

SEACON MUX FITA (Field Installable & Termination Assembly)

Positive Pressurized, Deepwater MUX Cable Connector with
Integral Armor Termination Assembly

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

Description

This connector series 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 it is water-flooded. The 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.

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Specifications

MATERIALS

- 316 Stainless Steel, 15-5 PH Stainless Steel, 17-4 PH Stainless Steel, Titanium Grade 5
- **Electrical Insert:** Glass Reinforced Epoxy
- **Optical Contacts:** Dual O-Ring
- **Elastomer:** Neoprene, Nitrile, Chlorosulphonated Polyethylene (CSM)
- **Compensation Fluid:** DC710 non conductive silicone oil

DESIGN RATING & TESTING

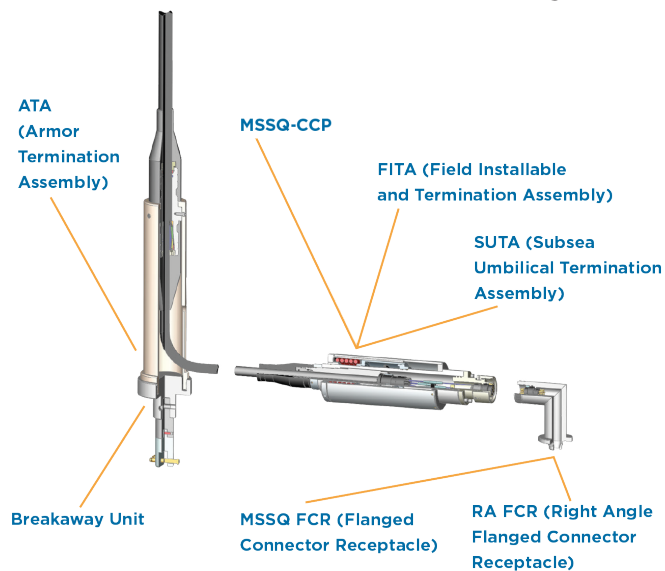
- **Design Life:** 20 years
- **Qualification Tested Pressure:** 6,500 psi (14,500 ft)
- **Design Pressure:** 8,000 psi (17,900 ft)
- Secondary seals on electrical contacts allow for operation even water flooded
- **Connector Insulation Resistance:** 1.0 Gohm @ 1,000 VDC
- **Cable Working Load:** 6,000lb.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

PRINCIPLE OF OPERATION

This 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 connector is a flange mounted configuration allowing for good load transfer using 16, ½-20 x 1-1/4 LG HEX SCT Cap Screws.

AVAILABLE CONFIGURATION

- **Blowout Preventer (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



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Consult TE for the latest dimensions and design specifications.

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