

## OUTDOOR THREE CORE TERMINATION - ELTO-3C

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

- three core polymeric insulation (PE, XLPE, EPR...).
- copper or aluminium conductors.
- semi-conducting screen either extruded or taped.
- metallic screen of tape or wire type.
- non-armoured or armoured (either tape or wire type)
- insulation voltage up to 36 kV ( $U_m$ ).
- conductor sizes : 25 to 400 mm<sup>2</sup>.

### STANDARDS

Generally meets the requirements of VDE 0278 - ANSI/IEEE 48 - C 33-001 - HD629-1 - 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

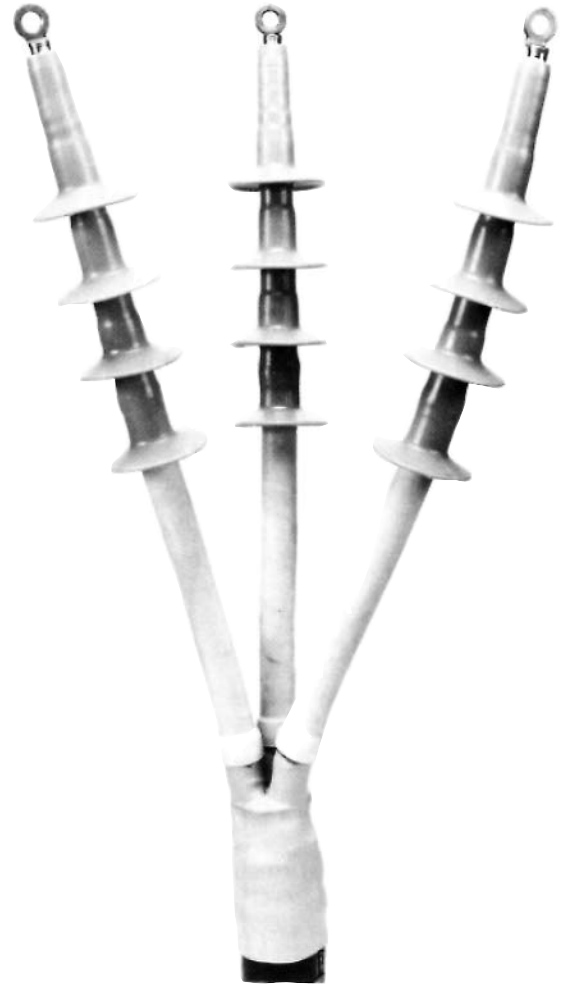
Supplied as a kit containing all the necessary components, except the lugs (supplied on request).

*Shipping weight and volume (approx) of kit :*

|           |                               |
|-----------|-------------------------------|
| - 12 kV   | 2.0 kg / 0.007 m <sup>3</sup> |
| - 17.5 kV | 2.4 kg / 0.01 m <sup>3</sup>  |
| - 24 kV   | 2.7 kg / 0.01 m <sup>3</sup>  |
| - 36 kV   | 3.3 kg / 0.012 m <sup>3</sup> |

### INSTALLATION FEATURES

- no need for special tools.
- 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 elastic terminations (monobloc) for 1/C polymeric cable up to 24 kV ELTI-1C.
- indoor elastic terminations (modular) for 3/C polymeric cables up to 36 kV ELTI-3C.
- indoor and outdoor elastic terminations (modular) for 1/C polymeric cables up to 36 kV ELTI-1C, ELTO-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 rubber.
- ③ **Stress relief tube**  
Moulded elastic slip-on component. Controls the distribution of the electrical field at the cable screen cutback.
- ④ **Sleeve**  
Elastic slip-on tube made of non-tracking silicone rubber.
- ⑤ **Break-out**  
Element providing watertight break-out of the three cores. Non-tracking.
- ⑥ **Earthing device**  
Fitted as necessary, depending on cable design (T2-T3).

