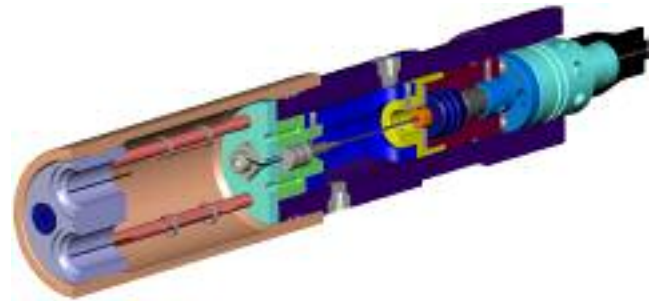




FACT

**Field Assembled Cable Termination
Electrical, Optical or Hybrid**

The FACT is a new and key enabling cable termination technology that has been developed to extend the operational depth, and significantly increase the reliability of cable terminations. FACT is qualified for use at ocean depths up to 20,000ft. The FACT modularized system completely isolates the cable elements from the pressure-balanced dielectric fluid-filled splice chamber and ambient subsea pressure using a penetrator assembly. The FACT approach to cable termination eliminates cable-dependent design limitations and common mode/single point failures.



The major design elements used are based on fully qualified and field-proven Nautilus and Fiber-Seal technologies, and draws upon ODI's extensive experience in cable termination. The FACT system is compatible with over 80% of existing subsea cables.

The FACT penetrator assemblies may be terminated directly to atmospheric enclosures or pressure-balanced dielectric fluid-filled splice canisters. It is ideally suited for a multitude of umbilical termination applications. The FACT penetrator assemblies have been designed with modularity in mind and may be used with ancillary accessories to adapt to a wide array of interfaces. Additionally, the FACT penetrator assemblies can accommodate a wide range of armored and non-armored electrical, optical and hybrid cables, with or without gel fill. A combination of up to six FACT penetrators and/or jumper assemblies with any combination of optical, electrical or hybrid connectors can be accommodated in the standard dielectric-filled pressure-balanced splice canister. A single entry/exit dielectric fluid-filled pressure-balanced splice canister is also available; either a jumper assembly or connector may be fitted to the splice canister.

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SPECIFICATIONS

GENERAL

Design Life :	25 years
Max Optional Pressure :	10,000psi (690 Bar)*
Operational Temperature :	-10°C to +50°C*
Storage Temperature :	-40°C to +60°C*



Penetrator Configurations :	Large Electrical Penetrator: accommodates up to 7 electrical cores - Fits cables from $\varnothing 0.70''$ [17.8mm] to $\varnothing 1.25''$ [31.8mm]
	Large Hybrid Penetrator: accommodates up to 6 electrical cores and 8 optical fibers - Fits cables from $\varnothing 0.70''$ [17.8mm] to $\varnothing 1.25''$ [31.8mm]
	Small Electrical Penetrator: accommodates up to 5 electrical cores - Fits cables from $\varnothing 0.30''$ [7.6mm] to $\varnothing 0.70''$ [17.8mm]
	Small Hybrid Penetrator: accommodates up to 4 electrical cores and 8 optical fibers - Fits cables from $\varnothing 0.30''$ [7.6mm] to $\varnothing 0.70''$ [17.8mm]
	Optical Penetrator: accommodates up to 8 optical fibers - Fits cables to $\varnothing 0.50''$ [12.7mm]

ELECTRICAL

Max Operational Current :	30 amps per circuit*
Max Operational Voltage :	1.0 kVAC/1.8 kVDC*
Insulation Resistance :	$\geq 10G \Omega$ @ 1 kVDC*
Splice Resistance :	$\leq 0.1 \Omega$ per circuit



OPTICAL

Insertion Loss :	<0.1dB @ 1310/1550 nm
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*Subject to cable performance.