Subsea aquaculture winch camera & net cleaner hybrid TPU cable

LH-1250 CABLE

LH-1250 Subsea Aquaculture Feeding Camera & Net Cleaner TPU Cable

IEEE 802.3at PoE+ / RG59 · 300/500 V · Subsea aquaculture winch camera & net cleaner



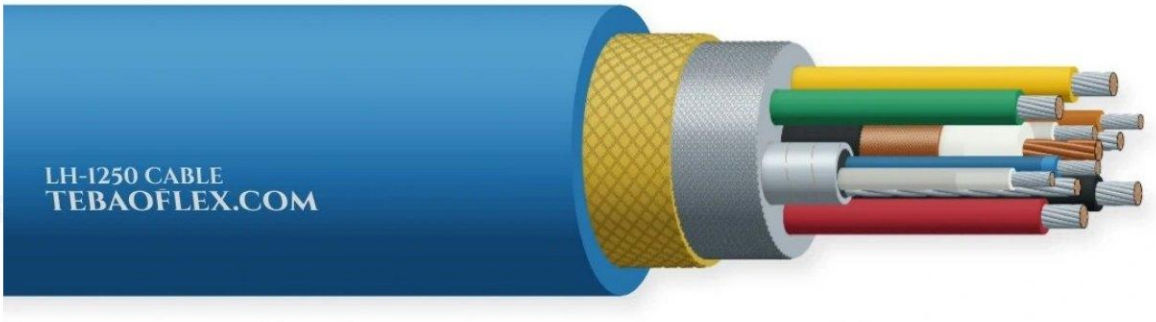
RG59 Video / Cat5e PoE+ | 24–75 V DC Winch Power | Anti-Biofouling TPU

Application

Aquaculture Winch Subsea Feeding Camera Cable (Blue TPU / Black Reinforced RG59 Hybrid & Green PUR Cat5e PoE) & High-Pressure Net Cleaner Breakout Cable (LH-1250-023 to LH-1250-026) (IEEE 802.3at PoE+ / RG59, 300/500 V, -25 to +75 °C).

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. Center 75 Ω RG59 Video Coax (or Cat5e PoE)
2. Shielded RS-485 Control & Sensor Pairs
3. DC Power & LED Lighting Cores (24–75 V DC)
4. Overall Shield & Aramid Winch Braid
5. Anti-Biofouling Blue/Black/Green TPU Sheath

Technical data

Typical values

Rated voltage / transmission duty	300/500 V (IEEE 802.3at PoE+ / Subsea Aquaculture Camera & Net Cleaner)	**Core / conductor construction**	Center 75 Ω RG59 Video Coax (or Cat5e PoE) — 75-ohm RG59 coaxial video unit (or 4-pair Cat5e PoE+ in Green PoE+ camera cable)
Primary dielectric / buffering	Shielded RS-485 Control & Sensor Pairs — Two foil-screened RS-485 pairs for pan/tilt camera, depth and dissolved-oxygen sensors	**Continuous operating temperature**	−25…+75 °C (subsea, marine & submersible duty)
Short-circuit / peak thermal rating	Verified thermal stability per IEEE 802.3at PoE+ / Subsea Aquaculture Camera & Net Cleaner	**Storage & transport temperature**	−40…+80 °C on export wooden/steel drum
Outer protection / armouring	Anti-Biofouling Blue/Black/Green TPU Sheath — Seawater-, UV- and mussel-resistant thermoplastic polyurethane jacket (Ø 10.8–12.6 mm)	**Minimum bending radius**	8 × OD
Hydrostatic, tensile & crush duty	Overall Shield & Aramid Winch Braid — Tinned copper EMI braid + high-tenacity aramid reinforcement for motorized winch reeling	**Hydrostatic pressure & water blocking**	Engineered for continuous submersion and hydrostatic integrity per IEEE 802.3at PoE+ / Subsea Aquaculture Camera & Net Cleaner
Seawater, oil & chemical resistance	Resistant to seawater hydrolysis, hydraulic oils and abrasion per IEEE 802.3at PoE+ / Subsea Aquaculture Camera & Net Cleaner	**RoHS & REACH compliance**	RoHS 2 (2011/65/EU + 2015/863) & REACH SVHC compliant
Standards	IEEE 802.3at PoE+ / Subsea Aquaculture Camera & Net Cleaner		

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
LH-1250 CABLE Construction Schedule (−25…+75 °C) 3 sizes						
☐ **LH-1250 CABLE Config A (Compact)**	4×2×24 AWG + 2×18 AWG (or 4C)	Stranded tinned Cu (IEC 60228 / ASTM)	10.4	155	4.5	85
☐ **LH-1250 CABLE Config B (Standard)**	4×2×20 AWG + 4×16 AWG (or 8C)	Stranded tinned Cu (IEC 60228 / ASTM)	13.3	265	9.6	110
☐ **LH-1250 CABLE 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 IEEE 802.3at PoE+ / Subsea Aquaculture Camera & Net Cleaner.

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)	−25…+75 °C
4×2×20 AWG + 4×16 AWG (or 8C)	10.70	300/500 V (45–100 Ω data)	−25…+75 °C
8×2×20 AWG + 4×12 AWG (or 12C)	5.40	300/500 V (High-Power Hybrid)	−25…+75 °C

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

Standards and approvals

- IEEE 802.3at PoE+ / RG59 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/lh-1250-cable

Typical values for this cable type, based on IEEE 802.3at PoE+ / Subsea Aquaculture Camera & Net Cleaner. Values for your order are confirmed in the quotation. Subject to change without notice. Jiangsu Tebaoflex Special Cable Co., Ltd., Taicang, Jiangsu, China.