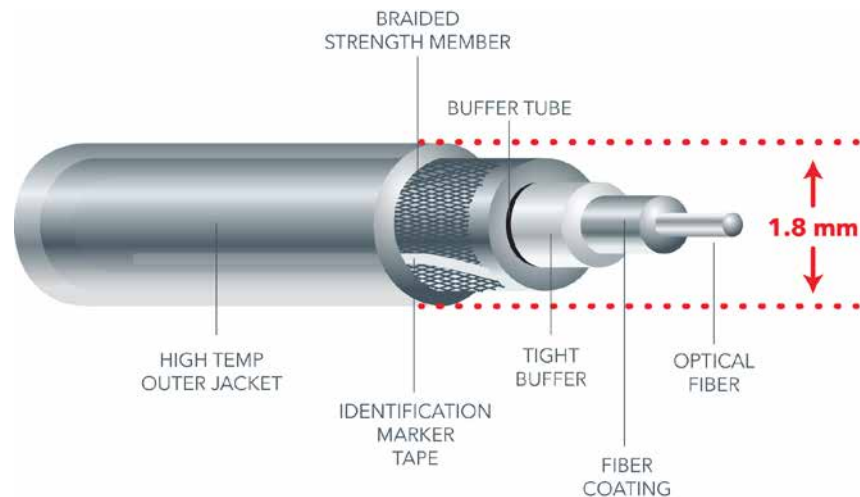# FlightLinx® PLUS Fiber Optic Cable
Avionics Optical Cable for Commercial Aircraft

Flexible, Reliable, Light Weight, Ease of Termination,
Qualified to ARINC 802

www.ofsoptics.com

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 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 OFS optical fiber offers increased bandwidth for data communications.

TYPICAL APPLICATIONS
inflight entertainment, internet access, networking and display systems used in commercial aircraft

FlightLinx® PLUS Fiber Optic Cable
Avionics Optical Cables for Commercial Aircraft

Ease of Termination

Physical Dimensions & Optical Performance	
Buffered Fiber Properties	
Core Diameter	62.5 ± 3 μm
Cladding Diameter	125 ± 2 μm
Numerical Aperture (NA)	0.275 ± 0.015
Coating Diameter	245 ± 10 μm
Buffer Diameter (Tight Buffer)	0.400 ± 0.050 mm
Buffer Tube Diameter	0.950 ± 0.50 mm
Cable Optical Properties	
Bandwidth @ 850 nm	> 200 MHz-km
Bandwidth @ 1300 nm	> 500 MHz-km
Fiber Proof Strength	100 kpsi, minimum
Optical Attenuation	2 dB/km @ 1300 nm 4 dB/km @ 850 nm
Cable Design	
Weight	4.0 kg/km
Outer Cable Diameter	1.80 mm
Installation and Usage Specifications	
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 Uploaded	8 mm
Cable Tensile Strength & Elongation	3% max elongation @ 30 kg load
Operating Temperature	-55 to 100 °C
Storage Temperature	-55 to 85 °C
Order by Item #C79598	

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.

RoHS Compliant
EU Directive 2002/95/E