-4-21-(*)	90 kV	41/32	1.15 m	2 m	1.5
CE-4-30-C	150 kV	41/32	1.75 m	3 m	2
GM-7-10-A	Extension	36	-	1 m	1

(\*) Specify type of mounting when ordering : C, K or E.  
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Reference	~	∅ mm	Folded	Unfolded length	kg
CE-5-105-X	220 kV	63.5/27.5	1.66 m	10.75 m	5.4
CE-5-90-X	220 kV	57.5/27.5	1.61 m	9.25 m	4.2
CE-5-70-X	220 kV	52.5/27.5	1.56 m	7.8 m	3.3
CE-5-60-X	220 kV	47.5/27.5	1.51 m	6.4 m	2.5
CE-5-50-X	220 kV	42.5/27.5	1.46 m	5 m	1.9

X : Specify type of mounting when ordering.  
(K : universal ; C : hexagonal, 12 mm on flat surfaces)

### THE +

- 1 **CE-4-21-(\*) et CE-4-30-C** : Certified telescopic rod IEC 62193 (2003) and IEC 61235. Hand shield.  
**CE-75-(\*)** : Certified telescopic rod IEC 62193 (2003) and tube IEC 60855-1.  
**CE-75-C** : EDF authorisation: 18-130 B
- 2 **CE-5-(\*\*)** : Certified telescopic rod IEC 61235.

## STANDARD STICKS

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

Reference	~	∅ mm	↔	kg
CF-3-72...-(*)	72.5 kV	36	1.50 m	0.88
CF-3-90...-(*)	90 kV	36	2 m	1.06

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

## STICKS WITH SKIRTS

For short circuiting and earthing system.  
Epoxy resin / fiberglass composite tubes on foam  
Polyurethane. With polycarbonate insulating skirt ∅ 100mm,  
Height 90mm, impact resistant. Use in rain.

Reference	~	∅ mm	↔	kg
CF-5-40-(*)	40 kV	36	1.50 m	1.15
CF-5-90-(*)	90 kV	36	2 m	1.55

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

An upper orange element made of glass fiber/resin epoxy foam filled of 32 mm diameter (\*\*).

Insulating skirts polycarbonate, shock resistant.



∅ Diameter ↔ Total length □ Dimensions kg Weight

MV Substation equipment / Short-circuiting and earthing systems (installations)

**CATU**<sup>TM</sup>