**SELECTION GUIDE**

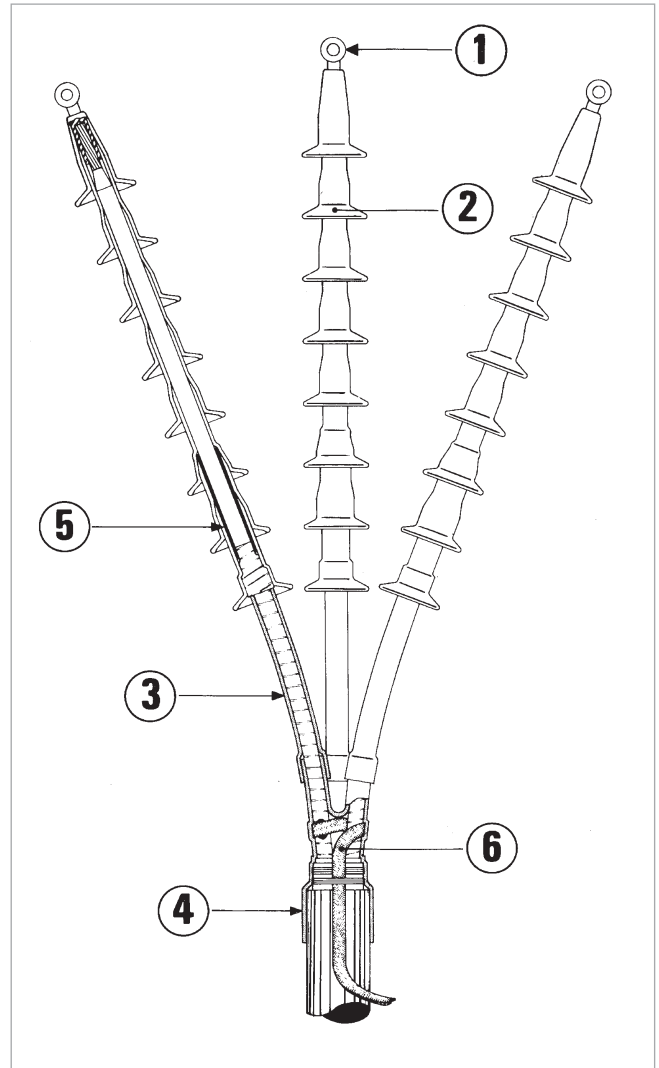
1. Select in the table opposite the kit model corresponding to the insulation voltage and to the conductor size.

| 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-3C-12-A                   | ELTO-3C-17-B | ELTO-3C-24-B | ELTO-3C-36-C |              |
| 35                                    |                                |              | ELTO-3C-24-C |              |              |
| 50                                    | ELTO-3C-12-B                   |              | ELTO-3C-17-C |              | ELTO-3C-24-D |
| 70                                    |                                |              |              |              |              |
| 95                                    | ELTO-3C-12-C                   | ELTO-3C-17-D | ELTO-3C-24-D | ELTO-3C-36-D |              |
| 120                                   |                                |              |              |              |              |
| 150                                   | ELTO-3C-12-D                   | ELTO-3C-17-D | ELTO-3C-24-D | ELTO-3C-36-D |              |
| 185                                   |                                |              |              |              |              |
| 240                                   | ELTO-3C-12-D                   | ELTO-3C-17-D | ELTO-3C-24-D | ELTO-3C-36-D |              |
| 300                                   |                                |              |              |              |              |
| 400                                   | ELTO-3C-12-D                   | ELTO-3C-17-D | ELTO-3C-24-D | ELTO-3C-36-D |              |
| 400                                   |                                |              |              |              |              |

(\*) for guidance only

**RECOMMENDED DIMENSIONS FOR ELASTIC COMPONENTS**

| Model | Diameter Over Cable Insulation |        |
|-------|--------------------------------|--------|
|       | mm Min                         | mm Max |
| A     | 13                             | 22     |
| B     | 15.5                           | 26     |
| C     | 20                             | 33     |
| D     | 26                             | 43     |



