



Approved Cable Accessories
and Components for Marine
and Offshore Applications

Raychem
from TE Connectivity



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Under the well-established product brand name Raychem, TE Connectivity offers a comprehensive range of cable accessories for almost all cable types. The most innovative utilities and industries around the world – including mining-, marine-, and offshore, – use our power cable accessories. Designed to withstand environmental extremes and high pollution levels over long operating lifetimes, they help maintain service reliability in both overhead and underground installations. We have developed specially formulated insulation materials that resist tracking and degradation caused by erosion, ultraviolet light and other environmental stresses.

Customer Requirements

Advanced materials research and development and constant improvement programmes are helping us to increase our responsiveness to customer requirements and to meet the demands of modern cable networks:

- Fewer components
- Simplified cable preparation
- Fast installation
- Safe for installer
- Treat with respect environment
- Consistent approach for all cable types and voltage classes
- High reliability
- Qualification to international specifications, such as IEC, CENELEC, IEEE and GOST

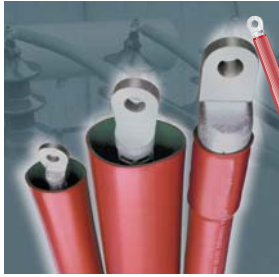
Product Features

Product design and materials have been systematically improved over more than three decades. This has been achieved by thorough research in close co-operation with our customers produced novel materials for the electrical power industry. The result is a wide range of products with a unique combination of properties such as:

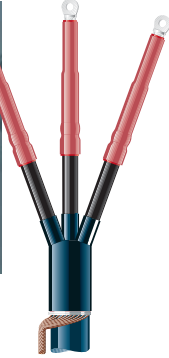
- Increased resistance to thermal ageing
- Insulation-thickness memory
- Shape memory
- Excellent resistance to surface electrical activity
- Improved UV performance
- Electrical stress control
- Void-free interfacial bonding
- Impermeability to cable oils
- Moisture blocking
- Improved flame resistance
- Elastomeric technology
- Mechanical connecting systems



Terminations



IXSU-F / OXSU-F
Heat-shrink termination, single-core and three-core polymeric, one-piece



Moulded parts



102L
Heat-shrink cable caps

Tubing



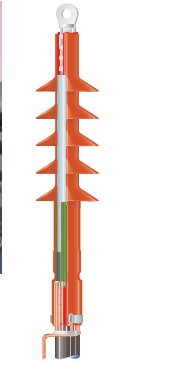
MWTM
Heat-shrink insulating and sealing medium-wall tubing



ZCSM
Heat-shrink halogen-free and flame-retarded insulating tubing for low hazard areas



TFTI / TFTO
Cold-shrink/push-on termination, single-core polymeric



302K, 402W, 502K
Heat-shrink cable breakouts



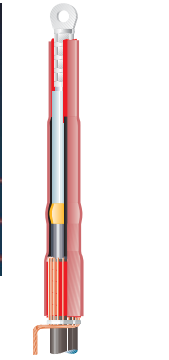
WCSM
Heat-shrink insulating and sealing heavy-wall tubing



