

Dry-Mate Submersible Connector

A high reliability hybrid connector suitable for dry-mate applications – Available miniature or standard configurations

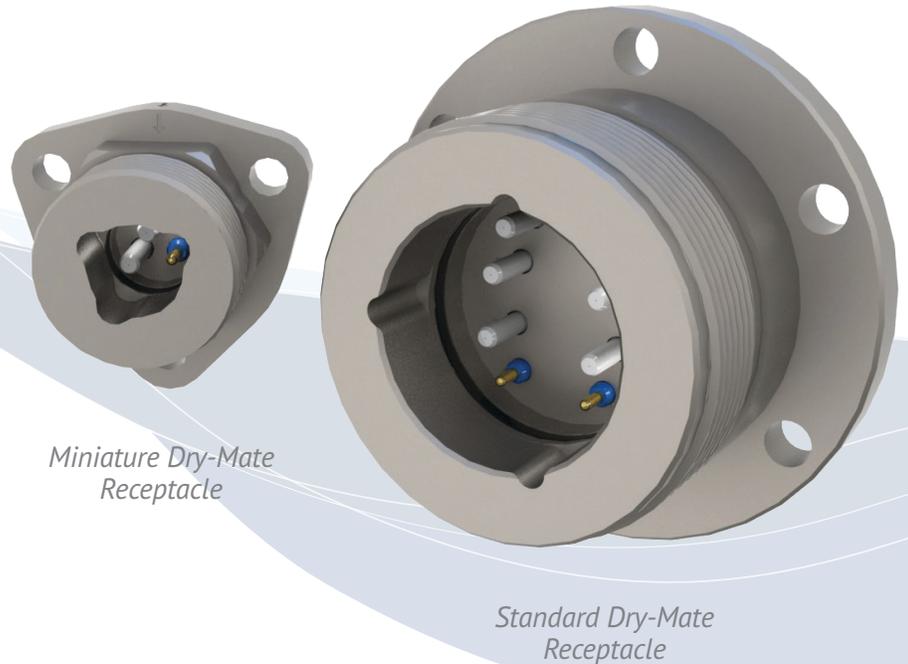
The Teledyne ODI Dry-Mate Submersible connector series is designed to directly complement the Teledyne ODI Wet-Mate Hybrid connector series (Rolling Seal Hybrid) and also for use as a stand-alone Hybrid Dry-Mate Submersible Connection System.

This high reliability connection system features a robust single-piece, precision machined shell designed to accept a variety of electro-optical contact/channel configurations from 1–12 circuits, together with a threaded-style locking ring.

Two standard shell sizes are available, dependent on the circuit configuration.

In addition; straight, 45-degree or 90-degree termination versions can be provided in a compact manually coupled footprint. A unique tri-lobe keying system assures proper alignment without sacrificing space inside the connector for alignment features.

Used in conjunction with our Oil-Filled Hose, this system is designed for submersible applications up to 9,100 psi.



PRIMARY FEATURES AND BENEFITS

- Combination of electrical and optical circuits
- Standard or miniature configurations available
- 25 year design life



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TECHNICAL SPECIFICATIONS

GENERAL SPECIFICATIONS	
Operational Temperature	-5°C to +40°C (seawater) -30°C to +50°C (air)
Storage Temperature	-30°C to +60°C
Operational Pressure	Up to 9,100 psi
Mate/Demate Cycles	100 without refurbishment
Type	Dry-Mate
Material	316L SS (standard), Titanium CP Gr2
Key Way	Asymmetric Tri-Lobe
Design Life	25 years
OPTICAL AND ELECTRICAL SPECIFICATIONS	
Number of Circuits	Any combination of Electrical/Optical contacts
Miniature	1 through 4
Standard	1 through 12 Contact Teledyne ODI for other configurations
Max Operational Current	7 amps per circuit
Max Operational Voltage	700 VAC/1000 VDC
Insertion Loss	≤0.5 dB @ 1310/1550 nm
Return Loss	≥ 30 dB @ 1310/1550 nm
Contact Resistance	≤10 mΩ per contact



8 Way Standard DMS Plug



2 Way Miniature DMS Plug and Rolling Seal Jumper



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