



PRECISION SUBSEA AS PRODUCT DATASHEET

PRESSURE BALANCED OIL-FILLED (PBOF) HOSE ENGINEERED SUBSEA FIBER OPTIC & ELECTRICAL PBOF HOSE CONDUIT



Engineered Hose and Fittings

DESCRIPTION

Subsea jumper assemblies and distribution harnesses are provided by Precision Subsea for use with subsea connectors. Many subsea electrical and optical cable and connection systems utilize Pressure Balanced Oil Filled (PBOF) cabling solutions. These cables utilize an elastomeric hose as a conduit for electric wires and fiber optic lines. The elastomeric conduit is filled with a compensating fluid, allowing the sea water pressure to freely communicate with the interior oil volume and equalizing the pressure in the assembly. This option for cabling provides for a reliable and configurable cable system suitable for many subsea applications. This technology has been widely utilized in ocean science observatories, towed arrays, drilling systems, production control systems and Remotely Operated Vehicle (ROV) systems. Precision Subsea is pleased to offer this solution for any configuration of subsea cable network.

KEY FEATURES

- Temperature and pressure compensated
- Design Life: >25 years in operation subsea
- Volume compensation capacity >12%
- Designed for ROV handling
- Single or double o-ring sealing
- Metal to metal sealing
- Medium voltage design
- 12mm bore capacity
- Integrated longitudinal strain relief. Break >20,000N
- Full torsion flexibility
- Swivel Nut. Serrated for easy handling
- Titanium GR2 and 316L Stainless Steel as an option
- Anti-rotation crimp sleeve system
- MKII compatible through out
- Crimp sleeve electrically connected
- Rubber fitting protector



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SPECIFICATIONS

- Dimensions ID: 13mm and 20mm
- Dimensions OD: 25mm and 32mm
- Wall Thickness: Nominal 6mm
- Material: Rubber, SBR, NBR or equivalent
- Outside Colour: Orange
- Design: Two layer with tension and pressure armor in between
- Volumetric Expansion: >12% nominally
- Elongation: <2% at 2500 N tension
- Break Load by Tension: >10,000 N (at end terminations)
- Pressure Rating: WP 10 bar. Burst pressure >40 bar
- Minimum Bend Radius: 125mm
- Lifetime Subsea: >25 years
- Working Temperature: -5 to +40°C
- Storage Temperature: -25 to +50°C
- Ozone Resistance: Two months outside without protection
- Compatibility: Sea water, silicon oil
- Armour: Kevlar, Polyester

MKII Compatible Hose Fittings



Fitting Protector



13mm & 20mm Fitting



Dual Seals & Metal Seal

Subsea Optical Harness



Subsea 3.3kv Electrical Jumper



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