

Energy Division

Approved cable accessories and components for marine and offshore applications





Under the established product brand name Raychem, Tyco Electronics 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, UV light and other environmental stresses.

Customer requirements

Intensive R&D in the field of advanced materials and constant improvement programmes help 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 and 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 through intensive research in close co-operation with our customers to produce new materials for the electrical power industry. The result is a wide range of products with a unique combination of properties:

- 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
- Elastomer technology
- Mechanical connecting systems







Terminations





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



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

Joints

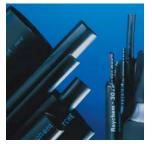


SXSU Heat-shrink inline joint, single-core polymeric



EPKE Heat-shrink live end seal

Tubing



MWTM Heat-shrink insulating and sealing medium-wall tubing



WCSM Heat-shrink insulating and sealing heavy-wall tubing



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

Wraparounds



MRSM Heat-shrink flexible cable jacket repair sleeve



CRSM Heat-shrink cable jacket repair sleeve



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



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



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

Moulded parts



102L Heat-shrink cable caps



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







Approved products for marine and offshore applications

Product	PPR	Classification	Certificate	Issued	Expiration
	number	company	number		date
MWTM & WCSM	1675	Det Norske Veritas	E-8039	04. Aug 06	31. Dec 10
FCSM	1672	Det Norske Veritas	E-8036	04. Aug 06	31. Dec 10
MRSM	1673	Det Norske Veritas	E-8037	04. Aug 06	31. Dec 10
ZCSM	1674	Det Norske Veritas	E-8038	04. Aug 06	31. Dec 10
EPKT-7 / EPKT-17	1676	Det Norske Veritas	E-8040	04. Aug 06	31. Dec 10
HVT-G/SG	1678	Det Norske Veritas	E-8042	04. Aug 06	31. Dec 10
TFTI / TFTO	1677	Det Norske Veritas	E-8041	04. Aug 06	31. Dec 10
I(O)XSU-F	1679	Det Norske Veritas	E-8043	04. Aug 06	31. Dec 10
SXSU	1487	Det Norske Veritas	E-7898	03. Mar 06	31. Dec 08
ATUM, MWTM, WCSM	1464	Germanischer Lloyd	65 673-73 HH	11. Oct 04	10. Oct 09
IXSU-F	1769	Germanischer Lloyd	20 437-04 HH	22. Apr 04	22. Apr 09
XCSM, CRSM, EPKE, & 102L, 302K, 402W, 502K	1507	Germanischer Lloyd	17 314-00 HH	10. Nov 06	10. Nov 11
TFTI / TFTO	2189	Registro Italiano Navale	No ELE204306CS/02	19. May 06	19. May 11
IXSU-F	2190	Registro Italiano Navale	No ELE204306CS/01	19. May 06	19. May 11
IXSU-F	1641	Lloyds Register of Shipping	02/20047(E1)	31. Oct 07	04. Sep 12
IXSU-F	2142	Russian Marine Register of Shipping	05.03378.011	30. Sept 05	30. Sep 10
IXSU-F	2402	Bureau Veritas	19969/A0 BV	08. Nov 07	08. Nov 12

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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