FlightLinx® PLUS Fiber Optic Cable

P/N: C79598

Overview

FlightLinx PLUS Fiber Optic Cable is designed for in-flight entertainment, internet access, networking and display systems used in commercial aircraft.

FlightLinx PLUS Fiber Optic Cable is a 1.8 mm ruggedized single jacket cable design that meets or exceeds ARINC 802 performance requirements without the need for a double jacket. The high performing construction consists of a tight buffered fiber within a loose structure cable which allows for reliable pull-proof termination and helps prevent kinking, epoxy wicking and fiber breakage during and after deployment. The buffer tube provides additional crush and impact protection for harsh installations in aircraft. The braided strength member allows for high strength, flexibility and reliability during bending. The FlightLinx PLUS Fiber Optic Cable design provides proven stability over temperature and thermal shock for low shrinkage.

This 1.8 mm cable design addresses the demand for lighter weight and improved aircraft fuel efficiency. Premium 62.5 µm multimode OFS optical fiber offers increased bandwidth for data communications.

Typical Applications

Inflight Entertainment

Internet Access

Networking and Display Systems Used in Commercial Aircraft

ofs
A Furukawa Company

FlightLinx® PLUS Fiber Optic Cable

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Product Specifications	
Product Description	**FlightLinx PLUS Fiber Optic Cable**
Physical Characteristics	
Cable Construction	Multimode Graded-Index Simplex
Core Diameter	62.5 ± 3 µm
Cladding Diameter	125 ± 2 µm
Coating Type 2 Diameter	245 ± 10 µm
Buffer Diameter (Tight Buffer)	400 ± 50 µm
Buffer Tube Diameter	950 ± 50 µm
Outer Cable Diameter	1.80 mm
Cable Weight	4.0 kg/km
Outer Jacket Material	PFA
Outer Jacket Color	Light Purple
Optical Characteristics	
Attenuation @ 1300 nm	≤ 2 dB/km
Attenuation @ 850 nm	≤ 4 dB/km
Bandwidth @ 1350 nm	≥ 500 MHz-km
Bandwidth @ 850 nm	≥ 200 MHz-km
Numerical Aperture	0.275 ± 0.015
Mechanical and Environmental	
Maximum Installation Tensile Load	19.3 lb. (86 N)
Maximum Operating Tensile Load	9.7 lb. (43 N)
Minimum Bend Radius Under Load	25 mm
Minimum Bend Radius Unloaded	8 mm
Operating Temperature	-55 to +100 ºC
Storage Temperature	-55 to +85 ºC
Flammability: FAR 25.869	Extinguish Time: 0 Seconds Max Burn Length: < 1.4 inches
Flammability: FAR 25.853	Extinguish Time: 2.8 Seconds Max Burn Length: 2.8 inches
Smoke Density	Ds @ 20 Minutes: <37.0
Order by Part Number	**C79598**

NOTE: The operating temperature ranges are general guidelines. Consult with our Technical Sales department to determine the optimal coating and jacketing material for your specific application. 1.860.678.6636.

For additional information please contact your sales representative.

You can also visit our website at www.ofsoptics.com or call 1-888-fiberhelp (1-888-342-3743) USA or 1-770-798-5555 outside the USA.

OFS Marketing Communications
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