

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

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|-----------------------------|------------------|
| 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

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

Material Specification

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|-------------|---------------------------|
| 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

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|----------------|--|
| 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

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|----------------|--|
| 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 (API 6A PSL4)

