



µlinx® FIBER OPTIC CABLES  
Avionics



## **FIBER OPTIC CABLE SOLUTIONS FOR MANNED AND UNMANNED AVIONICS**

High strength, high reliability, light weight and wide temperature performance.

OFS | [WWW.OFSOPTICS.COM](http://WWW.OFSOPTICS.COM)  
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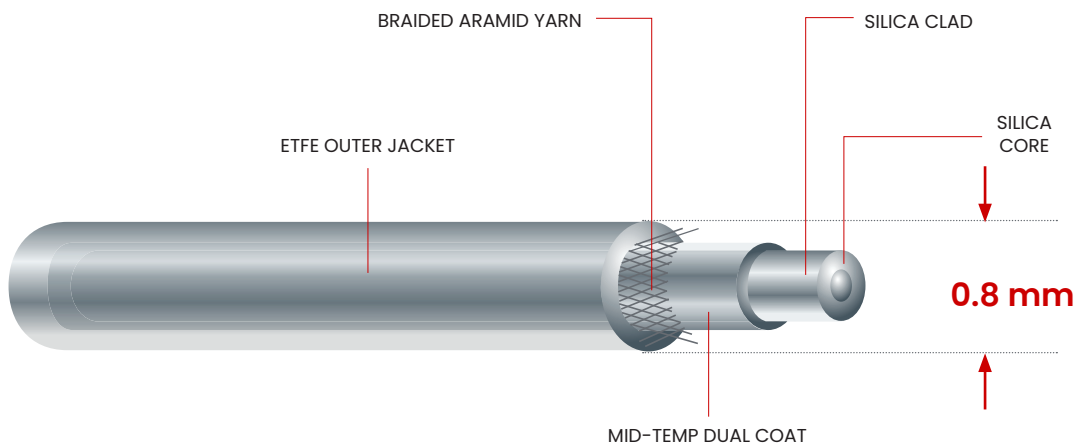


## μlinx® Fiber Optic Cables

### Avionics

OFS Micro-Links (μlinx) Avionics Fiber Optic Cables are designed to offer optimal performance in the avionics environment where high strength, high reliability, light weight and wide temperature performance (-65 to 150 °C) are absolutely necessary. μlinx cables have an outer diameter of only 0.8 mm (0.03") the approximate thickness of a credit card, and weight just 0.7 grams/m. The Mid-Temp Dual Coat fiber is braided with aramid yarn for high strength and jacketed with ETFE for abrasion and chemical resistance. μlinx cable has passed the FAR 25.896 60° burn test, and the Boeing flame, smoke, and toxicity tests defined in ARINC 802.

OFS has a long history of manufacturing fiber and cables for military and commercial aircraft and recommends μlinx Avionics Fiber Optic Cables for communication systems on manned and unmanned aircraft. μlinx Avionics Fiber Optic Cables are available in bend optimized single-mode, 50 μm OM3 multimode, or 62.5 μm multimode graded-index fiber designs.



# FIBER OPTIC CABLE SOLUTIONS

FOR UNMANNED AVIONICS ENVIRONMENTS

| μlinx Avionics Cables        |   |   |   |
|------------------------------|---|---|---|
| PRODUCT NAME                 | μlinx SM – Avionics                               | μlinx 50 OM3 – Avionics                       | μlinx 62.5 – Avionics                         |
| Core size                    |   | 50 μm   | 62.5 μm                                       |
| Mode Field Diameter          | 8.5 – 9.3 μm @ 1310 nm<br>9.5 – 10.5 μm @ 1550 nm |   |   |
| Attenuation                  | ≤ 0.8 dB/km @ 1310 nm<br>≤ 0.5 dB/km @ 1550 nm    | ≤ 5.0 dB/km @ 850 nm<br>≤ 3.0 dB/km @ 1300 nm | ≤ 5.0 dB/km @ 850 nm<br>≤ 3.0 dB/km @ 1300 nm |
| Bandwidth                    |   | ≥ 2000 MHz/km @ 850 nm                        |   |
| Clad/Coating OD, Material    | Mid Temperature 125/250, Dual Coat                |   |   |
| Cable Diameter               | 0.8 ± 0.05 mm                                     |   |   |
| Outer Jacket                 | ETFE  |   |   |
| Strength Member              | Braided aramid yarn                               |   |   |
| Cable Weight                 | ≤ 0.75 kg/km (0.50 lb/kft)                        |   |   |
| Operating Temp               | -65 to +150 °C                                    |   |   |
| Storage Temp                 | -40 to +85 °C (Limited by spool)                  |   |   |
| Min Bend Radius Operation    | 8 mm (0.31")                                      |   |   |
| Min Bend Radius Installation | 12 mm (0.47")                                     |   |   |
| Tensile Load Installation    | 100N (22.5 lbs)                                   |   |   |
| Tensile Load Operating       | 38N (8.5 lbs)                                     |   |   |
| Order by Part Number         | C60697  | C26490  | C25821  |

**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. Customized designs available upon request.



**For additional information please contact your sales representative.**

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



**For a full list of  
our certifications,  
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