



Wire and Cable



HEAT SHRINK TUBING



Heat Shrinkable Tubing

- Fluoropolymers, fluoroelastomers and elastomers enhanced by radiation cross-linking and heat-shrinkability
- Available in many sizes, constructions, lengths, and colors to meet commercial or military specifications
- Dependable insulation, mechanical protection, and strain relief
- Single-wall, dual-wall, heavy-duty and special purpose tubings are available

SPLICES



Interconnection Devices

- Permanent splicing solutions: Solder Sleeve, cold-applied, and MiniSeal splices
- Rugged and reliable, easy to install
- Excellent environmental protection and high temperature performance
- Inspectable after installation
- Superior protection against corrosion, vibration and abrasion
- Small, light weight and low profile

BUSHINGS



Side-Entry Bushing

- Flexible, compressible bushings for excellent strain relief where environmental sealing is not required
- Fewer wraps needed than conventional silicone tapes
- High-temperature-resistant silicone material rated to 180°C
- Trim to fit capabilities for any size saddle clamp/wire bundle combination
- Thermally formed so it naturally conforms to circular wire bundles
- No adhesive layer for easy removal

MOLDED PARTS



Molded Parts

- Supplied in expanded form
- Strain relief
- Available in a range of different cross-linked polymeric materials
- Environmental sealing
- Transitions, end caps, boots, feedthroughs, cable entry seals

ASSEMBLIES AND KITS



Kits and Feedthroughs

- Prepackaged combinations of TE components for assembly and material management convenience: T-FIT kits and NAVSEA kits
- Factory assembled connector/molded part interface - KTKK, TCFS, TCFR, etc. - for assembly labor savings using conventional or shielded Rayaten boots
- Special purpose kits for splicing cables (SESK for conventional and UJIS cables), corrosion protection
- RayOLOn sealing sleeves), and others

CUSTOM HARNESS ASSEMBLY



Integrated Harnessing Systems

- Custom harness assembly
- Simplified parts selection for various environmental and operational requirements
- System 770, System 780, and System 790 for NBC contamination survivability applications
- System 100 for low halogen emission requirements
- System 200 and System 300 for aggressive temperature (200°C) and fluid environments
- Other systems for various conventional environmental requirements

TE CONNECTIVITY - A NEW POWERFUL SOURCE

Pushing the Performance Envelope

As one of the world's largest suppliers of passive electronic components—including connectors and interconnect systems, relays, switches, circuit protection devices, touchscreens, sensors, and wire and cable—TE Connectivity brings advanced engineering, world-class manufacturing, and innovative thinking to help your next design go from concept to production.

As we have for over 60 years in serving the aerospace, defense, and marine industries, we put a premium on innovation when helping solve tough design problems. Talking to us early in your design cycle gives you the full benefit of our expertise. We can help you to:

- Shorten the design cycle
- Reduce costs
- Increase reliability
- Design for manufacturability
- Meet the demanding requirements for lighter, faster, more capable systems

In short, we help you achieve a sustainable competitive advantage in some of the toughest and most severe application environments. Over 8000 engineers, 13 global design centers, and manufacturing in 20 countries are at your service for innovation and collaborative engineering.

Solutions Engineered to Your Needs

We understand the demanding and diverse needs of aerospace, defense, and marine applications from avionics to control to passenger comfort. TE has been leading the trend of moving to application-specific value-added subsystems. These engineered solutions cut your engineering time, lower manufacturing costs, and increase reliability. Our robust research and development, expertise in materials science, and industry-leading product and process engineering mean you have access to products designed to meet your most rigorous requirements.

And you will find that our sales and application support, logistics, and global presence help you move to production.

