NOAA 0.450" 40 Ω double-armored side-scan sonar coaxial tow cable

A302799

(NOAA 0.450") 1,900 V 40 Ω Double-Armored Sonar Tow Cable

NOAA 0.450" Sonar Tow · 1.8/3 kV · Noaa 0.450" 40 ω double-armored side-scan sonar

NOAA 0.450" Sonar Std | **1,900 VDC / 40 Ω (131 pF/m)** | **71.2 kN Double GIPS**



Application

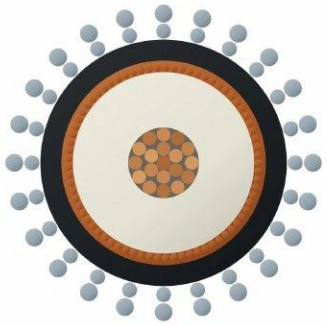
A302799 (0.450" 40-Ohm) HDPE-Insulated Double-Armored Side-Scan Sonar & Oceanographic Coaxial Tow Cable (NOAA 0.450" Sonar Tow, 1.8/3 kV, -40 to +80 °C, min. bend radius 12 × OD).

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. Center Conductor (14 AWG Bare Cu)
2. 40 Ω HDPE Coaxial Dielectric
3. Served Cu Return & Cu/PET Tape
4. HDPE Inner Belt Jacket (Ø 7.29 mm)
5. Double GIPS Steel Armor (24 + 24 Wires)

Technical data

Typical values

Rated voltage / transmission duty	1.8/3 kV (NOAA Standard 0.450" (11.43 mm) 40 Ω Side-Scan Sonar Tow)	**Core / conductor construction**	Center Conductor (14 AWG Bare Cu) — Stranded bare copper center conductor (Ø 1.73 mm, DCR 9.8 Ω/km)
Primary dielectric / buffering	40 Ω HDPE Coaxial Dielectric — Solid high-density polyethylene insulation (Ø 4.52 mm, 1,900 VDC, 131 pF/m)	**Continuous operating temperature**	−40…+80 °C (subsea, marine & submersible duty)
Short-circuit / peak thermal rating	Verified thermal stability per NOAA Standard 0.450" (11.43 mm) 40 Ω Side-Scan Sonar Tow	**Storage & transport temperature**	−40…+80 °C on export wooden/steel drum
Outer protection / armouring	Double GIPS Steel Armor (24 + 24 Wires) — Inner 24×0.95 mm + outer 24×1.22 mm contra-helical GIPS wires (71.2 kN MBL)	**Minimum bending radius**	12 × OD
Hydrostatic, tensile & crush duty	HDPE Inner Belt Jacket (Ø 7.29 mm) — Extruded high-density polyethylene barrier protecting return conductor	**Hydrostatic pressure & water blocking**	Engineered for continuous submersion and hydrostatic integrity per NOAA Standard 0.450" (11.43 mm) 40 Ω Side-Scan Sonar Tow
Seawater, oil & chemical resistance	Resistant to seawater hydrolysis, hydraulic oils and abrasion per NOAA Standard 0.450" (11.43 mm) 40 Ω Side-Scan Sonar Tow	**RoHS & REACH compliance**	RoHS 2 (2011/65/EU + 2015/863) & REACH SVHC compliant
Standards	NOAA Standard 0.450" (11.43 mm) 40 Ω Side-Scan Sonar Tow		

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
A302799 Construction Schedule (−40…+80 °C) 3 sizes						
☐ A302799 Config A (Compact)	4×2×24 AWG + 2×18 AWG (or 4C)	Stranded tinned Cu (IEC 60228 / ASTM)	10.4	155	4.5	85
☐ A302799 Config B (Standard)	4×2×20 AWG + 4×16 AWG (or 8C)	Stranded tinned Cu (IEC 60228 / ASTM)	13.3	265	9.6	110
☐ A302799 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 NOAA Standard 0.450" (11.43 mm) 40 Ω Side-Scan Sonar Tow.

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	1.8/3 kV (45–100 Ω data)	−40…+80 °C
4×2×20 AWG + 4×16 AWG (or 8C)	10.70	1.8/3 kV (45–100 Ω data)	−40…+80 °C
8×2×20 AWG + 4×12 AWG (or 12C)	5.40	1.8/3 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

- NOAA 0.450" Sonar Tow 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/a302799

Typical values for this cable type, based on NOAA Standard 0.450" (11.43 mm) 40 Ω Side-Scan Sonar Tow. Values for your order are confirmed in the quotation. Subject to change without notice. Jiangsu Tebaoflex Special Cable Co., Ltd., Taicang, Jiangsu, China.