

# Elastic straight through joint with mechanical connector

**elaspeed®****COMPACT**

For single core polymeric cables  
Generally meets the requirements of CENELEC HD 629.1 S2  
IEC 60502-4 - IEEE 404 - EDF HN33E03  
Mechanical connector: IEC 61238-1 class A.

**Medium Voltage (MV)****Up to 19/33 (36) kV****MV joints****Reference : EPJM - EPJMe/EC-1C-C1.2.**

## Product Application and Design

### Utilisation

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

### Cable

- Copper or aluminum conductor, solid or stranded.
- Conductor sizes: 25 mm<sup>2</sup> to 630 mm<sup>2</sup>.
- Single core polymeric insulation (PE, XLPE, EPR ...).
- Insulation voltage up to 19/33 (36) kV.
- Semi-conducting screen either extruded pelable, no pelable or taped.
- Metallic screen copper tape, copper wires or polylam type.
- 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, including mechanical connector.

Shipping weight and volume (approx) of kit (P1)  
12 up to 36 kV → 2.5 kg / 0.01 m<sup>3</sup>

### Other products

Joint for 3/C polymeric cables RTJMe/EC-3C-C1.2., EIJMe/EC-3C-C1.2., RTJM/EC-3C-C1.2., EIJM/EC-3C-C1.2.

## Installation features

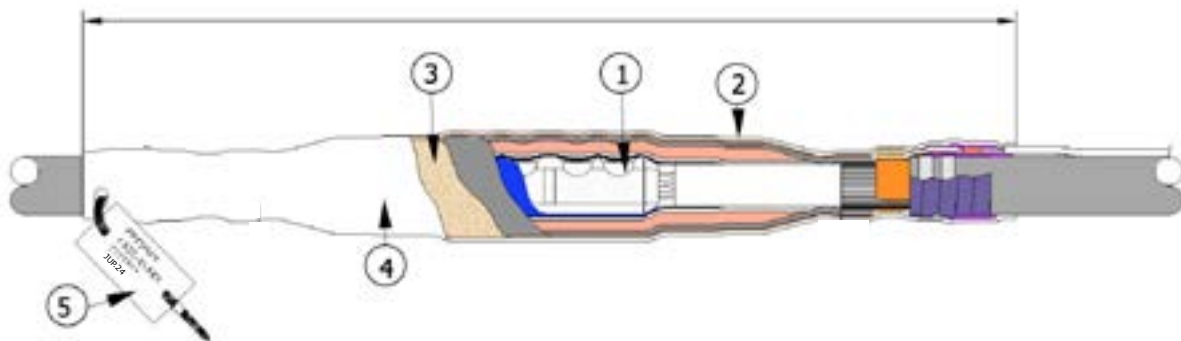
- No need for special tools, no heating, taping or resin.
- The mechanical connector can be installed with an Allen key or with a portable impact wrench (supplied separately on request) with hexagonal socket intended for this purpose.
- Immediate energizing after completion of the joint.



Shelf life: 24 months

## Description

Only 600 mm for the section 50 to 240mm<sup>2</sup> - 24kV



### ① Mechanical connector

The connector has a wide range of application: multi-section, aluminium or copper and stranded or solid conductor. The connector is supplied with an adhesive protective aluminium sheet.

### ② Compact joint body

It maintains a permanent and uniform contact pressure on the cable insulation. Extruded EPDM 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.

The joint body rebuilds the three cable layers.

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

### ③ Metallic screen

Tubular tinned copper braid connected on cable metallic screens with constant force springs.

### ④ Elastic outer protection

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

### ⑤ Traceability label

Each joint is delivered with a serial lot number for full traceability.

### Self-eject carrier tube

The whole joint (items 2 to 5) is preloaded on one single self-eject carrier tube made of two parts.

1- Select in the table below, the kit size corresponding to the insulation voltage (in kV : 12, 17,5, 24, 36), 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 mm <sup>2</sup> (for guidance only)	Electrode variant	
				non integrated	integrated
12 kV	34	17,2	70 à 120	EPJM/ EC -1C-12-D-C1.2	EPJMe/ EC -1C-12-D-C1.2
	38	19,0	95 à 150	EPJM/ EC -1C-12-E-C1.2	EPJMe/ EC -1C-12-E-C1.2
	48	23,1	185 à 300	EPJM/ EC -1C-12-F-C1.2	EPJMe/ EC -1C-12-F-C1.2
	50	24,4	240 à 400	EPJM/ EC -1C-12-H-C1.2	EPJMe/ EC -1C-12-H-C1.2
	57	27,8	300 à 500	EPJM/ EC -1C-12-IP-C1.2	EPJMe/ EC -1C-12-IP-C1.2
	67	31,9	400 à 630	EPJM/ EC -1C-12-I-C1.2	EPJMe/ EC -1C-12-I-C1.2
17,5 kV	34	17,2	70	EPJM/ EC -1C-17-D-C1.2	EPJMe/ EC -1C-17-D-C1.2
	38	19,0	70 à 120	EPJM/ EC -1C-17-E-C1.2	EPJMe/ EC -1C-17-E-C1.2
	48	23,1	150 à 240	EPJM/ EC -1C-17-F-C1.2	EPJMe/ EC -1C-17-F-C1.2
	50	24,4	185 à 300	EPJM/ EC -1C-17-H-C1.2	EPJMe/ EC -1C-17-H-C1.2
	57	27,8	240 à 500	EPJM/ EC -1C-17-IP-C1.2	EPJMe/ EC -1C-17-IP-C1.2
	67	31,9	400 à 630	EPJM/ EC -1C-17-I-C1.2	EPJMe/ EC -1C-17-I-C1.2
24 kV	34	17,2	25 à 50	EPJM/ EC -1C-24-D-C1.2	EPJMe/ EC -1C-24-D-C1.2
	38	19,0	50 à 95	EPJM/ EC -1C-24-E-C1.2	EPJMe/ EC -1C-24-E-C1.2
	48	23,1	95 à 240	EPJM/ EC -1C-24-F-C1.2	EPJMe/ EC -1C-24-F-C1.2
	50	24,4	120 à 300	EPJM/ EC -1C-24-H-C1.2	EPJMe/ EC -1C-24-H-C1.2
	57	27,8	185 à 400	EPJM/ EC -1C-24-IP-C1.2	EPJMe/ EC -1C-24-IP-C1.2
	67	31,9	300 à 630	EPJM/ EC -1C-24-I-C1.2	EPJMe/ EC -1C-24-I-C1.2
36 kV	46	24,4	50 à 150	EPJM/ EC -1C-36-H-C1.2	
	52	27,8	95 à 300	EPJM/ EC -1C-36-IP-C1.2	
	62	31,9	300 à 630	EPJM/ EC -1C-36-I-C1.2	

\* Please consult us

**New size available ! EPJM/EC-1C-36-J**

2- Specify insulation voltage Um in kV: 12, 17,5, 24 or 36

**36 kV - 630 to 1000 sqmm**

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

**Please do not hesitate to contact us.**

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 mm<sup>2</sup>, 20 kV single core polymeric insulated cable, with copper wire screen, diameter over insulation 26.0 mm, diameter over outer sheath 39.0 mm, kit for one phase :

**EPJMe/EC-1C-24-F-T3-P1-C1.2.**