

WellConnect™

Instrumentation Dry Mate Electrical Connector (Field Attachable)

The Dry Mate consists of two halves, male and female. The male half has metal to metal sealing whilst the female is a Field Attachable Connector, eradicating the need for offshore splicing. The Connectors are used for Subsea equipment including Tubing Hanger & Tubing Hanger Running Tools.

Operational Requirements

Design Life:	25 years
Location within Completion:	Subsea TH & THRT
Rated Pressure:	15,000 psi
Test Pressure:	22,500 psi
Working Temperature Range:	-20°C to 155°C
Storage Temperature Range:	-18°C Min

Mechanical Requirements

Envelope Diameter:	As per Customer Specifications
--------------------	--------------------------------

Electrical Specification

Number of Contacts:	1
Contact Method:	Multi-contact
Working Voltage:	500 Vdc
Test Voltage (to Earth):	1000Vdc
Ampacity:	5A

Material Specification

Housing:	High Strength Cupronickel
Insulation:	PEEK HT

Design Philosophy

Independent Design Review Validation
 Metal to Metal Sealing
 Field Attachable Dry Mate
 Test Port Facilities

Cable

1/4" PDC Cable

Conductor:	Wire size range 14 AWG to 26 AWG
Insulation:	Max OD 3.5mm
Filler:	Max OD 5.0mm
Tube:	OD 6.35mm (0.25") Nominal
Encapsulation:	All sizes compatible (removed locally where terminated into product)

1/8" PDC Cable

Conductor:	Wire size range 16 AWG to 26 AWG
Insulation:	Max OD 2.0mm
Filler:	N/A
Tube:	OD 3.175mm (0.125") Nominal
Encapsulation:	All sizes compatible (removed locally where terminated into product)

Qualification Testing

Proof Voltage
 Insulation Resistance
 Contact Resistance
 Pressure Test
 Pressure and Temperature Cycling (API6 PSL4)
 Metal to Metal Sealing
 Individual Seal Test

