

ELECTRICAL PRODUCTS



Nautilus™ High-Power G2 3-Circuit, 10 kVDC, 150 amp Connector

A wet-mateable power connector suitable for medium power applications.

Nautilus™ HP G2 is designed to provide a subsea, wet-mateable connection between components requiring high voltage and/or high current. The contact and seal mechanisms were designed using Teledyne ODI's experience with the industry-standard Nautilus™ electrical wet-mateable connector providing a reliable sealing and mating mechanism throughout the life of the connector.

Nautilus™ HP G2 is designed using Advanced Materials Science & Materials Certification processes and is being qualified under the guidelines of IEC 60502-2 for medium voltage connectors to validate the 25-year performance life. The qualification has shown that significant safety margins exist in all of the connectors' ratings. Electrical breakdown

voltages are in excess of 100 kVDC while aggressive long-term testing has validated the product's performance safety margins over the design life.

Nautilus™ HP G2 is designed to provide a flexible, high reliability solution to subsea power connectors building on Teledyne ODI's 20 years of experience in wet-mateable connectors. Its pressure-balanced, oil-filled design has allowed it to be qualified for use anywhere in the ocean and the sealing mechanism permits mating in harsh subsea environments. The Nautilus™ HP G2 product utilizes Teledyne ODI's standard Oil-Filled Hose to create medium voltage electrical assemblies and has demonstrated a reliability level of greater than 99.9% based on accelerated life testing.

FULL LINE OF ELECTRICAL PRODUCTS:

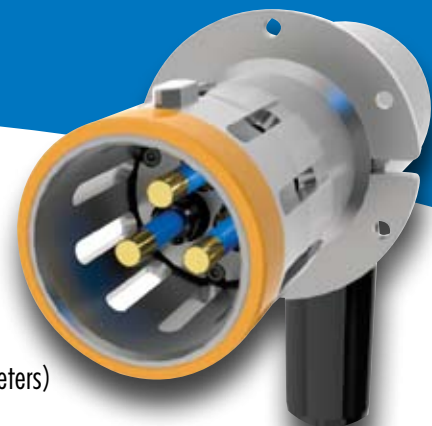
- Nautilus™ Connectors—
Standard and Chemically
Resistant (CR)
- Down-hole Connectors
- FACT —
Electrical Field Assembled
Cable Termination
- High-Power Connectors

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 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 25°C
Storage Temperature:	-20°C to 55°C
Max Operational Pressure:	5,000 psi (3,500 meters)
Mate/Demate Cycles:	> 100
Mating Force:	< 150 lbs
Demating Force:	< 100 lbs
Material:	Titanium
Design Life:	> 25 Years

ELECTRICAL SPECIFICATIONS

Operational Current:	125 amps (@ 20°C) 150 amps (subsea)
Fault Current:	4,000 amps RMS for 0.167 seconds
Impulse Voltage:	> 95 kV BIL
DC Operational Voltage:	10,000 VDC
AC Operational Voltage:	Category A/B - U _o /U _l /U _m 3.6/6.2/7.2 kVAC Category C - U _o /U _l /U _m 3.6/3.6/7.2 kVAC
Partial Discharge:	< 10 Picocoulombs @ 7.2 kVAC
Leakage Current:	< 5 x 10 ⁻⁹ amps @ 20 kVDC
Withstand Voltage:	40 kVDC for 4 hours 14.4 kVAC for 4 hours
Continuity:	< 0.0025 Ω per contact
Contact Resistance:	< 500 μohms
Insulation Resistance:	> 100 GΩ @ 10 kVDC

*For reference only, see FDS - IFS D/N 148350 for Official Values

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IFS D/N 177385 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.



TELEDYNE ODI

Nautilus™ High-Power G2

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