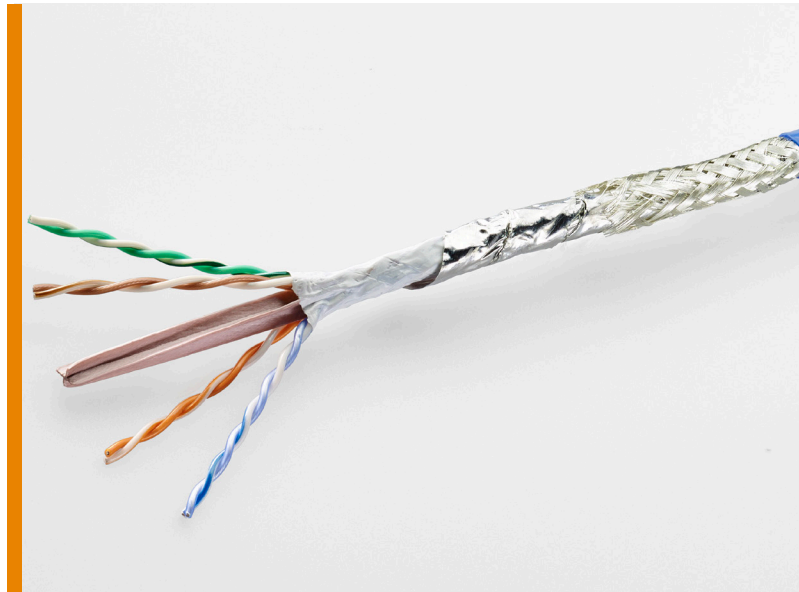


INTRODUCING RAYCHEM HIGH SPEED ETHERNET CAT 6A CABLE

- Provide excellent 10G signal integrity and performance stability over a temperature range as wide as -55°C to +200°C.
- Designed to withstand harsh environments



TE Connectivity (TE) introduces the Raychem high speed Ethernet CAT 6A cable, offering up to 10 Gb/s speeds while saving space, helping to meet the demands of harsh military and aerospace environments. Raychem CAT 6A are fully shielded, four-pair cables meeting the electrical requirements of ANSI/TIA-568-C.2 for Category 6a cable. The cable's FEP insulation and jacket allow a reduced diameter cable, when compared to standard commercial Cat 6a cables, while stranded conductors provide high flexibility in routing. Compared to commonly used tape-wrapped cables, Raychem Cat 6a cables are easier to terminate and are compatible with common high-speed aerospace and military connectors, including TE's high-performance 10 Gb/s CeeLok FAS-T and CeeLok FAS-X connectors.

KEY BENEFITS

- Provide excellent 10G signal integrity and performance stability over a temperature range from -55°C to +200°C
- Offer high performance with the ability to support 100m links
- Designed to withstand harsh environments
- Offer a reduced size and weight option
- Help save time with an easy-to-terminate cable, compared to tape-wrapped designs
- Provides flexibility with tight bend radius for easier routing
- Compatible with most high-speed aerospace connectors, including TE's CeeLok, FAS-T and CeeLok FAS-X connectors

MATERIALS

- Conductors:
 - 24 AWG: Stranded silver-coated copper alloy
 - 26 AWG: Stranded silver-coated high-strength copper alloy
- Dielectric: FEP
- Core Wrap: PTFE (26 AWG cables only)
- Shielding:
 - 200°C Rated Cables: Silver-coated copper braid an aluminum/polyimide foil wrap
 - 150°C Rated Cables: Tin-coated copper braid an aluminum/polyester foil wrap
- Jacket: FEP, in colors per MIL-STD-681 or laser-markable white

LEARN MORE

[Raychem CAT 6A Product Listing Page](#)

[Raychem CAT 6A Cable Brochure](#)

[Raychem CAT 6A Parts List](#)

CeeLok FAS-T, CeeLok FAS-X, Raychem, INSTALITE, TE Connectivity, TE and TE connectivity (logo) are trademarks.

APPLICATIONS

- Military and Commercial aerospace
- In-flight entertainment systems
- Flight control
- Avionics
- Cabin management systems
- Military ground vehicles
- Formula 1 motorsport

ELECTRICAL

- Standard Impedance (Nom.): 100 ohms
- Attenuation (Max.) at 500 MHz:
 - 24 AWG: 54.4 ohms/100m
 - 26 AWG: 67.9 ohms/100m
- Mutual Capacitance (Max.) at 1 kHz: 5.6 nF/100m
- DC Resistance (Nom.) at 20°C: 43.9 ohms/1000 ft.
- Velocity of Propagation (Nom.): 70%

MECHANICAL

- Temperature Range: -55°C to 150°C or 200°C
- Bend Radius (Min.):
 - 24 AWG: 1.0 in.
 - 26 AWG: 0.75 in.

STANDARDS & SPECIFICATIONS

- Ethernet Cable: ANSI/TIA-568-C.2 and IEEE 801.3
- Environmental Testing: WC 27500/AS6070
- Smoke and toxicity:
 - Boeing and Airbus ABD0031 standards
 - FAR Part 25, Appendix F, Part 1
- TE Product Specification: 1200/1400

