

OptoLink Fibre Optic Connector



MacArtney OptoLink connectors combine robustness and reliability with flexibility and ease of use. They provide low noise fibre optic connections for one to four optical fibre passes in a wide range of configurations for connector and penetrator types.

Thanks to spherical lens technology, MacArtney OptoLink connectors are easy to clean and reassemble in the field. OptoLink connectors are robust and reliable and are rated for depths of up to 6,000 metres. Their flexible cables also make the connectors easy to work with.

MacArtney OptoLink connectors are available in flange (FCR), bulkhead (BCR) and cable mount (CCP, CCR) configurations from stock in both nickel/aluminium, bronze and stainless steel AISI 316 housings.

Features and benefits

- 6,000 metre standard depth rating
- 1-4 fibre passes
- Can combine single mode and multi mode
- Low attenuation
- Unlimited number of matings
- Excellent performance even when mated in harsh marine environments
- FCR and BCR rated to 600 bar back pressure in oil
- Stock and service from various MacArtney locations worldwide

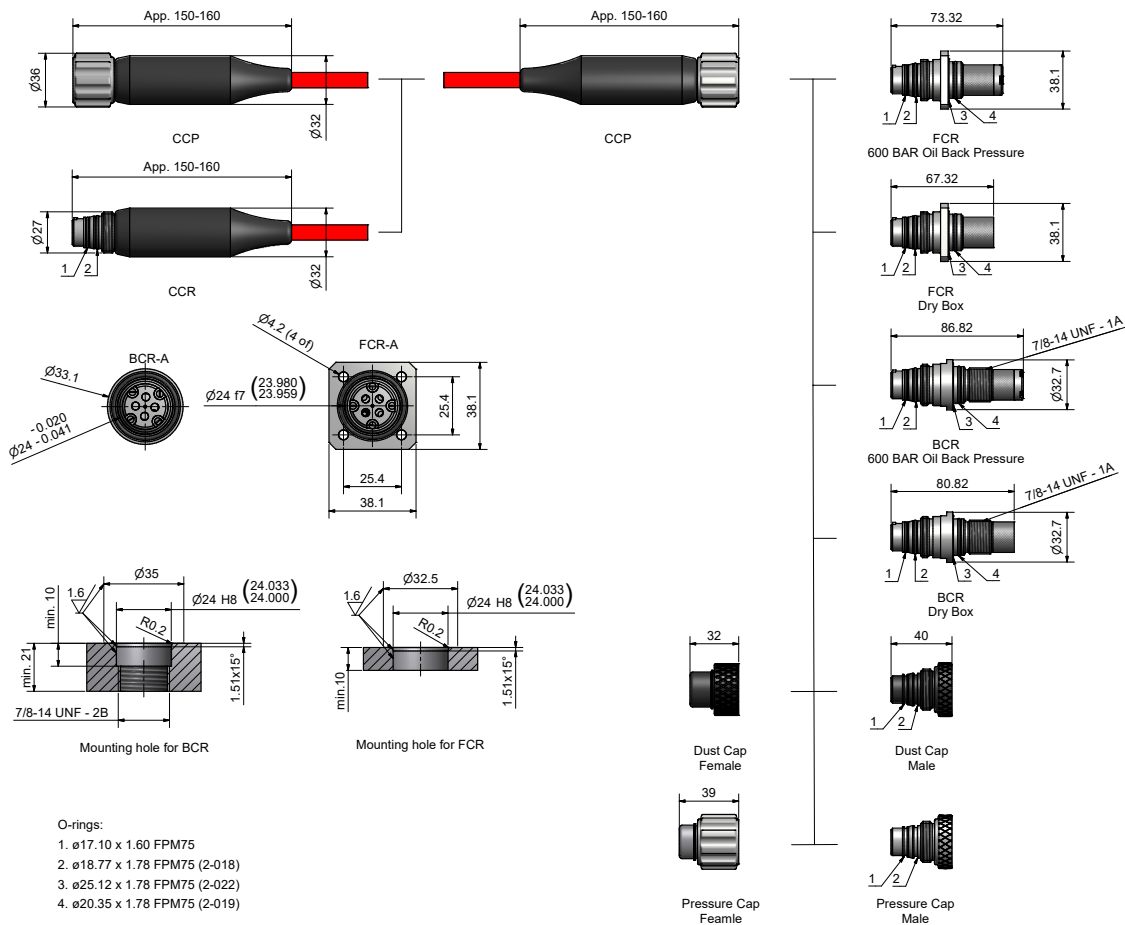
Applications

- ROV, ROTV and AUV systems
- Fibre optic video and data multiplexers
- Cable ploughs
- Acoustic ranges
- Fibre optic riser fatigue systems
- General underwater fibre optic communications
- Renewable energy applications

Options

- Other shell materials available
- Certified pressure testing of assemblies or components





Specifications

Material specifications

Metal shell housing:	Nickel/aluminium, bronze or AISI 316
Fibre optic insert:	Arcap
Dust cup:	Black POM
O-rings:	FPM 75
Full pressure dummy:	Nickel/aluminium, bronze or AISI 316

Connector specifications

Depth rating:	Mated: 6,000 m
Temperature rating:	Storage: -50° C/+85° C Operational: -20° C/+50° C
Mating cycles:	Optical: >1,000
Pigtails:	1 m pigtail with ST connector is included on FCR and BCR connectors

Optical specifications (single mode)

Wavelength:	1,310 to 1,650 nm
Attenuation:	Max 2.5 dB, Typical 1.0-1.5 dB (when mated)
Fibre types:	9/125 µm
Connector back reflection:	30 dB (typical) 28 dB (max)
Optical passes:	1 to 4 passes

Optical specifications (multi mode)

Wavelength:	850 to 1,300 nm
Attenuation:	Max 2.5 dB Typical 1.5-2.0 dB (when mated)
Fibre types:	50/125 or 62.5/125 µm
Optical passes:	1 to 4 passes