subsea umbilical, ROV tether & oceanographic tow cable

Towed PAM Array

48 V DC / 300 V 4–6 Channel Towed Passive Acoustic Monitoring (PAM) Ma

Towed PAM Acoustic Array · 48 V DC / 300 V · Subsea umbilical, rov tether &



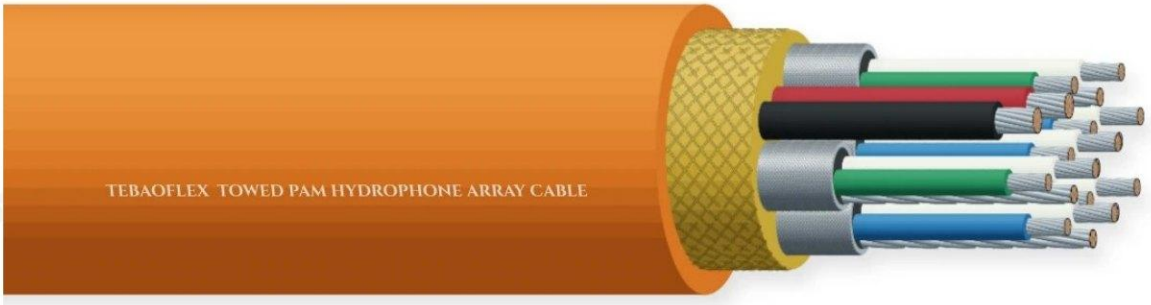
Towed PAM Acoustic Array | **48 V DC / 300 V (-30 to +80 °C)** | **Heavy-Duty Orange Polyurethane (PUR)**

Application

48 V DC / 300 V 4–6 Channel Towed Passive Acoustic Monitoring (PAM) Marine Hydrophone Array Cable (Towed PAM Acoustic Array) engineered for 48 V DC / 300 V 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. Low-Noise Shielded Hydrophone Channels (
2. Depth Sensor & Array Power Conductors
3. Aramid Tensile Strength Reinforcement
4. Heavy-Duty Orange Polyurethane (PUR) Jac

Technical data

Typical values

Rated voltage / transmission duty	48 V DC / 300 V (Towed Passive Acoustic Monitoring (PAM) 4–6 Ch + Depth Sensor Aramid PUR Specification)	**Core / conductor construction**	Low-Noise Shielded Hydrophone Channels (4-6 Pr) — Individually shielded polyolefin twisted pairs for broadband PAM
Primary dielectric / buffering	Depth Sensor & Array Power Conductors — Stranded tinned copper cores for depth transducer and preamplifiers	**Continuous operating temperature**	−30…+80 °C (subsea & offshore duty)
Hydrostatic & thermal stability	Verified thermal and hydrostatic stability per Towed Passive Acoustic Monitoring (PAM) 4–6 Ch + Depth Sensor Aramid PUR Specification	**Storage & transport temperature**	−40…+80 °C on export wooden/steel winch reel
Outer protection / armouring	Heavy-Duty Orange Polyurethane (PUR) Jacket — High-visibility acoustically transparent PUR outer sheath	**Minimum bending radius**	8 × OD
Armour, strength member & mechanical duty	Aramid Tensile Strength Reinforcement — Braided aramid strength member for 230 m tow & 25 m array sections	**Seawater, hydrostatic & hydrolysis resistance**	Engineered for continuous seawater immersion, pressure cycling and hydrolysis resistance per Towed Passive Acoustic Monitoring (PAM) 4–6 Ch + Depth Sensor Aramid PUR Specification
Oil, drilling mud & abrasion resistance	Resistant to marine hydraulic oils, salt mist, winch sheave wear and seabed abrasion per Towed Passive Acoustic Monitoring (PAM) 4–6 Ch + Depth Sensor Aramid PUR Specification	**RoHS & REACH compliance**	RoHS 2 (2011/65/EU + 2015/863) & REACH SVHC compliant
Standards	Towed Passive Acoustic Monitoring (PAM) 4–6 Ch + Depth Sensor Aramid 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
Towed PAM Array Construction Schedule (−30…+80 °C) 3 sizes						
☐ **Towed PAM Array 4Pr / 8Ch**	**4×2×24–20 AWG (or 8-Ch Array)**	**Stranded SnCu + Foil/Braid + Aramid**	**11.2**	**175**	**12.5**	**90**
☐ **Towed PAM Array 8Pr / 16Ch**	**8×2×22–18 AWG (or 16-Ch Array)**	**Stranded SnCu + Foil/Braid + Aramid**	**16.4**	**340**	**24.0**	**130**
☐ **Towed PAM Array 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 Towed Passive Acoustic Monitoring (PAM) 4–6 Ch + Depth Sensor Aramid PUR 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**	**48 V DC / 300 V (≤55 nF/km)**	**−30…+80 °C**
8×2×22–18 AWG (or 16-Ch Array)	**26.00**	**48 V DC / 300 V (≤60 nF/km)**	**−30…+80 °C**
16×2×18–16 AWG (or 24-Ch Array)	**15.20**	**48 V DC / 300 V (≤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

- Towed PAM Acoustic Array 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/towed-pam-hydrophone-array-cable

Typical values for this cable type, based on Towed Passive Acoustic Monitoring (PAM) 4–6 Ch + Depth Sensor Aramid 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.