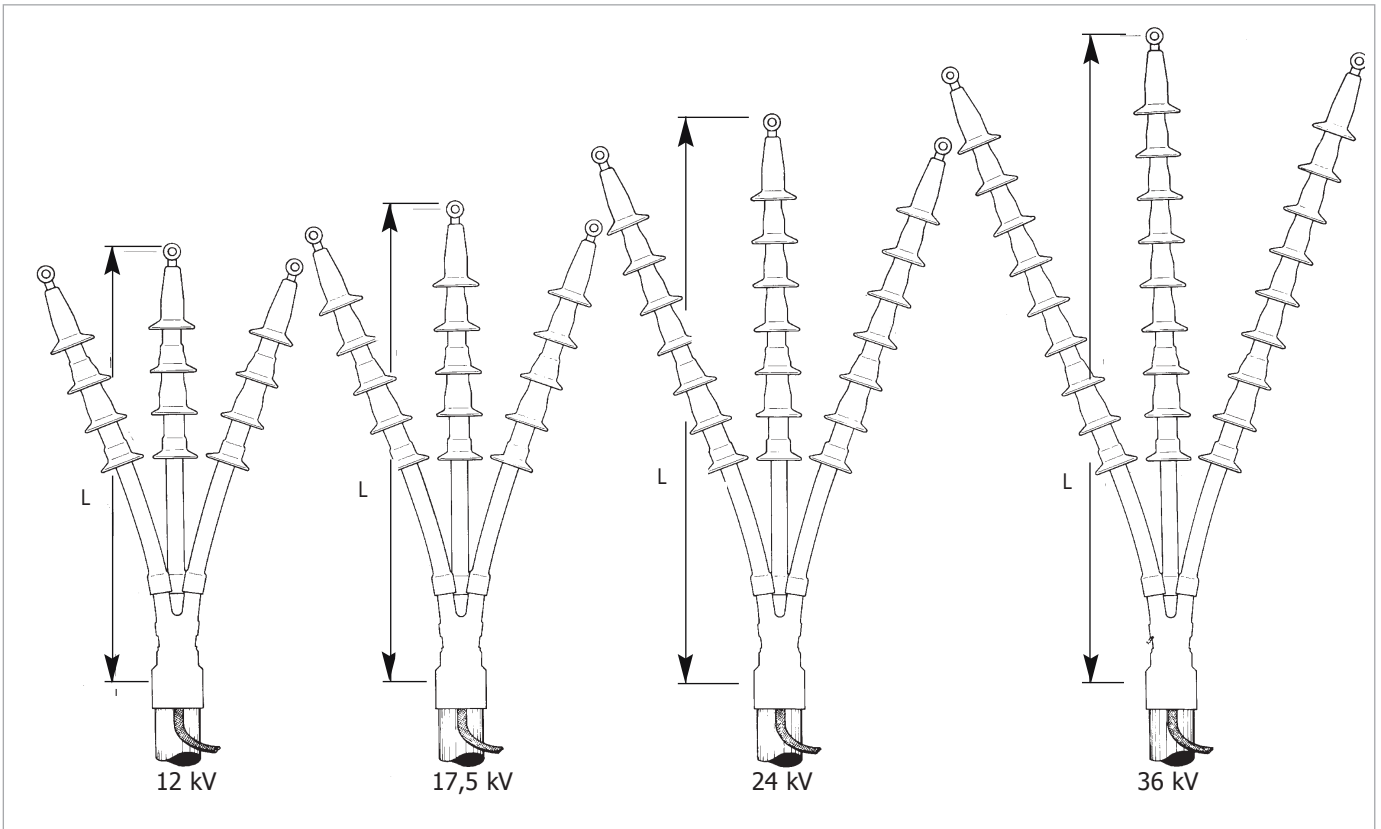
2. Select suitable earthing device :

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

**EXAMPLE OF ORDER**

20 kV, three core, 3x185 sqmm, amoured, diameter over insulation 29 mm, tape screen : **ELTO-3C-24-C-T2**

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**OVERALL DIMENSIONS**

| Voltage<br>$U_m$  | 12 kV  | 17.5 kV | 24 kV  | 36 kV    |
|-------------------|--------|---------|--------|----------|
| Creepage distance | 240 mm | 350 mm  | 580 mm | 800 mm   |
| L mm (approx.)    | 730 mm | 800 mm  | 930 mm | 1 060 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.