SEACON Field Installable Termination Assembly (FITA)

Positive Compensated (60 psi Over Ambient), Deepwater MUX Cable Connector

KEY FEATURES

- Overall Length: 21”
- Overall Diameter: 4.2”
- Pressure Compensated Chambers
- Megger Test Pin allows testing for water-flooding while mated
- Depth Rating: 10,000 ft.
- Voltage: 600 V / Current: 15 A
- 12#16 Electrical Contacts
- Modular cable terminations and field installable (no compounds)

Description

The FITA connector is an electrical termination that maintains a constant positive pressure inside the oil-filled connector cavity. Positive pressure, maintained at 60 psi using a spring-loaded piston, deters water ingress from conductor interstices and other sources. Inside the connector, advanced conductor booting technology helps assure functionality even when the FITA is water-flooded. The FITA is field installable and testable. Dual barrier seals are used throughout the connector.

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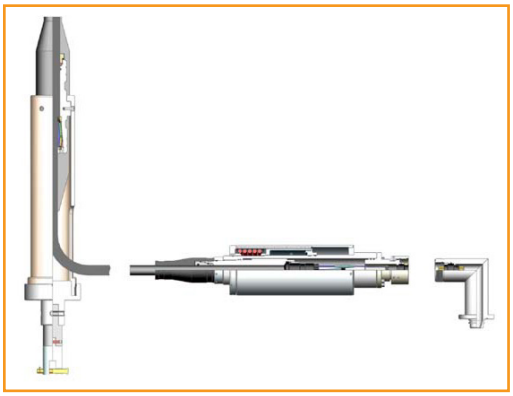

ATA FITA Termination System

Specifications

MATERIALS

- 15-5 PH Stainless Steel, 316 Stainless Steel, 17-4 PH Stainless Steel, CA360
- **Electrical Insert:** Glass Reinforced Epoxy
- **Elastomer:** Neoprene, Nitrile

DESIGN RATING & TESTING

- **Design Life:** 20 years
- **Qualification Test Pressure:** 7,500 psi
- **Design Pressure:** 20,000 psi
- Secondary seals on electrical contacts allow for operation even water flooded
- Test ports for o-rings
- **Connector Insulation Resistance:** >100 Megohms @ 500 VDC
- **Cable Pullout Load:** 700 lbs
- Qualification tested in ice bath, chamber water-filled, then oil-filled

PRINCIPLE OF OPERATION

The FITA was designed to be an integral part of the MUX umbilical cable termination system shown below. The Armor Termination Assembly (ATA) is secured to the riser or control system framework using a Breakaway Unit that is designed to separate at a defined load. The smaller, more manageable FITA is then routed and connected. In the case of accidental Blowout Preventor (BOP) droppage, the Breakaway Unit shears and the unarmored section of cable pulls out of the FITA.

2363093-1 02/20

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