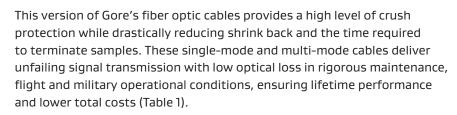
GORE® Fiber Optic Cables (900 micron)



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 systems.

Typical Applications

- Inside-the-box devices
- Outside-the-box systems
- Transceivers

Standards Compliance

- ABD0031 (AITM 2.0005);BSS7230; FAR Part 25, AppendixF, Part I: Flammability
- ABD0031 (AITM 3.0008B);
 BSS7238; FAR Part 25, Appendix
 F, 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, Graded Index
Coating Type	High-Temperature Acrylate
Buffering System	ePTFE / Crush-Resistant Layer OD: 900 microns (Nominal)
Temperature Range °C	-65 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, Graded Index)	62.5/125/245	0.9 (0.035)	18.0 (0.71)	0.85	50
GSC-13-85424-00	OM4 (Multi-Mode, Graded Index)	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, Graded Index)	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, contact a Gore representative for aerospace and defense today.

Information in this publication corresponds to W. L. Gore & Associates' current knowledge on the subject. It is offered solely to provide possible suggestions for user experimentations. It is NOT intended, however, to substitute for any testing the user may need to conduct to determine the suitability of the product for the user's particular purposes. Due to the unlimited variety of potential applications for the product, the user must BEFORE production use, determine that the product is suitable for the intended application and is compatible with other component materials. The user is solely responsible for determining the proper amount and placement of the product. Information in this publication may be subject to revision as new knowledge and experience become available. W. L. Gore & Associates cannot anticipate all variations in actual end user conditions, and therefore, makes no warranties and assumes no liability in connection with any use of this information. No information in this publication is to be considered as a license to operate under or a recommendation to infringe any patent right.

NOTICE — USE RESTRICTIONS APPLY. Not for use in food, drug, cosmetic or medical device manufacturing, processing, or packaging operations.

Amphenol is a registered trademark of Amphenol Corporation. COTSWORKS is a registered trademark of COTSWORKS, LLC. Glenair is a registered trademark of Glenair, Inc.

GORE, Together, improving life, and designs are trademarks of W. L. Gore & Associates. © 2025 W. L. Gore & Associates, Inc.

