subsea umbilical, ROV tether & oceanographic tow cable

Type 4622CC

300 V / 75 V ADCP & CTD Oceanographic Subsea Sensor Data C

IEC 60092-350 / Subsea Sensor · 300 V / 75 V · Subsea umbilical, rov tether &



IEC 60092-350 / Subsea Sensor | 300 V / 75 V (-30 to +80 °C) | Black Polyurethane (PUR) Outer Jacke

Application

Type 4622CC 300 V / 75 V ADCP & CTD Oceanographic Subsea Sensor Data Cable featuring tinned copper power cores (2×1.00 mm²) and black polyurethane (pur) outer jacket (IEC 60092-350 / Subsea Sensor, 300 V / 75 V, -30 to +80 °C).

Typical uses: Oceanographic CTD, ADCP & Deep-Tow Surveys, Work-Class & Observation ROV / AUV Systems, Side-Scan Sonar, SAS & Towed Hydrophone Arrays, Marine 2D/3D/UHR Seismic Streamers & OBC

Construction





Cross-section, not to scale

1. Tinned Copper Power Cores (2×1.00 mm²)
2. Foil-Screened Data Pairs (6×2×0.22 mm²)
3. LLDPE Inner Bedding Sheath
4. Black Polyurethane (PUR) Outer Jacket

Technical data

Typical values

Rated voltage / transmission duty	300 V / 75 V (IEC 60092-350 / Oceanographic ADCP & CTD Subsea Specification)	**Core / conductor construction**	Tinned Copper Power Cores (2×1.00 mm²) — 300 V XLPE insulated tinned copper power conductors
Primary dielectric / buffering	Foil-Screened Data Pairs (6×2×0.22 mm²) — 75 V polyolefin twisted pairs with individual Al/PET foil screens	**Continuous operating temperature**	−30…+80 °C (subsea & offshore duty)
Hydrostatic & thermal stability	Verified thermal and hydrostatic stability per IEC 60092-350 / Oceanographic ADCP & CTD Subsea Specification	**Storage & transport temperature**	−40…+80 °C on export wooden/steel winch reel
Outer protection / armouring	Black Polyurethane (PUR) Outer Jacket — Seawater- and abrasion-resistant black PUR outer sheath (Ø 9.60 mm)	**Minimum bending radius**	8 × OD
Armour, strength member & mechanical duty	LLDPE Inner Bedding Sheath — Extruded linear low-density polyethylene inner protective sheath	**Seawater, hydrostatic & hydrolysis resistance**	Engineered for continuous seawater immersion, pressure cycling and hydrolysis resistance per IEC 60092-350 / Oceanographic ADCP & CTD Subsea Specification
Oil, drilling mud & abrasion resistance	Resistant to marine hydraulic oils, salt mist, winch sheave wear and seabed abrasion per IEC 60092-350 / Oceanographic ADCP & CTD Subsea Specification	**RoHS & REACH compliance**	RoHS 2 (2011/65/EU + 2015/863) & REACH SVHC compliant
Standards	IEC 60092-350 / Oceanographic ADCP & CTD Subsea 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	Breaking / tensile kN ≈	Min. bend R mm
Type 4622CC Construction Schedule (−30…+80 °C) 3 sizes						
☐ Type 4622CC 4Pr / 8Ch	4×2×24–20 AWG (or 8-Ch Array)	Stranded SnCu + Foil/Braid + Aramid	11.2	175	12.5	90
☐ Type 4622CC 8Pr / 16Ch	8×2×22–18 AWG (or 16-Ch Array)	Stranded SnCu + Foil/Braid + Aramid	16.4	340	24.0	130
☐ Type 4622CC 16Pr / 24Ch	16×2×18–16 AWG (or 24-Ch Array)	Stranded SnCu + Foil/Braid + Aramid	24.8	690	35.0	195

– Custom core cross-sections, pair/fibre counts, armour breaking loads and continuous winch/seabed lengths available per IEC 60092-350 / Oceanographic ADCP & CTD Subsea Specification.

Electrical, optical & thermal parameters

3 sizes

Configuration	Max. DC R_{20} / Atten. Ω/km or dB/km	Rating / Impedance	Operating temp.
4×2×24–20 AWG (or 8-Ch Array)	42.00	300 V / 75 V (≤55 nF/km)	−30…+80 °C
8×2×22–18 AWG (or 16-Ch Array)	26.00	300 V / 75 V (≤60 nF/km)	−30…+80 °C
16×2×18–16 AWG (or 24-Ch Array)	15.20	300 V / 75 V (≤65 nF/km)	−30…+80 °C

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

Standards and approvals

- IEC 60092-350 / Subsea Sensor 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/type-4622cc-subsea-data-300v-75v

Typical values for this cable type, based on IEC 60092-350 / Oceanographic ADCP & CTD Subsea Specification. Values for your order are confirmed in the quotation. Subject to change without notice. Jiangsu Tebaoflex Special Cable Co., Ltd., Taicang, Jiangsu, China.