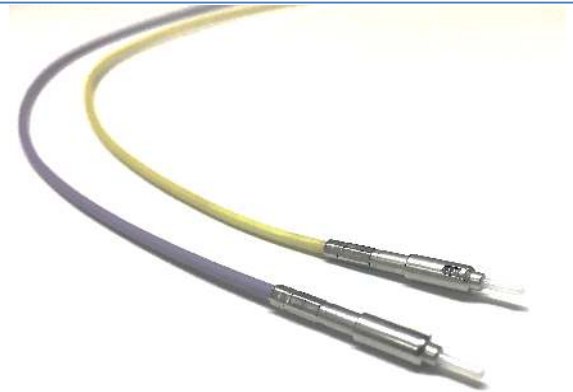


Features:

- Wide operating temperature range of -60°C to $+135^{\circ}\text{C}$
- Negligible attenuation changes over temperature
- Meets smoke, flammability and toxicity levels per ARINC 802-2
- Shock and vibration resistant
- Accepts military, aerospace, or telecomm connectors and termini
- Kink resistant design and construction
- 1.8mm fluoropolymer jacketing in multiple colors
- 900um Thermoplastic buffer



GORE® Aerospace Fiber Optic Cables are ideal for harsh environments including military and aerospace applications



General Description

COTSWORKS' uses GORE® Aerospace Fiber Optic Cables for inside of Line Replaceable Units because it offers the best performing bend radius and durability. The standard cable offering contains a 62.5um OM1 fiber in a semi-loose ePTFE buffer surrounded by a strength member. The 1.8mm fluoropolymer jacketing provides added protection. The cable is designed for applications where temperature ratings exceed $+100^{\circ}\text{C}$ (epoxy dependent). Stock colors are yellow and violet with other colors available.

GORE® Aerospace Fiber Optic Cable Assemblies

| | | | |
|------------------------------------|------|----------------------------------|------------------------|
| Flammability per FAA 60° FAR25.853 | Pass | Minimum Operating Temperature | -60°C |
| Smoke Density per BSS 7238 | Pass | Maximum Operating Temperature | $+135^{\circ}\text{C}$ |
| Toxicity per BSS 7239 | Pass | Insertion Loss (LC to ARINC 801) | $\leq 0.6 \text{ dB}$ |

Fiber Specifications

| | | | |
|--------------------------|----------------------------|------------------------------|-----------------------|
| Core Diameter | 62.5/125/245 | Numerical Aperture | 0.275 |
| Cladding Diameter | $125.0 \pm 2.0\mu\text{m}$ | Attenuation/km @850nm | $\leq 2.9 \text{ dB}$ |
| Core-Clad Concentricity | $\leq 3\mu\text{m}$ | Attenuation/km @1300nm | $\leq 0.6 \text{ dB}$ |
| Cladding Non-Circularity | $\leq 2.0\%$ | Bandwidth @850nm | 2.0 dB/Km |
| Core Non-Circularity | $\leq 5.0\%$ | Bandwidth @1300nm | 4.0 dB/Km |
| Coating Diameter | $245 \pm 5\mu\text{m}$ | Minimum Fiber Proof Strength | 100Kpsi |
| Minimum Bend Radius | 17mm | | |

Ordering Information

Contact COTSWORKS for custom cable configurations.