

OptoLink Single-Fibre Connector



MacArtney's single-fibre connector has been specially developed to offer reliable fibre optic connection in a minimum sized connector. Designed for subsea equipment manufacturers, the low insertion loss and low back reflection make this connector perfect for high speed data and video transmission.

The rugged stainless steel design ensures the connector is robust and reliable – whether on the deck of a vessel, on a platform or when deployed at high ocean depth.

The OptoLink single-fibre connector is available in a bulkhead (BCR) and cable mount (CCP) configuration with minimal attenuation between the mated connector pairs. Connectors are rated at 6,000 metres and have a stainless steel AISI 316 housing as standard.

Features and benefits

- 6,000 metre standard depth rating
- Available as single mode or multi mode
- Stock and services available from MacArtney locations worldwide

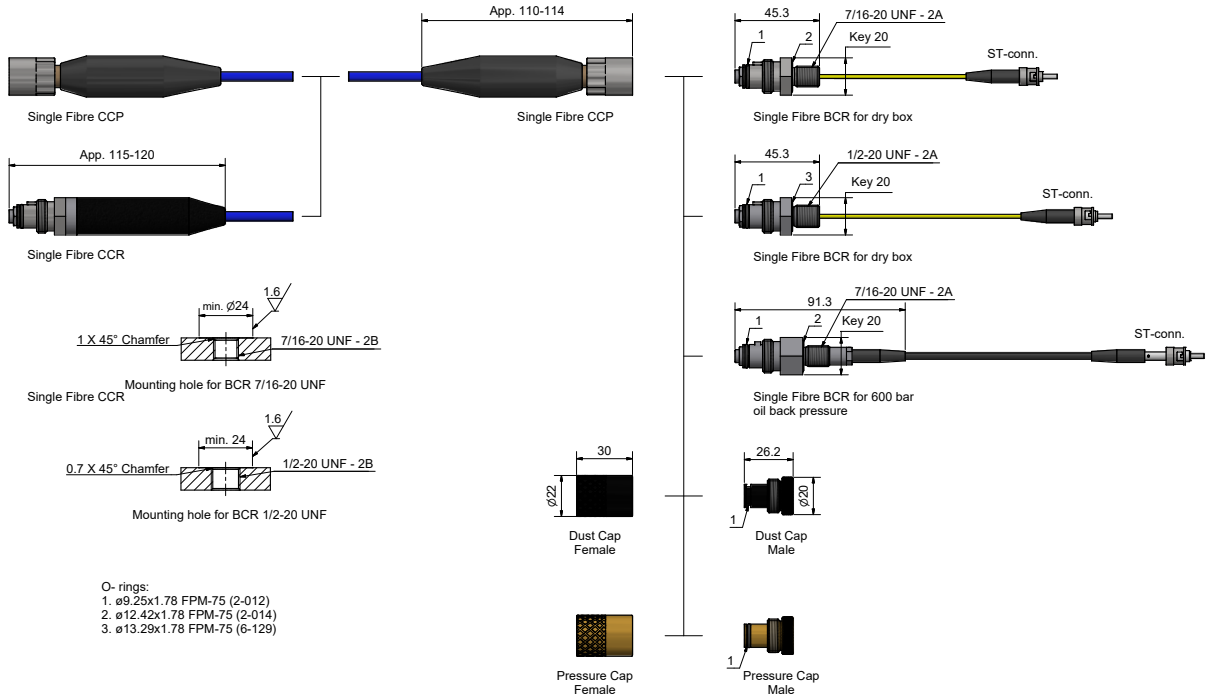
Applications

- ROV, ROTV and UUV systems
- Fibre optic video and data multiplexers
- Cable ploughs
- Acoustics ranges
- Fibre optic riser fatigue systems
- General underwater fibre optic communication
- Renewable energy

Options

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





Specifications

Material specifications

Metal shell housing:	AISI 316 or TI
BCR shell housing:	AISI 316, TI or PEEK
Fibre optic insert:	Butt-joint
Dust cap:	Black POM
O-rings:	FPM 75
Full pressure dummy:	Alu/bronze

Connector specifications

Depth rating:	Mated: 6,000 m (PEEK 3,000 m)
Temperature rating:	Storage: -40° C/+70° C Operational: -40° C/+70° C
Mating cycles:	Optical: >100
Pigtails:	0.25 m with ST connector are included on BCR dry box connector 1.0 m with ST connector included on BCR oil back pressure connector

Optical specifications (single mode)

Wavelength:	1,310 to 1,550 nm
Attenuation:	0.5-0.7 dB (typical) 1.0 dB (max)
Return loss:	-35dB
Fibre types:	9/125 μ m
Optical passes:	1 pass

Optical specifications (multi mode)

Wavelength:	850 to 1,300 nm
Attenuation:	0.5-0.7 dB (typical) 1.0 dB (max)
Fibre types:	50/125 or 62.5/125 μ m
Optical passes:	1 pass

Recommended torque

7/16" - 20 UNF - 2A	
Stainless steel, titanium:	8.11 lb-ft/11 nm