



Wire and Cable

The Industry Standard for Rugged, Reliable Performance

TE Connectivity— A 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 (TE) 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 7000 engineers, 20 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.

TE Components . . . TE Technology . . . TE Know-how . . .

AMP | AGASTAT | CII | HARTMAN | KILOVAC | MICRODOT | NANONICS | POLAMCO | Raychem | Rochester | DEUTSCH
SEACON Phoenix | LL ROWE | Phoenix Optix | AFP | SEACON

Get your product to market faster with a smarter, better solution.

**Hook-Up Wire****SPEC 44 PVDF/PE Wire and Cable**

- Dual-wall construction
 - Resistant to most solvents, fuels and lubricants
- Mil Spec version available

**Hook-Up Wire****SPEC 55 XL-ETFE Wire and Cable**

- Excellent abrasion and cut-through resistance
 - Excellent flexibility
 - Low-fluoride and Electroloss filtering options
- Mil Spec version available

**Low-Fire-Hazard Wire and Cable****Zerohal Wire and Cable**

- Halogen free and highly flame retardant
- 600 V rating
- Dual wall insulation system
- Flexible, tough, easy to install
- -55°C to 125°C temperature range

**Lightweight Marine Cables****C-Lite Cable and C-Lite Fire-Resistant Cable**

- DNV approval to Specification No. 6-827.11.1

- **Small Size, Light Weight, Robust**
 - 30% lighter than standard marine cable
 - Reduced diameter for easy routing
 - Low-fire-hazard performance

**Mil-Spec Offshore Marine Cable****LSZH Performance**

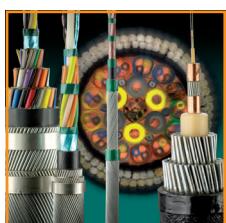
- Low smoke, zero-halogen jackets
- MIL-DTL-24640 custom shipboard cables
- MIL-DTL-24643 Cat 5 cables
- Waterblocked and non-waterblocked constructions available

**VG-95218 Marine Cable****High Performance**

- Speeds to 10 Gb/s
- Rated -55°C to 125°C
- 750/1300 V rating

Mechanically Robust

- Abrasion resistant
- Highly flame retardant
- Halogen-free polymer insulation

**Electro-Optical and Wireline Cable****Rugged and Reliable**

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

**Umbilical and Tether Cables****Thin-Wall Technology**

- Heavy lift umbilical, neutrally buoyant, and heavy tether cables available
- Reduced weight and diameter allow longer lengths
- High voltage, high-temperature flexible conductors

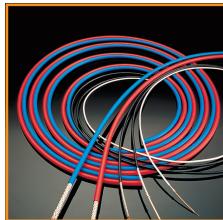
**Electroloss Filterline Wire and Cable****SPEC 55F XL-ETFE Wire and Cable****High Performance**

- Suppresses EMI above 100 MHz
- SPEC 55 insulation
- Rated for continuous operation -65°C to 200°C
- 600 V rating
- Light weight, small size

Mil Spec version available

**Raychem Multicore Cables****Light Weight and Highly Durable**

- Industry-standard components
- Designed to meet specific application needs
- Signal, power, RF, high-speed digital, and optical conductors
- Custom configurations available



Cheminax Controlled Electrical Cable

High Performance

- Low capacitance and attenuation
- High velocity of propagation
- Rated -65°C to +200°C

Adaptable

- Lightweight, small size
- Suitable for demanding video and RF applications
- Highly flexible



Raychem High-Speed Copper Cable

Rugged Choices

- Material choices to match application requirements
- Shielded and unshielded
- Low-smoke, zero-halogen versions available

High-Speed Protocols

- Configurations to support various protocols: Ethernet, Quadrax, USB, etc.



PROFIBUS Cable

Seaworthy

- Designed for shipboard applications
- MIL-DTL-24643/59 through /62 qualified

Safe

- Low smoke, zero-halogen jacket

Fast

- Speeds to 12 Mb/s



SealAN Ethernet Cable

High Speed Networking

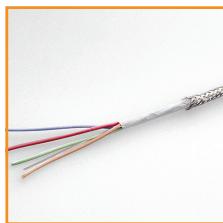
- Cat 5e performance
- Meets MIL-DTL-24643/59 through /62 and ANSI/TIA 568-B.2 requirements

LSZH Performance

- Low smoke, zero-halogen jacket

Shipboard Ready

- Waterblocked and nonwater-blocked constructions
- ASTM D1411 watertight cable



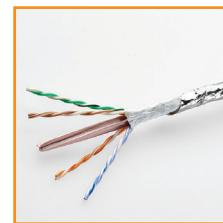
Raychem Cable for IEEE 1394 Applications

Flexible

- Fine-gauge conductors
- Easier routing through tight spaces

Capable

- Wide temperature range, low flammability and smoke generation, and easy termination
- Double-braid shield for excellent signal integrity in noisy environments
- Tough, high-temperature FEP insulation and jacket



Raychem Cat 6a Cable

High Performance

- Excellent signal integrity for 10G Ethernet
- Stable performance from -55°C to +200°C

Rugged

- Designed to survive in harsh environments
- Available for aerospace, defense and marine applications using Raychem cable jacket materials (FDR, ZeroHal)

Compatible

- Compatible with TE's CeeLok FAS-T and CeeLok FAS-X connectors



Raychem SHF-260 Power Cable

Extremely Flexible

- High flex 6x bend radius
- Tight routing bends without jacket wrinkling or cracking

High Temperature

- +260°C

Robust

- Chemical and fluid resistance
- Corona and arc track resistant
- FAR Part 25 flammability



Raychem HI-FLEX Power Cables

FDR25

- Diesel resistant
- -55°C to +125°C
- Notch and abrasion resistant

ZHENS

- ZeroHal
- -40°C to +105°C
- Low smoke

LET'S CONNECT

We make it easy to connect with our experts and are ready to provide all the support you need. Just call your local support number or visit www.te.com/industrial to chat with a Product Information Specialist.

Technical Support

te.com/support-center

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Consult TE for the latest dimensions and design specifications.

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