subsea ROV umbilical, AUV tether & sonar tow cable

Netsonde CB 1900 Coax Sonar

Netsonde CB 1900 Steel-Core Coax Trawl Sonar Cable

DNV Subsea / MIL-C-17 · 1,000 V · Subsea rov umbilical, auv tether & sonar tow cable



DNV Subsea / MIL-C-17 | 1,000 V (-40 to +80 °C) | Subsea / Marine Outer Protective She

Application

Netsonde CB 1900 Steel-Core Coax Trawl Sonar Cable featuring coaxial center conductor and subsea / marine outer protective sheath (DNV Subsea / MIL-C-17, 1,000 V, -40 to +80 °C, min. bend radius 10 × OD).

Typical uses: Work-Class & Observation ROV Umbilicals and TMS Tethers, Offshore Aquaculture Net Cleaners & Subsea Cage Inspection, AUV, Ocean Glider & Expendable Spool-Payoff Micro-Tethers, USV Towed Sonar Arrays, Seabed Crawlers & Subsea Trenchers

Construction





Cross-section, not to scale

1. Coaxial Center Conductor
2. Low-Loss Coaxial Dielectric & Braid Shie
3. Copper Wire Braid EMC Screen
4. Subsea / Marine Outer Protective Sheath

Technical data

Typical values

Rated voltage / operating system	1,000 V (DNV Subsea Netsonde CB 1900 Steel-Core Coax Trawl Sonar Specification)	**Core / conductor construction**	Coaxial Center Conductor — High-conductivity stranded copper (or steel-core on CB 1900) center conductor
Primary dielectric / optical buffer	Low-Loss Coaxial Dielectric & Braid Shield — High-density polyethylene (HDPE / PE) core insulation + braided copper outer conductor	**Continuous operating temperature**	−40…+80 °C (submerged seawater & topside deck service)
Hydrostatic & thermal cycling endurance	Verified cold-bend and wet dielectric stability across −40…+80 °C per DNV Subsea Netsonde CB 1900 Steel-Core Coax Trawl Sonar Specification	**Storage & transport temperature**	−40…+80 °C on export wooden/steel cable drum
Outer jacket / sheath protection	Subsea / Marine Outer Protective Sheath — Black high-density polyethylene (HDPE) waterproof outer sheath	**Minimum bending radius**	10 × OD
Reinforcement / screen / bedding layer	Copper Wire Braid EMC Screen — High-coverage braided copper shield for EMI/VFD protection	**Seawater, hydrolysis & oil resistance**	Resistant to permanent seawater immersion, hydrolysis, hydraulic oil and bio-fouling per DNV Subsea Netsonde CB 1900 Steel-Core Coax Trawl Sonar Specification
Hydrostatic pressure & water blocking	Radial and longitudinal water-blocking integrity verified per DNV Subsea Netsonde CB 1900 Steel-Core Coax Trawl Sonar Specification	**RoHS & REACH compliance**	RoHS 2 (2011/65/EU + 2015/863) & REACH SVHC compliant
Standards	DNV Subsea Netsonde CB 1900 Steel-Core Coax Trawl Sonar 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	Max. pulling kN ≈	Min. bend R mm
Netsonde CB 1900 Coax Sonar Construction Schedule (−40…+80 °C) 3 sizes						
☐ **Netsonde CB 1900 Coax Sonar RG59/75Ω + 4C**	1×75 Ω Coax + 4×0.75 mm² (18 AWG)	SnCu Center + Foam PE + TCWB + Subsea PUR	10.8	165	8.5	65
☐ **Netsonde CB 1900 Coax Sonar RG213/50Ω + 6C**	1×50/75 Ω Coax + 6×1.5 mm² + 1×TP	SnCu + Dual Braid Shield + Aramid/GSWA	14.4	340	22.0	90
☐ **Netsonde CB 1900 Coax Sonar 3×Coax + 6C**	3×75 Ω Video Coax + 6×1.5 mm² Power	Multi-Coax Bundle + Armour + Subsea Jacket	18.6	620	48.0	125

– Custom core counts, optical fiber channels, wet-mate terminations and continuous winch lengths available per DNV Subsea Netsonde CB 1900 Steel-Core Coax Trawl Sonar Specification.

Electrical, optical & thermal parameters

3 sizes

Configuration	Max. DC R_{20} Ω/km	Rating / Impedance / Load	Operating temp.
1×75 Ω Coax + 4×0.75 mm² (18 AWG)	26.00	1,000 V · 75 Ω ±3 Ω	−40…+80 °C
1×50/75 Ω Coax + 6×1.5 mm² + 1×TP	13.30	1,000 V · 50/75 Ω Sonar	−40…+80 °C
3×75 Ω Video Coax + 6×1.5 mm² Power	13.30	1,000 V · 3-Ch 75 Ω Coax	−40…+80 °C

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

Standards and approvals

- DNV Subsea / MIL-C-17 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/netsonde-cb-1900-steel-core-coax-trawl-sonar-cable

Typical values for this cable type, based on DNV Subsea Netsonde CB 1900 Steel-Core Coax Trawl Sonar Specification. Values for your order are confirmed in the quotation. Subject to change without notice. Jiangsu Tebaoflex Special Cable Co., Ltd., Taicang, Jiangsu, China.