Wire and Cable
The Industry Standard for Rugged, Reliable Performance

Pushing the Performance Envelope with Solutions Engineered to Your Needs

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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 and 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. And you will find that our sales and application support, logistics, and global presence help you move to production.
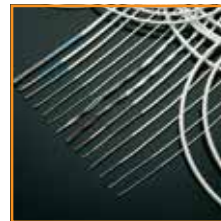
RAYCHEM GENERAL WIRE AND CABLE

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

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 Spec 80 FlexLine Wire and Cable

Flexible Light Weight Hookup Wire
• Operating temperature range: -65° to +200°C
• Voltage rating: 600V
• Single and dual wall constructions
• Conductors available in tin, silver and nickel coated copper
• Conductors available in Aluminum
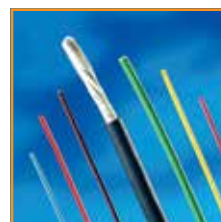• Gauge availability: 28 to 4/0 AWG

Raychem 99M and 100G Cables

TYPE 99M
• Def Stan 61-12 Part 18
• Highly flame retardant
• Low smoke and toxicity

Spec 100
• Zero halogen
• Highly flame retardant

Lightweight Marine Cables

C-Lite Cable and C-Lite Fire-Resistant Cable

Small Size, Light Weight, Robust
• Marine approvals: DNVGL, ABS, BV, CCS, KR, NK and RMRS
• 30% lighter than standard marine cable
• Reduced diameter for easy routing
• Low-fire-hazard performance

RAYCHEM MULTICORE CABLES

Raychem Multicore Cables

Custom Cable Designs
• Available in small order quantities
• Up to 40% smaller than comparable products
• Cost savings over hand-building point-to-point harnesses
• Ability to include data, power, and signal in the same bundle

Raychem Defense Standard 61-12 Part 25 Cables

Light Weight Marine Cables
• Low fire hazard multicore cables
• Stranded tinned copper conductor, LFH insulated Part 18 cores
• Thin wall to reduce size and weight
• Halogen-free cable jacket
• Operating temperature range: -30°C to +105°C

VG-95218 Marine Cables

Alternatives to Part 61-66
• System compatibility
• Increased EMC requirements
• Reduction in weight and diameter
• Significantly increased service life
• Halogen-free cables with low fire hazard

RAYCHEM CONTROLLED IMPEDANCE CABLES

Raychem Cheminax Controlled Electrical Cables

Small Size, Light Weight
• Coax, twinax, triax, balanced line, data bus available
• Improved electrical performance over RG cables
• 25-40% smaller and lighter than RG cables
• J1939-15/11 compliant cables available
• MIL-STD-1553 cables available

RAYCHEM HIGH SPEED COPPER CABLES

Raychem High Speed Copper Cables

- EMI protection
- Increased bandwidth
- Lightening protection
- Reduced size and weight
- Harness component system compatibility
- Ruggedized to survive in harsh environments
- Cat 5e, Cat 6a, Cat 7, 100Base-T, CANbus, IEEE 1394, USB 2.0/3.0, DVI, fiber

Raychem Cat 5e Ethernet Cable

Reliable 100Mb/s and 1 Gb/s Ethernet Cable
- Waterblock capability
- Qualified to MIL-DTL-24643
- Pending AS6070/2 qualification
- Harness components and connector compatibility
- Utilization of low loss foamed dielectrics
- Tested in accordance with ANSI/TIA-568-C.2
- High temperature fluoropolymers offer temperature ranges from -65°C to +200°C

Raychem Cat 6a Ethernet Cable

Data Rates: 10 Gb/s Ethernet Cable
- Excellent signal integrity at 10 Gb/s
- Operating temperature range from -65°C to +200°C
- Pending AS6070/6 qualification
- Harness components and connector compatibility
- Easier to terminate compared to tape wrapped designs

Raychem Cat 7 Ethernet Cable

Data Rates: 10 Gb/s Ethernet Cable
- Excellent signal integrity at 10 Gb/s
- Zero halogen and FDR jacket material available
- Harness components and connector compatibility
- Available in both 24 AWG stranded TCC and 23 AWG solid BC conductor variations

Raychem 100Base-T (or 100Mb) Ethernet Quadrax Cable

Data Rates: 100 Mb/s Ethernet Cable
- Excellent signal integrity at 100 Mb/s
- Smaller size and weight than Cat 5e cables
- Pending AS6070/1 qualification
- Harness component system compatibility

Raychem IEEE 1394 (Firewire) Cable

Data Rates: 100 Mb/s to 3.2 Gb/s
- JSFY18 approved
- Easier routing in confined spaces
- Smaller cable bundles for improved installation
- Double braid to achieve excellent signal integrity
- Tough, high-temperature FEP insulation and jacket

Raychem CANbus Cable

Data Rates: 1 Mb/s
- Flexible design
- Abrasion resistant
- High performance, 120Ω twisted pair
- Shielded and unshielded variations available
- Easier to terminate when compared to tape-wrap designs
- Designs available to SAE J1939-11 and -15 requirements

Raychem USB Cable

Data Rate: Up to 480 Mb/s (USB 2.0) and 5 Gb/s (USB 3.0)
- USB 2.0 & USB 3.0 available
- Flexible design
- Abrasion resistant
- Custom designs available
- Designs available with operating temperature range: -65°C to +200°C

RAYCHEM HIGH SPEED COPPER CABLES

Raychem DVI Cable

Data Rate: 3.96 Gb/s to 7.92 Gb/s
- Custom designs available
- HD video coaxial cables
- Primarily used for video displays and uni-directional data transfer

Fiber Cable

Designs Available for Harsh Military and Aerospace Environments
- Meets requirements of BMS 13-71
- Meets requirements of ARINC 802
- Meets requirements of Def Stan 61-12 Part 31
- TE connector compatibility
- Designs available for shipboard marine cable using multimode and single mode fiber

RAYCHEM POWER CABLES

Raychem SHF-260 Power Cable

Flexible High Temperature Power Feeder
- Operating temperature range: -65° to +260°C (10k hours)
- Operating temperature range: -65° to +290°C (500 hours)
- Voltage rating: 1000V
- Tight routing bends without jacket wrinkling or cracking
- Conductors available in nickel coated copper
- Gauge availability: 24 to 4/0 AWG

Raychem Spec 80 FlexLine Wire and Cable

Flexible Light Weight Hookup Wire to Power Feeders
- Operating temperature range: -65° to +200°C
- Voltage rating: 600V
- Single and dual wall constructions
- Conductors available in tin, silver and nickel coated copper
- Conductors available in aluminum
- Gauge availability: 28 to 4/0 AWG

Raychem HI-FLEX Power Cable

FDR25S
- Diesel fuel resistant
- Tight routing bends without jacket wrinkling or cracking
- Very flexible with tight bend radius (3x static, 6x dynamic)
- Gauge availability: 16 to 4/0 AWG
- Available colors: orange, red, black
- Braided jacketed cables available

ZHENS
- Zero halogen, low smoke
- Tight routing bends without jacket wrinkling or cracking
- Flexible with tight bend radius (4x static, 8x dynamic)
- Gauge availability: 8 to 4/0 AWG
- Dual wall construction

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 te.com to chat with a Product Information Specialist.

Technical Support

te.com/support-center

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