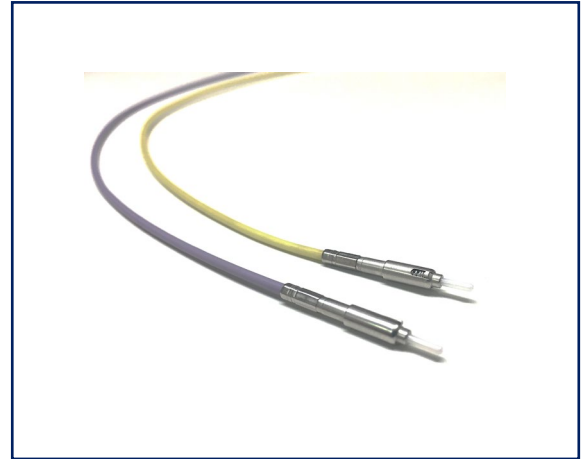


## Features:

- Wide operating temperature range of  $-60^{\circ}\text{C}$  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 telecom 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**



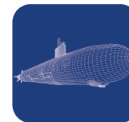
COMMERCIAL  
AEROSPACE



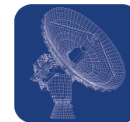
MILITARY  
AEROSPACE



MILITARY  
TACTICAL



SUBSEA  
NETWORKING



RADAR &  
SENSING



OIL &  
EXPLORATION

## 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	$-60^{\circ}\text{C}$
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.

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