subsea ROV umbilical, AUV tether & sonar tow cable

SPE-7130 Flexible Buoyant Tether

SPE-7130 Flexible Buoyant Hybrid Tether

ITU-T G.657 / IEC 60794 · 600 V · Subsea rov umbilical, auv tether & sonar tow cable



ITU-T G.657 / IEC 60794 | 600 V (-40 to +80 °C) | Subsea / Marine Outer Protective She

Application

SPE-7130 Flexible Buoyant Hybrid Tether featuring single-mode / multi-mode optical unit and subsea / marine outer protective sheath (ITU-T G.657 / IEC 60794, 600 V, -40 to +80 °C, min. bend radius 5 × OD).

Typical uses: Work-Class & Observation ROV Umbilicals and TMS Tethers, Offshore Aquaculture Net Cleaners & Subsea Cage Inspection, AUV, Ocean Glider & Expendable Spool-Payoff Micro-Tethers, USV Towed Sonar Arrays, Seabed Crawlers & Subsea Trenchers

Construction





Cross-section, not to scale

1. Single-Mode / Multi-Mode Optical Unit
2. Power & Control Copper Conductors
3. Subsea / Marine Outer Protective Sheath

Technical data

Typical values

Rated voltage / operating system	600 V (ITU-T G.657 SPE-7130 Flexible Neutrally Buoyant Hybrid ROV Tether Standard)	**Core / conductor construction**	Single-Mode / Multi-Mode Optical Unit — Hermetic stainless-steel tube / tight-buffered optical unit
Primary dielectric / optical buffer	Power & Control Copper Conductors — Stranded copper conductors with Low-capacitance cellular Foam-Skin PE insulation	**Continuous operating temperature**	−40…+80 °C (submerged seawater & topside deck service)
Hydrostatic & thermal cycling endurance	Verified cold-bend and wet dielectric stability across −40…+80 °C per ITU-T G.657 SPE-7130 Flexible Neutrally Buoyant Hybrid ROV Tether Standard	**Storage & transport temperature**	−40…+80 °C on export wooden/steel cable drum
Outer jacket / sheath protection	Subsea / Marine Outer Protective Sheath — Black neutrally buoyant cellular foamed Polyurethane (Foamed PUR) outer sheath	**Minimum bending radius**	5 × OD
Reinforcement / screen / bedding layer	Power & Control Copper Conductors — Stranded copper conductors with Low-capacitance cellular Foam-Skin PE insulation	**Seawater, hydrolysis & oil resistance**	Resistant to permanent seawater immersion, hydrolysis, hydraulic oil and bio-fouling per ITU-T G.657 SPE-7130 Flexible Neutrally Buoyant Hybrid ROV Tether Standard
Hydrostatic pressure & water blocking	Radial and longitudinal water-blocking integrity verified per ITU-T G.657 SPE-7130 Flexible Neutrally Buoyant Hybrid ROV Tether Standard	**RoHS & REACH compliance**	RoHS 2 (2011/65/EU + 2015/863) & REACH SVHC compliant
Standards	ITU-T G.657 SPE-7130 Flexible Neutrally Buoyant Hybrid ROV Tether Standard		

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	Max. pulling kN ≈	Min. bend R mm
SPE-7130 Flexible Buoyant Tether Construction Schedule (−40…+80 °C) 3 sizes						
☐ **SPE-7130 Flexible Buoyant Tether Buoyant Ø9.5**	**2×1.5 mm² + 2×SM Fiber + 1×TP**	**SnCu + G.657.A2 + Aramid + Foamed PUR**	**9.5**	**92**	**6.5**	**60**
☐ **SPE-7130 Flexible Buoyant Tether Buoyant Ø13.2**	**4×2.5 mm² + 4×SM Fiber + 2×TP**	**SnCu + G.657.A2 + Aramid/LCP + Foamed PUR**	**13.2**	**168**	**14.0**	**80**
☐ **SPE-7130 Flexible Buoyant Tether Buoyant Ø17.8**	**3×6.0 mm² + 6×SM/MM + 4×TP**	**SnCu + Optical Unit + Synthetic Braid**	**17.8**	**315**	**28.0**	**110**

– Custom core counts, optical fiber channels, wet-mate terminations and continuous winch lengths available per ITU-T G.657 SPE-7130 Flexible Neutrally Buoyant Hybrid ROV Tether Standard.

Electrical, optical & thermal parameters

3 sizes

Configuration	Max. DC R_{20} Ω/km	Rating / Impedance / Load	Operating temp.
2×1.5 mm² + 2×SM Fiber + 1×TP	**13.30**	**600 V · SG ≈ 1.01**	**−40…+80 °C**
4×2.5 mm² + 4×SM Fiber + 2×TP	**7.98**	**600 V · SG ≈ 1.02**	**−40…+80 °C**
3×6.0 mm² + 6×SM/MM + 4×TP	**3.30**	**600 V · SG ≈ 1.02**	**−40…+80 °C**

– Every production length undergoes routine conductor DC resistance / OTDR optical attenuation, AC dielectric and dimensional verification.

Standards and approvals

- ITU-T G.657 / IEC 60794 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/spe-7130-flexible-buoyant-hybrid-tether

Typical values for this cable type, based on ITU-T G.657 SPE-7130 Flexible Neutrally Buoyant Hybrid ROV Tether Standard. Values for your order are confirmed in the quotation. Subject to change without notice. Jiangsu Tebaoflex Special Cable Co., Ltd., Taicang, Jiangsu, China.