**OPERATING TEMPERATURE**

IN HARSH ENVIRONMENT.

**ZED FIBER OPTIC CABLES**

MANUFACTURED VERTICALLY INTEGRATED, OPTICAL FIBER CABLES. CABLE HAS BEEN DESIGNED FOR THIS APPLICATION. AXON MANUFACTURE OF CUSTOM MULTIFIBER OPTIC CABLES IN THE DESIGN AND MANUFACTURE OF CUSTOM DESIGNED CABLES. AXON IS ABLE TO MANUFACTURE OPTIMIZED FIBER OPTIC CABLES ADAPTED FOR APPLICATIONS IN HARSH ENVIRONMENT.

**Advantages**

- Light weight
- Electromagnetic immunity
- Tight structure for a safer and better connection
- Resistance to harsh environment
- Tensile strength: > 200 N.
- UV laser marking.
- Operating temperature: -60°C to +135°C
- Very low shrinkage allowing very stable performance after cabling.
- Easy cable stripping.
- ITAR-Free (manufactured in France).
- Over 100 m in one length.

**Applications**

Designed for applications including defense & milaero which require:

- Weight saving.
- Immunity to electromagnetic interference.
- High data rate.
- Examples: tank turrets, avionics systems, space, drones & avionics equipment.

**Examples**

**Custom designed cables**

**Single Fiber Optic Cables**

- Single Mode 9/125 mm

**Standard range**

- Single Fiber Optic Cables Multimode 50/125 1.8 mm
- Single Fiber Optic Cables Multimode 62.5/125 1.8 mm
- Single Fiber Optic Cables Single Mode 9/125 mm

**Axopt® optical fiber cables**

**Core Cladding**

<table>
<thead>
<tr>
<th>Fiber</th>
<th>Core/Cladding</th>
<th>Primary Buffer</th>
<th>High Temperature Acrylate</th>
<th>ETFE (Black)</th>
<th>PTFE 0.9 mm</th>
<th>Copper</th>
<th>PTFE 9/125</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Single Mode 9/125</td>
<td>ETFE (Black)</td>
<td>0.96 ± 0.05 mm</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Multimode 50/125</td>
<td>ETFE (Black)</td>
<td>1.80 ± 0.2 mm</td>
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<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Multimode 62.5/125</td>
<td>ETFE (Purple)</td>
<td>0.025 + 0.05 mm</td>
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<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Single Mode 9/125</td>
<td>ETFE (Purple)</td>
<td>0.025 + 0.05 mm</td>
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</tbody>
</table>

**NPO**

- Single Mode 9/125 mm
- Multimode 50/125 mm
- Multimode 62.5/125 mm

**Overfilled Modal Bandwidth**

<table>
<thead>
<tr>
<th>Mode Field Diameter</th>
<th>Operating Temperature</th>
</tr>
</thead>
<tbody>
<tr>
<td>Single Mode 9/125 mm</td>
<td>-40°C to +135°C</td>
</tr>
<tr>
<td>Multimode 50/125 mm</td>
<td>-40°C to +135°C</td>
</tr>
<tr>
<td>Multimode 62.5/125 mm</td>
<td>-40°C to +135°C</td>
</tr>
</tbody>
</table>

**www.axon-cable.com**