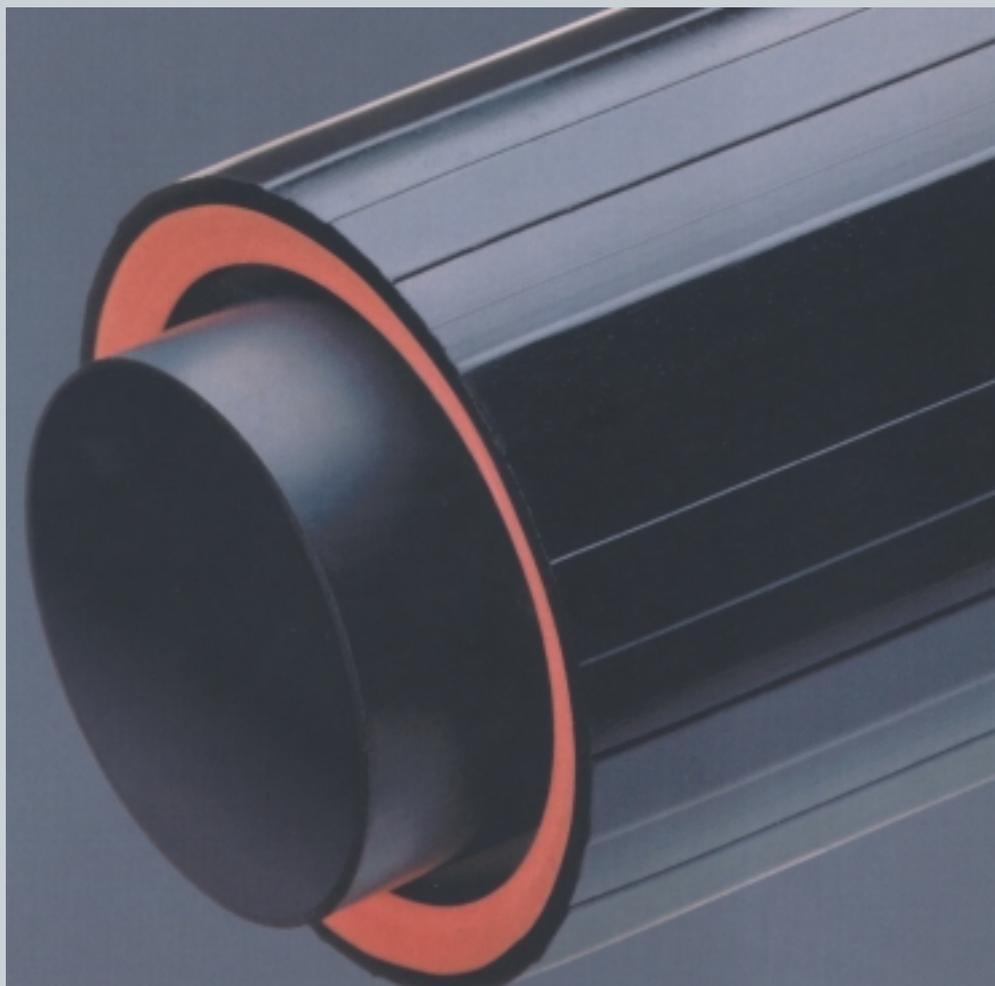
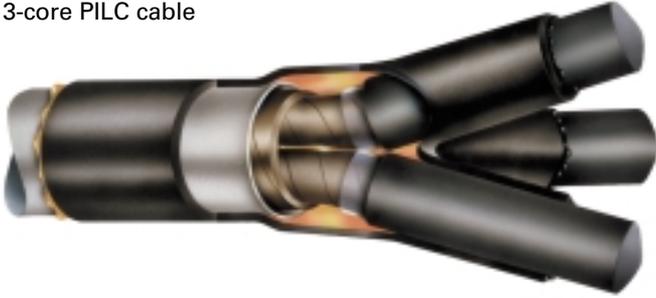


