

WellConnect™

Instrumentation Dry Mate Electrical Connector V1 (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
Water Depth:	3,000 metres

Mechanical Requirements

Outer Diameter: 30.2mm (1-3/16")

Electrical Specification

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

Material Specification

Housing:	High Strength Cupronickel
Insulation:	PEEK 450G

Design Philosophy

Slimline Design
Metal to Metal Sealing - Tubing Hanger Half
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: where terminated into product)	All sizes compatible (removed locally)

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: where terminated into product)	All sizes compatible (removed locally)

Qualification Testing

Proof Voltage
Insulation Resistance
Contact Resistance
Pressure Test
API 6A PSL4 Pressure & Temperature Cycling
API 17D Pressure & Temperature Cycling (Mechanical Barriers) - Gas

