

DEADBREAK SEPARABLE CONNECTORS

STRAIGHT CONNECTOR - MSCS/EC-250-A



Description

Separable straight connector with mechanical conductor contact. For polymeric medium voltage (MV) cables up to 12.7/22 (24) kV. Rating 250 A – Interface A.

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 250 A rms
- Overload 300 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 12.7/22 (24) kV.
- Conductor sizes: 25 to 95 mm².
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, C 33-001.

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: 3 kg/0.006 m³.



Other products

- Associated products such as bushing FMBOm-250, FMBOh-250 for separable connectors 250 A and accessories interface A.
- Separable elbow connector MSCE/EC-250-A.

Installation features

- For voltage class 24 kV, one product reference only allows to cover cross from 25 mm² to 95 mm², copper or aluminium conductor.
- No need for special tools, no heating, taping or filling.
- Vertical, angled or inverted position.
- No minimum distance between phases.
- Individual clamping by stainless steel brace.
- The three phases may also be locked together and to the equipment by use of metallic rings (supplied on request, separately or already fitted onto the molded groove).
- 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.

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SELECTION GUIDE – MSCS/EC-250-A

Voltage U_m	Diameter over insulation (mm)		Conductor size (mm ²)* ¹		Kit reference
	Min.	Max.	Min.	Max.	
12 kV	11.8	23.2	25	95	MSCS/EC-250-A-12-25/95* ²
17 kV	11.8	23.2	25	95	MSCS/EC-250-A-17-25/95* ²
24 kV	17.2	25.0	25	95	MSCS/EC-250-A-24-25/95

*¹ For guidance only. *² Models with adapters.

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:

1x50 mm², 22 kV polymeric cable, diameter over insulation 21.5 mm, with copper wire screen, aluminium conductor:
 MSCS/EC-250-A-24-T3-25/95.

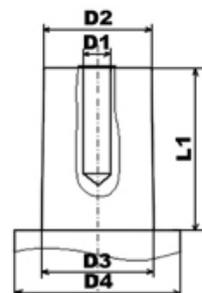
EARTHING DEVICE

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

INTERFACE FOR SEPARABLE CONNECTORS – TYPE A

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

Insulator voltage:	24 kV
Continuous current:	250 A
D1	Bore: Ø 7.9 mm, depth 32 mm
D2	Ø 31 mm
D3	Ø 32.5 mm
D4	Ø 48.5 mm
L1	48 mm
Utilisation	250 A Sliding contact 12 & 24 kV



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