

Energy Division

EFSJ

Raychem filled joint for belted  
or screened, MI or MIND,  
three-core, paper insulated  
cables up to 12 kV

 **Tyco Electronics**  
Our commitment. Your advantage.

## EFSJ

The Raychem EFSJ series of filled joints are problem solving products based on materials science expertise. The main features of the joints are:

**Heat-shrink „compound box“**  
**No pouring of hot compounds**  
**Lightweight and low profile**  
**Versatile and easy to install**

Many utilities today are installing polymeric cables as standard. Nevertheless, much of the existing network, and a substantial proportion of new installations are 12 kV paper insulated, MIND or MI cable. It is widely recognised that heat-shrinkable cable accessories are the answer to jointing the new polymeric cables due to their ease of installation and reliability.

For paper cables, the Raychem EFSJ system offers joints that:

- Simplify installation
- Accomodate transitions to polymeric cables
- Are compatible with proven jointing practices

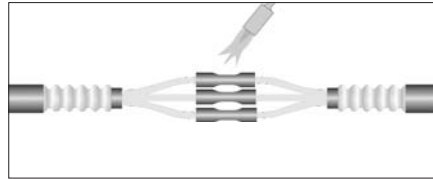
Primary insulation over the connectors is provided with proven heat-shrinkable insulating sleeves. The bulk filling medium is a cold applied mastic compound, fully compatible with the materials that are used to impregnate paper cables. The compound is contained in a low profile, heat-shrinkable casing - a shrinkable compound box. During installation of the heat-shrinkable casing the compound flows and fills, ensuring a fully blocked joint. The result is a joint that can be made quickly and reliably without the need to handle heavy, metal joint cases and without the requirement to pour hot compounds and oils.

## Raychem filled joint for belted or screened, MI or MIND, three-core, paper insulated cables up to 12 kV

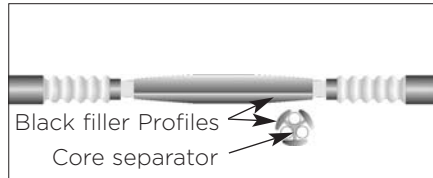
The EFSJ is versatile. It is factory-engineered for use on belted or screened, three-core, paper insulated, MI and MIND cables. Each basic joint kit can accommodate several cable sizes, so only four kits are required for the range of cross sections from 16 to 300 mm<sup>2</sup>.

Transitions between paper cables of different cross sections and from paper to polymeric cables are achieved simply by the use of add on transition modules. Mechanical kits are available that eliminate the requirement for plumbing in connecting cable sheaths.

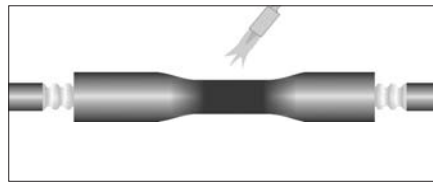
### Installation steps



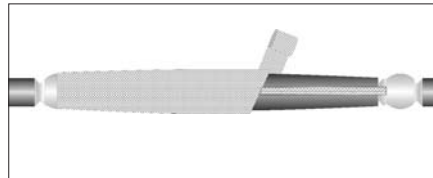
1. Insulating sleeves are shrunk over the connectors.



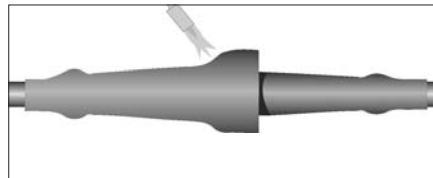
2. The cold-applied mastic compound is placed over the insulated cores.



3. The heavy, dual-walled, insulating/conducting sleeve is shrunk down.



4. The copper earth braid and steel armour wrap are installed.



5. The outer sealing sleeves are shrunk down. The cable can be energized at once.

All of the above information, including drawings, illustrations and graphic designs, reflects our present understanding and is to the best of our knowledge and belief correct and reliable. Users, however, should independently evaluate the suitability of each product for the desired application. Under no circumstances does this constitute an assurance of any particular quality or performance. Such an assurance is only provided in the context of our product specifications or explicit contractual arrangements. Our liability for these products is set forth in our standard terms and conditions of sale. Raychem, TE Logo and Tyco Electronics are trademarks.

**Energy Division - innovative and economical solutions for the electrical power industry: cable accessories, connectors & fittings, insulators & insulation, surge arresters, switching equipment, lighting controls, Power Measurement and Control.**

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