

Dual Way Water-Blocked Penetrator



Description

The MacArtney Dual Way Water Blocked Penetrator is specifically designed to withstand the challenges of system infrastructure at depths of up to 6000 metres. It is completely blocked on both sides, so even if the system cable is damaged, water will not enter the system box. Its unique depth rating also means that integrity is certified for almost the entire world's ocean floors.

MacArtney's new design is extremely versatile. It is available with 2 types of standard housing; 5/8" thread, FCR (flange connector receptacle) or with a custom made housing. They are interchangeable and can be replaced should customer requirement change over time.

The new Dual Way Water Block is designed to use standard parts, ensuring tried and tested quality and reasonable pricing. It can also be manufactured at three MacArtney production sites for fast delivery time.

The penetrators are delivered with 1 metre pigtails and ST connectors as standard.

Features and Benefits

- Rigorously tested to 6000 metres
- Dual protection prevents water ingress
- Wide range of available housing types
- Interchangeable housings

Applications

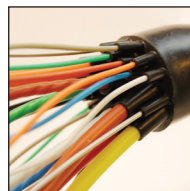
- ROV, ROTV and AUV systems
- Fibre optic video and data multiplexers
- Cable ploughs
- Acoustic ranges
- Fibre optic riser fatigue systems
- Renewable energy applications
- General underwater communication applications
- Subsea completion systems

Options

- Other connector options available
- Can be ordered with any pigtail length
- Various shell materials available (standard shell material is SS 316)
- Multi-mode fibre optics optional

Related items

- Optolink fibre optic connectors
- Installation kit
- Pressure testing



Technical Specifications

Specifications

Material Specifications

Metal shell housing: SS 316
O-Rings: FPM 75

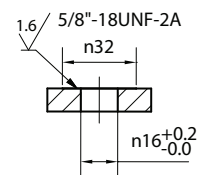
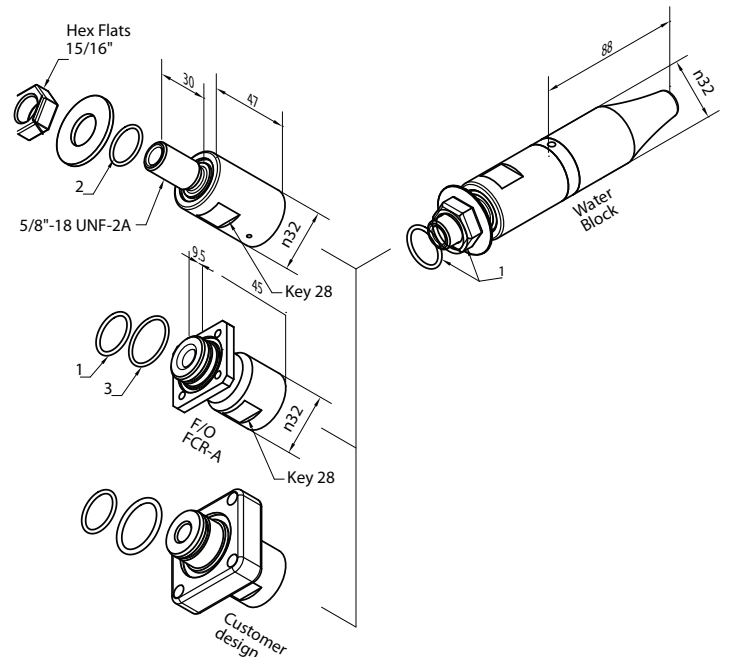
Optical Specifications (Single Mode)

Wavelength: Within single mode range
Attenuation: Fully transparent
ST connector typically -0.2dB
Fibre types: 9/125 μm
Back reflection: Negligible
According to the specification for the connector used
Optical passes: 1 to 4 passes

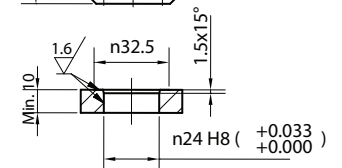
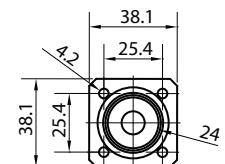
Connector Specifications

Depth rating: Full ocean depth
Temperature rating: Storage: -50° C/+85° C
Operational: -20° C/+50° C

Specification subject to change without notice



F/O FCR-A



O-Rings:
1: $\phi 20.35 \times 1.78$
(2-019)
2: $\phi 18.77 \times 1.78$
(2-018)
3: $\phi 25.12 \times 1.78$
(2-022)

