Overview

With more than 35 years of experience manufacturing fiber optic products for the aerospace and defense markets, OFS is proud to offer a wide range of specialty solutions that meet stringent industry standards. We work to help ensure optimal quality, reliability, and safety to streamline and facilitate complex, sensitive operations.

OFS FlightLinx Bend Optimized Single-mode, Multimode fiber optic cables are designed for use in commercial aircraft. FlightLinx cables meet or exceed requirements of ARINC 802 for tight buffered cables used in commercial aircraft. Compatible with connectors and/or termini designed for tight jacket construction.

Typical Applications

Display Systems
In-Flight Entertainment Systems
In-Flight Networking Systems
## Product Specifications

### FlightLinx® Bend Optimized Single-Mode Fiber Optic Cable

### Physical Characteristics

<table>
<thead>
<tr>
<th>Product Description</th>
<th>FlightLinx Bend Optimized Single-Mode Cable</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cable Construction</td>
<td>Single-mode Simplex</td>
</tr>
<tr>
<td>Cladding Diameter</td>
<td>125 ± 1 µm</td>
</tr>
<tr>
<td>Coating Diameter</td>
<td>400 ± 25 µm</td>
</tr>
<tr>
<td>Coating Material</td>
<td>Silicone</td>
</tr>
<tr>
<td>Buffer Diameter</td>
<td>900 ± 50 µm</td>
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<tr>
<td>Buffer Material</td>
<td>Black PFA</td>
</tr>
<tr>
<td>Outer Cable Diameter</td>
<td>1.8 ± 0.1 mm</td>
</tr>
<tr>
<td>Cable Weight</td>
<td>≤ 4.0 kg/km</td>
</tr>
<tr>
<td>Outer Jacket Material</td>
<td>PFA</td>
</tr>
<tr>
<td>Outer Jacket Color</td>
<td>Light Purple</td>
</tr>
</tbody>
</table>

### Optical Characteristics

- Mode Field Diameter @ 1310 nm: 8.9 ± 0.4 µm
- Mode Field Diameter @ 1550 nm: 10 ± 0.5 µm
- Attenuation @ 1310 nm: ≤ 1.0 dB/km
- Attenuation @ 1550 nm: ≤ 0.70 dB/km
- Fiber Cutoff Wavelength: ≤ 1260
- Operating Wavelength: 1310 nm, 1550 nm

### Mechanical and Environmental

- Installation Load (Maximum): 19.3 lb. (86 N)
- Operating Load (Maximum): 9.7 lb. (43 N)
- Minimum Bend (Installation): 25 mm
- Minimum Bend (Operating): 8 mm
- Operating Temperature: -55 to +200 ºC
- Storage Temperature: -55 to +85 ºC
- Flammability: FAR 25.869 Extinguish Time: 0 Seconds Max Burn Length: < 1.4 inches
- Smoke Density: Ds @ 20 Minutes: <23.5

### Order by Part Number

- C24895

**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.

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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.