

FIBER OPTIC PRODUCTS



Rolling Seal Connector

Standard Wet-Mate Optical and Hybrid connector with up to 8 circuits:
ROV, Stab and Manual-Mate

Teledyne ODI's Rolling Seal is the industry standard fully wet-mateable, multi-channel, optical/electrical hybrid connector. Introduced in 1995, there are presently over 3,700 Rolling Seal connectors in service across the globe, with more than 166 million operating hours. The Rolling Seal Connector is widely utilized for connectivity on subsea control modules, data transmission systems, umbilical terminations, electrical junction boxes, and other subsea systems.

The patented Rolling Seal design functions by excluding water and silt from the region where the optical ferrules are brought into contact. The rolling seals provide isolation from seawater when the connectors are unmated. Any silt between the connector halves becomes trapped when the halves are first brought together and is then moved

out of the optical path as the seals rotate, providing a clean, oil-filled conduit for the optical ferrules to connect. The result is a reliable low-loss optical throughput.

Tailored to a customer's particular needs, any of the Rolling Seal Connector's eight circuits can be specified for single-mode fiber, multi-mode fiber or electrical throughput. With ROV, Stab or Manual-Mate options and the numerous configurations offered by our Oil-Filled Hose and Modular Connectorized Distribution Units (MCDU), the Rolling Seal Connector offers the most flexible and reliable solution for subsea optical connectivity.

FULL LINE OF FIBER OPTIC PRODUCTS:

- Rolling Seal Connectors – Standard & Chemically Resistant (CR)
- Dry-Mate Optical Connectors
- APC Rolling Seal Connector
- High Integrity Optical FACT
- High-Pressure Feed-Through Optical Penetrator

FIBER OPTIC PRODUCT DATA SHEETS:

To access the electronic version and confirm the latest revision level, please visit www.odi.com ODI literature on demand.



Teledyne ODI is the world leader in subsea electrical and fiber optic interconnect systems for offshore oil and gas, defense, oceanographic, and telecommunication applications.



GENERAL SPECIFICATIONS*

Operational Temperature:	-5°C to +40°C (seawater) -18°C to +50°C (air)
Storage Temperature:	-30°C to +60°C
Max Operational Pressure:	10,000 psi ambient 5,000 psi differential (bulkhead)
Mate/Demate Cycles:	100 without refurbishment
Mating Force:	<120 lbs
Demating Force:	<100 lbs
Configurations:	ROV, Stab & Manual-Mate
Material:	Titanium is preferred shell material
Design Life:	25 Years

OPTICAL & ELECTRICAL SPECIFICATIONS

Number of Circuits:	8 max, optical or electrical
Insertion Loss:	<0.5 dB @ 1310/1550 nm
Return Loss:	<-30 dB @ 1310/1550 nm
Max Operational Current:	7 amps per circuit
Max Operational Voltage:	700 VAC/1,000 VDC
Insulation Resistance:	>10 GΩ @ 1,000 VDC
Contact Resistance:	<30 mΩ

*For reference only, see FDS - IFS D/N 182480 for Official Values

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IFS D/N 120424 REV. E

This product is covered by one or more of the following U.S. and/or foreign patents; 4,948,377; 5,203,805; 5,171,158; 5,194,012; 1,296,783; 5,645,438; 5,685,727; 5,722,842; 5,645,442; 5,772,457; 5,738,535; 5,873,750; 6,067,395; 6,321,021; 6,315,461; 6,017,227; 6,608,960; 6,439,778; 6,332,787; 6,665,477; 6,402,539; 6,510,270; 6,543,965; 6,796,821; 6,910,910. Other pending U.S. and foreign patents may apply.



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