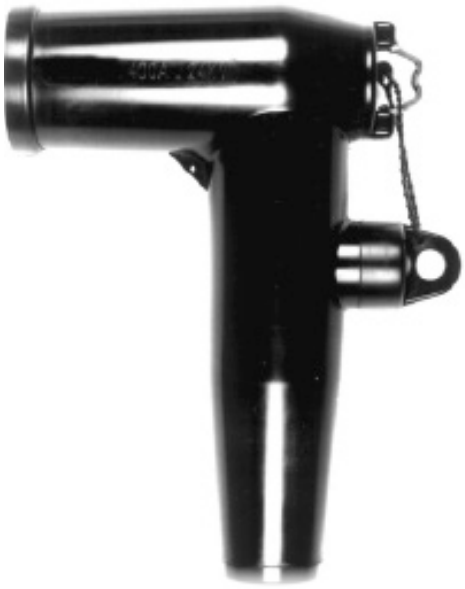
DEADBREAK SEPARABLE CONNECTORS

formfit®

ELBOW CONNECTOR – FMCE-400



Description

Separable elbow connector. 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 (XLPE).
- 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 mm^2.
  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.

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^3.

Other products

- Associated products such as bushing FMBOm-400 and accessories for separable connectors 400 A, interface B.

Installation features

- 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.
- Individual clamping by stainless steel brace.
- An unplugged connector must never be energized.

Technical information subject to change without notice.

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SELECTION GUIDE – FMCE-400

Kit reference	Diameter over insulation (mm)		Voltage U_m							
			12 kV		17.5 kV		24 kV		36 kV	
			Conductor size (mm²)*1							
	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.
FMCE-400-Z	18.5	20.5	70	95	50	70	35	50	–	–
FMCE-400-A	19.9	21.9	95	120	70	95	50	70	–	25
FMCE-400-B	21.4	23.5	120	150	95	120	70	95	25	35
FMCE-400-C	22.9	25.1	150	185	120	150	95	120	35	50
FMCE-400-D	24.4	26.6	185	240	150	185	120	150	50	70
FMCE-400-E	26.0	28.3	240	300*	185	240	150	185	70	95
FMCE-400-F	27.8	30.4	300*2	–	240	300*2	185	–	95	120
FMCE-400-G	29.8	32.7	–	–	–	–	240	240	120/150	150
FMCE-400-H	31.8	35.3	–	–	–	–	300*2	300*2	185	240
FMCE-400-J	34.1	38.3	–	–	–	–	–	–	240	300*2

*1 For guidance only. *2 For 300 sqmm, please contact us.

Note! For cables with bonded outer semi-conducting layer: carefully check the diameter over insulation after removal of the outer semi-conducting layer.

1. Select the kit corresponding to the diameter over cable insulation.
2. Specify the insulation voltage U_m in kV.
3. Select suitable earthing device.
4. Select suitable lug.

Example:
1x95 mm², 33 kV polymeric cable, diameter over insulation 29.5 mm, with copper wire screen, aluminium conductor:
FMCE-400-F-36-T3-A95.

EARTHING DEVICE

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

LUG

Type of conductor	Reference
Copper	C + conductor size in mm²
Aluminium	A + conductor size in mm²
Aluminium* + lug for hexagonal crimping required	A + conductor size in mm² + DIN

*available for deep indenting a hexagonal crimping. Unless other wise stated, standard delivery will be with deep indenting. Suitable tooling to be used.

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