



Raychem ShrinkSet
Universal jointing system for 12 kV
3-core polymeric and paper cables



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Universal jointing system for 12 kV 3-core polymeric and paper cables

The Raychem ShrinkSet system is:

- proven in service with UK RECs since 1991
- based on Raychem high voltage heat-shrinkable insulation materials
- straightforward to install
- a universal system for straight and transition jointing of polymeric and paper cables in one kit
- a complete system including shear-bolt mechanical conductor connectors
- a family of kits including branch joints and pot-end
- approved to Electricity Association specification ER C90

Designed for performance, reliability and straightforward installation

Raychem ShrinkSet joints were originally designed for UK Regional Electricity Companies as a modern system for jointing 11 kV paper and polymeric distribution cables. Since their introduction in 1991 Raychem ShrinkSet joints have been adopted by most RECs and have proved to be reliable, straightforward to install and cost-effective.

Design is based on the use of Raychem high voltage heat-shrinkable insulation materials together with a protective filler of polyurethane resin. Installation is quick and simple; there is no taping of cores, no plumbing, soldering or pouring hot compound.

All jointing kits include shear-bolt mechanical connectors suitable for both copper and aluminium conductors. These connectors are designed with an “easy-entry” feature to simplify installation. Optional connector body holding tools are available (consult your Tyco Electronics specialist distributor).

Raychem ShrinkSet joints are approved to Electricity Association performance specification ER C90 and meet the requirements of other relevant specifications. Earth bonding is designed and tested to a rating of 13 kA for 3 seconds.

Universal application for all 3-core cables

Each kit in the Raychem ShrinkSet range includes all components for jointing both polymeric (XLPE or EPR) and paper (PILC or PICAS) 3-core 11 kV cables, either as straight (in-line) or transition arrangements.

The product range also includes branch joints and a pot-end for all the above cables. See Selection table.



Mechanical connector before installation



Mechanical connector after installation



Earth bonding for armoured cables

Selection table

Joint type	Size mm ²	Product reference	Resin volume (litres approx.)
Straight/transition	95 - 185	SHSS-12A-IND	14
Straight/transition	185 - 300	SHSS-12B-IND	28
Branch	95 - 185	SMOE 61987	36
Branch	185 - 300	SMOE 61988	48
Pot-end	95 - 300	SMOE 62668	14

Note: For cables sizes less than 95mm² build-up kits are required for both XLPE and paper cables. Consult your Tyco Electronics specialist distributor. Extra resin is necessary should the build-up kits be used.