

GORE Aerospace Fiber Optic Cables



Reliable signal transmission in challenging environments

Engineered with a unique buffering system, GORE® Aerospace Fiber Optic Ribbon Cables provide durable protection in challenging conditions while maintaining high-speed communication on avionics networks. These cables deliver reliable signal transmission in temperatures ranging from -60°C to 135°C (Tables 1 and 2).

The smaller construction of GORE® Aerospace Fiber Optic Ribbon Cables provides increased flexibility with a tight bend radius for easy installation in confined areas of an aircraft. These cables are crush- and abrasion-resistant while providing reliable signal integrity before and after installation.

TYPICAL APPLICATIONS

- · Avionics networks
- Digital video systems
- Cabin management systems
- Flight management systems
- In-flight entertainment (IFE) systems
- Ethernet backbone
- Transceivers
- Weather radar systems



TABLE 1: PRODUCT SPECIFICATIONS¹

		Part Number				
Property		FON 1214		FON 1256		FOA 8100
ELECTRICAL/MECH/ENVIRONMENT	Maximum Optical Loss at 850 nm (dB/km)	5.0	4.0	5.0	4.0	5.0
	Core/Cladding/Coating	62.5/125/250	50/125/245	62.5/125/245	50/125/245	50/125/245 62.5/125/245
	Jacket Color	White				Orange
	Overall Diameter mm (in)	0.245 (0.01)				
	Overall Thickness mm (in)	0.45 (0.018) 2.29 (0.090)				
	Minimum Bend Radius mm (in)	30 (1.18)				
EL	Temperature Range (°C)	-60 to	135	-60 to 85		

¹ Cables are available in a variety of configurations. Product specifications are for typical configurations.



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Technical Note

TABLE 2: QUALIFICATIONS SUMMARY

Examination or Test	Standard	Status
Humidity	MIL-STD-202, Method 103	Passed
Salt Fog	MIL-STD-810, Method 509	Passed
Sand and Dust	MIL-STD-210	Passed
Flammability	FAR25.869	Passed
Smoke	BSS-7238	Passed
Toxicity	BSS-7239	Passed
Chemical Exposure SKYDROL® 500 B4 hydraulic fluid Hydraulic fluid JP-4 / JP-5 fuel 100/130 aviation fuel Mobil™ 650 oil Dynalene HC -50 coolant Synthetic Lube	MIL-H-5606	Passed

ORDERING INFORMATION

For more information regarding specific design requirements or to place an order for GORE® Aerospace Fiber Optic Ribbon Cables, submit a request at www.gore.com/contact.

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

