

**DEADBREAK SEPARABLE CONNECTORS**



**TEE CONNECTOR - MSCT/EC-630-C**

**Description**

Separable tee connector with mechanical conductor contact. For polymeric medium voltage (MV) cables up to 19/33 (36) kV. Rating 630 A - Interface C.

**Utilisation**

- For connection to transformers, switch gear units, motors, etc.
- Indoor and outdoor installation. The connector is entirely protected by a watertight conductive envelope connected to earth.
- Continuous 630 A rms.
- Overload 900 A rms (8 hours per 24-hour period).
- Dead-break operated.
- Voltage detection through an integrated capacitive voltage divider.

**Cables**

- Single core polymeric insulation (PE, XLPE, EPR).
- Copper or aluminium conductor, solid or stranded.
- Semi-conducting screen either extruded or taped.
- Metallic screen of copper tape, copper wires or polylam type.
- Insulation voltage up to 19/33 (36) kV.
- Conductor sizes: 25 to 300 mm<sup>2</sup>.  
For cables with other sizes, please contact us.

**Standards**

Generally meets the requirements of CENELEC HD 629.1 S2, IEC 60502-4, C 33-051.

Interfaces: CENELEC EN 50180 & EN 50181.

Mechanical conductor contact: IEC 61238-1 class A.

**Packing**

Supplied as a kit of three single connectors containing all the necessary components. Shipping weight and volume (approx) of kit: 6 kg/0.013 m<sup>3</sup>.



**Other products**

- Associated products such as bushing FMB0m-400 and accessories for separable connectors 630 A, interface C.

**Installation features**

- The screen break design enables cable outer sheath testing without removing or dismantling the connector.
- No need for special tools, no heating, taping or filling.
- Vertical, angled or inverted position.
- No minimum distance between phases.
- Energizing may take place immediately after the connector is plugged on its mating bushing, dead-end plug.
- An unplugged connector must never be energized.

Technical information subject to change without notice.

All sizes and values without tolerances are reference values. Specifications are for product as supplied by Prysmian Group; any modification or alteration afterwards of product may give different result. The information contained within this document must not be copied, reprinted or reproduced in any form, either wholly or in part, without the written consent of Prysmian Group. The information is believed to be correct at the time of issue. Prysmian Group reserves the right to amend this specification without prior notice. This specification is not contractually valid unless specifically authorised by Prysmian Group.



## SELECTION GUIDE – MSCT/EC-630-C

Voltage $U_m$	Diameter over insulation (mm)		Conductor size (mm <sup>2</sup> )*		Kit reference
	Min.	Max.	Min.	Max.	
12 kV	13.0	22.3	25	120	MSCT/EC-630-C-12-rA-25/120
	16.1	26.3	95	240	MSCT/EC-630-C-12-rB-95/240
	22.7	33.0	185	300	MSCT/EC-630-C-12-rD-185/300
17 kV	13.0	22.3	25	70	MSCT/EC-630-C-17-rA-25/70
	16.1	26.3	35	120	MSCT/EC-630-C-17-rB-35/120
	20.2	30.8	95	240	MSCT/EC-630-C-17-rC-95/240
	25.6	35.3	185	300	MSCT/EC-630-C-17-rE-185/300
24 kV	16.1	26.3	25	150	MSCT/EC-630-C-24-rB-25/150
	16.1	26.3	70	150	MSCT/EC-630-C-24-rB-70/150
	20.2	30.8	95	240	MSCT/EC-630-C-24-rC-95/240
	22.7	33.0	95	240	MSCT/EC-630-C-24-rD-95/240
	25.6	35.3	185	300	MSCT/EC-630-C-24-rE-185/300
36 kV	20.2	30.8	25	95	MSCT/EC-630-C-36-rC-25/95
	22.7	33.1	35	120	MSCT/EC-630-C-36-rD-35/120
	25.6	35.3	70	240	MSCT/EC-630-C-36-rE-70/240
	30.5	40.6	150	300	MSCT/EC-630-C-36-rF-150/300

\* For guidance only.

1. Select the kit corresponding to the insulation voltage  $U_m$  in kV and to the diameter over cable insulation.
2. Select suitable earthing device.

**Example:**

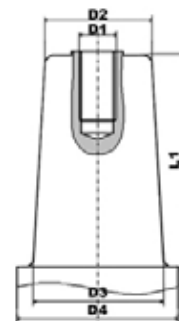
1x95 mm<sup>2</sup>, 20 kV polymeric cable, diameter over insulation 21.5 mm, with copper wire screen, aluminium conductor:  
 MSCT/EC-630-C-24-rC-T3-95/240.

EARTHING DEVICE	
Type of metallic screen of cable	Reference
Polyam	T1
Copper tape	T2
Copper wires	T3

## INTERFACE FOR SEPARABLE CONNECTORS – TYPE C1

According to CENELEC EN 50180 & EN 50181. Medium Voltage (MV)

Insulator voltage:	36 kV
Continuous current:	630 A
D1	Thread: M16, depth 29 mm
D2	Ø 46 mm
D3	Ø 56 mm
D4	Ø 70 mm
L1	90 mm
Utilisation	630 A Bolted contact 12, 24 & 36 kV



Technical information subject to change without notice.

All sizes and values without tolerances are reference values. Specifications are for product as supplied by Prysmian Group; any modification or alteration afterwards of product may give different result. The information contained within this document must not be copied, reprinted or reproduced in any form, either wholly or in part, without the written consent of Prysmian Group. The information is believed to be correct at the time of issue. Prysmian Group reserves the right to amend this specification without prior notice. This specification is not contractually valid unless specifically authorised by Prysmian Group.

