

Outdoor single core termination-ELTO-1C

For polymeric cables - Slip-on termination - Modular type

C 33-001 - HD 629-1 - IEC 60502-4 - NF C 33-052-IEEE 48

elasticfit

Medium Voltage (MV)

Up to 36 kV

MV Terminations



Product Application and Design

Utilisation

- Outdoor, subject to severe climatic conditions, solar radiation and pollution.
- Terminating cables onto overhead lines or busbars.

Cables

- Single core polymeric insulation (PE, XLPE, EPR...).
- Copper or aluminium conductor.
- Semi-conducting screen either extruded or taped.
- Metallic screen of tape, wire or polylam type.
- Non-armoured or armoured (either tape or wire type).
- Insulation voltage up to 36 kV.
- Conductor sizes : 25 to 1 600 mm².

Packing

Supplied as a kit of 3 single core terminations containing all the necessary components, except the lugs (supplied on request).

Shipping weight and volume (approx):

- 12 kV	→	1.7 kg / 0.007 m ³
- 17.5 kV	→	2 kg / 0.01 m ³
- 24 kV	→	2.2 kg / 0.01 m ³
- 36 kV	→	2.7 kg / 0.012 m ³

Other products

Indoor and outdoor elastic termination (modular) for 3/C polymeric cables up to 36 kV ELT1-3C, ELTO-3C.

Indoor elastic terminations (modular) for 1/C polymeric cables up to 36 kV ELTI-IC.

Indoor elastic terminations (monobloc) for 1/C polymeric cables up to 24 kV ELTIIm-IC.

Indoor and outdoor coldshrink termination for 1/C or 3/C polymeric cables CDTI-1C, CDTO-1C, CDTI-3C, CDTO-3C.

Installation features

No need for special tools, no heating or filling.

Vertical, angled or inverted position.

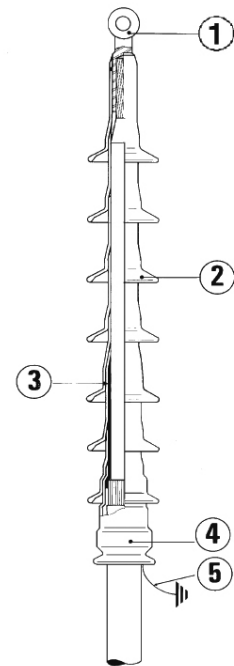
Energizing may take place immediately after completion of termination.

The different voltage levels are achieved by varying the number of sheds.

Modular components slipped over the cable using a special lubricant.

Description

- ① **Conductor lug**
Copper or aluminium. Crimped, deep indented or bolted type.
- ② **Insulation sheds**
Slip-on sheds, moulded from non-tacking silicone rubber.
For one voltage level, the number of sheds used will depend on climatic conditions (i.e. pollution, etc.).
- ③ **Stress relief tube**
Moulded elastic slip-on component. Controls the distribution of the electrical field at cable screen cutback.
- ④ **Earth cover**
Slip-on component, moulded from non-tracking silicone rubber, ensures watertight protection of the earthing device.
- ⑤ **Earthing device**
Fitted as necessary, depending on cable design (T1-T2-T3).



Selection guide

1- Select both tables below the kit model corresponding to the insulation voltage and to the conductor size.

Conductor size in mm ² (for guidance only)	Kit reference				
	Highest Voltage U _m				
	12 kv	17,5 kv	24 kv	36 kv	
25	ELTO-1C-12-A	ELTO-1C-17-B	ELTO-1C-24-B	ELTO-1C-36-C	
35			ELTO-1C-24-C		
50	ELTO-1C-12-B		ELTO-1C-24-D		ELTO-1C-36-D
70					
95	ELTO-1C-12-C	ELTO-1C-17-C	ELTO-1C-24-E	ELTO-1C-36-E	
120					
150		ELTO-1C-17-D	ELTO-1C-24-F	ELTO-1C-36-F	
185					
240	ELTO-1C-12-D	ELTO-1C-17-E	ELTO-1C-24-F	ELTO-1C-36-F	
300					
400		ELTO-1C-17-F	ELTO-1C-24-F	ELTO-1C-36-F	
500					
630	ELTO-1C-12-E	ELTO-1C-17-F	ELTO-1C-24-F	ELTO-1C-36-F	
800					
1 000					
1 300	ELTO-1C-12-E	ELTO-1C-17-F	ELTO-1C-24-F	ELTO-1C-36-F	
1 600					

