

**OUTDOOR SINGLE CORE TERMINATION - ELTO-1C**

for polymeric cables - Slip-on termination - Modular type

**elasticfit****APPLICATION****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 ( $U_m$ ).
- conductor sizes : 25 to 1 600 mm<sup>2</sup>.

**STANDARDS**

Generally meets the requirements of VDE 0278 - ANSI/IEEE 48 - C 33-001 - HD 629-1 - IEC 60502-4.

**QUALITY ASSURANCE**

The Company has been assessed by third party and found in conformity with the requirements of the standard ISO 9001 - EN 29001.

**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 <sup>3</sup>
- 17.5 kV	2 kg / 0.01 m <sup>3</sup>
- 24 kV	2.2 kg / 0.01 m <sup>3</sup>
- 36 kV	2.7 kg / 0.012 m <sup>3</sup>

**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.

**OTHER PRODUCTS**

- indoor and outdoor elastic terminations (modular) for 3/C polymeric cables up to 36 kV ELTI-3C, ELTO-3C.
- indoor elastic terminations (modular) for 1/C polymeric cables up to 36 kV ELTI-1C.
- indoor elastic terminations (monobloc) for 1/C polymeric cables up to 24 kV ELTIIm-1C.

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### DESCRIPTION

- ① **Conductor lug**  
Copper or aluminium. Crimped, deep indented or bolted type.
- ② **Insulation sheds**  
Slip-on sheds moulded from non-tracking silicone 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

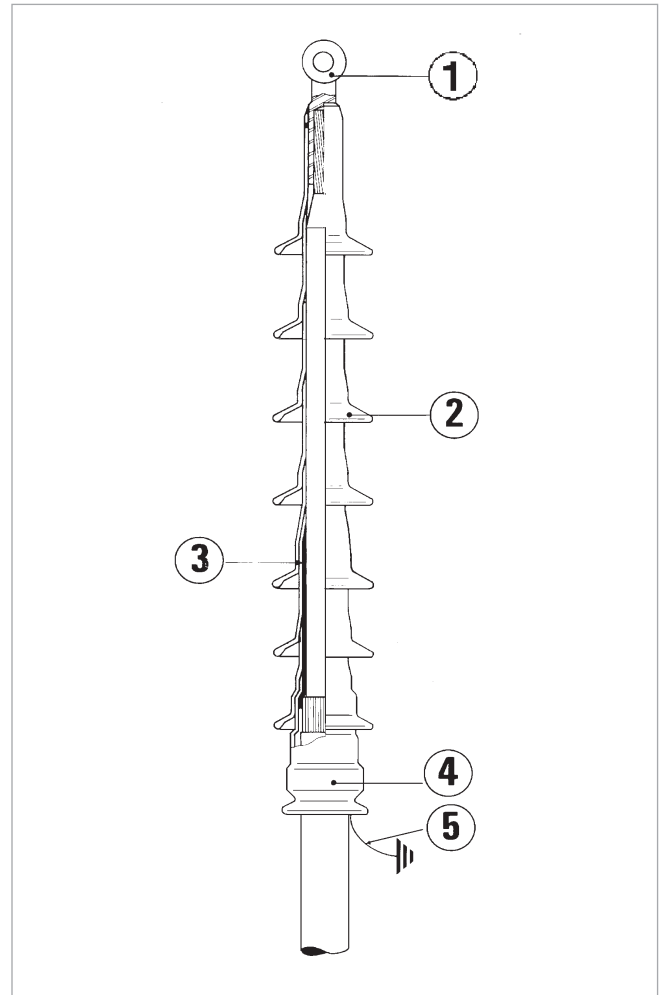
1. Select both tables below the kit model corresponding to the insulation voltage and to the conductor size.

Conductor size in mm <sup>2</sup> (*)	Kit reference			
	Highest Voltage U <sub>m</sub>			
	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-12-B		ELTO-1C-24-C	
50		ELTO-1C-12-C		
70	ELTO-1C-12-D		ELTO-1C-17-D	
95		ELTO-1C-12-E		ELTO-1C-17-E
120	ELTO-1C-12-F		ELTO-1C-17-F	
150		ELTO-1C-12-G		ELTO-1C-17-G
185	ELTO-1C-12-H		ELTO-1C-17-H	
240		ELTO-1C-12-I		ELTO-1C-17-I
300	ELTO-1C-12-J		ELTO-1C-17-J	
400		ELTO-1C-12-K		ELTO-1C-17-K
500	ELTO-1C-12-L		ELTO-1C-17-L	
630		ELTO-1C-12-M		ELTO-1C-17-M
800	ELTO-1C-12-N		ELTO-1C-17-N	
1000		ELTO-1C-12-O		ELTO-1C-17-O
1300	ELTO-1C-12-P		ELTO-1C-17-P	
1600				

