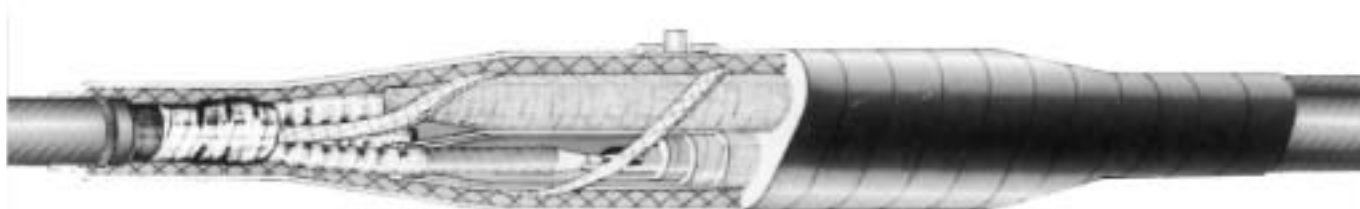


INJECTED STRAIGHT THROUGH TRANSITION JOINT - ITJM-1C/3C

for polymeric and MIND paper insulated cables

injectfit[®]**APPLICATION****Utilisation**

- jointing of three core cables (belted) with single core cables or with three core polymeric cables (radial).
- jointing of three core cables (radial or belted) with single core (or three core single lead sheath) MIND paper cables.
- jointing of three core polymeric cables (radial or belted) with three core cables (belted) or with single core (or three core single lead sheath) MIND paper insulated cables.
- jointing of three core MIND paper insulated cables (radial or belted) with single core polymeric 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 and three core MIND paper insulation.
- single core and three core polymeric insulation.
- copper or aluminium conductor.
- metallic screen of tape or wire type.
- semi-conducting screen either extruded or taped.
- non-armoured or armoured.
- insulation voltage up to 36 kV (U_m).
- conductor sizes : 16 to 300 mm².

STANDARDS

Generally meets the requirements of C 33-001 - VDE 0278 - IEC 60502 - HD 629.

QUALITY ASSURANCE

The Company has been assessed by third party and found in conformity with the requirements of the standard ISO 9001 - EN 29001.

PACKING

Supplied as a kit containing all the necessary components except the ferrules (supplied on request).

Shipping weight and volume (approx) of kit.

| | |
|-----------|---------------------------|
| - 12 kV | 10 kg/0.02 m ³ |
| - 17.5 kV | 11 kg/0.03 m ³ |
| - 24 kV | 12 kg/0.03 m ³ |
| - 36 kV | 17 kg/0.04 m ³ |

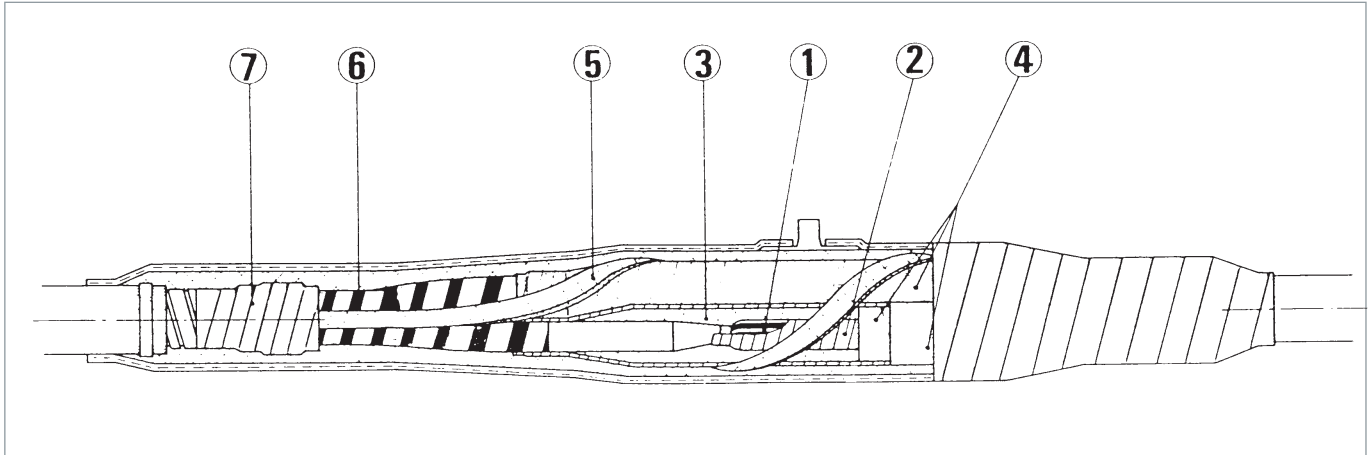
INSTALLATION FEATURES

- no need for special tools or heating.
- injection of resin with mechanical gun (not supplied) or with disposable injection device (can be supplied directly in 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° to +45°C. Other conditions on request.

OTHER PRODUCTS

- joint for 1/C polymeric or MIND paper insulated cables, ITJM-1C.
- joint for 3/C polymeric or MIND paper insulated cables, ITJM-3C.
- joint between 3/C polymeric or MIND paper insulated cables with three single core cables, ITJM-3x1C.
- transition joint between 3/C polymeric and 3/C MIND paper insulated cables, ITJM-3C.
- branch joint for 1/C or 3/C polymeric insulated cables, ITBM-1C and ITBM-3C.
- transition branch-joint between 3/C MIND paper and polymeric insulated cables, ITBM-3C.

INJECTED STRAIGHT THROUGH TRANSITION JOINT - ITJM-1C/3C for polymeric and MIND paper insulated cables



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.

SELECTION GUIDE

1. Select in the table below, the kit model corresponding to the insulation voltage U_n (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 disposal injection device should be supplied in the kit.

| VOLTAGE U_n | Max. conductor size mm ² | KIT REFERENCE |
|---------------|-------------------------------------|-------------------|
| 12 kV | 50 | ITJM-1C/3C-12-50 |
| | 95 | ITJM-1C/3C-12-95 |
| | 150 | ITJM-1C/3C-12-150 |
| | 300 | ITJM-1C/3C-12-300 |
| 17.5 kV | 50 | ITJM-1C/3C-17-50 |
| | 95 | ITJM-1C/3C-17-95 |
| | 150 | ITJM-1C/3C-17-150 |
| | 300 | ITJM-1C/3C-17-300 |
| 24 kV | 50 | ITJM-1C/3C-24-50 |
| | 95 | ITJM-1C/3C-24-95 |
| | 150 | ITJM-1C/3C-24-150 |
| | 300 | ITJM-1C/3C-24-300 |
| 36 kV | 50 | ITJM-1C/3C-36-50 |
| | 95 | ITJM-1C/3C-36-95 |
| | 150 | ITJM-1C/3C-36-150 |
| | 300 | ITJM-1C/3C-36-300 |

EXAMPLE OF ORDER

20 kV, three single core polymeric cables, 1x150 sqmm with a three core MIND paper insulated cable (radial), 3x150 sqmm, without disposable injection device : **ITJM-1C/3C-24-150**.