subsea umbilical, ROV tether & oceanographic tow cable

Subsea Caisson Cable

0.6/1 kV Subsea Caisson Pump Power & Screened Sensor Data Steel-Braid

Subsea Caisson Pump / 0.6/1 kV · 0.6/1 kV · Subsea umbilical, rov tether &



Subsea Caisson Pump / 0.6/1 kV | **0.6/1 kV (-30 to +90 °C)** | **Flame-Retardant Heavy PUR Outer Jack**

Application

0.6/1 kV Subsea Caisson Pump Power & Screened Sensor Data Steel-Braid Armoured Composite Cable (1,500 m) (Subsea Caisson Pump / 0.6/1 kV) engineered for 0.6/1 kV service across -30 to +90 °C (min. bend radius 8 × OD).

Typical uses: Oceanographic CTD, ADCP & Deep-Tow Surveys, Work-Class & Observation ROV / AUV Systems, Side-Scan Sonar, SAS & Towed Hydrophone Arrays, Marine 2D/3D/UHR Seismic Streamers & OBC

Construction





Cross-section, not to scale

1. Caisson Pump Power Conductors (4 Cores)
2. Shielded Sensor Data Twisted Pairs (4×2)
3. PUR Inner Sheath & Galvanized Steel Brai
4. Flame-Retardant Heavy PUR Outer Jacket

Technical data

Typical values

Rated voltage / transmission duty	0.6/1 kV (0.6/1 kV Subsea Caisson Pump Power + Screened Data Pairs Steel-Braid Armoured PUR Specification)	**Core / conductor construction**	Caisson Pump Power Conductors (4 Cores) — Stranded tinned copper conductors with water-resistant XLPO insulation
Primary dielectric / buffering	Shielded Sensor Data Twisted Pairs (4×2) — Individually foil-screened pairs for caisson level, vibration & temp monitoring	**Continuous operating temperature**	−30…+90 °C (subsea & offshore duty)
Hydrostatic & thermal stability	Verified thermal and hydrostatic stability per 0.6/1 kV Subsea Caisson Pump Power + Screened Data Pairs Steel-Braid Armoured PUR Specification	**Storage & transport temperature**	−40…+80 °C on export wooden/steel winch reel
Outer protection / armouring	Flame-Retardant Heavy PUR Outer Jacket — High-strength flame-retardant polyurethane outer sheath	**Minimum bending radius**	8 × OD
Armour, strength member & mechanical duty	PUR Inner Sheath & Galvanized Steel Braid — Waterproof PUR inner jacket + galvanized steel wire braid armour	**Seawater, hydrostatic & hydrolysis resistance**	Engineered for continuous seawater immersion, pressure cycling and hydrolysis resistance per 0.6/1 kV Subsea Caisson Pump Power + Screened Data Pairs Steel-Braid Armoured PUR Specification
Oil, drilling mud & abrasion resistance	Resistant to marine hydraulic oils, salt mist, winch sheave wear and seabed abrasion per 0.6/1 kV Subsea Caisson Pump Power + Screened Data Pairs Steel-Braid Armoured PUR Specification	**RoHS & REACH compliance**	RoHS 2 (2011/65/EU + 2015/863) & REACH SVHC compliant
Standards	0.6/1 kV Subsea Caisson Pump Power + Screened Data Pairs Steel-Braid Armoured PUR Specification		

Sizes

3 standard constructions

Tick the sizes you need and send this page to info@tebaoflex.com or WhatsApp +86 185 9591 3361.

Order designation	Configuration	Core / stranding	Outer Ø ≈ mm	Net weight ≈ kg/km	Breaking / tensile kN ≈	Min. bend R mm
Subsea Caisson Cable Construction Schedule (−30…+90 °C) 3 sizes						
☐ Subsea Caisson Cable 3×16+1G16 mm²	3 × 16 + 1G16 mm² (or 1C×50 mm²)	IEC 60228 Class 2/5 Cu/SnCu	22.4	920	18.5	135
☐ Subsea Caisson Cable 3×35+1G16 mm²	3 × 35 + 1G16 mm² (or 1C×150 mm²)	IEC 60228 Class 2/5 Cu/SnCu	28.8	1,690	32.0	175
☐ Subsea Caisson Cable 3×95+1G50 mm²	3 × 95 + 1G50 mm² (or 1C×300 mm²)	IEC 60228 Class 2/5 Cu/SnCu	41.2	3,680	58.0	250

– Custom core cross-sections, pair/fibre counts, armour breaking loads and continuous winch/seabed lengths available per 0.6/1 kV Subsea Caisson Pump Power + Screened Data Pairs Steel-Braid Armoured PUR Specification.

Electrical, optical & thermal parameters

3 sizes

Configuration	Max. DC R_{20} / Atten. Ω/km or dB/km	Rating / Impedance	Operating temp.
3 × 16 + 1G16 mm² (or 1C×50 mm²)	1.15	0.6/1 kV (98 A)	−30…+90 °C
3 × 35 + 1G16 mm² (or 1C×150 mm²)	0.52	0.6/1 kV (158 A)	−30…+90 °C
3 × 95 + 1G50 mm² (or 1C×300 mm²)	0.19	0.6/1 kV (285 A)	−30…+90 °C

– Every production length undergoes routine conductor DC resistance, high-voltage dielectric or OTDR continuity and dimensional verification.

Standards and approvals

- Subsea Caisson Pump / 0.6/1 kV Compliant
- EN 10204 3.1 Factory Test Certificate
- CE, RoHS 2 (2011/65/EU) & REACH

Certifications

Management systems: ISO 9001, ISO 14001, ISO 45001

Request a quotation

Send the size, length and destination. An application engineer replies within 2 business hours.

WhatsApp / phone
+86 185 9591 3361

Email
info@tebaoflex.com

Web
tebaoflex.com/cables/subsea-caisson-armoured-power-data-cable

Typical values for this cable type, based on 0.6/1 kV Subsea Caisson Pump Power + Screened Data Pairs Steel-Braid Armoured PUR Specification. Values for your order are confirmed in the quotation. Subject to change without notice. Jiangsu Tebaoflex Special Cable Co., Ltd., Taicang, Jiangsu, China.