

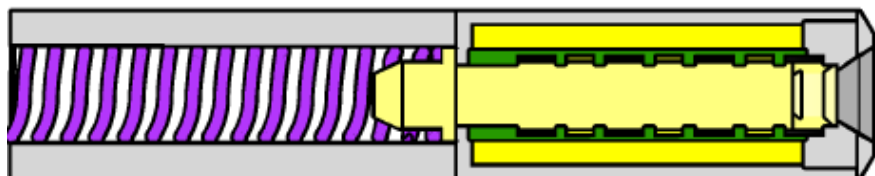
High Pressure High Temp Wet Mate Connector

The AMETEK Subsea wet mate connector designed for reliability in extreme environments, expands the AMETEK Interconnect portfolio of HPHT products. A 3 channel wet mate, at just 15.8mm in diameter protecting both plug and socket contacts, this new connector has been functionally tested to 1034bar and 150°C.

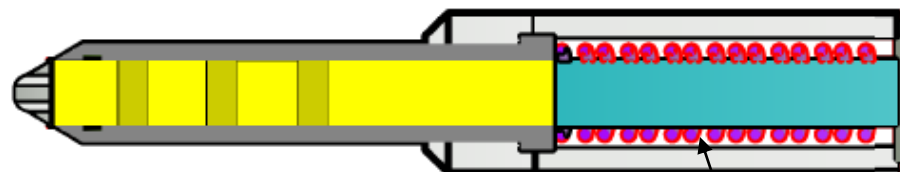


Design Parameters	Materials and Performance
Material Specification	Inconel Nominal, 316LSS, Titanium
Design Life	25 years
Number of Circuits	3
Design Pressure	10,000psi (690bar)
Helium Leak – Pressure Header	≤10 ⁻⁸ scc/sec
Test Pressure	15,000psi (1034bar)
Environmental Operating Temperature	302degF (150degC)
Voltage	500VDC
Amperage	5A
Dimensions	.625” (15.8mm) Diameter
Mate Cycles	100 Mate/Demate

Receptacle Half Wet Mate Connector



Plug Half Wet Mate Connector

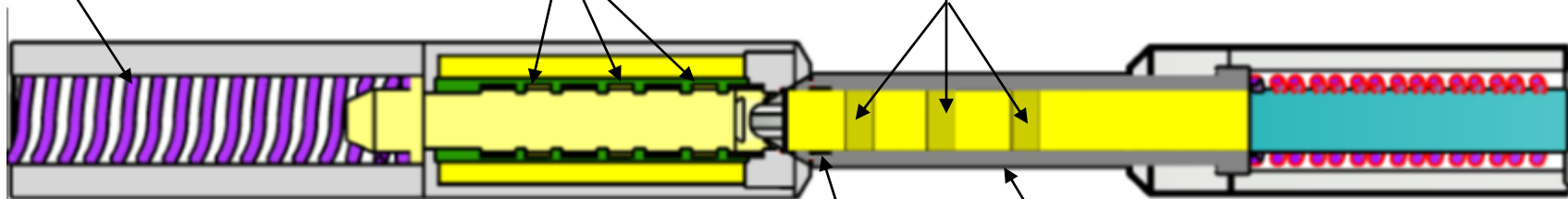


Female Piston Spring

Receptacle Contacts

Male Contact Bands

Male Sleeve Spring

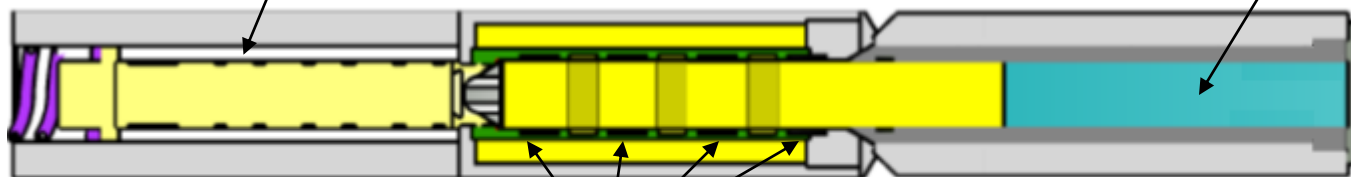


Sliding Sleeve

Scraper

Pressure Balanced Oil Filled

Pressure Balanced Oil Filled

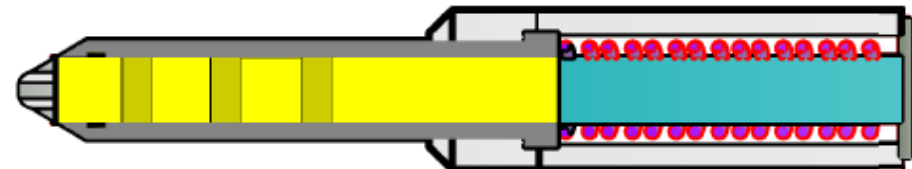
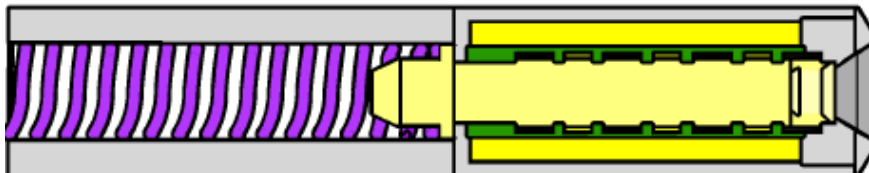


