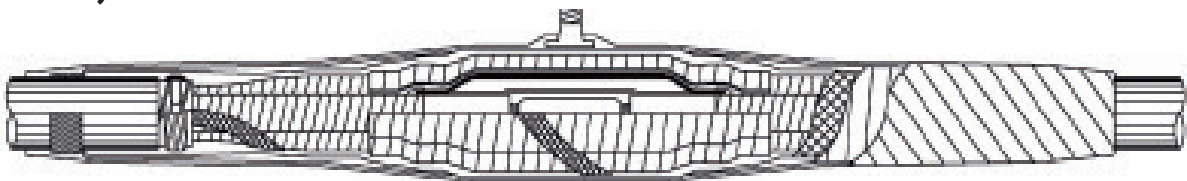


## Elastic straight through joint

For three core polymeric cables - resin injected outer protection  
Generally meets the requirements of IEC 60502-4 - CENELEC HD 629-1 - IEEE 404  
CENELEC HD 629.1 S2

**elaspeed**<sup>®</sup>  
INJECTFIT

**Medium Voltage (MV)**  
**Up to 19/33 (36) kV**  
**MV Joints**  
**Reference: EIJM-3C**



### Product design

#### Utilisation

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

#### Cables

- Three core polymeric insulation (XLPE, EPR).
- Copper or aluminum conductor.
- Metallic screen copper tape or copper wires.
- Semi-conducting screen either extruded or taped.
- Insulation voltage up to 36 kV.
- Conductor sizes: 25 to 500 mm<sup>2</sup>.
- Non-armoured or armoured.

#### Packing

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

Shipping weight and volume (approx) of kit.

- 12 kV	→	12 kg / 0.05 m <sup>3</sup>
- 17.5 kV	→	12 kg / 0.05 m <sup>3</sup>
- 24 kV	→	12 kg / 0.05 m <sup>3</sup>
- 36 kV	→	15 kg / 0.05 m <sup>3</sup>

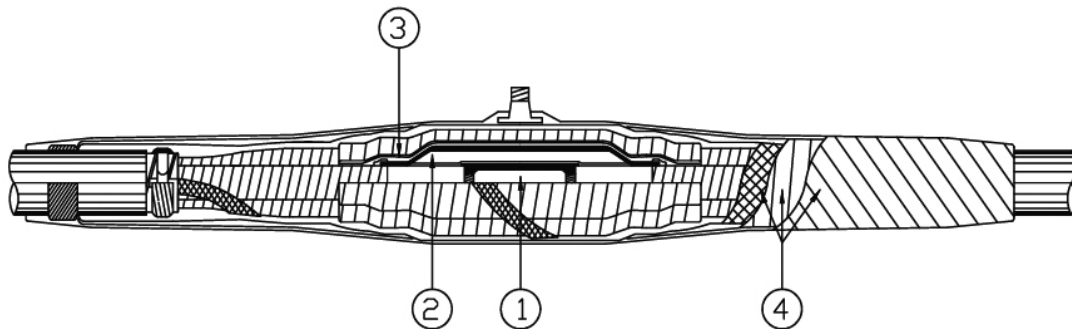
#### Other products

- Joint for 1/C polymeric cables EPJM-1C, RTJM-1C.
- Transition joint between 3/C MIND paper insulated cables (radial or non radial) and 3C or 3 x 1/C polymeric cables.

## Installation features

- No need for special tools nor heating.
- Injection of resin with mechanical gun (not supplied) or with disposable injection device (supplied on request, add letter "F" at the end of kit reference).
- Energizing of cable : if necessary, 30 minutes after injecting.
- Polymerisation of synthetic resins at ambient temperatures: +5°C to +45°C.

## Description



This product is a combination of a Cold-Shrink insulating body encapsulated in an injected resin outer protection.

### ① Conductor ferrule

Crimped, deep indented or bolted type. For mechanical connector, please consult us.

### ② Cold-Shrink 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:

- stress relief layer,
- insulation layer,
- outer semi-conducting layer.

The joint body rebuilds three cable layers.

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

### Traceability label

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

### Removable carrier

The joint body is pre-loaded on a single removable carrier made of two parts. Standard carrier: self-eject tube. Other: please contact us.

### ③ Core screen

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

### ④ Outer protection

Ensures the mechanical protection and the watertightness of the joint. Plastic net tape applied in several layers with transparent enclosure tape to contain the injected resin. The resin is packaged in two-component, watertight plastic bags. Epoxy and Polyurethane versions are available.

1- Select in the table below, the kit size corresponding to the insulation voltage (in kV: 12 - 17.5 - 24 - 36) and the diameter over insulation.

Voltage Um	Min diam over insulation in mm	Conductor application range in mm <sup>2</sup> (for guidance only)		Kit reference
		min	max	
12 kV	17,2	70	120	<b>EIJM-3C-12-D</b>
	19,0	95	150	<b>EIJM-3C-12-E</b>
	23,1	185	300	<b>EIJM-3C-12-F</b>
	24,4	240	400	<b>EIJM-3C-12-H</b>
	27,8	300	500	<b>EIJM-3C-12-IP</b>
17,5 kV	17,2	50	70	<b>EIJM-3C-17-D</b>
	19,0	70	120	<b>EIJM-3C-17-E</b>
	23,1	150	240	<b>EIJM-3C-17-F</b>
	24,4	185	300	<b>EIJM-3C-17-H</b>
	27,8	240	500	<b>EIJM-3C-17-IP</b>
24 kV	17,2	25	50	<b>EIJM-3C-24-D</b>
	19,0	50	95	<b>EIJM-3C-24-E</b>
	23,1	95	240	<b>EIJM-3C-24-F</b>
	24,4	120	300	<b>EIJM-3C-24-H</b>
	27,8	185	400	<b>EIJM-3C-24-IP</b>
36 kV	24,4	50	150	<b>EIJM-3C-36-H</b>
	27,8	95	300	<b>EIJM-3C-36-IP</b>

For bigger cross sections in class 24 kV and 36 kV, please consult us.

2- Specify insulation voltage Um in kV: 12 - 17 - 24 - 36.

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

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

4- Disposable injection device: if to be supplied, add letter "F" at end of kit reference.

### Example of order

3x150 mm<sup>2</sup>, 20 kV three core polymeric cable, with wire screen, diameter over insulation 26 mm, without disposable injection device: **EIJM-3C-24-F-T3**.