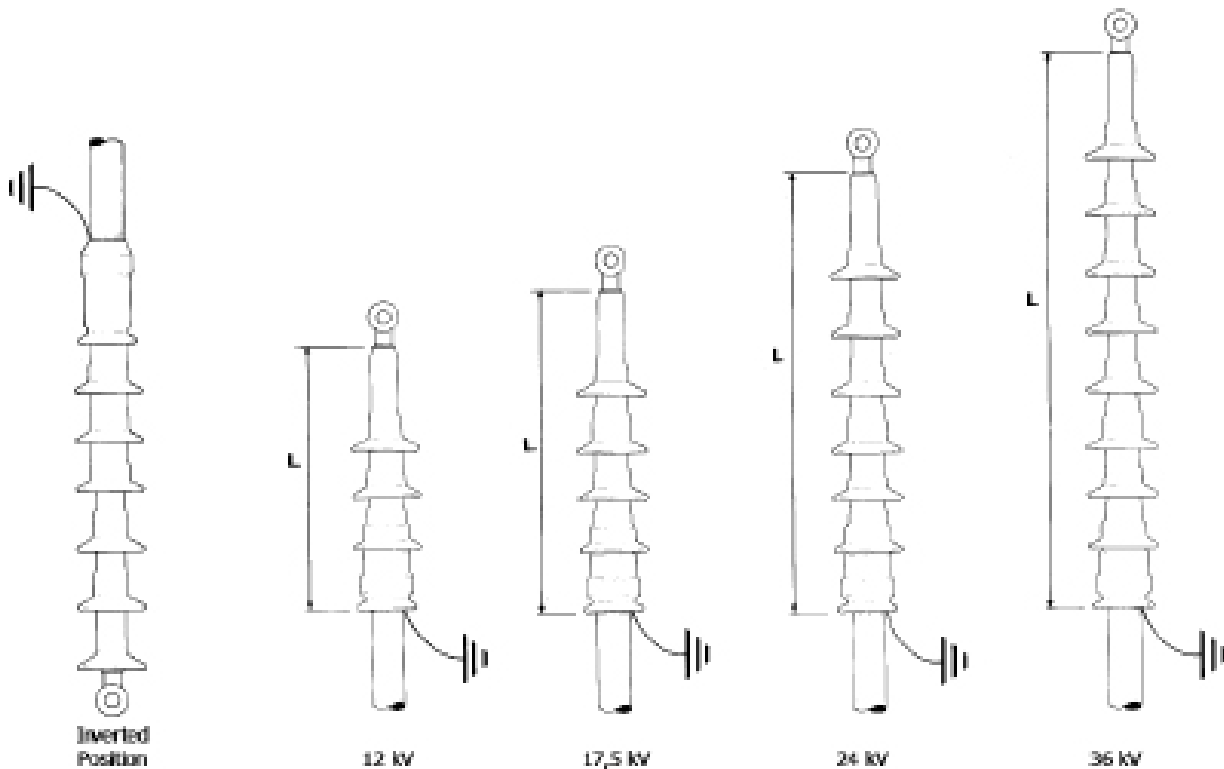
2- Select suitable earthing device in the table below.

Earthing Device Reference	Type of Metallic Screen of Cable
T1	polylam
T2	Copper tapes
T3	Copper wires

Example of order

20 kV single cable, 1x95 mm², diameter over insulation 23.5 mm, copper wire screen : **ELTO-1C-24-C-T3**.

Recommended dimensions for elastic components



Overall dimensions

Voltage U _m	12 kV	17,5 kV	24 kV	36 kV
Creepage distance mm	240	350	580	800
L mm (approx.)	350	420	540	700