

FIBER OPTIC PRODUCTS



Rolling Seal Connector

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

FULL LINE OF FIBER OPTIC PRODUCTS:

- Rolling Seal Connectors — Standard & Chemically Resistant (CR)
- Dry-Mate Optical Connectors
- Optical FACT — High Integrity Field Assembled Cable Termination
- Optical Penetrator — High-Pressure feed-through with up to 12 Fibers

FIBER OPTIC PRODUCT DATA SHEETS:

To access the electronic version of this document, go to:
www.odi.com/Products.html

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.



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



Rolling Seal Connector

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:	<10 mΩ

CONTACT:

- odi_marketing@teledyne.com
- www.odi.com
1 888 506 2326
- Teledyne ODI Corporate
tel: +1 386 236 0780
fax: +1 386 236 0906
- Europe (UK)
tel: +44 (0) 1358 729564
fax: +44 (0) 1358 729566
- Sales & Marketing (UK)
tel: +44 (0) 7747 774368
- Houston (USA)
tel: +1 281 875 1717
fax: +1 281 875 6161
- Brazil
tel: +55 21 2612 9096
fax: +55 21 2612 9097

1026 North Williamson Boulevard, Daytona Beach, FL 32114

tel +1 386 236 0780 • 888 506 2326 • fax +1 386 236 0906



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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.