subsea umbilical, ROV tether & oceanographic tow cable

eXtreamer UHR Streamer

eXtreamer Ultra-High-Resolution (UHR) 1.0–3.125 m Group All-Solid Digi

UHR All-Solid Seismic Streamer · 48 V DC / 300 V · Subsea umbilical, rov tether &



UHR All-Solid Seismic Streamer | **48 V DC / 300 V (-20 to +70 °C)** | **Abrasion-Resistant PUR Streamer Jack**

Application

eXtreamer Ultra-High-Resolution (UHR) 1.0–3.125 m Group All-Solid Digital Seismic Streamer Cable (UHR All-Solid Seismic Streamer) engineered for 48 V DC / 300 V service across -20 to +70 °C (min. bend radius 10 × 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. UHR Digital Telemetry Pairs (1.0-3.125 m
2. High-Tenacity Synthetic Strength Members
3. Small-OD Solid Acoustic Polymeric Fill
4. Abrasion-Resistant PUR Streamer Jacket

Technical data

Typical values

Rated voltage / transmission duty	48 V DC / 300 V (eXtreamer Ultra-High-Resolution (UHR) Aramid-Core Solid Digital Seismic Streamer Specification)	**Core / conductor construction**	UHR Digital Telemetry Pairs (1.0-3.125 m) — High-speed digital twisted pairs for dense hydrophone groups
Primary dielectric / buffering	High-Tenacity Synthetic Strength Members — Dual axial synthetic strength ropes absorbing towing loads	**Continuous operating temperature**	−20…+70 °C (subsea & offshore duty)
Hydrostatic & thermal stability	Verified thermal and hydrostatic stability per eXtreamer Ultra-High-Resolution (UHR) Aramid-Core Solid Digital Seismic Streamer Specification	**Storage & transport temperature**	−40…+80 °C on export wooden/steel winch reel
Outer protection / armouring	Abrasion-Resistant PUR Streamer Jacket — Smooth low-drag polyurethane outer sheath	**Minimum bending radius**	10 × OD
Armour, strength member & mechanical duty	Small-OD Solid Acoustic Polymeric Fill — Oil-free solid elastomeric matrix eliminating environmental leak risk	**Seawater, hydrostatic & hydrolysis resistance**	Engineered for continuous seawater immersion, pressure cycling and hydrolysis resistance per eXtreamer Ultra-High-Resolution (UHR) Aramid-Core Solid Digital Seismic Streamer Specification
Oil, drilling mud & abrasion resistance	Resistant to marine hydraulic oils, salt mist, winch sheave wear and seabed abrasion per eXtreamer Ultra-High-Resolution (UHR) Aramid-Core Solid Digital Seismic Streamer Specification	**RoHS & REACH compliance**	RoHS 2 (2011/65/EU + 2015/863) & REACH SVHC compliant
Standards	eXtreamer Ultra-High-Resolution (UHR) Aramid-Core Solid Digital Seismic 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
eXtreamer UHR Streamer Construction Schedule (−20…+70 °C) 3 sizes						
☐ eXtreamer UHR Streamer 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
☐ eXtreamer UHR Streamer Composite B	Heavy Coax / 64-Ch Digital Bus + Power	Stranded SnCu + Low-Loss Dielectric + Strength	11.5	485	71.2	170
☐ eXtreamer UHR Streamer 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 eXtreamer Ultra-High-Resolution (UHR) Aramid-Core Solid Digital Seismic Streamer 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	48 V DC / 300 V (High-Speed)	−20…+70 °C
Heavy Coax / 64-Ch Digital Bus + Power	11.20	48 V DC / 300 V (Deep-Tow/Array)	−20…+70 °C
Multi-Ch Digital Streamer / 255-Ch Bus	6.80	48 V DC / 300 V (Full Array)	−20…+70 °C

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

Standards and approvals

- ✓ UHR All-Solid Seismic 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/extreamer-uhr-solid-seismic-streamer

Typical values for this cable type, based on eXtreamer Ultra-High-Resolution (UHR) Aramid-Core Solid Digital Seismic 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.