Dual Seals

HPHT Subsea Wet Mate Receptacle

The sealed receptacle with concentric contacts features an oil-filled primary chamber to prevent water ingress. Each electrical band is further protected within an individual secondary oil-filled chamber when mated. All chambers have individual seals, failure of any individual seal would not compromise the connector's integrity. A central female pin axially displaceable in the central passage prevents water ingress or loss of oil when the connector is not mated

Receptacle Half Wet Mate Connector



Plug Half Wet Mate Connector

HPHT Subsea Wet Mate Plug

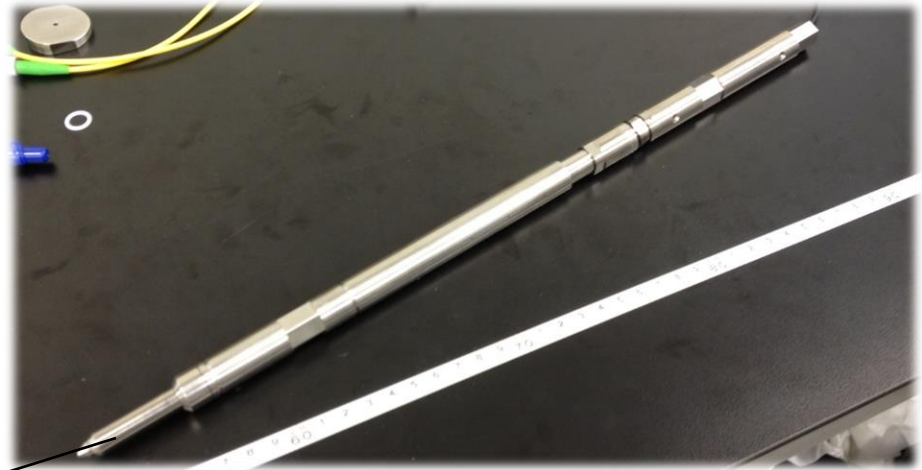
A main insulated plug core with contact bands on the connector displaces the female pin during the mating process. The plug core is protected with an outer sleeve that covers the plurality of the contacts in an oil-filled chamber. The contact bands are wiped before making connection with its mating the electrical contact band.

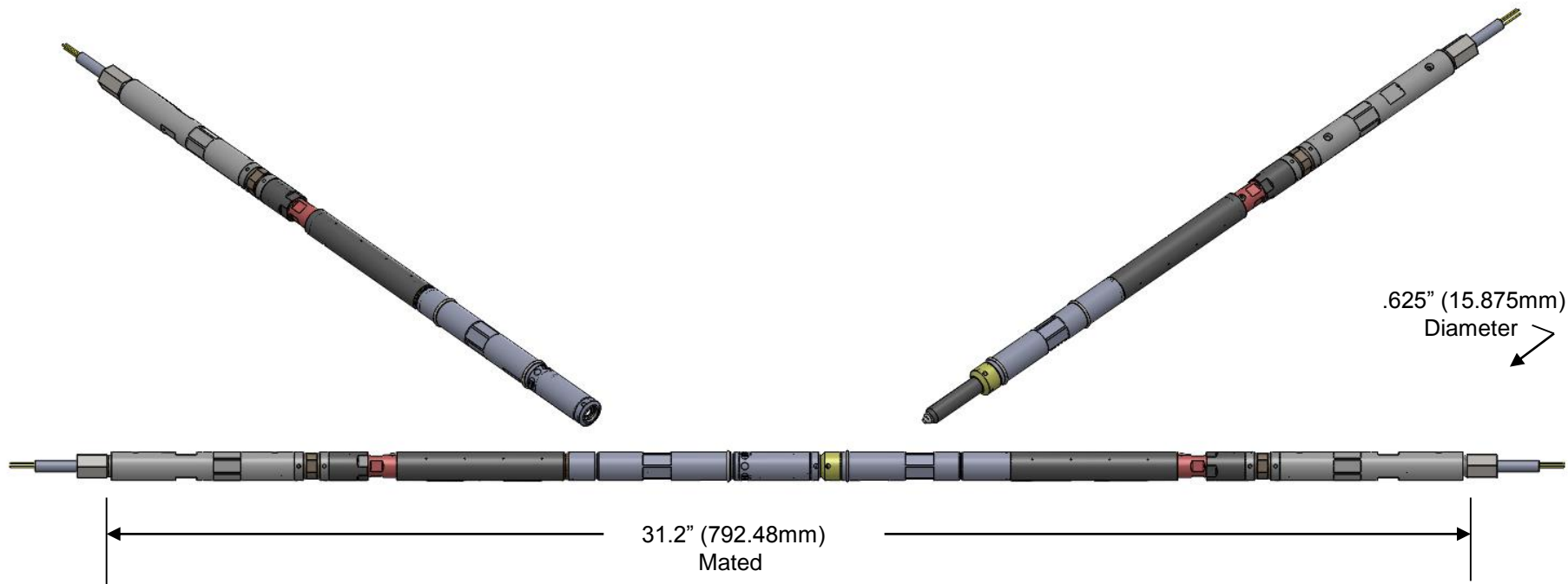
HPHT Mated Subsea Connectors

Each connector half is individually sealed and when mated the whole assembly is pressure balanced minimizing stresses within the sealing areas.

Mated Wet Mate Connector Set







Thank You!

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