



Raychem Heatshrink Joint System EPKJ for  
Plastic and Rubber Insulated Cables for up to  
1kV

**Raychem**  
from TE Connectivity

# Raychem Inline Joints for Plastic and Rubber Insulated Cables up to 1 kV, with or without Armour or Concentric Neutrals

The insulating and sealing performance of Raychem heat-shrinkable materials has been demonstrated in the course of over 35 years' use in power engineering. These proven materials form the basis for Raychem inline joints for cables up to 1 kV.

While fully comparable in ease and speed of installation to other modern methods, Raychem joints also eliminate mixing, pouring and topping-up delays, as they require no jointing compound or resin. This feature cuts out curing time and enables the joints to be buried immediately. As the joint components are of heat-shrinkable material, they can also be held in stock in varying climatic conditions without risk of long-term deterioration.

### Installation

Applying equally well to both armoured and unarmoured cables, the Raychem technique achieves insulating and sealing in one step by heating.

This causes tubing, slipped over the cores before jointing, to shrink to tightly fit the connectors and insulation. At the same time the heat causes the sealant, supplied already pre-coated on the inside of the tubing, to melt and flow. The high integrity bond thus formed seals out moisture and corrosion, follows the thermal expansion of the cable, and can be reliably made on a range of core sizes and connector types without special skills or procedures.

### Sealing and mechanical strength

For unarmoured and concentric neutral cables, the mechanical and sealing functions of the oversheath are restored by heat-shrinking a thick-walled insulating tubing over the joint area. A durable and repeatable seal is ensured here too by hot-melt sealants supplied already pre-installed on the inside of this component.

For armoured cables a galvanized steel grid for impact protection is used inside the outer sealing sleeve. The grid is flexible enough to be wrapped round the joint, but rigid when clamped to the cable armour. The Raychem Armarap joint case has been designed and fully tested for earth fault carrying capacity.

As one of the leaders in heat-shrinkable materials and one of the largest cable accessories makers, we offer customer training, service and technical assistance to meet the demands of the growing world of energy.

Cover photo: The heat-shrinkable outer sleeve, being installed with a gas torch by this German cable fitter, seals and mechanically protects this Raychem joint for a concentric neutral cable.



Picture : The Armarap joint case allows the electrical and mechanical functions of the cable armour to be restored simply and quickly.

### Performance

Raychem joints are designed and fully tested to meet Raychem specification PPS 3013, which encompasses the requirements of the major national standards and the international norms. Each joint covers a range of cable sizes and is supplied complete with full installation instructions.

EN50393 - Test requirements on cable accessories for applications on energy power cables of rated voltages up to 0.6/1(1.2) kV

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