subsea umbilical, ROV tether & oceanographic tow cable

MicroEel 30.5mm Streamer

MicroEel Ø 30.5 mm 12–24 Channel Small-Diameter Aramid All-Solid Marin

MicroEel Ø 30.5 mm Solid Streamer · 48 V DC / 300 V · Subsea umbilical, rov tether &



MicroEel Ø 30.5 mm Solid Streamer | **48 V DC / 300 V (-20 to +70 °C)** | **Polyurethane (PUR) Streamer Outer Sh**

Application

MicroEel Ø 30.5 mm 12–24 Channel Small-Diameter Aramid All-Solid Marine Seismic Streamer Cable (MicroEel Ø 30.5 mm Solid Streamer) engineered for 48 V DC / 300 V service across -20 to +70 °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. 12-24 Channel Wideband Hydrophone Pairs
2. 1,800 lbs Aramid Tensile Strength Core
3. 30.5 mm All-Solid Elastomeric Fill
4. Polyurethane (PUR) Streamer Outer Sheath

Technical data

Typical values

Rated voltage / transmission duty	48 V DC / 300 V (MicroEel Ø 30.5 mm (1,600 lbs Aramid) 12–24 Channel Small-Diameter Solid Streamer Specification)	**Core / conductor construction**	12-24 Channel Wideband Hydrophone Pairs — Low-noise shielded twisted pairs with polyolefin insulation
Primary dielectric / buffering	1,800 lbs Aramid Tensile Strength Core — Central high-modulus aramid rope for nearshore towing	**Continuous operating temperature**	−20…+70 °C (subsea & offshore duty)
Hydrostatic & thermal stability	Verified thermal and hydrostatic stability per MicroEel Ø 30.5 mm (1,600 lbs Aramid) 12–24 Channel Small-Diameter Solid Streamer Specification	**Storage & transport temperature**	−40…+80 °C on export wooden/steel winch reel
Outer protection / armouring	Polyurethane (PUR) Streamer Outer Sheath — Smooth yellow abrasion-resistant polyurethane jacket	**Minimum bending radius**	8 × OD
Armour, strength member & mechanical duty	30.5 mm All-Solid Elastomeric Fill — Compact solid elastomeric acoustic cavity	**Seawater, hydrostatic & hydrolysis resistance**	Engineered for continuous seawater immersion, pressure cycling and hydrolysis resistance per MicroEel Ø 30.5 mm (1,600 lbs Aramid) 12–24 Channel Small-Diameter Solid Streamer Specification
Oil, drilling mud & abrasion resistance	Resistant to marine hydraulic oils, salt mist, winch sheave wear and seabed abrasion per MicroEel Ø 30.5 mm (1,600 lbs Aramid) 12–24 Channel Small-Diameter Solid Streamer Specification	**RoHS & REACH compliance**	RoHS 2 (2011/65/EU + 2015/863) & REACH SVHC compliant
Standards	MicroEel Ø 30.5 mm (1,600 lbs Aramid) 12–24 Channel Small-Diameter Solid Streamer 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
MicroEel 30.5mm Streamer Construction Schedule (−20…+70 °C) 3 sizes						
☐ MicroEel 30.5mm Streamer 4Pr / 8Ch	4×2×24–20 AWG (or 8-Ch Array)	Stranded SnCu + Foil/Braid + Aramid	11.2	175	12.5	90
☐ MicroEel 30.5mm Streamer 8Pr / 16Ch	8×2×22–18 AWG (or 16-Ch Array)	Stranded SnCu + Foil/Braid + Aramid	16.4	340	24.0	130
☐ MicroEel 30.5mm Streamer 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 MicroEel Ø 30.5 mm (1,600 lbs Aramid) 12–24 Channel Small-Diameter Solid Streamer 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)	−20…+70 °C
8×2×22–18 AWG (or 16-Ch Array)	26.00	48 V DC / 300 V (≤60 nF/km)	−20…+70 °C
16×2×18–16 AWG (or 24-Ch Array)	15.20	48 V DC / 300 V (≤65 nF/km)	−20…+70 °C

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

Standards and approvals

- MicroEel Ø 30.5 mm Solid Streamer 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/microeel-30-5mm-solid-seismic-streamer

Typical values for this cable type, based on MicroEel Ø 30.5 mm (1,600 lbs Aramid) 12–24 Channel Small-Diameter Solid Streamer Specification. Values for your order are confirmed in the quotation. Subject to change without notice. Jiangsu Tebaoflex Special Cable Co., Ltd., Taicang, Jiangsu, China.