



HydraElectric 10kV+ System*

6/10 (12) kV, 1600 A, 200 Hz for Depths to 2000 m

- Wet mate
- Jumpers (straight or elbow termination)
- Penetrators
- Dry-mate cable termination
- Insulated caps

Applications

- Subsea gas compression
- Subsea electrical heating

Electrical Characteristics

- **Number of Contacts:** 1
- **Rated Voltage U_0/U (U_m):** 6/10 (12) kV
- **Maximum Rated Current:** 1800 A
- **Rated Power Frequency:** 15 to 200 Hz
- **Insulation Resistance @5 kVDC:** >10 G Ω
- **Contact Resistance:** <0.05 m Ω per contact

Mechanical Characteristics

- **Rated Water Depth:** 2000 m
- **Rated Number of Mating Cycles:** 100
- **Differential Pressure Rating:**
(internal-ambient) 204 bar (dry gas)
220 bar (wet gas)
- **Differential Pressure Rating:**
(ambient-internal) 200 bar
- **Body Material:** Super Duplex or 6Mo
- **Insulation Material:** PEEK
- **Insulation Material (Penetrators):**
PEEK or ceramic

Environmental Characteristics

- **Rated Temperature (Seawater):**
-1°C to +15°C
- **Rated Internal Temperature:** 50°C
- **Interfacing Internal Media:** Nitrogen,
dry or wet gas, or dielectric oil
- **Rated Temperature Range:**
-1°C to +15°C
- **Storage Temperature Range:**
-25°C to +60°C
- **Design Life:** 25 years

Additional Characteristics

- **Qualification Standard:** NHT-E51-00029
Rev03M

Notes

Additional qualification standards or features available or possible to develop, please contact us

* Formerly Deutsch Offshore P6-SW1600

