FIBRE OPTIC series

Harsh Environment Fibre Optic Connectors
The communications field requires high speed, high reliability data transfer. Amphenol provides innovative, high quality solutions in optical connectivity enabling end users safe and consistent data transmission.

From our manufacturing capability in Kent, Amphenol offers innovative Fibre Optic connector and cable solutions to suit all types of environments. Offering both Physical Contact (PC) and Expanded Beam (EB) technologies, we have a large product portfolio for Military Communications, Industrial, Offshore, Mass Transit and Telecoms applications.

In addition to the connector range, our Whitstable facility offers high quality cable assemblies, fully optically tested and certified. Rigorous internal quality assurance systems exceed the AS9100 requirements and ensure consistent quality products.

Fibre Optic links are ideally suited for application where High Speed, High reliability, EMI/RFI immune, digital data transmission are required.

**Connectors:**
- PC ceramic ferrule with ceramic alignment sleeves
- Expanded Beam Ball Lens technology
- Available in Multimode & Singlemode
- Materials ranging from Aluminium to Stainless Steel
- Finishes available from Zinc Nickel to Hard Anodised
- Plug/Socket and Hermaphroditic options
- Keyed for connection protection

**Cable Assemblies:**
- Amphenol Spectrastrip manufactured cable
- Complete bespoke cable assemblies
- Fully optically tested and certified
- Deployable Cable reels

**Total system support:**
- Termination kits for installation and repair
- Impact repair kits
- Fully documented termination instructions
- Licensed and approved distribution network
- Training course capability
**Key Features**
- Designed specifically for Harsh Environments
- Established optical technologies
- Long project pedigree
- Large product suite
- Complete system supply
- Field repairable

**Typical Applications**
- Battlefield Communication C4ISR
- Avionic and Shipboard Systems
- Mass Transit
- Geophysics
- Offshore
- Industrial
- Broadcast
- Disaster Recovery / Rescue
- Weapons Systems

**Benefits**
- Designed specifically for Harsh Environments
- Established optical technologies
- Long project pedigree
- Large product suite
- Complete system supply
- Field repairable

**Typical Environmental Specifications**

<table>
<thead>
<tr>
<th>Feature</th>
<th>Specification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Vibration/Shock</td>
<td>MIL-STD-810F</td>
</tr>
<tr>
<td>Temperature</td>
<td>Operating -40°C to +70°C</td>
</tr>
<tr>
<td></td>
<td>Storage -55°C to +85°C</td>
</tr>
<tr>
<td>Sealing</td>
<td>To IP68 level</td>
</tr>
<tr>
<td>Protection</td>
<td>Anti corrosion materials and finishes available</td>
</tr>
<tr>
<td>Field Cable</td>
<td>1500N (Cable Dependent)</td>
</tr>
<tr>
<td>Tensile Strength</td>
<td>EN2591 Test C8</td>
</tr>
<tr>
<td>Durability</td>
<td>&gt;2000 Mating cycles</td>
</tr>
</tbody>
</table>