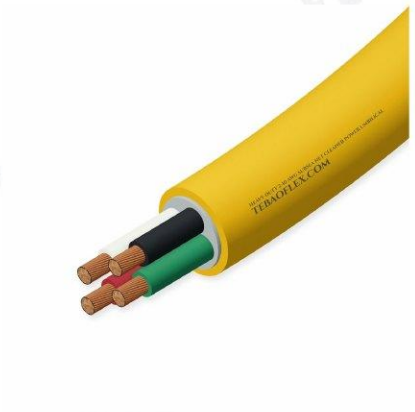
subsea ROV umbilical, AUV tether & sonar tow cable

2-10 AWG Net Cleaner Umbilical

Heavy-Duty 2-10 AWG Subsea Net Cleaner Power Umbilical

UL 44 / IEC 60228 · 600/1,000 V · Subsea rov umbilical, auv tether & sonar tow cable



UL 44 / IEC 60228 | 600/1,000 V (-40 to +80 °C) | Subsea / Marine Outer Protective She

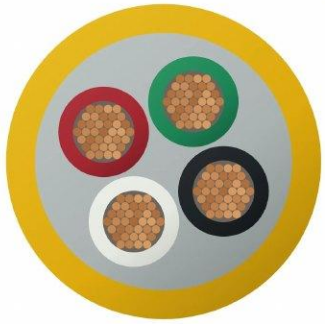
Application

Heavy-Duty 2-10 AWG Subsea Net Cleaner Power Umbilical featuring flexible stranded copper conductors (5 cores) and subsea / marine outer protective sheath (UL 44 / IEC 60228, 600/1,000 V, -40 to +80 °C, min. bend radius 6 × 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. Flexible Stranded Copper Conductors (5 C
2. Cross-Linked Elastomeric / Polymer Core
3. Water-Blocking Tape & Inner Bedding
4. Subsea / Marine Outer Protective Sheath

Technical data

Typical values

Rated voltage / operating system	600/1,000 V (UL 44 & IEC 60228 Subsea Net Cleaner Power Umbilical Specification)	**Core / conductor construction**	Flexible Stranded Copper Conductors (5 Cores) — Class 5/ class 6 copper conductors
Primary dielectric / optical buffer	Cross-Linked Elastomeric / Polymer Core Insulation — Cross-linked polyethylene (xlpe) 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 UL 44 & IEC 60228 Subsea Net Cleaner Power Umbilical Specification	**Storage & transport temperature**	−40…+80 °C on export wooden/steel cable drum
Outer jacket / sheath protection	Subsea / Marine Outer Protective Sheath — Black hydrolysis- & abrasion-resistant marine Polyurethane (PUR) outer sheath	**Minimum bending radius**	6 × OD
Reinforcement / screen / bedding layer	Water-Blocking Tape & Inner Bedding — Hydrostatic water-blocking filler and low-friction separator wrap	**Seawater, hydrolysis & oil resistance**	Resistant to permanent seawater immersion, hydrolysis, hydraulic oil and bio-fouling per UL 44 & IEC 60228 Subsea Net Cleaner Power Umbilical Specification
Hydrostatic pressure & water blocking	Radial and longitudinal water-blocking integrity verified per UL 44 & IEC 60228 Subsea Net Cleaner Power Umbilical Specification	**RoHS & REACH compliance**	RoHS 2 (2011/65/EU + 2015/863) & REACH SVHC compliant
Standards	UL 44 & IEC 60228 Subsea Net Cleaner Power Umbilical 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	Max. pulling kN ≈	Min. bend R mm
2-10 AWG Net Cleaner Umbilical Construction Schedule (−40…+80 °C) 3 sizes						
☐ **2-10 AWG Net Cleaner Umbilical 4G4.0 mm²**	**4G4.0 mm² (3×4.0 + 1G4.0 / 12 AWG)**	**IEC 60228 Class 5 Cu/SnCu**	**14.2**	**340**	**3.2**	**85**
☐ **2-10 AWG Net Cleaner Umbilical 4G16 mm²**	**4G16 mm² (3×16 + 1G16 / 6 AWG)**	**IEC 60228 Class 5 Cu/SnCu**	**21.4**	**840**	**9.6**	**130**
☐ **2-10 AWG Net Cleaner Umbilical 3×50+1G25 mm²**	**3 × 50 + 1G25 mm² (or 3×70+1G35)**	**IEC 60228 Class 5 Cu/SnCu**	**32.8**	**2,240**	**26.5**	**195**

– Custom core counts, optical fiber channels, wet-mate terminations and continuous winch lengths available per UL 44 & IEC 60228 Subsea Net Cleaner Power Umbilical Specification.

Electrical, optical & thermal parameters

3 sizes

Configuration	Max. DC R_{20} Ω/km	Rating / Impedance / Load	Operating temp.
4G4.0 mm² (3×4.0 + 1G4.0 / 12 AWG)	**4.95**	**600/1,000 V (36 A Submersible)**	**−40…+80 °C**
4G16 mm² (3×16 + 1G16 / 6 AWG)	**1.21**	**600/1,000 V (98 A Submersible)**	**−40…+80 °C**
3 × 50 + 1G25 mm² (or 3×70+1G35)	**0.39**	**600/1,000 V (195 A Feeder)**	**−40…+80 °C**

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

Standards and approvals

- UL 44 / IEC 60228 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/heavy-duty-2-10-awg-subsea-net-cleaner-power-umbilical

Typical values for this cable type, based on UL 44 & IEC 60228 Subsea Net Cleaner Power Umbilical Specification. Values for your order are confirmed in the quotation. Subject to change without notice. Jiangsu Tebaoflex Special Cable Co., Ltd., Taicang, Jiangsu, China.