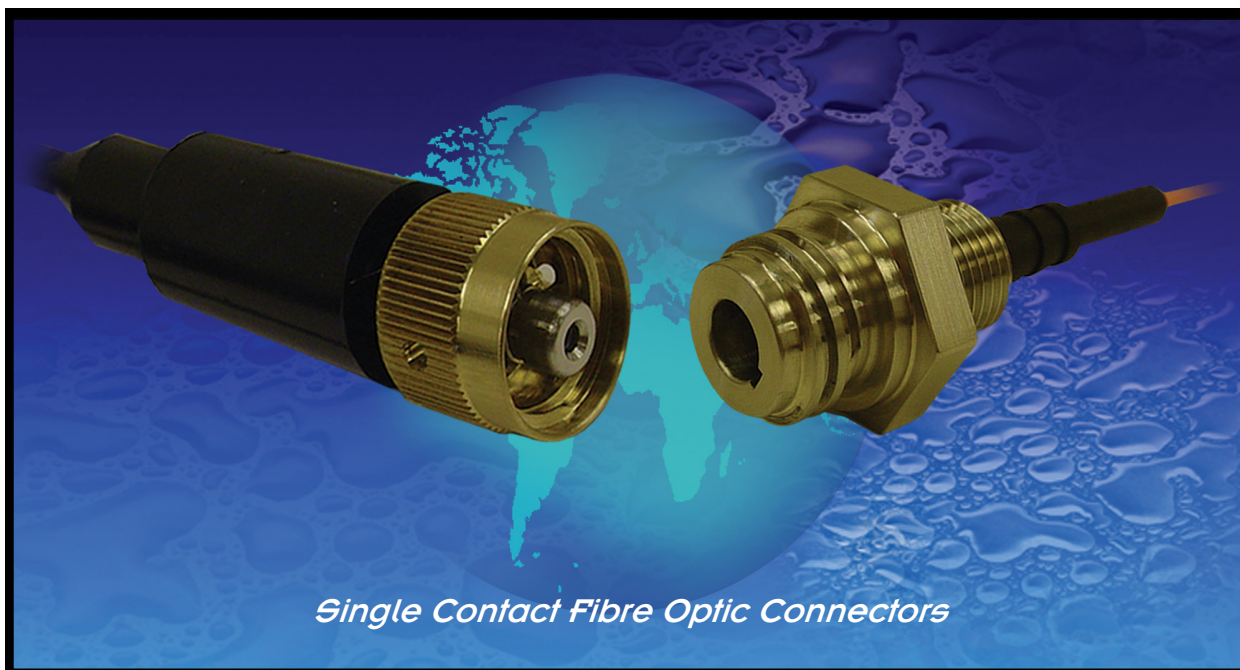




Single Contact Fibre Optic Connector



Description

The single fibre optic range of connectors are available in a number of body materials including PEEK®, 316 Stainless Steel, Hard Anodised Aluminium & Titanium. They are available with either single-mode or multi-mode fibre and have excellent optic properties.

Key Features

- | | |
|--|---|
| <ul style="list-style-type: none"> • Small size and weight • Keyed and non-keyed shell designs • High pressure rating • Excellent optic properties | <ul style="list-style-type: none"> • Dry mateable • Single-mode or multi-mode fibre • Connector bodies available in PEEK®, 316 Stainless Steel, Hard Anodised Aluminium & Titanium |
|--|---|

Design Specification

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|---|---|
| <ul style="list-style-type: none"> Max working pressure 517 bar (7,500 psi) 316 Stainless Steel & Titanium bodied connectors mated Max working pressure 250 bar (3,623 psi) Aluminium & PEEK® bodied connectors mated Max continuous working temperature +70°C (158°F) | <ul style="list-style-type: none"> Min continuous working temperature -50°C (-58°F) Optical insertion loss <0.5dB typically <0.3dB Optical back reflection typically <-25dB @ 1310nm & 1550nm using single mode fibre |
|---|---|