(\*) for guidance only

### RECOMMENDED DIMENSIONS FOR ELASTIC COMPONENTS

Model	Diameter Over Cable Insulation	
	Min. in mm	Max. in mm
A	13	22
B	15.5	26
C	20	33
D	26	43
E	36	61
F	49.5	80



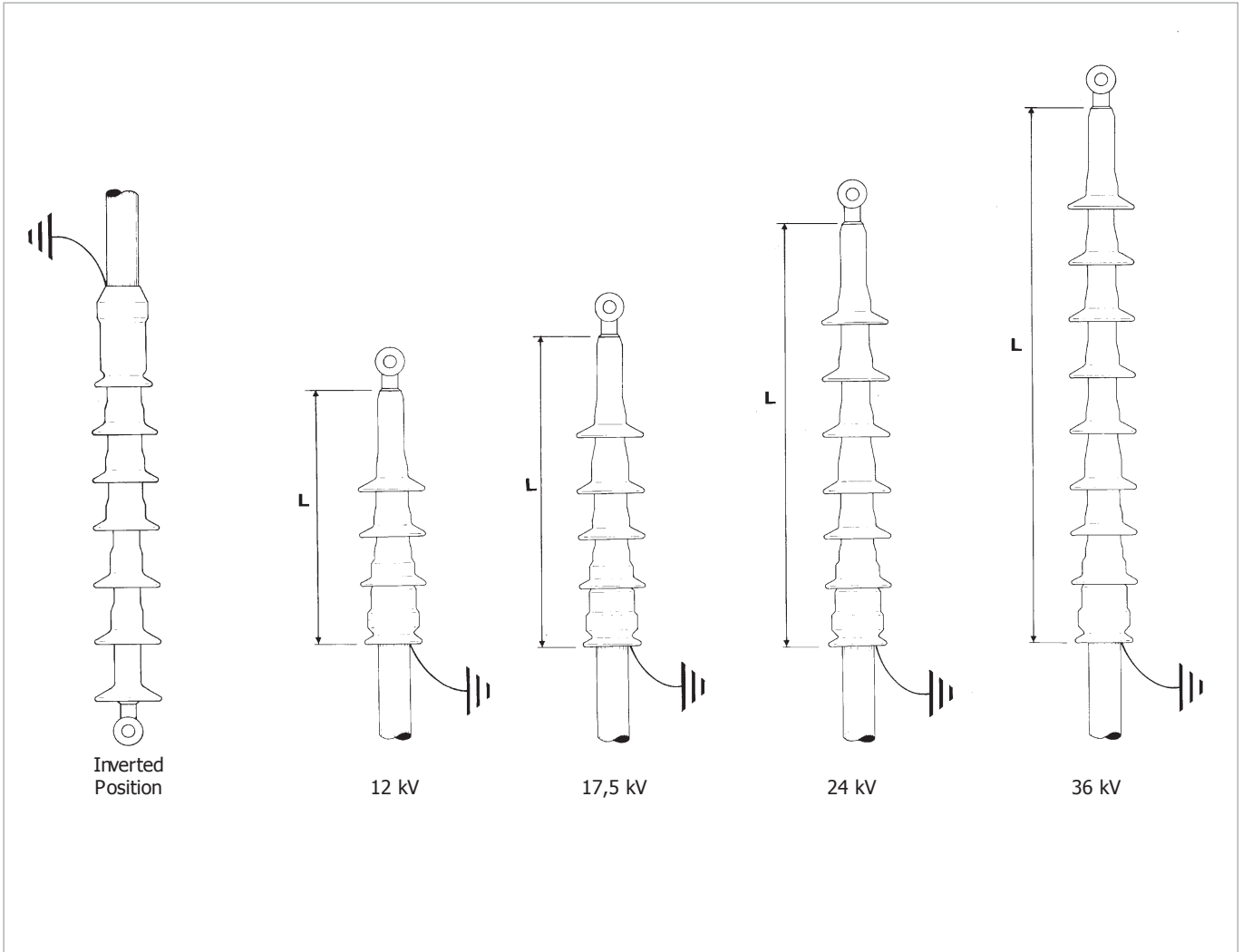
2. Select suitable earthing device in the table below.

Earthing Device Reference	Type of Metallic Screen of cable
T1	polylam
T2	copper tapes
T3	copper wires

### EXAMPLE OF ORDER

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

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**OVERALL DIMENSIONS**

Voltage $U_m$	12 kV	17.5 kV	24 kV	36 kV
Creepage distance	240 mm	350 mm	580 mm	800 mm
L mm (approx.)	350 mm	420 mm	540 mm	700 mm

IMPORTANT : before using this product, you must check if it is suitable for your intended application. You assume all risks and liability associated with such use. If any doubt, please consult us.