

INDOOR SINGLE CORE TERMINATION – CDTI-1C

For polymeric cables– Coldfit termination

coldfitREFERENCE: **CDTI-1C****UTILISATION**

- Indoor use.
- Terminating cables onto overhead lines or busbars.

CABLES

- Single core polymeric insulation (PE, XLPE, EPR ...).
- Copper or aluminium conductors.
- Semi-conducting screen either extruded or taped.
- Metallic screen of Cu wire, Cu tape or polylam type.
- Non-armoured or armoured (either tape, wire or polylam type).
- Insulation voltage up to 19/33 (36) kV.
- Conductor sizes: 25 to 630 mm².

STANDARDS

- Generally meets the requirements of CENELEC HD 629.1S2 – IEEE 48 – IEC 60502-4.

QUALITY ASSURANCE

- The company has been assessed by third party to be in conformity with the requirements of the standard ISO 9001-EN 29001 version 2000.

PACKING

- Supplied as a kit of three single termination containing all the necessary components, except the lugs (supplied on request).
- Shipping weight and volume (approx): 1.5 kg / 0.010m³.

- 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	2.5 kg / 0.01 m ³

**CDTI-1C-24-Nd-T2****INSTALLATION FEATURES**

- Coldshrink : no need for special tools, no heating or filling.
- Vertical or angled position.
- Energizing may take place immediately after completion of termination.

OTHER PRODUCTS

- Outdoor coldfit terminations for 1/C polymeric cables up to 18/30 (36) kV CDTO-1C.
- Indoor and outdoor coldshrink terminations for 3/C polymeric cables up to 36 kV CDTI-3C, CDTO-3C.

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DESCRIPTION

Rep 1 Conductor lug.

Copper or aluminium core. Mechanical lug

Rep 2 Termination body.

Coldshrink elements expanded on a removable carrier composed with:

Rep 2.1 Insulation body.

Moulded in non-tracking silicone rubber.

Rep 2.2 Stress relief tube.

Made of high permittivity material in order to control the distribution of the electrical field at the cable screen cutback.

Rep 2.3 Sealing mastic

Embedded and ensures watertightness on the lug.

Rep 3 Earth fault device

Fitted as necessary, depending on cable design (T1-T2-T3).

Rep 4 Sealing mastic

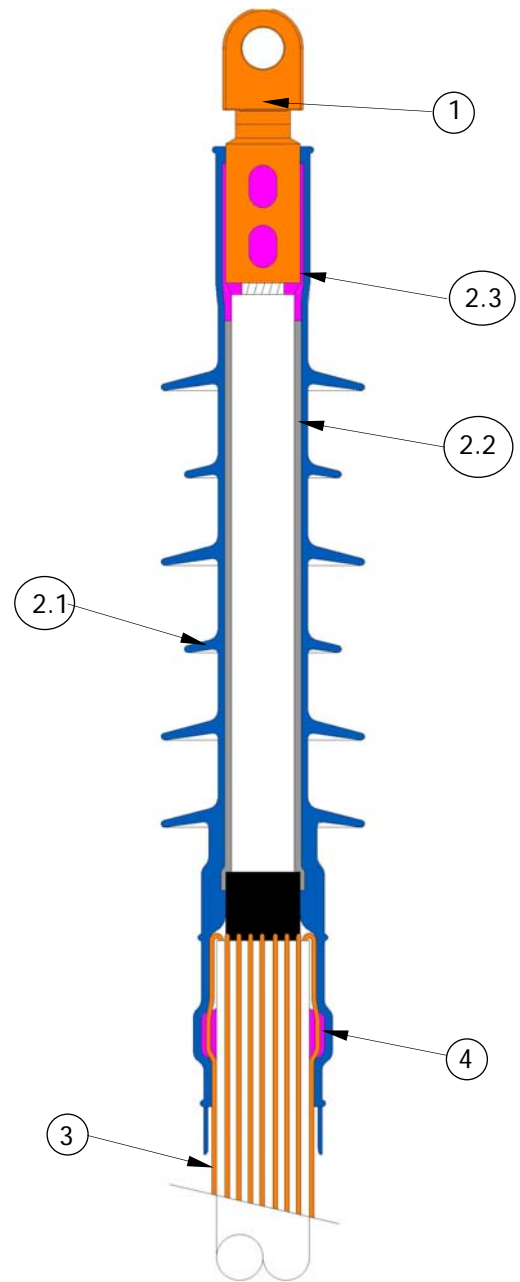
SELECTION GUIDE

1. Select in the table below the kit model corresponding to the diameter over insulation of cable.

For cables with reduced insulation thickness or other cross-sections, please contact us.