Materials

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| <ul style="list-style-type: none"> BCR body in PEEK®, 316 Stainless Steel, Aluminium & Titanium 'O' ring seals in Nitrile BCR uses jacketed fibre Boots in natural rubber CCP body in PEEK®, 316 Stainless Steel, Aluminium & Titanium | <ul style="list-style-type: none"> Locking sleeve in Delrin® or Ally bronze NES 833 CCP overmould in PU (Alternatives available to meet different specifications and/or special fluid compatibility requirements) CCP cable is a military tactical cable with a PU jacket (Alternatives available to meet different specifications and/or special fluid compatibility requirements) |
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Configuration

PK-1-FO-BCR (PEEK® threaded bulkhead receptacle) & PK-1-FO-CCP (PEEK® free half plug).

SS-1-FO-BCR (316 SS threaded bulkhead receptacle) & SS-1-FO-CCP (316 SS free half plug).

AL-1-FO-BCR (Aluminium threaded bulkhead receptacle) & AL-1-FO-CCP (Aluminium free half plug).

TI-1-FO-BCR (Titanium threaded bulkhead receptacle) & TI-1-FO-CCP (Titanium free half plug).

See Page 3 for overall dimensions (The overall dimensions are the same for all body materials).

Qualification

A pair of connectors has successfully been laboratory tested to 690 bar (10,000 psi).

Quality

SEACON (europe) Ltd operate a Quality management system accredited to BS EN ISO 9001: 2000



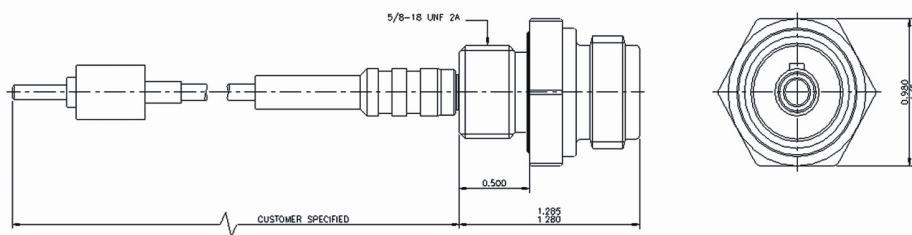


Figure 1 - BCR

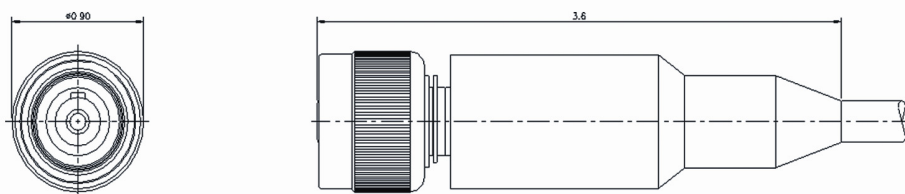


Figure 2 - CCP

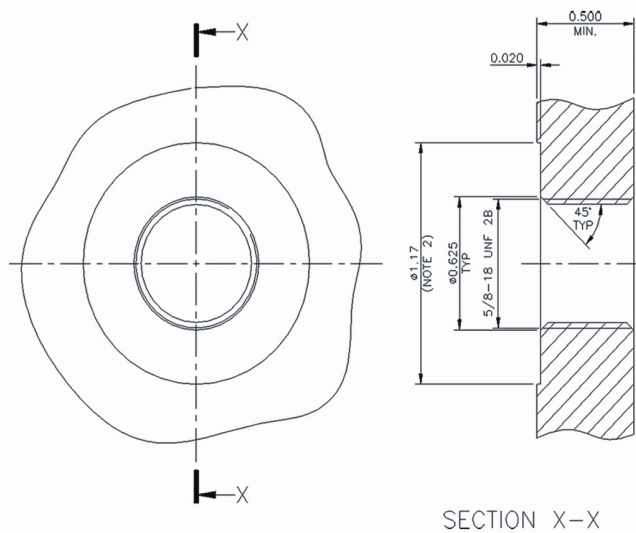


Figure 3 - Interface