CONTROLLED ELECTRICAL CABLE



Cheminax Twinaxial Cables/Coaxial Cables/Multicore High-Speed Copper Cable

- Lightweight, small size, high flexibility
- Temperature capability: -65°C to 200°C rated
- Designed for use in MIL-STD-1553B and CANbus Cat5e/Gigabit, PROFIBUS and USB type applications
- Optimized shielding to address EMI/EMC problems
- Specially formulated jacket and dielectric materials
- Low capacitance and attenuation

ETFE HOOK-UP WIRE AND CABLE



SPEC 55 Wire and Cable

- Cross-linked modified ETFE
- Temperature capability: -65°C to 200°C rated
- Tough dual wall or single wall cross-linked insulations
- Small size lightweight and excellent chemical resistance
- Specifications: Raychem Specification 55, NEMA-WC-27500, SAE AS22759/32 through /35 and AS22759/41 through /46

HOOK-UP WIRE AND CABLE



SPEC 44 Wire and Cable

- Wire and cable constructions with outstanding physical and electrical characteristics
- Temperature rating for continuous operation: -65°C to 150°C
- 600, 1000, and 2500 V rating depending on wall thickness
- Dual wall construction, highly flame retardant, cross-linked, non-melting insulation
- Custom designed wire and cable constructions are available
- Specifications: Raychem Specification 44, MIL-W-81044 (primary wire), NEMA-WC-27500 (cables)

MULTICORE CABLES



Custom Multiconductor Cable

- Temperature capability: -55°C to 200°C rated
- Small size, lightweight
- Specially formulated jacket materials
- System compatibility with other Raychem products
- Optimized shielding to address EMI/EMC problems
- Custom designs tailored to suit unique applications

ELECTROLOSS FILTERLINE WIRE AND CABLE



SPEC 55F Wire and Cable

- High performance
- Suppresses EMI above 100 MHz
- Light weight, small size
- SPEC 55 insulation
- 600 volt
- Temperature rating for continuous operation -65°C up to 200°C

LOW-FIRE-HAZARD WIRE AND CABLE



Zerohal Wire and Cable

- Temperature capability: -55°C to 125°C rated
- 600 V rating
- Dual wall insulation system
- Halogen free and highly flame retardant
- Flexible, tough and easy to install, small size, lightweight
- Low smoke generation, low evolution of toxic fumes and low corrosive by-products

POWER CABLES



SHF-260 Highly Flexible Cable

- Choice of high performance wiring rated materials: -65°C to 260°C
- Size and weight savings and increased flexibility in installation
- Resistant to solvents and chemicals
- Corona resistance
- Arc-resistance of materials
- Mechanically tough designed to meet aggressive applications

OFFSHORE MARINE CABLES



Offshore Marine Cables

- MIL-DTL-24640 custom shipboard cables – low smoke, zero halogen jackets compliant with current MIL-SPEC applications
- MIL-DTL-24643, Cat 5 cables qualified to meet rigorous requirements of flame, smoke emissions and halogen content
- Waterblocked and non-waterblocked constructions available

OFFSHORE MARINE – LIGHTWEIGHT CABLES



C-Lite Cable and C-Lite Fire Resistant Cable

- C-Lite cable is 30% lighter than standard commercial marine cable
- DNV approval to Specification No. 6-827.11.1
- C-Lite cable has a reduced diameter which means a smaller bend radius can be used during installation and the installation requires less space. Reduced diameter means smaller and lower cost accessories, e.g., cable trays, glands etc., that also results in further accessory weight savings for overall better vessel performance

OFFSHORE MARINE – UMBILICAL AND TETHER CABLES



Umbilical and Tether Cables

- Heavy lift umbilical cables, neutrally buoyant and heavy tether cables available
- Small size cables benefit from reduced weight and diameter
- Provides longer length on current handling equipment
- High voltage, high temperature flexible conductors
- Thin wall/lightweight umbilical

OFFSHORE MARINE – ROCHESTER BRAND CABLE



Rochester Brand Electro-Optical and Wireline Cable

- Electro-optical tow
- Side scan sonar tow
- ROV and plow umbilical
- Offshore oil production
- TV inspection cables

REPAIR KITS



Maintenance and Repair Kits

- Customizable to specific platforms – including drawings and instructions
- Custom subassemblies for quick repair
- Designed for use in the field or at a depot
- Lightweight case for easy transportation
- Underwater cable splice for 110 V and 220 V, with aluminum carry case and range of spares available



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