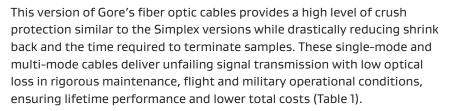
# GORE® Fiber Optic Cables (900 micron)



Gore's 900-micron optical fiber cables incorporate smaller, lighter, and highly flexible materials that are easy to route — making them an excellent choice for inside-the-box applications. They can also be packaged with GORE® Cable Protection Systems for outside-the-box applications.

#### **Typical Applications**

- Inside-the-box
- Outside-the-box
- Transceivers

#### Standards Compliance

- ABD0031 (AITM 2.0005);
  BSS7230; FAR Part 25, Appendix
  F, Part I: Flammability
- ABD0031 (AITM 3.0008B);BSS7238; FAR Part 25, AppendixF, Part V: Smoke Density
- ABD0031 (AITM 3.0005);
  BSS7239: Toxicity
- ARINC 802-3: Performance Requirements (GSC-13-85067-00)

#### **Table 1: Cable Properties**

# **Optical**

Property	Value		
Signal Transmission Speed Gb/s	Up to 100		
Maximum Optical Loss at 850 nm dB/km	3.0		
Maximum Optical Loss at 1310 nm dB/km	1.0		

### Mechanical / Environmental

Property	Value			
Jacket Material	PEEK			
Jacket Color	Tan			
Core Type	Single Mode or Multi-Mode			
Coating Type	High-Temperature Acrylate			
Buffering System	Expanded PTFE			
Temperature Range °C	-60 to +135			



**Table 2: Cable Characteristics** 

Gore Part Number	Core Type	Core/ Cladding/ Coating	Nominal Outer Diameter mm (in)	Minimum Bend Radius mm (in)	Nominal Weight g/m	Maximum Tensile Strength N
GSC-13-85067-00	OM1 (Multi-Mode)	62.5/125/245	0.9 (0.035)	18.0 (0.71)	0.85	50
GSC-13-85424-00	OM4 (Multi-Mode)	50/125/245	0.9 (0.035)	18.0 (0.71)	0.85	50
GSC-13-85375-00	SM (Single Mode)	9/125/245	0.9 (0.035)	18.0 (0.71)	0.85	50
GSC-13-85869-00	OM5 (Multi-Mode)	50/125/245	0.9 (0.035)	18.0 (0.07)	0.85	50

## Connector Systems & Backshells

GORE® Fiber Optic Cables are designed to fit a variety of high-speed aerospace and defense connector systems and backshells such as ARINC, MIL-STD-38999, and MIL-PRF-29504. Contact the specific manufacturer such as Amphenol®, COTSWORKS®, Glenair®, and Radiall for exact part numbers, tooling information, and termination instructions.

# Samples & Ordering Information

The 900 micron version of GORE® Fiber Optic Cables is available in standard sizes (Table 2). To place an order, contact an authorized distributor for in-stock availability at **gore.com/cable-distributors**. To view our full inventory and order complimentary samples of selected products for prototyping and evaluation in your application, visit **gore.com/hsdc-sample-inventory-air-defense**.

For more information or to discuss specific characteristic limits and application needs — including fiber options packaged with GORE® Cable Protection Systems for outside-the-box applications, contact a Gore representative today at gore.com/aerospace-defense-contact.

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