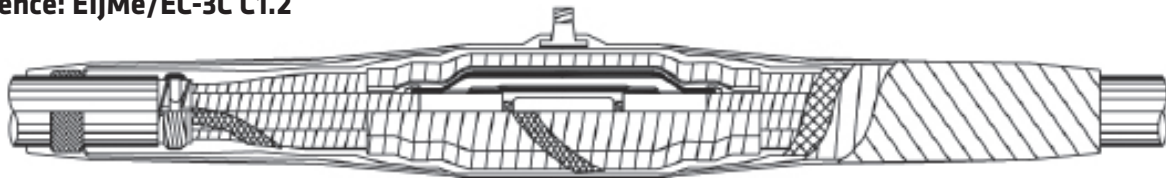


Elastic Straight Through Joint with mechanical connector

elaspeed®
COMPACT

For three core polymeric cables - Resin injected outer protection
 Generally meets the requirements of IEC 60502-4 - CENELEC HD HD 629-1 S2
 Mechanical Connector: IEC61238-1 class A

Medium Voltage (MV)
Up to 12,7/22 (24) kV
MV Joints
Reference: EIJMe/EC-3C C1.2



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 24 kV.
- Conductor sizes: 25 to 500 mm².
- Non-armoured or armoured.

Packing

Supplied as a kit for one three core joint containing all the necessary components, including mechanical connectors.

Shipping weight and volume (approx) of kit

- 12 kV → 12 kg / 0.05 m³
- 17.5 kV → 12 kg / 0.05 m³
- 24 kV → 12 kg / 0.05 m³

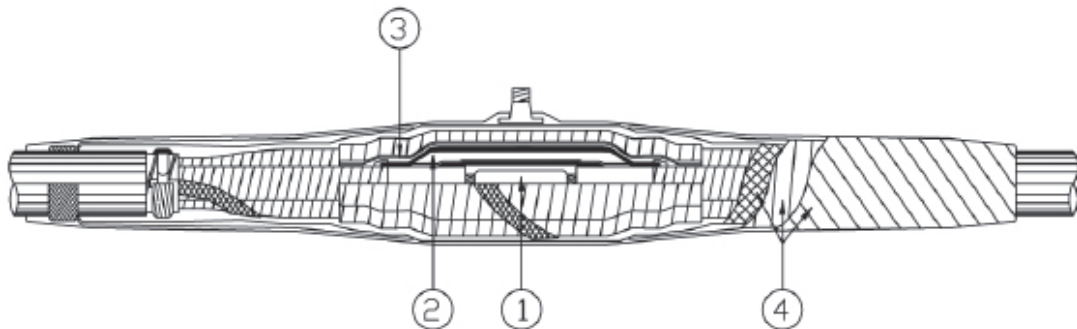
Other products

- Joint for 1/C polymeric cables EPJMe/EC-1C C1.2.

Installation features

- No need for special tools nor heating.
- The mechanical connector can be installed with a ratchet wrench or with a portable impact wrench equipped with hexagonal socket intended for this purpose. (supplied on request only).
- 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 ColdShrink insulating body encapsulated in an injected resin outer protection.

① Mechanical connector

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

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.

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.

Self-eject carrier tube

The joint body is pre-loaded on a single self-eject carrier tube made of two parts.

③ Core screen

Tubular tinned copper braid on connected 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) and the diameter over insulation.

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

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 mm², 20 kV three core polymeric insulated cable, with tape screen, diameter over cable insulation 26.0 mm, without disposable injection device : **EIJMe/EC-3C-24-F-T2 C1.2.**