Voltage Um	Diam. Over insulation in mm		Lug Clearance in mm Max	Conductor size mm ² (for guidance only)	KIT reference
	Min.	Max.			
12 kV	14.5	25	30	35 - 150	CDTI-1C-12-A
	17	28	33	70 - 185	CDTI-1C-12-B
	19	33	38	95 - 300	CDTI-1C-12-C*
	21.5	38	43	150 - 500	CDTI-1C-12-E
	23	42	47	185 - 630	CDTI-1C-12-F*
	27.5	50	55	300 - 630	CDTI-1C-12-G
	29	53	58	400 - 630	CDTI-1C-12-H*
17.5 kV	14.5	25	30	25 - 120	CDTI-1C-17-A
	17	28	33	50 - 150	CDTI-1C-17-B
	19	33	38	95 - 240	CDTI-1C-17-C*
	21.5	38	43	150 - 400	CDTI-1C-17-E
	23	42	47	185 - 500	CDTI-1C-17-F*
	27.5	50	55	300 - 630	CDTI-1C-17-G
	29	53	58	300 - 630	CDTI-1C-17-H*
24 kV	17	28	33	25 - 120	CDTI-1C-24-B
	19	33	38	50 - 240	CDTI-1C-24-C
	21.5	38	43	95 - 300	CDTI-1C-24-E*
	23	42	47	150 - 500	CDTI-1C-24-F
	27.5	50	55	185 - 630	CDTI-1C-24-G
	29	53	58	300 - 630	CDTI-1C-24-H*
	36	65	70	500 - 1200	CDTI-1C-24-I
36 kV	21.5	38	43	25 - 185	CDTI-1C-36-E*
	23	42	47	35 - 300	CDTI-1C-36-F*
	27.5	50	55	95 - 500	CDTI-1C-36-G*
	29	53	58	120 - 630	CDTI-1C-36-H*
	36	65	70	300 - 1200	CDTI-1C-24-I*

(*) under development



2. Select suitable earthing device in the table below.

Earthing Device Reference	Type of Cable Metallic Screen
T1	polylam
T2	Copper tape
T3	Copper wires
Please contact us	Other

EXAMPLE OF ORDER

24 kV, 300mm², insulation diameter 24mm, with copper wire screen, pollution level very high (Ne) : **CDTI-1C-24-E-Ne-T3**
Cable lug could be supplied on request.




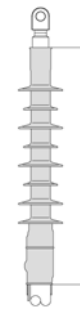
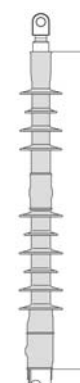
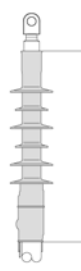


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OVERALL DIMENSIONS & POLLUTION LEVEL according to IEC60815-1 : 2008

6.35/11 (12) kV 6/10 (12) kV	8.7/15 (17.5) kV	12.7/22 (24) kV 12/20 (24) kV	19/33 (36) kV 18/30 (36) kV	
 <p>325 mm</p> <p>Minimum creepage distance 470 mm</p>	 <p>325 mm</p> <p>Minimum creepage distance 470 mm</p>	 <p>400 mm</p> <p>Minimum creepage distance 625 mm</p>	 <p>* 470 mm</p> <p>Minimum creepage distance 800 mm</p>	<p>MEDIUM 35 kV/mm (Nc)</p>
			 <p>650 mm</p> <p>Minimum creepage distance 1000 mm</p>	
	 <p>400 mm</p> <p>Minimum creepage distance 625 mm</p>	 <p>575 mm</p> <p>Minimum creepage distance 900 mm</p>	 <p>725 mm</p> <p>Minimum creepage distance 1600 mm</p>	<p>VERY HIGH 55 kV/mm (Ne)</p>

(*) Under development