subsea Ethernet, RS-485 & sonar coaxial data cable

Tactical Aramid Crawler Data Cable

Tactical Aramid Camera & Crawler Data Cable

ISO/IEC 11801 / MIL-DTL-24643 · 300 V · Subsea ethernet, rs-485 & sonar coaxial data cable



ISO/IEC 11801 / MIL-DTL-24643 | 300 V (-40 to +85 °C) | Subsea / Marine Outer Protective She

Application

Tactical Aramid Camera & Crawler Data Cable featuring stranded copper twisted pairs (4×2) and subsea / marine outer protective sheath (ISO/IEC 11801 / MIL-DTL-24643, 300 V, -40 to +85 °C, min. bend radius 6 × OD).

Typical uses: 6,000 m Full-Ocean-Depth ROV Gigabit Ethernet & HD Video, Aquaculture Cage RS-485 / Modbus Environmental Telemetry, Multibeam Sonar, CTD & Hydrophone Coaxial Signal Links, NEK 606 Offshore Platform & Vessel Data Networks

Construction





Cross-section, not to scale

1. Stranded Copper Twisted Pairs (4×2)
2. Copper Wire Braid EMC Screen
3. Aramid / LCP Braided Strength Member
4. Subsea / Marine Outer Protective Sheath

Technical data

Typical values

Rated voltage / operating system	300 V (ISO/IEC 11801 Tactical Aramid Camera & Subsea Crawler Data Cable Standard)	**Core / conductor construction**	Stranded Copper Twisted Pairs (4×2) — Twisted pairs with Fluoropolymer (FEP/ETFE) high-dielectric insulation
Primary dielectric / optical buffer	Copper Wire Braid EMC Screen — High-coverage braided copper shield for EMI/VFD protection	**Continuous operating temperature**	−40…+85 °C (submerged seawater & topside deck service)
Hydrostatic & thermal cycling endurance	Verified cold-bend and wet dielectric stability across −40…+85 °C per ISO/IEC 11801 Tactical Aramid Camera & Subsea Crawler Data Cable Standard	**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	Aramid / LCP Braided Strength Member — High-tenacity synthetic fiber braid absorbing dynamic tension	**Seawater, hydrolysis & oil resistance**	Resistant to permanent seawater immersion, hydrolysis, hydraulic oil and bio-fouling per ISO/IEC 11801 Tactical Aramid Camera & Subsea Crawler Data Cable Standard
Hydrostatic pressure & water blocking	Radial and longitudinal water-blocking integrity verified per ISO/IEC 11801 Tactical Aramid Camera & Subsea Crawler Data Cable Standard	**RoHS & REACH compliance**	RoHS 2 (2011/65/EU + 2015/863) & REACH SVHC compliant
Standards	ISO/IEC 11801 Tactical Aramid Camera & Subsea Crawler Data Cable 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
Tactical Aramid Crawler Data Cable Construction Schedule (−40…+85 °C) 3 sizes						
☐ **Tactical Aramid Crawler Data Cable 2×2×0.50 mm²**	**2 × 2 × 0.50 mm² (20 AWG) + Vent/Drain**	**Stranded SnCu + Foil/TCWB + Subsea PUR**	**8.4**	**98**	**2.5**	**50**
☐ **Tactical Aramid Crawler Data Cable 4×2×0.50 + 2×**	**4 × 2 × 0.50 + 2 × 1.5 mm² Hybrid**	**Stranded SnCu + Individual/Overall Shield**	**11.8**	**195**	**5.2**	**70**
☐ **Tactical Aramid Crawler Data Cable 4×2×0.75 + 4×**	**4 × 2 × 0.75 + 4 × 2.5 mm² Subsea**	**Stranded SnCu + Aramid/Armour + PUR**	**15.2**	**360**	**12.0**	**95**

– Custom core counts, optical fiber channels, wet-mate terminations and continuous winch lengths available per ISO/IEC 11801 Tactical Aramid Camera & Subsea Crawler Data Cable Standard.

Electrical, optical & thermal parameters

3 sizes

Configuration	Max. DC R_{20} Ω/km	Rating / Impedance / Load	Operating temp.
2 × 2 × 0.50 mm² (20 AWG) + Vent/Drain	**39.00**	**300 V (4–20 mA / DO)**	**−40…+85 °C**
4 × 2 × 0.50 + 2 × 1.5 mm² Hybrid	**39.00**	**300 V (CTD / Multi-Sensor)**	**−40…+85 °C**
4 × 2 × 0.75 + 4 × 2.5 mm² Subsea	**26.00**	**300 V (ROV / Camera / LED)**	**−40…+85 °C**

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

Standards and approvals

- ISO/IEC 11801 / MIL-DTL-24643 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/tactical-aramid-camera-crawler-data-cable

Typical values for this cable type, based on ISO/IEC 11801 Tactical Aramid Camera & Subsea Crawler Data Cable Standard. Values for your order are confirmed in the quotation. Subject to change without notice. Jiangsu Tebaoflex Special Cable Co., Ltd., Taicang, Jiangsu, China.