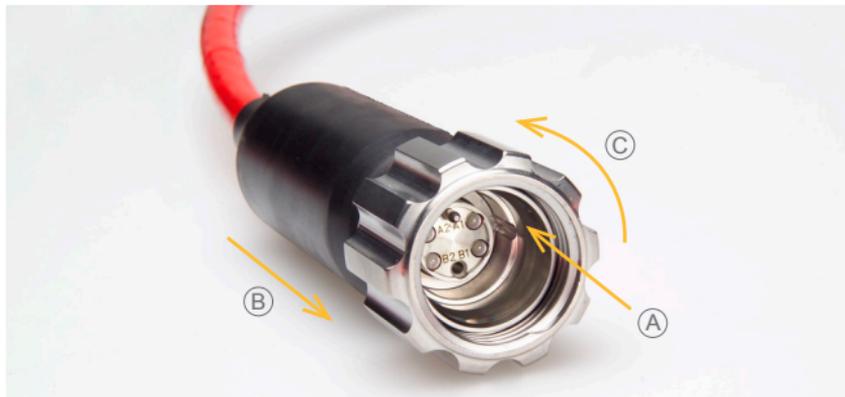


# OptoLink Handling instructions

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*

## **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

Type	Material	Rec. Torque - Nm
5/8" - 18 UNF	Brass, aluminium	29.0
	Stainless steel, titanium	41.0
7/8" - 14 UNF	Brass, aluminium	60.0
	Stainless steel, titanium	80.0

## 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](http://www.macartney.com))