



SEACON ADVANCED PRODUCTS, LLC
PRODUCT DATASHEET

**FIELD INSTALLABLE & TESTABLE ASSEMBLY (FITA)
POSITIVELY COMPENSATED (60 PSI OVER AMBIENT),
DEEPWATER MUX CABLE CONNECTOR**



FITA terminated to electrical MUX cable

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 assures functionality even when the **FITA** is water-flooded. The **FITA** is field installable and testable. Dual barrier seals are used throughout the 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, new version to include fiber optic contacts
- Modular cable terminations and Field Installable (no compounds)

DESIGN RATINGS & TESTING

- Design life: 20 years
- Qualification tested to 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





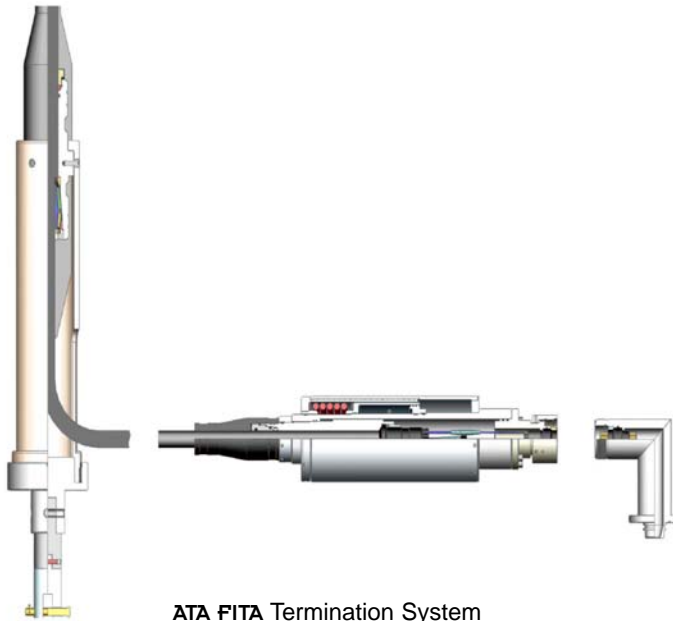
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MATERIALS

- 15-5 PH SST, 316 SST, 17-4 PH SST, CA360
- Elastomer: Neoprene, Nitrile
- Electrical Insert: Glass Re-enforced Epoxy

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** 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 BOP droppage, the **Breakaway Unit** shears and the unarmored section of cable pulls out of the **FITA**.



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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