OptoLink Handling instructions

Follow these instructions carefully to ensure correct use of your OptoLink connector and penetrator harnesses.

Assembly

OptoLink A-CCP to OptoLink A-FCR, BCR or CCR receptacle

Step 1: Inspect the connector face and O-rings
Grease the O-rings with Molykote 111

Step 2: Inspect the connector surface. If the connector surface is dirty, follow the OptoLink maintenance instructions overleaf

Step 3: Visually align the key way on the CCP connector with the key pin tip on the receptacle before mating (illustration A)

Do not twist the connector to align it during mating

Step 4: Push to mate the connector (illustration B)

Step 5: Whilst turning the locking sleeve (illustration C)

Note: The connector must be hand tightened

Assembly
Maintenance

OptoLink A-CCP, A-FCR, BCR or CCR receptacle

- If the optical lenses are dirty, clean with a dry cotton swab and isopropyl alcohol

- If the optical lenses are greasy, clean with an isopropyl alcohol soaked cotton swab followed by a dry cotton swab

- Repeat the cleaning process if necessary

- O-rings must be checked before mating/mounting and will require replacing if they show signs of damage

- Always grease O-rings with Molykote 111

*Note: Always install dust caps when connectors are unmated*

OptoLink Penetrator harnesses

- O-rings must be checked before mounting and will require replacing if they show signs of damage

- Always grease O-rings with Molykote 111

Use of Loctite for mounting FCR and BCR

- For locking metallic connectors, the use of Loctite 243 is recommended
### Bulkhead Connectors - Tightening force

<table>
<thead>
<tr>
<th>Type</th>
<th>Material</th>
<th>Rec. Torque - Nm</th>
</tr>
</thead>
<tbody>
<tr>
<td>5/8&quot; - 18 UNF</td>
<td>Brass, aluminium</td>
<td>29.0</td>
</tr>
<tr>
<td></td>
<td>Stainless steel, titanium</td>
<td>41.0</td>
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<tr>
<td>7/8&quot; - 14 UNF</td>
<td>Brass, aluminium</td>
<td>60.0</td>
</tr>
<tr>
<td></td>
<td>Stainless steel, titanium</td>
<td>80.0</td>
</tr>
</tbody>
</table>

### Recommended oil for pressure balanced systems

**FCR and BCR rated to 600 bar back pressure**

- MacArtney recommend DC-200/350 or PMX-200/350 in oil compensated systems
For further support and advice, please contact your local OptoLink distributor or MacArtney (www.macartney.com)