subsea umbilical, ROV tether & oceanographic tow cable

EQ05670 .322N EM

EQ05670 .322N (8.18 mm) 12,200 lbs Double-Armoured CTD Electromechanic

UNOLS .322 EM Winch · 600 V · Subsea umbilical, rov tether & oceanographic tow cable

UNOLS .322 EM Winch | **600 V (-40 to +85 °C)** | **Double Contra-Helical Steel Armour**

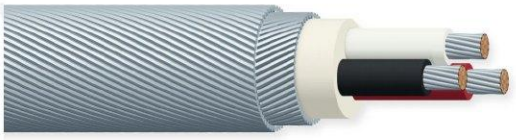


Application

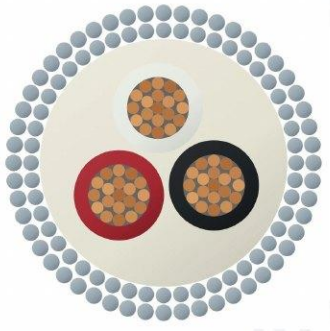
EQ05670 .322N (8.18 mm) 12,200 lbs Double-Armoured CTD Electromechanical Winch Cable featuring tinned copper conductors (3 cores) and double contra-helical steel armour (UNOLS .322 EM Winch, 600 V, -40 to +85 °C).

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



TEBAOFLEX EQ05670 .322N EM WINCH CABLE



Cross-section, not to scale

1. Tinned Copper Conductors (3 Cores)
2. Polyolefin Core Insulation
3. Double Contra-Helical Steel Armour

Technical data

Typical values

Rated voltage / transmission duty	600 V (Hydrographic .322N (8.18 mm) 3-Conductor Double-Armoured CTD Winch Specification)	**Core / conductor construction**	Tinned Copper Conductors (3 Cores) — Three stranded tinned copper conductors for CTD power & telemetry
Primary dielectric / buffering	Polyolefin Core Insulation — High-insulation-resistance polyolefin dielectric (Black, Red, White)	**Continuous operating temperature**	−40…+85 °C (subsea & offshore duty)
Hydrostatic & thermal stability	Verified thermal and hydrostatic stability per Hydrographic .322N (8.18 mm) 3-Conductor Double-Armoured CTD Winch Specification	**Storage & transport temperature**	−40…+80 °C on export wooden/steel winch reel
Outer protection / armouring	Double Contra-Helical Steel Armour — Torque-balanced galvanized steel wire armour rated 12,200 lbs MBL	**Minimum bending radius**	15 × OD
Armour, strength member & mechanical duty	Polyolefin Core Insulation — High-insulation-resistance polyolefin dielectric (Black, Red, White)	**Seawater, hydrostatic & hydrolysis resistance**	Engineered for continuous seawater immersion, pressure cycling and hydrolysis resistance per Hydrographic .322N (8.18 mm) 3-Conductor Double-Armoured CTD Winch Specification
Oil, drilling mud & abrasion resistance	Resistant to marine hydraulic oils, salt mist, winch sheave wear and seabed abrasion per Hydrographic .322N (8.18 mm) 3-Conductor Double-Armoured CTD Winch Specification	**RoHS & REACH compliance**	RoHS 2 (2011/65/EU + 2015/863) & REACH SVHC compliant
Standards	Hydrographic .322N (8.18 mm) 3-Conductor Double-Armoured CTD Winch 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
EQ05670 .322N EM Construction Schedule (−40…+85 °C) 3 sizes						
☐ EQ05670 .322N EM Type I	Standard oceanographic / offshore build	Stranded SnCu / Double Steel or UHMWPE	8.2	265	54.3	125
☐ EQ05670 .322N EM Type II	Medium-duty deepwater / offshore build	Stranded SnCu / Double Steel or UHMWPE	9.5	355	64.9	145
☐ EQ05670 .322N EM Type III	Heavy-duty deep-tow / offshore build	Stranded SnCu / Double Steel or UHMWPE	10.5	440	79.2	160

– Custom core cross-sections, pair/fibre counts, armour breaking loads and continuous winch/seabed lengths available per Hydrographic .322N (8.18 mm) 3-Conductor Double-Armoured CTD Winch Specification.

Electrical, optical & thermal parameters

3 sizes

Configuration	Max. DC R_{20} / Atten. Ω/km or dB/km	Rating / Impedance	Operating temp.
Standard oceanographic / offshore build	11.50	600 V (Std Duty)	−40…+85 °C
Medium-duty deepwater / offshore build	8.20	600 V (Med Duty)	−40…+85 °C
Heavy-duty deep-tow / offshore build	6.50	600 V (Heavy Duty)	−40…+85 °C

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

Standards and approvals

- UNOLS .322 EM Winch 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/eq05670-322n-em-winch-cable

Typical values for this cable type, based on Hydrographic .322N (8.18 mm) 3-Conductor Double-Armoured CTD Winch Specification. Values for your order are confirmed in the quotation. Subject to change without notice. Jiangsu Tebaoflex Special Cable Co., Ltd., Taicang, Jiangsu, China.