A mark of Prysmian Group

Elastic straight through joint with integrated electrode

elaspeed CLASSIC

For single core polymeric cables
Generally meets the requirements of IEEE 404 - IEC 60502-4 - CENELEC HD 629-1 S2 - EDF HN33E03

Medium Voltage (MV)
Up to 12,7/22 (24) kV
MV Joints
Reference : EPJMe-1C V1.2.

Product Application and Design

Utilisation

- Coldshrink joint for polymeric insulated cables of various specifications.
- May be directly buried.
- Jointing cables laid underground, in tunnels on horizontal racks, or aerial.

Cables

- Single core polymeric insulation (XLPE, EPR, PE...).
- Copper or aluminum conductor, solid or stranded.
- Metallic screen copper tape, copper wires or polylam type.
- Semi-conducting screen either extruded or taped.
- Insulation voltage up to 24 kV.
- Conductor sizes : 25 to 630 mm² (or above).
- Non-armoured or armoured.

Packing

Supplied as a kit for one single core joint (P1) or three single core joints (P3) containing all the necessary components except the ferrules (supplied on request).

Shipping weight and volume (approx) of kit (P1).

- 12 kV ➔ 1.9 kg / 0.01 m³
- 17.5 kV ➔ 2.0 kg / 0.01 m³
- 24 kV ➔ 2.5 kg / 0.01 m³

Other products

- Joint for 3/C polymeric cables RTJMe-3C, EIJMe-3C.

Installation features

- No need for special tools, no heating, taping or resin.
- Immediate energizing after completion of the joint.

0°C +50°C -10°C +50°C

Shelf life: 2 years

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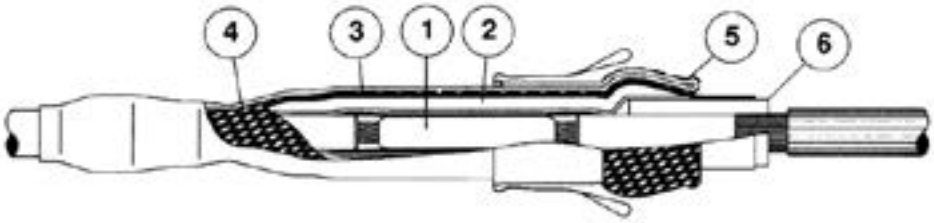
Description



① **Conductor ferrule**
Crimped, deep indented or bolted type. For mechanical connector, please consult us.

② **Joint body**
It maintains a permanent and uniform contact pressure on the cable insulation.
Extruded EPR rubber, electrically tested in factory after extrusion. It includes :
- semi-conducting layer used like shielding electrode,
- stress relief layer,
- insulation layer,
- outer semi-conducting layer. Three cable layers are rebuilt.

The outer semi-conducting layer ensures relief of electrical stress and connection to cable screens.

③ **Joint screen**
Tubular tinned copper braid connected on cable screens with constant force springs.

④ **Elastic outer protection**
Extruded EPR rubber, it maintains a permanent and uniform contact pressure on the cable outer sheaths.
It ensures mechanical protection, UV resistance and watertightness of the joint.

⑤ **Self-eject carrier tube**
The whole joint (items 2 to 4) is pre-loaded on a single self-eject carrier tube made of two parts.

⑥ **Traceability label**
Each joint is delivered with a serial lot number for full traceability.

1- Select in the table below, the kit size corresponding to the insulation voltage (in kV: 12 - 17.5 - 24), the diameter over cable insulation and the diameter over cable outer sheath :

Voltage Um	Max Diam over cable outer sheath in mm (*)	Min Diam over cable insulation in mm	Conductor application range in mm² (for guidance only)	Electrode variant	
				non integrated	integrated
12 kV	34	17,2	70 à 120	EPJM-1C-12-D-V1.2	EPJMe-1C-12-D-V1.2
	38	19,0	95 à 150	EPJM-1C-12-E- V1.2	EPJMe-1C-12-E- V1.2
	48	23,1	185 à 300	EPJM-1C-12-F- V1.2	EPJMe-1C-12-F- V1.2
	50	24,4	240 à 400	EPJM-1C-12-H- V1.2	EPJMe-1C-12-H- V1.2
	57	27,8	300 à 500	EPJM-1C-12-IP-V1.2	EPJMe-1C-12-IP-V1.2
	67	31,9	400 à 630	EPJM-1C-12-I- V1.2	EPJMe-1C-12-I- V1.2
17,5 kV	34	17,2	70	EPJM-1C-17-D-V1.2	EPJMe-1C-17-D-V1.2
	38	19,0	70 à 120	EPJM-1C-17-E- V1.2	EPJMe-1C-17-E- V1.2
	48	23,1	150 à 240	EPJM-1C-17-F- V1.2	EPJMe-1C-17-F- V1.2
	50	24,4	185 à 300	EPJM-1C-17-H- V1.2	EPJMe-1C-17-H- V1.2
	57	27,8	240 à 500	EPJM-1C-17-IP-V1.2	EPJMe-1C-17-IP-V1.2
	67	31,9	400 à 630	EPJM-1C-17-I- V1.2	EPJMe-1C-17-I- V1.2
24 kV	34	17,2	25 à 50	EPJM-1C-24-D-V1.2	EPJMe-1C-24-D-V1.2
	38	19,0	50 à 95	EPJM-1C-24-E- V1.2	EPJMe-1C-24-E- V1.2
	48	23,1	95 à 240	EPJM-1C-24-F- V1.2	EPJMe-1C-24-F- V1.2
	50	24,4	120 à 300	EPJM-1C-24-H- V1.2	EPJMe-1C-24-H- V1.2
	57	27,8	185 à 400	EPJM-1C-24-IP-V1.2	EPJMe-1C-24-IP-V1.2
	67	31,9	300 à 630	EPJM-1C-24-I- V1.2	EPJMe-1C-24-I- V1.2
36 kV	46	24,4	50 à 150	EPJM-1C-36-H- V1.2	
	52	27,8	95 à 300	EPJM-1C-36-IP-V1.2	
	62	31,9	300 à 630	EPJM-1C-36-I- V1.2	

(*) Including screen continuity device (**) for cross sections above 630 mm², please consult us.

2- Specify insulation voltage Um in kV: 12 - 17 - 24

3- Select the screen continuity device according to the type of metallic screen of cable :

Earthing Device Reference	Type of Metallic Screen of Cable
T1	polylam
T2	Copper tape
T3	Copper wires

4- Select the packing : **P1** = kit for one phase or **P3** = kit for three single core phases.

Example of order

1x150 mm², 20 kV single core polymeric insulated cable, with copper wire screen, over insulation 26.0 mm, diam over cable outer sheath 39.0 mm, kit for one phase : **EPJMe-1C-24-F-T3-P1 V1.2.**

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