UNOLS 0.322" double-armored oceanographic CTD winch cable

A301592

(UNOLS 0.322") 1,000–2,400 V Double-Armored Ocean CTD Cable

UNOLS 0.322" CTD · 0.6/1 kV · Unols 0.322" double-armored oceanographic ctd winch cable

UNOLS 0.322" CTD Std | **1,000–2,400 VDC** | **Preformed GXIPS Armor**



Application

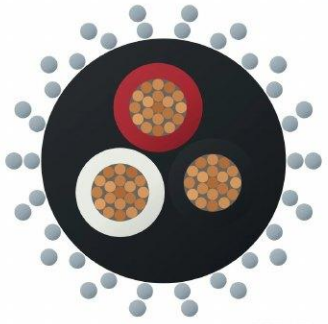
A301592 / A216375 / A310255 (UNOLS 0.322" / 0.375" / 0.252") Double-Armored CTD & Oceanographic Instrumentation Cable (UNOLS 0.322" CTD, 0.6/1 kV, -40 to +80 °C, min. bend radius 12 × OD).

Typical uses: Work-Class & Observation ROV Systems, Offshore Wind & Subsea Power Grids, Oceanographic, Sonar & Seismic Survey, Commercial Diving & Subsea Intervention

Construction



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Cross-section, not to scale

1. High-Yield Copper Conductors (3×)
2. Color-Coded PP / HDPE Insulation
3. Water-Blocked Cushion Bedding
4. Double Preformed GXIPS Steel Armor

Technical data

Typical values

Rated voltage / transmission duty	0.6/1 kV (UNOLS Standard 0.322" / 0.375" Double-Armored CTD Cable)	**Core / conductor construction**	High-Yield Copper Conductors (3×) — Three stranded copper conductors (≤30.8 Ω/km, yield >65% of cable breaking load)
Primary dielectric / buffering	Color-Coded PP / HDPE Insulation — 1,000 VDC polypropylene / high-density polyethylene insulation (≥3,000 MΩ·km)	**Continuous operating temperature**	−40…+80 °C (subsea, marine & submersible duty)
Short-circuit / peak thermal rating	Verified thermal stability per UNOLS Standard 0.322" / 0.375" Double-Armored CTD Cable	**Storage & transport temperature**	−40…+80 °C on export wooden/steel drum
Outer protection / armouring	Double Preformed GXIPS Steel Armor — Inner 18-wire + outer 22×0.95 mm contra-helical GXIPS steel armor (0.322" ± 0.003")	**Minimum bending radius**	12 × OD
Hydrostatic, tensile & crush duty	Water-Blocked Cushion Bedding — Void-filled core assembly + extruded black thermoplastic elastomer bedding	**Hydrostatic pressure & water blocking**	Engineered for continuous submersion and hydrostatic integrity per UNOLS Standard 0.322" / 0.375" Double-Armored CTD Cable
Seawater, oil & chemical resistance	Resistant to seawater hydrolysis, hydraulic oils and abrasion per UNOLS Standard 0.322" / 0.375" Double-Armored CTD Cable	**RoHS & REACH compliance**	RoHS 2 (2011/65/EU + 2015/863) & REACH SVHC compliant
Standards	UNOLS Standard 0.322" / 0.375" Double-Armored CTD Cable		

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
A301592 Construction Schedule (−40…+80 °C) 3 sizes						
☐ A301592 Config A (Compact)	4×2×24 AWG + 2×18 AWG (or 4C)	Stranded tinned Cu (IEC 60228 / ASTM)	10.4	155	4.5	85
☐ A301592 Config B (Standard)	4×2×20 AWG + 4×16 AWG (or 8C)	Stranded tinned Cu (IEC 60228 / ASTM)	13.3	265	9.6	110
☐ A301592 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 UNOLS Standard 0.322" / 0.375" Double-Armored CTD Cable.

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	0.6/1 kV (45–100 Ω data)	−40…+80 °C
4×2×20 AWG + 4×16 AWG (or 8C)	10.70	0.6/1 kV (45–100 Ω data)	−40…+80 °C
8×2×20 AWG + 4×12 AWG (or 12C)	5.40	0.6/1 kV (High-Power Hybrid)	−40…+80 °C

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

Standards and approvals

- UNOLS 0.322" CTD 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/a301592

Typical values for this cable type, based on UNOLS Standard 0.322" / 0.375" Double-Armored CTD Cable. Values for your order are confirmed in the quotation. Subject to change without notice. Jiangsu Tebaoflex Special Cable Co., Ltd., Taicang, Jiangsu, China.