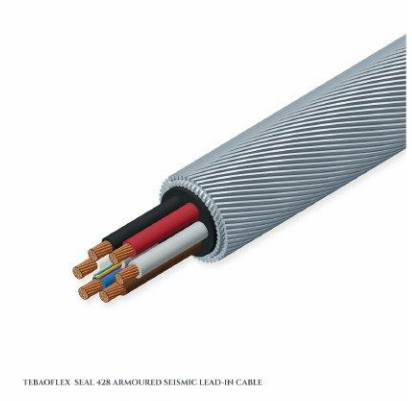
subsea umbilical, ROV tether & oceanographic tow cable

Seal 428 Lead-In

Seal 428 500 V DC 300–570 kN Heavy Multi-Layer Steel-Armoured 3D Seism

Seal 428 / 300–570 kN Lead-In · 500 V DC · Subsea umbilical, rov tether &

Seal 428 / 300–570 kN Lead-In | **500 V DC (-30 to +80 °C)** | **300–570 kN Multi-Layer Steel Wire Ar**



Application

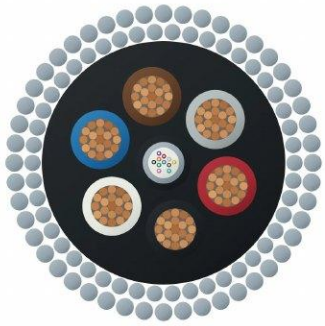
Seal 428 500 V DC 300–570 kN Heavy Multi-Layer Steel-Armoured 3D Seismic Streamer Lead-In Cable (Seal 428 / 300–570 kN Lead-In) engineered for 500 V DC service across -30 to +80 °C (min. bend radius 15 × OD).

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



TEBAOFLEX SEAL 428 ARMOURED SEISMIC LEAD-IN CABLE



Cross-section, not to scale

1. High-Speed Single-Mode Optical Unit
2. Large-Section Copper Power Buses (6 Core
3. Extruded Polymeric Inner Bedding
4. 300–570 kN Multi-Layer Steel Wire Armour

Technical data

Typical values

Rated voltage / transmission duty	500 V DC (Seal 428 (300/470/570 kN, 1,500 m) Heavy-Armoured Seismic Electro-Optical Lead-In Specification)	**Core / conductor construction**	High-Speed Single-Mode Optical Unit — Central stainless-steel tube housing single-mode telemetry fibers
Primary dielectric / buffering	Large-Section Copper Power Buses (6 Cores) — Stranded copper conductors with XLPE/PE insulation feeding streamer array	**Continuous operating temperature**	−30…+80 °C (subsea & offshore duty)
Hydrostatic & thermal stability	Verified thermal and hydrostatic stability per Seal 428 (300/470/570 kN, 1,500 m) Heavy-Armoured Seismic Electro-Optical Lead-In Specification	**Storage & transport temperature**	−40…+80 °C on export wooden/steel winch reel
Outer protection / armouring	300–570 kN Multi-Layer Steel Wire Armour — Contra-helical preformed heavy galvanized steel wire armour (1,500 m)	**Minimum bending radius**	15 × OD
Armour, strength member & mechanical duty	Extruded Polymeric Inner Bedding — Void-free high-pressure polyethylene inner jacket	**Seawater, hydrostatic & hydrolysis resistance**	Engineered for continuous seawater immersion, pressure cycling and hydrolysis resistance per Seal 428 (300/470/570 kN, 1,500 m) Heavy-Armoured Seismic Electro-Optical Lead-In Specification
Oil, drilling mud & abrasion resistance	Resistant to marine hydraulic oils, salt mist, winch sheave wear and seabed abrasion per Seal 428 (300/470/570 kN, 1,500 m) Heavy-Armoured Seismic Electro-Optical Lead-In Specification	**RoHS & REACH compliance**	RoHS 2 (2011/65/EU + 2015/863) & REACH SVHC compliant
Standards	Seal 428 (300/470/570 kN, 1,500 m) Heavy-Armoured Seismic Electro-Optical Lead-In 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
Seal 428 Lead-In Construction Schedule (−30…+80 °C) 3 sizes						
☐ Seal 428 Lead-In 4–12F EOM/Sub	4–12 × ITU-T G.652D / G.654E SM (+ Power)	Laser-welded SS FIMT + Steel/Aramid Armour	8.2	260	48.0	125
☐ Seal 428 Lead-In 24–48F EOM/Sub	24–48 × ITU-T G.652D / G.654E SM (+ Power)	Laser-welded SS FIMT + Contra-Helical Steel	17.5	680	120.0	260
☐ Seal 428 Lead-In 96–192F Trunk	96–192 × ITU-T G.654E / G.652D Submarine	SS Tube + Steel Vault + Cu Tube + DA Armour	28.0	1,650	300.0	420

– Custom core cross-sections, pair/fibre counts, armour breaking loads and continuous winch/seabed lengths available per Seal 428 (300/470/570 kN, 1,500 m) Heavy-Armoured Seismic Electro-Optical Lead-In Specification.

Electrical, optical & thermal parameters

3 sizes

Configuration	Max. DC R_{20} / Atten. Ω/km or dB/km	Rating / Impedance	Operating temp.
4–12 × ITU-T G.652D / G.654E SM (+ Power)	0.35	≤0.35 dB/km @ 1310 nm	−30…+80 °C
24–48 × ITU-T G.652D / G.654E SM (+ Power)	0.21	≤0.21 dB/km @ 1550 nm	−30…+80 °C
96–192 × ITU-T G.654E / G.652D Submarine	0.18	≤0.18 dB/km @ 1550 nm	−30…+80 °C

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

Standards and approvals

- Seal 428 / 300–570 kN Lead-In 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/seal-428-armoured-seismic-lead-in-cable

Typical values for this cable type, based on Seal 428 (300/470/570 kN, 1,500 m) Heavy-Armoured Seismic Electro-Optical Lead-In Specification. Values for your order are confirmed in the quotation. Subject to change without notice. Jiangsu Tebaoflex Special Cable Co., Ltd., Taicang, Jiangsu, China.