**Universal jointing system for
medium voltage cables up to 36 kV**

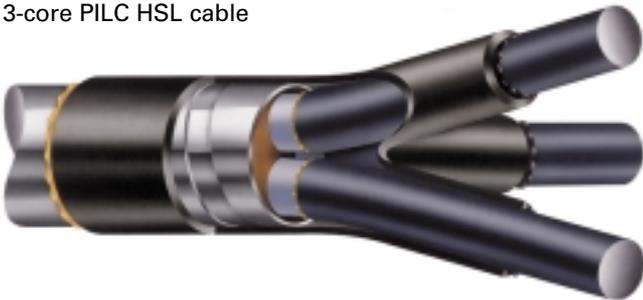


... join all these cable types

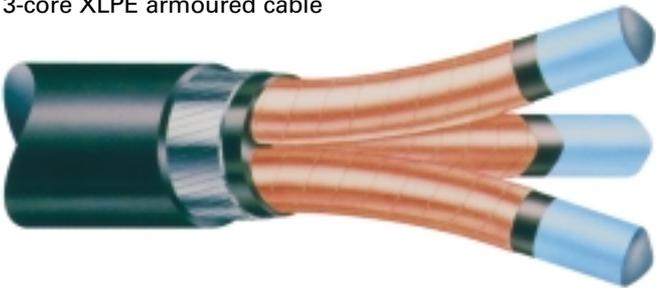
3-core PILC cable



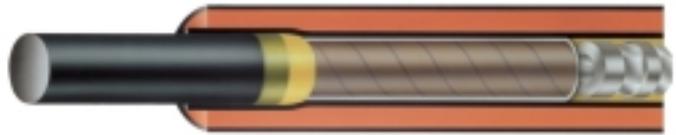
3-core PILC HSL cable



3-core XLPE armoured cable



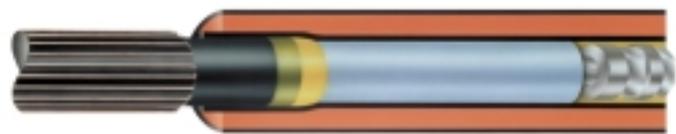
3-core PILC cable



single core PILC cable



single core XLPE cable



Voltage class: 12/24/36 kV

There is a steadily increasing use of polymeric cables at medium voltages. The different constructions of cable available have drawn attention to the versatility of appropriate jointing methods. Reliability in installation calls for pre-engineered components with a defined insulation wall thickness. Efficiency and economy, on the other hand, require a range-taking design that is suitable for both single and 3-core cables.

In response to these growing needs, we developed a dual-wall joint component combining the advantages of heat-shrinkable and elastomeric materials. The concept has now been

widely adopted by utilities around the world. Their confidence in this jointing method led to consideration of its use for paper cables.

Here, we were able to draw on our experience in applying materials technology to paper cable jointing.

The approach adopted simply converts paper cables to quasipolymeric constructions. This provides the foundation for a universal jointing system. It was made possible by the development of three special materials: a heat-shrinkable insulating tubing impervious to oil and oil vapour, a conductive heat-shrinkable

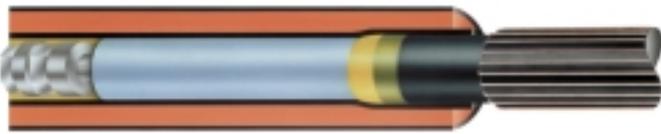
polymer in the form of tubing and moulded parts, and an oil-resistant stress-controlling void filler.

The resulting design makes it easier to protect the paper cables during jointing, and allows a secure screened configuration to be employed throughout.

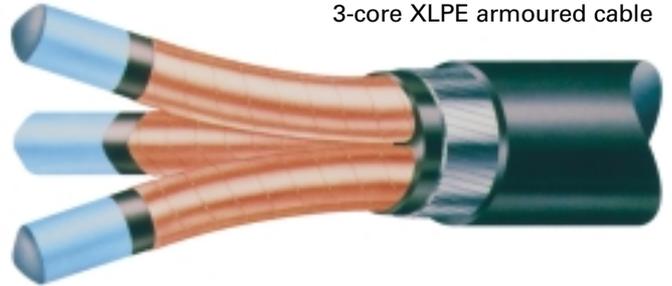
Using a single installation principle and a limited number of pre-engineered components, it is now possible to joint any combination of single and 3-core plastic or paper insulated cables, with or without armour, at voltages up to and including 36 kV. There can be no better solution.

... a truly universal system.

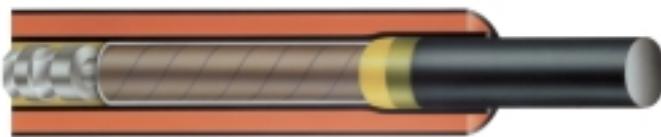
single core XLPE cable



3-core XLPE armoured cable



3-core PILC cable



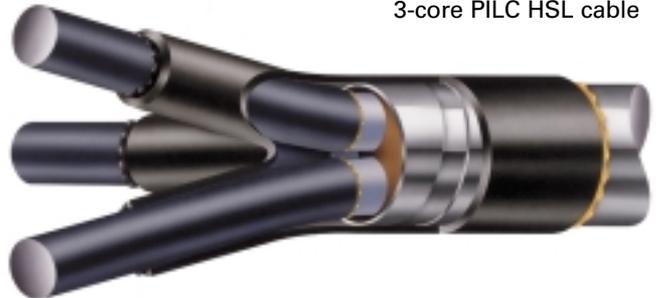
3-core PILC cable



single core PILC cable

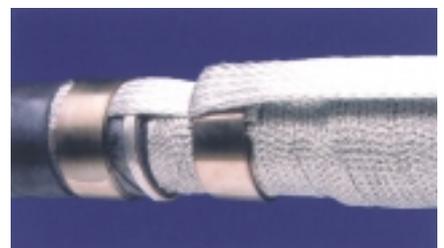


3-core PILC HSL cable



Earth and shield connections

The Raychem unified jointing system is engineered throughout. Factory-made components are assembled to restore earth and shield continuity. Soldering skills are no longer required for an electrically sound connection.





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. ALR, AMP, AXICOM, B&H, Bowthorpe EMP, Dorman Smith, Dulmison, Hellstern, La Prairie, Morlynn, Raychem, and SIMEL are trademarks.



Energy Division – a pioneer in the development of economical solutions for the electrical power industry. Our product range includes: Cable accessories, connectors & fittings, electrical equipment, instruments, lighting, insulators & insulation enhancement and surge arresters.



For more information and your country contact person, please visit us at:
<http://energy.tycoelectronics.com>



Tyco Electronics Raychem GmbH, Energy Division
Haidgraben 6, 85521 Ottobrunn/Munich, Germany
Phone: ++49-89-6089-0, Fax: ++49-89-6096345