subsea umbilical, ROV tether & oceanographic tow cable

Aramid Sonar Tow

120 V AC / 48 V DC Aramid-Braided (6,500 lbs) Side-Scan Sonar Shielded



Side-Scan Sonar Tow / 6,500 lbs · 120 V AC / 48 V DC · Subsea umbilical, rov tether &

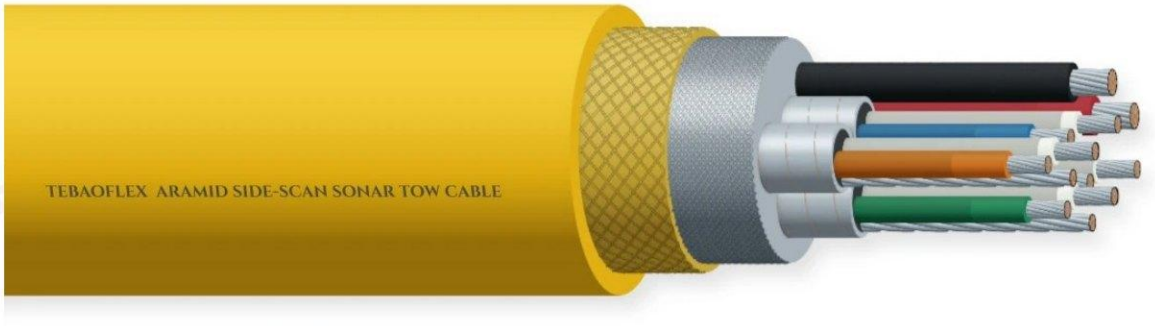
Side-Scan Sonar Tow / 6,500 lbs | **120 V AC / 48 V DC (-30 to +80 °C)** | **Yellow Polyurethane (PUR) Tow Jacket**

Application

120 V AC / 48 V DC Aramid-Braided (6,500 lbs) Side-Scan Sonar Shielded Pair Tow Cable (Side-Scan Sonar Tow / 6,500 lbs) engineered for 120 V AC / 48 V DC service across -30 to +80 °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. Shielded Sonar Data Pairs (4×2)
2. Towfish Power Conductors (2 Cores)
3. Aramid Braided Strength Member (6,500 lb
4. Yellow Polyurethane (PUR) Tow Jacket

Technical data

Typical values

Rated voltage / transmission duty	120 V AC / 48 V DC (Aramid-Braided (6,500 lbs / 28.9 kN) Side-Scan Sonar 4Pr+2C PUR Tow Specification)	**Core / conductor construction**	Shielded Sonar Data Pairs (4×2) — High-flex tinned copper pairs with low-loss PE dielectric & foil shields
Primary dielectric / buffering	Towfish Power Conductors (2 Cores) — 120 V AC / 48 V DC tinned copper power cores (Red, Black)	**Continuous operating temperature**	−30…+80 °C (subsea & offshore duty)
Hydrostatic & thermal stability	Verified thermal and hydrostatic stability per Aramid-Braided (6,500 lbs / 28.9 kN) Side-Scan Sonar 4Pr+2C PUR Tow Specification	**Storage & transport temperature**	−40…+80 °C on export wooden/steel winch reel
Outer protection / armouring	Yellow Polyurethane (PUR) Tow Jacket — Cut- and abrasion-resistant yellow PUR outer sheath	**Minimum bending radius**	8 × OD
Armour, strength member & mechanical duty	Aramid Braided Strength Member (6,500 lbs) — High-coverage braided aramid fiber absorbing hydrodynamic tow loads	**Seawater, hydrostatic & hydrolysis resistance**	Engineered for continuous seawater immersion, pressure cycling and hydrolysis resistance per Aramid-Braided (6,500 lbs / 28.9 kN) Side-Scan Sonar 4Pr+2C PUR Tow Specification
Oil, drilling mud & abrasion resistance	Resistant to marine hydraulic oils, salt mist, winch sheave wear and seabed abrasion per Aramid-Braided (6,500 lbs / 28.9 kN) Side-Scan Sonar 4Pr+2C PUR Tow Specification	**RoHS & REACH compliance**	RoHS 2 (2011/65/EU + 2015/863) & REACH SVHC compliant
Standards	Aramid-Braided (6,500 lbs / 28.9 kN) Side-Scan Sonar 4Pr+2C PUR 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
Aramid Sonar Tow Construction Schedule (−30…+80 °C) 3 sizes						
☐ Aramid Sonar Tow 4Pr / 8Ch	4×2×24–20 AWG (or 8-Ch Array)	Stranded SnCu + Foil/Braid + Aramid	11.2	175	12.5	90
☐ Aramid Sonar Tow 8Pr / 16Ch	8×2×22–18 AWG (or 16-Ch Array)	Stranded SnCu + Foil/Braid + Aramid	16.4	340	24.0	130
☐ Aramid Sonar Tow 16Pr / 24Ch	16×2×18–16 AWG (or 24-Ch Array)	Stranded SnCu + Foil/Braid + Aramid	24.8	690	35.0	195

– Custom core cross-sections, pair/fibre counts, armour breaking loads and continuous winch/seabed lengths available per Aramid-Braided (6,500 lbs / 28.9 kN) Side-Scan Sonar 4Pr+2C PUR Tow Specification.

Electrical, optical & thermal parameters

3 sizes

Configuration	Max. DC R_{20} / Atten. Ω/km or dB/km	Rating / Impedance	Operating temp.
4×2×24–20 AWG (or 8-Ch Array)	42.00	120 V AC / 48 V DC (≤55 nF/km)	−30…+80 °C
8×2×22–18 AWG (or 16-Ch Array)	26.00	120 V AC / 48 V DC (≤60 nF/km)	−30…+80 °C
16×2×18–16 AWG (or 24-Ch Array)	15.20	120 V AC / 48 V DC (≤65 nF/km)	−30…+80 °C

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

Standards and approvals

- Side-Scan Sonar Tow / 6,500 lbs 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/aramid-side-scan-sonar-tow-cable

Typical values for this cable type, based on Aramid-Braided (6,500 lbs / 28.9 kN) Side-Scan Sonar 4Pr+2C PUR 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.