Tech Optics offers a wide range of rugged military fibre optic expanded beam connectors suitable for deployable and fixed communication systems.

Solutions are available in the standard M83526 shell configurations but ranging from 2 up to 12 channels. These connectors are ideal for harsh environments where M83526 connectors are deployed but higher channel counts are required.

Features and Benefits
- Compatible with MIL-DTL-83526/20 and /21
- Easy to clean / maintain
- 2, 4, 8 and 12 channel planforms
- Single and Multimode Variants
- Hermaphroditic mating
- Low loss

Applications
- Ship to shore links
- Mobile tactical shelters
- Electronic battlefield networks
- Mobile emergency telecommunications stations
- Deployable outdoor, harsh environment

Typical Environmental Performance Specifications

<table>
<thead>
<tr>
<th>Specification</th>
<th>Measurement Requirements</th>
</tr>
</thead>
<tbody>
<tr>
<td>Insertion Loss (per mating pair of plugs)</td>
<td>Singlemode @ 1310 / 1550nm See lens arrangements below</td>
</tr>
<tr>
<td>Durability</td>
<td>3,000 matings minimum</td>
</tr>
<tr>
<td>Operating Temperature</td>
<td>-55°C to +85°C (cable dependent)</td>
</tr>
<tr>
<td>Storage Temperature</td>
<td>-55°C to +85°C (cable dependent)</td>
</tr>
<tr>
<td>IP Rating</td>
<td>IP67</td>
</tr>
<tr>
<td>Cable Retention</td>
<td>~1,500N (cable dependent)</td>
</tr>
</tbody>
</table>

Lens Arrangements

2 channel 4 channel 8 channel 12 channel

3mm lenses 2mm lenses

All lens configurations are compatible.

<table>
<thead>
<tr>
<th>Lens configuration (mated pairs of connectors)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Typical Insertion Loss</td>
</tr>
<tr>
<td>-------------------------</td>
</tr>
<tr>
<td>IL MM @ 850/1300nm</td>
</tr>
<tr>
<td>IL SM @ 1310 / 1550nm</td>
</tr>
</tbody>
</table>
High Density Expanded Beam Connectors
Rugged fibre optic connectors up to 2-12 channels in M83526 compatible shells

Dimensions (mm)

Plug Connector

Jam Nut Receptacle

Square Flange Receptacle

Contact us for further details and cable accessories / adaptors.

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E: sales@techoptics.com

Specifications subject to change without notice.

ISO9001:2015
for the distribution of fibre optic products and the manufacture of fibre optic assemblies.

www.techoptics.com