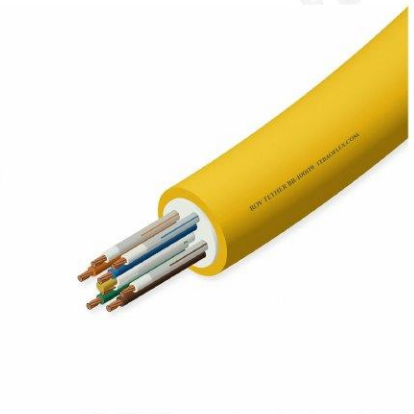
Neutrally buoyant foamed-PUR observation ROV tether cable

ROV TETHER BR-100119

ROV Tether BR-100119 1,000m Neutrally Buoyant Foamed-PUR Cable

TIA/EIA-568B · 300/500 V · Neutrally buoyant foamed-pur observation rov tether cable



TIA/EIA-568B HomePlug | 300 V (1,000 m Depth) | Neutrally Buoyant Ø7.6mm

Application

Neutrally Buoyant Polyurethane-Foam Aramid-Reinforced Water-Blocked ROV Tether Cable (Standard 4-TP 7.6 mm & Slim 1-TP 4.0 mm) (TIA/EIA-568B, 300/500 V, -20 to +75 °C, min. bend radius 8 × OD).

Typical uses: Work-Class & Observation ROV Systems, Offshore Wind & Subsea Power Grids, Oceanographic, Sonar & Seismic Survey, Commercial Diving & Subsea Intervention

Construction





Cross-section, not to scale

1. Unshielded Twisted Pairs (4×2×26 AWG)
2. Aramid Strength Core (155 kgf Break)
3. Water-Blocking Swellable Yarns
4. Closed-Cell PUR Foam Jacket (Ø7.6 mm)

Technical data

Typical values

Rated voltage / transmission duty	300/500 V (TIA/EIA-568B / Subsea HomePlug AV ROV Tether Standard)	**Core / conductor construction**	Unshielded Twisted Pairs (4×2×26 AWG) — Stranded copper 0.14 mm² pairs color-coded White/Blue, Orange, Green & Brown
Primary dielectric / buffering	Aramid Strength Core (155 kgf Break) — Embedded high-tenacity Aramid fibers (35 kgf working / 155 kgf breaking)	**Continuous operating temperature**	−20…+75 °C (subsea, marine & submersible duty)
Short-circuit / peak thermal rating	Verified thermal stability per TIA/EIA-568B / Subsea HomePlug AV ROV Tether Standard	**Storage & transport temperature**	−40…+80 °C on export wooden/steel drum
Outer protection / armouring	Closed-Cell PUR Foam Jacket (Ø7.6 mm) — High-visibility yellow foamed polyurethane jacket for neutral buoyancy	**Minimum bending radius**	8 × OD
Hydrostatic, tensile & crush duty	Water-Blocking Swellable Yarns — Longitudinal water-swellable fibers sealing interstices against 1,000 m ingress	**Hydrostatic pressure & water blocking**	Engineered for continuous submersion and hydrostatic integrity per TIA/EIA-568B / Subsea HomePlug AV ROV Tether Standard
Seawater, oil & chemical resistance	Resistant to seawater hydrolysis, hydraulic oils and abrasion per TIA/EIA-568B / Subsea HomePlug AV ROV Tether Standard	**RoHS & REACH compliance**	RoHS 2 (2011/65/EU + 2015/863) & REACH SVHC compliant
Standards	TIA/EIA-568B / Subsea HomePlug AV 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	Tensile rating kN ≈	Min. bend R mm
ROV TETHER BR-100119 Construction Schedule (−20…+75 °C) 3 sizes						
☐ **ROV TETHER BR-100119 Config A (Compact)**	4×2×24 AWG + 2×18 AWG (or 4C)	Stranded tinned Cu (IEC 60228 / ASTM)	10.4	155	4.5	85
☐ **ROV TETHER BR-100119 Config B (Standard)**	4×2×20 AWG + 4×16 AWG (or 8C)	Stranded tinned Cu (IEC 60228 / ASTM)	13.3	265	9.6	110
☐ **ROV TETHER BR-100119 Config C (Heavy Hybrid)**	8×2×20 AWG + 4×12 AWG (or 12C)	Stranded tinned Cu (IEC 60228 / ASTM)	16.6	420	18.5	140

– Custom core cross-sections, pair/fibre counts, armour grades and factory drum lengths available per TIA/EIA-568B / Subsea HomePlug AV ROV Tether Standard.

Electrical, optical & thermal parameters

3 sizes

Configuration	Max. DC R_{20} / Atten. Ω/km or dB/km	Rating / Impedance	Operating temp.
4×2×24 AWG + 2×18 AWG (or 4C)	28.40	300/500 V (45–100 Ω data)	−20…+75 °C
4×2×20 AWG + 4×16 AWG (or 8C)	10.70	300/500 V (45–100 Ω data)	−20…+75 °C
8×2×20 AWG + 4×12 AWG (or 12C)	5.40	300/500 V (High-Power Hybrid)	−20…+75 °C

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

Standards and approvals

- TIA/EIA-568B 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/rov-tether-br-100119

Typical values for this cable type, based on TIA/EIA-568B / Subsea HomePlug AV 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.