



HydraElectric 10kV System*

6/10 (12) kV, 400 A for Depths to 3000 m

- Umbilical cable termination
- Wet mate
- Jumpers (straight termination)
- Penetrators
- Dry-mate cable termination
- Diode shunted caps

Applications

- Subsea pumping
- Subsea water injection
- Subsea power distribution
- Subsea electrical heating

Electrical Characteristics

- **Number of Contacts:** 1
- **Rated Voltage U_0/U (U_m):** 6/10 (12) kV
- **Maximum Rated Current:** 400 A
- **Rated Power Frequency:** 15 to 120 Hz
- **Insulation Resistance @5 kVDC:** >10 G Ω
- **Contact Resistance:** <0.1 m Ω per contact

Mechanical Characteristics

- **Rated Water Depth:** 3000 m
- **Rated Number of Mating Cycles:** 30
- **Differential Pressure Rating:** (internal-ambient) 345 bar (5000 psi) @ 400A
888 bar (13,000 psi) @ 250A
1034 bar (15,000 psi) @ 400A
- **Differential Pressure Rating:** (ambient-internal) 300 bar
- **Body Material:** Super Duplex
- **Insulation Material:** PEEK
- **Insulation Material (Penetrators):** PEEK or ceramic

Environmental Characteristics

- **Rated Temperature (Seawater):** -5°C to +30°C
- **Rated Internal Temperature:** 80°C @ 345 bar (5000 psi)
121°C @ 888 bar (13,000 psi)
80°C @ 1034 bar (15,000 psi)
- **Storage Temperature Range:** -25°C to +60°C
- **Design Life:** 20 years

Additional Characteristics

- **Qualification Standard:** TD0153, Final Ver. 1

Notes

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

* Formerly Deutsch Offshore P6-SW400

