

Well**Power**TM Junction Box

The RMSpumptools Junction Box for power systems distributing Single and Split-Phase ESP Cables provides a long term reliable connection in a subsea downhole environment.

Operational Requirements

Design Life: Permanently Installed Connector 10 years

Rated Pressure: 5,000 Psi
Test Pressure: 7,500 Psi
Design Pressure: 11,250 Psi

Working Temperature Range: 0°C to 150°C (32°F to 302°F) Storage Temperature Range: -30°C to 40°C (-22°F to 104°F)

Mechanical Requirements

Outside Diameter: 5" or 5.5"
Production Tube: 2.9" or 3.56"
Box Only Length: 13.4"
Junction Box Min Length: 16"
System Length with WMEC's: 32"

Electrical Specification

 Rated Voltage:
 2.89 / 5.0 kVAC (Uo/U)

 Breakdown Voltage:
 > 8Uo (23.1 kV)

 Ampacity:
 80 - 125 A

 Frequency Range:
 30 - 85 HZ

Material Specification

Housing: 316 Stainless Steel

Duplex Stainless Steel (2205)
Contacts: Gold Plated Beryllium Copper

Insulation: PEEK 450G

Design Philosophy

Sealing: Dual electrical and mechanical barriers Primary Metalic Cone Seal and Elastomeric Back-up Electrical insulation Primary: Thermoplastic or Elastomer Lower Connector Pressure Barrier

Cable

Various Cable Options

Qualification Testing

Standard Electrical Integrity Tests
Pre-Epoxy Full Pressure Test
Endurance Test
Simulated Environment Material Compatibility Test
Temperature Rise (current)
High Voltage

Key Performance Features

Provides 180° U-Turn
Flat MLE to WMEC rear PB
HPHT Application Materials
Energised Seals
Metal to Metal Sealing
Gold-plated Contacts
Crimp Technology
Plug and Play Jumpers to Wet-Mate

