



SEACON ADVANCED PRODUCTS, LLC PRODUCT DATASHEET

SBP SERIES FITA

POSITIVELY PRESSURIZED, DEEPWATER MUX CABLE CONNECTOR WITH INTEGRAL ARMOR TERMINATION ASSEMBLY



DESCRIPTION

The **SBP Series** connector is a MUX cable termination that maintains a constant positive pressure inside its oil-filled chambers. Positive pressure maintained via spring loaded pistons, deters water ingress from conductor interstices and other sources. Inside the connector advanced conductor boot sealing technology assures functionality even if the **SBP Series** connector is water-flooded. The **SBP Series** connector is field installable and testable. Dual barrier seals are used throughout the connector. It is currently available in an electro-optical hybrid configuration designed for both single-mode (SM) and multi-mode (MM) optical communications.

KEY FEATURES

- Overall length: 28.2"
- Overall Diameter: 8"
- Test port for mated connector condition
- Operational Depth Rating: 5,300 psi (12,000 ft)
- Modular cable terminations and Field Installable (no compounds)
- Dual Pressure Compensated Chambers
 - Rear Chamber: Up to approx. 60 psi
 - Front Chamber: Up to approx. 35 psi
- Integral Cable Armor Termination

DESIGN RATINGS

- Design Life: 20 years
- Qualification Test Pressure: 6,500 psi (14,500 ft)
- Design Pressure: 8,000 psi (17,900 ft)
- Secondary seals on contacts allow for operation even if water flooded
- Conductor Insulation Resistance: 1.0 Gohm @ 1,000 VDC
- Cable Working Load: 6,000lb
- Qualified by test including long term (3 months) at design pressure in fully water flooded condition (refer to qualification test report SAPL-ENG-1066)



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MATERIALS

- 316 SST, 15-5 PH SST, 17-4 PH SST, Titanium Grade 5
- Electrical inserts: Glass Reinforced Epoxy
- Optical Contacts: Dual O-Ring
- Elastomer: Neoprene, Nitrile, Hypalon
- Compensation Fluid: DC710 non conductive silicone oil

PRINCIPLE OF OPERATION

The SBP Series Connector was designed to be an integral part of the MUX umbilical cable termination system. The 6,000lb Armor Termination is integral to the connector body allowing the tensioned cable loads to be carried through the connection interface. The SBP connector is a flange mounted configuration allowing for good load transfer using 16, 1/2-20 x 1 -1/4 LG HEX SCT Cap Screws.

AVAILABLE CONFIGURATION

- BOP Control System: NOV / Shaffer
- Voltage Rating: 1,400 VAC
- Current Rating: 42 A
- Optical Attenuation:
 - Single-Mode: <1.5 dB per mated contact pair
 - Multi-Mode: <1.5 dB per mated contact pair
- MUX Cable:
 - Single-Mode: Rochester A308129, A308130
 - Multi-Mode: Rochester A304862, A305605, A307243 and A307472
- Contact Configuration: 8FO/4#10 AWG

QUALITY

- SEACON Advanced Products, LLC operate a Quality Management System certified to ISO 9001:2008, ISO 14001:2004 and OHSAS 18001:2007.



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