

ELECTRICAL PRODUCTS



Nautilus™ Connector

4, 7, & 12 Circuits: ROV, Stab, & Manual-Mate

Standard Wet-Mate Connector for subsea application.

Teledyne ODI's Nautilus™ is a wet-mateable, multi-channel electrical connector. First introduced in 1991, the Nautilus™ is recognized as the leading choice for high reliability underwater mateable electrical connectors. Nautilus™ has been utilized on thousands of projects at depths up to 6,000 m (>19,000 ft) and in diverse industries including Oil & Gas, Oceanography, and Navy & Defense.

Nautilus™ is fully qualified to the latest industry standards and customer specifications including: electrical performance, helium leak, mechanical shock & vibration, thermal cycling & shock, turbid hyperbaric mate/demate and misaligned mateability. Electrical harnesses utilizing

Teledyne ODI's Oil-Filled Hose have also been qualified to these standards and specifications.

The design features that make Nautilus so reliable include the dual independent seals and oil reservoirs providing two completely separate barriers. This patented design of electrical contact allows the pin to enter these reservoirs and transfer sealing via a shuttle pin and dual wiper seal assembly, simultaneously cleaning and sealing the pin.

Close to 100,000 Nautilus™ connectors have been delivered, accumulating more than 4 billion service hours with reliability greater than 99.90%.

FULL LINE OF ELECTRICAL PRODUCTS:

- Nautilus™ Connectors—
Standard and Chemically Resistant (CR)
- Down-hole Connectors
- FACT —
Electrical Field Assembled Cable Termination
- High-Power Connectors

ELECTRICAL PRODUCT DATA SHEETS:

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



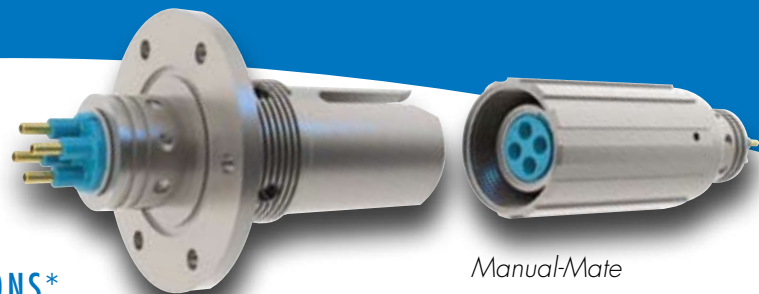
TELEDYNE OIL & GAS



TELEDYNE ODI

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

Nautilus™ Connector



Manual-Mate

GENERAL SPECIFICATIONS*

Operational Temperature:	-10°C to +50°C
Storage Temperature:	-30°C to +60°C
Max Operational Pressure:	6,400 m (10,000 psi)
Mate/De-Mate Cycles:	1,000 Total cycles after factory testing
Maximum Mate/De-Mate Force:	< 500N (112 lb-f)
Configurations:	ROV, Stab & Manual-Mate
Material:	ROV configuration in Titanium Other materials available for Stab & Manual-Mate configurations (e.g. 316L SS, plastic, etc.)
Design Life:	25 Years

ELECTRICAL SPECIFICATIONS

Number of Circuits:	4, 7 or 12 circuits
Max Operational Current:	30 amps per
Max Operational AC Voltage:	1.0 kV Phase-to-Ground 1.73 kV Phase-to-Phase
Max Operational DC Voltage:	3.3 kV
Insulation Resistance:	≥10 GΩ @ 1 kVDC
Contact Resistance:	≤10 mΩ per contact

*For reference only, see FDS - IFS D/N 325994 for Official Values



Stab Plate

CONTACT:

- Teledyne ODI (Daytona Beach)
ODI_Marketing@Teledyne.com
tel: +1 386 236 0780
+1 888 506 2326
fax: +1 386 236 0906
- Teledyne Oil & Gas (Houston)
ODI_HoustonSales@Teledyne.com
tel: +1 281 875 1717
fax: +1 281 875 6161
- Teledyne Oil & Gas (Brasil)
ODI_BrasilSales@Teledyne.com
tel: +55 21 2612 9096
fax: +55 21 2612 9097
- Teledyne Cormon (Europe)
LNG_Sales@Cormon.com
tel: +44 (0) 1903 854800
fax: +44 (0) 1903 703603
- Teledyne Oil & Gas (Malaysia)
ODI_MalaysiaSales@Teledyne.com
tel: +603 7805 7712
fax: +603 7805 7710
cell: +6012 259 2300

1026 North Williamson Boulevard, Daytona Beach, FL 32114
tel +1 386 236 0780 • 888 506 2326 • fax +1 386 236 0906



IFS D/N 120426 REV. D

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.

 **TELEDYNE ODI**