



SEACON Optical Subsea Umbilical Termination Assembly (oSUTA)

ADVANCED TECHNOLOGY

- Dual chamber design
- Pressure balanced oil filled (PBOF) chamber on the connector side with MKII interface
- Atmosphere chamber on the cable side, with ports for seal integrity testing
- Integral fiber management system in both chambers
- Modular design with options for umbilical cable and multi-hose exits
- Field Installable (no compounds)
- Dual seals on all barriers

DEEP WATER CAPABILITY

- Operational depth of 4,000m (max)
- Operational temperature from -5°C to +45°C
- Design life up to 25 years

Description

TE Connectivity (TE)'s SEACON oSUTA is a termination and distribution unit for optical distribution systems. The design features a fiber management system, mechanical armor termination and high pressure fiber optic penetrators between the connector and cable chambers.

TE Components . . . TE Technology . . . TE Know-how . . .
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SEACON Optical Subsea Umbilical Termination Assembly

Specifications

STANDARDS AND SPECIFICATIONS

- **Design Life:** 25 Years
- **Operational Depth:** 4,000m (max)
- **Operational Temperature:** -5°C to +45°C
- **Storage Temperature:** -20°C to +60°C
- **Compensation Fluid:** Silicone Oil

QUALIFICATION TESTING

- **Hyperbaric pressure testing to 450 bar**
4000m water - depth +10%
- Helium seal verification testing via test port feature
- Environmental Stress Screening (ESS) testing
- Thermal cycling under pressure
- **Axial Load Testing:**
 - **Inline:** 5000N
 - **90°:** 2500N
 - Drop Test
- **Qualified according to:**
 - Statoil TR1232, TR1233 & TR2390
 - Total GS EP SPS 019 & GS EP SPS 021
 - ISO 13628-6

OPTICAL PERFORMANCE

- **Maximum Splice Insertion Loss:** <0.05dB
- **Maximum Penetrator Insertion Loss:** < 0.2dB
- **Maximum Connector Insertion Loss:** < 0.5dB
- **Maximum Overall SUTA Insertion Loss:** < 0.8dB
- **Typical Overall SUTA Insertion Loss:** < 0.5dB
- **Ultra Physical Contact connector Return Loss:** <-30dB
- **Angled Physical Contact connector Return Loss:** <-45dB

CONFIGURATIONS

- **Standard:**
 - 2-32 off Fiber Optic Circuits: Single-Mode or Multi-Mode
 - The SUTA can be designed for most fiber optic cables. Please contact TE's SEACON for details.

MATERIALS

- **Standard:**
 - **Shell:** Titanium CP Gr. 2
 - **Seals:** Nitrile
- **Optional**
 - **Shell:** 316L Stainless Steel
 - **Seals:** Fluoroelastomer



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Consult TE for the latest dimensions and design specifications.

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