



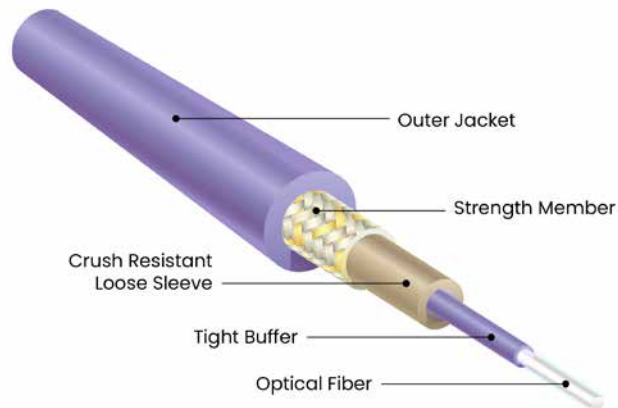
FlightLinx® PLUS Fiber Optic Cable

Overview

FlightLinx® PLUS Fiber Optic Cable designed for inflight 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 designed to meet or exceed 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 50 μm , 62.5 μm and bend-insensitive single-mode OFS optical fiber offers increased bandwidth for data communications.



Typical Applications

Inflight Entertainment

Internet Access

Networking and Display
Systems Used in
Commercial Aircraft



Product Specifications			
Physical Characteristics			
Cable Construction	Multimode Graded-Index Simplex	Multimode Graded-Index Simplex	Single-mode Bend-Insensitive Simplex
Core Diameter	62.5 ± 2.5 µm	50 ± 2.5 µm	
Cladding Diameter	125 ± 1.0 µm	125 ± 1 µm	125 ± 1 µm
Coating Type 2 Diameter	245 ± 10.0 µm	242 ± 5.0 µm	240 ± 5.0 µm
Buffer Diameter	400 ± 50 µm	400 ± 50 µm	400 ± 50 µm
Buffer Tube Diameter	950 ± 50 µm	950 ± 50 µm	950 ± 50 µm
Outer Cable Diameter	1.8 mm	1.8 mm	1.8 mm
Cable Weight	≤ 4 kg/km	≤ 4 kg/km	≤ 4 kg/km
Outer Jacket Material	Fluoropolymer	Fluoropolymer	Fluoropolymer
Outer Jacket Color	Light Purple	Light Purple	Light Purple
Optical Characteristics			
Attenuation @ 850nm	≤ 6 dB/km	≤ 4 dB/km	
Attenuation @ 1300nm	≤ 3 dB/km	≤ 2 dB/km	
Attenuation @ 1310nm			≤ 1.2 dB/km
Attenuation @ 1550nm			≤ 1.0 dB/km
Bandwidth @ 850nm	≥ 200 MHz-km	≥ 4700 MHz-km	
Bandwidth @ 1300nm	≥ 500 MHz-km	≥ 500 MHz-km	
Numerical Aperture	0.275 ± 0.015	0.2 ± 0.01	
Mechanical and Environmental			
Maximum Installation Tensile Load	19.3 lbs (85.85 N)	19.3 lbs (85.85 N)	19.3 lbs (85.85 N)
Maximum Operating Tensile Load	9.7 lbs (43.14 N)	9.7 lbs (43.14 N)	9.7 lbs (43.14 N)
Minimum Bend Radius Under Load	25 mm	25 mm	25 mm
Minimum Bend Radius Unloaded	8 mm	8 mm	8 mm
Operating Temperature	-65 to 135 °C	-65 to 135 °C	-65 to 135 °C
Storage Temperature	-55 to 85 °C	-55 to 85 °C	-55 to 85 °C
Standard	ARINC 802, Appendix B, cable bend & impact resistance to Appendix D		
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.



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