28-pair 40 Ω individually shielded dynamic ship sonar cable

REF 57942 (MULTIPAIRES SONAR)

REF 57942 (Multipaires Sonar) 600 V 28×2×0.34mm² (40 Ω) Sonar Cable

40 Ω Naval Sonar · 600 V · 28-pair 40 ω individually shielded dynamic ship sonar cable



40 ± 5 Ω (≤180 pF/m) | **28×2×0.34 mm² Spun-Shield** | **Dynamic Ship Sonar PUR**

Application

REF 57942 (Multipaires Sonar) 600 V 28×2×0.34 mm² (40-Ohm) Individually Spun-Copper-Shielded & Jacketed Pairs with Overall Copper Braid PUR Ship Sonar Dynamic Cable (40 Ω Naval Sonar, 600 V, -30 to +70 °C, min. bend radius 10 × OD).

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

Construction





Cross-section, not to scale

1. 40 Ω Sonar Twisted Pairs (28×2×0.34 mm²)
2. Individual Spun-Copper Shield & Jacket
3. Concentric 28-Pair Lay-Up (4 + 10 + 14)
4. Overall Tinned Copper Braid Shield
5. Dynamic Polyurethane Sheath (Ø25 ± 1 mm)

Technical data

Typical values

Rated voltage / transmission duty	600 V (Naval 40 ± 5 Ω Controlled-Impedance Dynamic Sonar Standard)	**Core / conductor construction**	40 Ω Sonar Twisted Pairs (28×2×0.34 mm²) — Extra-flexible tinned copper + 600 V polyester elastomer (40±5 Ω, ≤180 pF/m)
Primary dielectric / buffering	Individual Spun-Copper Shield & Jacket — Each of the 28 pairs has a tinned copper spun shield and polyester elastomer sheath	**Continuous operating temperature**	−30…+70 °C (subsea, marine & submersible duty)
Short-circuit / peak thermal rating	Verified thermal stability per Naval 40 ± 5 Ω Controlled-Impedance Dynamic Sonar Standard	**Storage & transport temperature**	−40…+80 °C on export wooden/steel drum
Outer protection / armouring	Dynamic Polyurethane Sheath (Ø25 ± 1 mm) — Black extra-flexible polyurethane (PUR) outer jacket (–30 °C to +70 °C, 740 g/m)	**Minimum bending radius**	10 × OD
Hydrostatic, tensile & crush duty	Overall Tinned Copper Braid Shield — High-coverage overall tinned copper wire braid for sonar receiver EMC isolation	**Hydrostatic pressure & water blocking**	Engineered for continuous submersion and hydrostatic integrity per Naval 40 ± 5 Ω Controlled-Impedance Dynamic Sonar Standard
Seawater, oil & chemical resistance	Resistant to seawater hydrolysis, hydraulic oils and abrasion per Naval 40 ± 5 Ω Controlled-Impedance Dynamic Sonar Standard	**RoHS & REACH compliance**	RoHS 2 (2011/65/EU + 2015/863) & REACH SVHC compliant
Standards	Naval 40 ± 5 Ω Controlled-Impedance Dynamic Sonar Standard		

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
REF 57942 (MULTIPAIRES SONAR) Construction Schedule (−30…+70 °C) 3 sizes						
☐ **REF 57942 Config A (Compact)**	4×2×24 AWG + 2×18 AWG (or 4C)	Stranded tinned Cu (IEC 60228 / ASTM)	10.4	155	4.5	85
☐ **REF 57942 Config B (Standard)**	4×2×20 AWG + 4×16 AWG (or 8C)	Stranded tinned Cu (IEC 60228 / ASTM)	13.3	265	9.6	110
☐ **REF 57942 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 Naval 40 ± 5 Ω Controlled-Impedance Dynamic Sonar Standard.

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	600 V (45–100 Ω data)	−30…+70 °C
4×2×20 AWG + 4×16 AWG (or 8C)	10.70	600 V (45–100 Ω data)	−30…+70 °C
8×2×20 AWG + 4×12 AWG (or 12C)	5.40	600 V (High-Power Hybrid)	−30…+70 °C

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

Standards and approvals

- ✓ 40 Ω Naval Sonar 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/ref-57942-multipaires-sonar

Typical values for this cable type, based on Naval 40 ± 5 Ω Controlled-Impedance Dynamic Sonar Standard. Values for your order are confirmed in the quotation. Subject to change without notice. Jiangsu Tebaoflex Special Cable Co., Ltd., Taicang, Jiangsu, China.