subsea umbilical, ROV tether & oceanographic tow cable

Type 306 / 2530

300–600 V Side-Scan Sonar & Sub-Bottom Profiler Hybrid

Type 306 / 2530 Sonar Hybrid · 300 V – 600 V · Subsea umbilical, rov tether &



Type 306 / 2530 Sonar Hybrid | **300 V – 600 V (-30 to +80 °C)** | **Black Polyurethane (PUR) Outer Jacke**

Application

Type 306 / 2530 300–600 V Side-Scan Sonar & Sub-Bottom Profiler Hybrid Coaxial Tow Cable featuring central coaxial core and black polyurethane (pur) outer jacket (Type 306 / 2530 Sonar Hybrid, 300 V – 600 V, -30 to +80 °C).

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. Central Coaxial Core
2. 300V-600V Power & Signal Cores (6 Cores)
3. Aramid Braided Strength Member
4. Black Polyurethane (PUR) Outer Jacket

Technical data

Typical values

Rated voltage / transmission duty	300 V – 600 V (Type 306 / 2530 Coaxial + Screened Pairs + Aramid Subsea Sonar Tow Specification)	**Core / conductor construction**	Central Coaxial Core — Impedance-controlled coaxial unit for sonar acoustic transmission
Primary dielectric / buffering	300V-600V Power & Signal Cores (6 Cores) — Stranded tinned copper conductors with XLPE/PE insulation	**Continuous operating temperature**	−30…+80 °C (subsea & offshore duty)
Hydrostatic & thermal stability	Verified thermal and hydrostatic stability per Type 306 / 2530 Coaxial + Screened Pairs + Aramid Subsea Sonar Tow Specification	**Storage & transport temperature**	−40…+80 °C on export wooden/steel winch reel
Outer protection / armouring	Black Polyurethane (PUR) Outer Jacket — Heavy-duty black PUR outer sheath for sonar towfish & profilers	**Minimum bending radius**	8 × OD
Armour, strength member & mechanical duty	Aramid Braided Strength Member — High-tensile aramid fiber braid over inner bedding sheath	**Seawater, hydrostatic & hydrolysis resistance**	Engineered for continuous seawater immersion, pressure cycling and hydrolysis resistance per Type 306 / 2530 Coaxial + Screened Pairs + Aramid Subsea Sonar Tow Specification
Oil, drilling mud & abrasion resistance	Resistant to marine hydraulic oils, salt mist, winch sheave wear and seabed abrasion per Type 306 / 2530 Coaxial + Screened Pairs + Aramid Subsea Sonar Tow Specification	**RoHS & REACH compliance**	RoHS 2 (2011/65/EU + 2015/863) & REACH SVHC compliant
Standards	Type 306 / 2530 Coaxial + Screened Pairs + Aramid Subsea Sonar Tow 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
Type 306 / 2530 Construction Schedule (−30…+80 °C) 3 sizes						
☐ Type 306 Coax / Cat5e	Coax (39/40/50/75 Ω) or 4Pr Cat5e + Power	Stranded SnCu + Foam PE/FEP + Armour/Aramid	8.2	245	42.7	120
☐ Type 306 Composite B	Heavy Coax / 64-Ch Digital Bus + Power	Stranded SnCu + Low-Loss Dielectric + Strength	11.5	485	71.2	170
☐ Type 306 Array / Trunk C	Multi-Ch Digital Streamer / 255-Ch Bus	Redundant Telemetry + Aramid + PUR Jacket	44.5	1,620	95.0	445

– Custom core cross-sections, pair/fibre counts, armour breaking loads and continuous winch/seabed lengths available per Type 306 / 2530 Coaxial + Screened Pairs + Aramid Subsea Sonar Tow Specification.

Electrical, optical & thermal parameters

3 sizes

Configuration	Max. DC R_{20} / Atten. Ω/km or dB/km	Rating / Impedance	Operating temp.
Coax (39/40/50/75 Ω) or 4Pr Cat5e + Power	18.50	300 V – 600 V (High-Speed)	−30…+80 °C
Heavy Coax / 64-Ch Digital Bus + Power	11.20	300 V – 600 V (Deep-Tow/Array)	−30…+80 °C
Multi-Ch Digital Streamer / 255-Ch Bus	6.80	300 V – 600 V (Full Array)	−30…+80 °C

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

Standards and approvals

- ✓ Type 306 / 2530 Sonar Hybrid 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/type-306-2530-sonar-coaxial-cable

Typical values for this cable type, based on Type 306 / 2530 Coaxial + Screened Pairs + Aramid Subsea Sonar Tow Specification. Values for your order are confirmed in the quotation. Subject to change without notice. Jiangsu Tebaoflex Special Cable Co., Ltd., Taicang, Jiangsu, China.