ATUM
Heat-shrink thin-wall general-purpose insulating and sealing tubing



EPKT & HVT-G / SG
Heat-shrink termination, single-core and three-core polymeric



FCSM
Heat-shrink flame retarded heavy-wall flexible insulating tubing

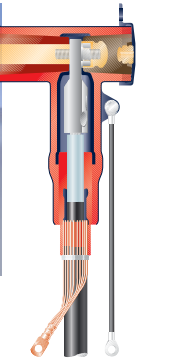


XCSM
Heat-shrink medium-wall general-purpose insulating and sealing tubing

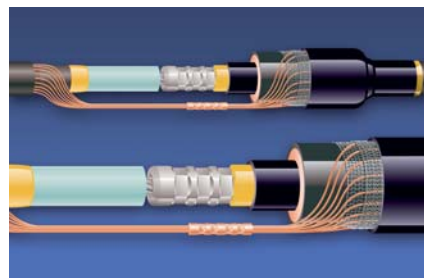
Connection systems



RSTI
Screened, separable connection system, single-core polymeric



Joints



SXSU
Heat-shrink inline joint, single-core polymeric

Wraparounds



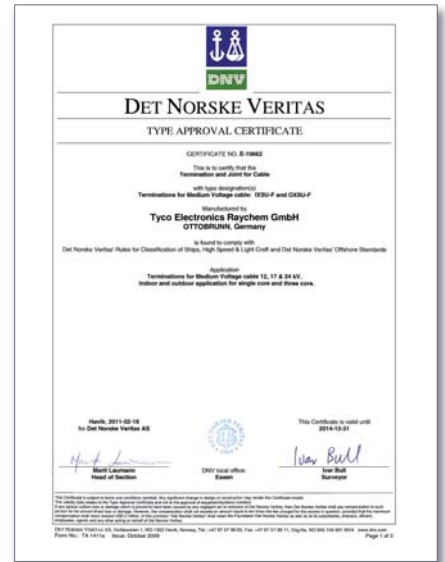
MRSM
Heat-shrink flexible cable jacket repair sleeve



EPKE
Heat-shrink live end seal



CRSM
Heat-shrink cable jacket repair sleeve



Approved products for marine and offshore applications

Product	PPR number	Classification company	Certificate number	Issued	Expiration date
MWTM & WCSM	1675	Det Norske Veritas	E-10657	18. Feb 11	31. Dec 14
FCSM	1672	Det Norske Veritas	E-10654	18. Feb 11	31. Dec 14
MRSM	1673	Det Norske Veritas	E-10655	18. Feb 11	31. Dec 14
ZCSM	1674	Det Norske Veritas	E-10656	18. Feb 11	31. Dec 14
EPKT-7 / EPKT-17	1676	Det Norske Veritas	E-10658	18. Feb 11	31. Dec 14
HVT-G/SG	1678	Det Norske Veritas	E-10661	18. Feb 11	31. Dec 14
TFTI / TFTO	1677	Det Norske Veritas	E-10660	18. Feb 11	31. Dec 14
I(O)XSU-F	1679	Det Norske Veritas	E-10662	18. Feb 11	31. Dec 14
IXSU-F33xy-KR01	2626	Det Norske Veritas	E-10664	18. Feb 11	31. Dec 14
MXSU, MXST, MXSW, SXSU, SXST, SXSU	1487	Det Norske Veritas	E-10663	18. Feb 11	31. Dec 14
RSTI	2783	Det Norske Veritas	E-10665	18. Feb 11	31. Dec 15
RICS	2857	Det Norske Veritas	E-11464	18. Feb 11	15. Dec 15
LV EPKJ	2856	Det Norske Veritas	E-11463	18. Feb 11	15. Dec 15
ATUM, MWTM, WCSM	1464	Germanischer Lloyd	65 673-73 HH	15. June 09	15. June 14
IXSU-F	1769	Germanischer Lloyd	20 437-04 HH	15. June 09	15. June 14
XCSM, CRSM, EPKE, & 102L, 302K, 402W, 502K	1507	Germanischer Lloyd	17 314-00HH	25. Sep 12	14. Nov 16
TFTI / TFTO	2189	Registro Italiano Navale	No ELE057411XG/001	22. May 11	22. May 16
IXSU-F	2190	Registro Italiano Navale	No ELE057411XG	22. May 11	22. May 16
IXSU-F	1641	Lloyds Register of Shipping	02/20047(E1)	27. Nov 12	4. Sep 17
IXSU-F	2142	Russian Marine Register of Shipping	10.03164.011	20. Dec 10	20. Dec 15
IXSU-F	2402	Bureau Veritas	19969/A0 BV	4. July 12	12. Nov 17

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TE Energy – 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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