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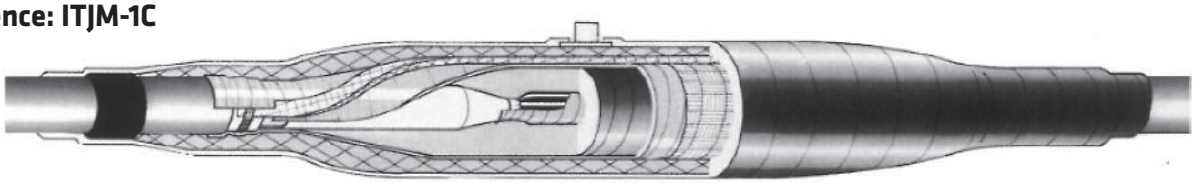
Injected straight through joint - ITJM-1C

injectfit

For single core polymeric and MIND paper insulated cables
Generally meets the requirements of C 33-001 - VDE 0278 - IEC 60502 - HD 629.

Medium Voltage (MV)
Up to 36 kV
MV Joints
Reference: ITJM-1C



Product Application and Design

Utilisation

- Jointing of single core polymeric cables or MIND paper insulated cables.
- Conductor sizes equal or unequal.
- May be directly buried (after curing of resin).
- Jointing cables laid underground or in tunnels on horizontal racks.
- May be used in special environmental conditions such as oil industry.

Cables

- Single core MIND paper insulation.
- Single core polymeric insulation.
- Copper or aluminium conductor.
- Metallic screen of tape, wire or polylam type.
- Semi-conducting screen either extruded or taped.
- Insulation voltage up to 36 kV.
- Conductor sizes: 16 to 300 mm^2 (for bigger sizes, please contact us).

Packing

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

Shipping weight and volume (approx) of kit

- 12 kV ➔ 4 kg / 0.01 m^3
- 17.5 kV ➔ 4.5 kg / 0.015 m^3
- 24 kV ➔ 5 kg / 0.015 m^3
- 36 kV ➔ 11.5 kg / 0.03 m^3

Other products

- Joint for 3/C polymeric or MIND paper insulated cables, ITJM-3C.
- Joint between 3/C polymeric or MIND paper insulated cables and three I/C cables - ITJM-3x1C.
- Transition joint between 3/C polymeric and 3/C MIND paper insulated cables - ITJM-3C.
- Transition joint between 3/C or 3x1/C polymeric cables and 3/C or 3x1/C (or 3/C single lead sheath) MIND paper insulated cable - ITJM-1C/3C.
- Branch-joint for 1/C or 3/C polymeric cables - ITBM-1C and ITBM-3C.
- Transition branch-joint between 3/C MIND paper insulated cables and polymeric cables - ITBM-3C.

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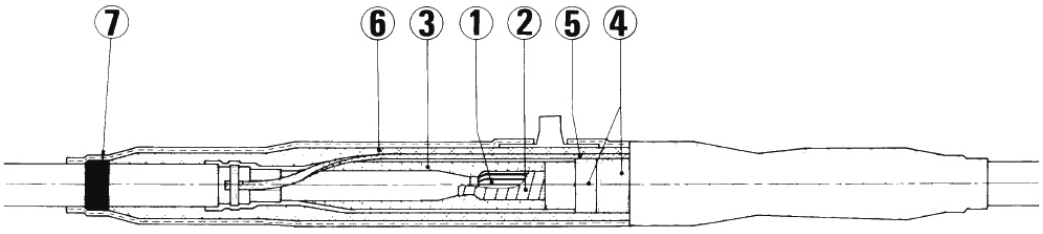
FT N°318 Injected Straight Through Joint ITJM 1C - V1 May 2018

Installation features

- No need for special tools or heating.
- Injection of resin with mechanical gun (not supplied) or with disposable injection device (can be supplied directly the kit - in this case, letter "F" to be added at the end of the kit reference).
- Energizing of cable 30 minutes after injecting.
- Polymerization of synthetic resins at ambient temperature + 5°C to + 45°C.
  Other conditions on request.

Description



① **Conductor ferrule**

② **Semi-conducting layer**
Wrapping of selfamalgamating semi-conducting EPR tape.

③ **Core insulation**
Wrapping of selfamalgamating insulating EPR tape.

④ **Equipotential connection**
Wrapping of selfamalgamating semi-conducting EPR tape and of tinned copper mesh tape.

⑤ **Core screen**
Tinned copper braid of adapted cross section, connected on the metallic screen of cable.

⑥ **Outer protection**
Plastic net tape applied in several layers with transparent enclosure tape to contain the injected resin. The resin is contained in two-component, watertight plastic bags.

⑦ **Watertightness**
Rings of mastic around the outer sheath and injected resin protection.

1- Select in the table below, the kit model corresponding to the insulation voltage (in kV: 12 - 17.5 - 24 - 36) and to the highest cross section (in mm²).

2- Add letter "F" to the kit reference, if a disposable injection device should be supplied in the kit.

Voltage Um	Max conductor size mm² (for guidance only)	Kit reference
12 kV	50	**ITJM-1C-12-50**
	95	**ITJM-1C-12-95**
	150	**ITJM-1C-12-150**
	300	**ITJM-1C-12-300**
	630	**ITJM-1C-12-630**
17,5 kV	50	**ITJM-1C-17-50**
	95	**ITJM-1C-17-95**
	150	**ITJM-1C-17-150**
	300	**ITJM-1C-17-300**
	630	**ITJM-1C-17-630**
24 kV	50	**ITJM-1C-24-50**
	95	**ITJM-1C-24-95**
	150	**ITJM-1C-24-150**
	300	**ITJM-1C-24-300**
	630	**ITJM-1C-24-630**
36 kV	50	**ITJM-1C-36-50**
	95	**ITJM-1C-36-95**
	150	**ITJM-1C-36-150**
	300	**ITJM-1C-36-300**

Example of order

1x120 mm², 20 kV, single core, armoured, MIND paper insulated cable, without disposable injection device : **ITJM-1C-24-150.**

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FT N°318 Injected Straight Through Joint ITJM 1C - V1 May 2018