

# INTRODUCING RAYCHEM USB 3.1 CABLE

- Provides up to 10 Gb/s data rates
- Supports USB 2.0



TE Connectivity's (TE) new USB 3.1 cable provides up to 10 Gb/s and USB 3.1 power supporting commercial and military aerospace applications. This cable also supports USB 2.0 legacy applications.

## TARGET MARKETS

- Commercial Aerospace
- Military Aerospace
- eVTOL (electric Vertical Take Off and Landing)
- UAM (Urban Air Mobility)
- UAV (Unmanned Aerial Vehicles)

## APPLICATIONS

- In-Flight Entertainment (IFE)
- Data Transfer
- Missiles
- Avionic Systems

## KEY BENEFITS

### REDUCED HARNESSING TIME AND COST

- Use of an extruded component and jacket leads to simplified termination when compared to competitors using tape wrap construction

### INCREASED USB DATA RATES

- Provides power for USB 3.1 while still providing legacy USB 2.0 support
- Double the bandwidth of USB 3.0

## ENVIRONMENTAL

- Temperature Range: -65°C to +200°C
- Flammability: Meets the requirements of FAR part 25, Appendix F, Part 1 when tested in accordance with the 60-degree test as specified
- Jacket Tensile Strength: 2000 psi min.
- Jacket Elongation: 200% min.

## ELECTRICAL

- Impedance: Legacy pairs: 90 +/- 13.2 ohms  
USB 3.1 pairs: 90 +/- 5 ohms
- Voltage Withstand: 1500 Vrms conductor to conductor  
500 Vrms conductor to shield
- Velocity of Propagation (nom.): 74%
- Capacitance (nom.): 15.5 pF/ft (50.9 pF/m)
- Skew (nom.): 4.6 ps/ft (15 ps/m)

## STANDARDS & SPECIFICATIONS

- USB 3.1
- TE Product Specification: 1200
- Smoke Density and Toxicity: BSS7238 and BSS7239
- Environmental Testing, Jacket and Marking: ANSI/NEMA WC 27500

## LEARN MORE

[USB 3.1 Landing Page](#)

[USB 3.1 Brochure](#)

[USB 3.1 Part List](#)