

DEADBREAK SEPARABLE CONNECTORS

STRAIGHT CONNECTOR - MSCS/EC-400-B



Description

Separable straight connector with mechanical conductor contact. For polymeric medium voltage (MV) cables up to 19/33 (36) kV. Rating 400 A - Interface B.

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 400 A rms.
- Overload 600 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 240 mm².
For cables with other sizes, please contact us.

Standards

Generally meets the requirements of CENELEC HD 629.1 S2, IEC 60502-4, IEEE 386, 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: 4.5 kg/0.01 m³.



Other products

- Associated products such as bushing FMB0m-400 and accessories for separable connectors 400 A, interface B.
- Separable elbow connector MSCE/EC-400-B.

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.
- No minimum distance between phases.
- Individual clamping by stainless steel brace.
- 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-400-B

Voltage U_m	Diameter over insulation (mm)		Conductor size (mm ²)*		Kit reference
	Min.	Max.	Min.	Max.	
12 kV	13.0	22.3	25	120	MSCS/EC-400-B-12-rA-25/120
	16.1	26.3	95	240	MSCS/EC-400-B-12-rB-95/240
17 kV	13.0	22.3	25	70	MSCS/EC-400-B-17-rA-25/70
	16.1	26.3	35	120	MSCS/EC-400-B-17-rB-35/120
	20.2	30.8	95	240	MSCS/EC-400-B-17-rC-95/240
24 kV	16.1	26.3	25	150	MSCS/EC-400-B-24-rB-25/150
	16.1	26.3	70	185	MSCS/EC-400-B-24-rB-70/185
	20.2	30.8	95	240	MSCS/EC-400-B-24-rC-95/240
	22.7	33.0	95	240	MSCS/EC-400-B-24-rD-95/240
36 kV	20.2	30.8	25	95	MSCS/EC-400-B-36-rC-25/95
	22.7	33.0	35	120	MSCS/EC-400-B-36-rD-35/120
	25.6	35.3	70	240	MSCS/EC-400-B-36-rE-70/240

* 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:

1x50 mm², 20 kV polymeric cable, diameter over insulation 21.5 mm, with copper wire screen, aluminium conductor:
 MSCS/EC-400-B-24-rB-T3-25/150.

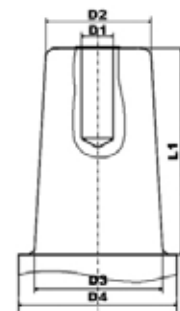
EARTHING DEVICE

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

INTERFACE FOR SEPARABLE CONNECTORS – TYPE B2

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

Insulator voltage:	36 kV
Continuous current:	400 A
D1	Bore: Ø 14 mm, depth 40 mm
D2	Ø 46 mm
D3	Ø 56 mm
D4	Ø 70 mm
L1	90 mm
Utilisation	400 A Sliding contact 12, 24 & 36 kV



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