submersible water-quality, CTD & ocean sensor cable

Inductive CYK11 Sensor Cable

Inductive CYK11 Subsea Water Sensor Extension Cable

EN 50288 / IEC 61158 · 300 V · Submersible water-quality, ctd & ocean sensor cable



EN 50288 / IEC 61158 | 300 V (-40 to +90 °C) | Subsea / Marine Outer Protective She

Application

Inductive CYK11 Subsea Water Sensor Extension Cable featuring flexible stranded copper conductors (4 cores) and subsea / marine outer protective sheath (EN 50288 / IEC 61158, 300 V, -40 to +90 °C, min. bend radius 5 × OD).

Typical uses: Aquaculture Dissolved Oxygen (DO), pH & Salinity Monitoring, Vented Hydrostatic Water-Level & Borehole Pressure Probes, Oceanographic CTD Rosettes, Current Meters & Mooring Buoys, Recirculating Aquaculture (RAS) & Wastewater Sensor Networks

Construction





Cross-section, not to scale

1. Flexible Stranded Copper Conductors (4 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	300 V (EN 50288 CYK11 Inductive Digital Water Sensor Extension Cable Standard)	**Core / conductor construction**	Flexible Stranded Copper Conductors (4 Cores) — Class 5 / class 6 copper conductors
Primary dielectric / optical buffer	Cross-Linked Elastomeric / Polymer Core Insulation — Thermoplastic elastomer (tpe) core insulation	**Continuous operating temperature**	−40…+90 °C (submerged seawater & topside deck service)
Hydrostatic & thermal cycling endurance	Verified cold-bend and wet dielectric stability across −40…+90 °C per EN 50288 CYK11 Inductive Digital Water Sensor Extension Cable Standard	**Storage & transport temperature**	−40…+80 °C on export wooden/steel cable drum
Outer jacket / sheath protection	Subsea / Marine Outer Protective Sheath — Black chemical- & bio-oil-resistant thermoplastic elastomer (TPE) outer sheath	**Minimum bending radius**	5 × 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 EN 50288 CYK11 Inductive Digital Water Sensor Extension Cable Standard
Hydrostatic pressure & water blocking	Radial and longitudinal water-blocking integrity verified per EN 50288 CYK11 Inductive Digital Water Sensor Extension Cable Standard	**RoHS & REACH compliance**	RoHS 2 (2011/65/EU + 2015/863) & REACH SVHC compliant
Standards	EN 50288 CYK11 Inductive Digital Water Sensor Extension 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
Inductive CYK11 Sensor Cable Construction Schedule (−40…+90 °C) 3 sizes						
☐ **Inductive CYK11 Sensor Cable 1×2×22AWG RS-485**	1 × 2 × 0.34 mm² (22 AWG) + Power Pair	Stranded SnCu + Foam PE + Foil/Braid	8.2	92	2.0	50
☐ **Inductive CYK11 Sensor Cable 4×2×24AWG Cat5e**	4 × 2 × 24 AWG Subsea Gigabit Ethernet	Stranded SnCu + High-Pressure PE + SF/UTP	9.6	125	3.5	60
☐ **Inductive CYK11 Sensor Cable 4×2×23AWG Cat6+2C**	4 × 2 × 23 AWG Cat6 + 2 × 1.5 mm² Power	Stranded SnCu + 600-Bar Matrix + PUR	12.8	215	6.8	78

– Custom core counts, optical fiber channels, wet-mate terminations and continuous winch lengths available per EN 50288 CYK11 Inductive Digital Water Sensor Extension Cable Standard.

Electrical, optical & thermal parameters

3 sizes

Configuration	Max. DC R_{20} Ω/km	Rating / Impedance / Load	Operating temp.
1 × 2 × 0.34 mm² (22 AWG) + Power Pair	55.00	300 V (120 Ω RS-485)	−40…+90 °C
4 × 2 × 24 AWG Subsea Gigabit Ethernet	84.00	300 V (100 Ω 1000BASE-T)	−40…+90 °C
4 × 2 × 23 AWG Cat6 + 2 × 1.5 mm² Power	72.00	300 V (100 Ω Cat6 6000m)	−40…+90 °C

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

Standards and approvals

- EN 50288 / IEC 61158 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/inductive-cyk11-subsea-water-sensor-extension-cable

Typical values for this cable type, based on EN 50288 CYK11 Inductive Digital Water Sensor Extension 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.