High-modulus aramid subsea mooring & anti-biofouling cable

REF 22399 & REF 57912 (MOORING & ANTIFOULING)

REF 22399 & REF 57912 (3–35t) Aramid Mooring & Anti-Fouling Cable

Subsea Non-Magnetic · 300/500 V · High-modulus aramid subsea mooring & anti-biofouling



3,000 daN & 35,000 daN | **Non-Magnetic Aramid Core** | **50% Anti-Fouling Cu Braid**

Application

REF 22399 (3-Ton High-Modulus Aramid PUR Cable with 50% Anti-Fouling Copper Outer Braid) & REF 57912 (35-Ton Anti-Giratory Double-HDPE Aramid Instrumentation Basket Cable) (Subsea Non-Magnetic, 300/500 V, -20 to +70 °C).

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

Construction



REF 22399 & REF 57912 (MOORING & ANTIFOULING) TEBAOFLEX.COM



Cross-section, not to scale

1. High-Modulus Aramid Core (3,000 / 35,000 daN)
2. Polyurethane / Double-HDPE Sheathing
3. 50% Anti-Fouling Bare Copper Outer Braid

Technical data

Typical values

Rated voltage / transmission duty	300/500 V (Subsea Non-Magnetic Aramid Mooring & Biofouling Standard)	**Core / conductor construction**	High-Modulus Aramid Core (3,000 / 35,000 daN) — Low-stretch (≤2.3–2.4% at break) non-magnetic aramid core rated 3 t (22399) / 35 t (57912)
Primary dielectric / buffering	Polyurethane / Double-HDPE Sheathing — Extruded PUR sheath (REF 22399) or inner HDPE + anti-torsion aramid + outer HDPE (57912)	**Continuous operating temperature**	−20…+70 °C (subsea, marine & submersible duty)
Short-circuit / peak thermal rating	Verified thermal stability per Subsea Non-Magnetic Aramid Mooring & Biofouling Standard	**Storage & transport temperature**	−40…+80 °C on export wooden/steel drum
Outer protection / armouring	50% Anti-Fouling Bare Copper Outer Braid — Exterior plain copper wire braid on REF 22399 inhibiting barnacle & marine growth (Ø 8.9 mm)	**Minimum bending radius**	12 × OD
Hydrostatic, tensile & crush duty	Polyurethane / Double-HDPE Sheathing — Extruded PUR sheath (REF 22399) or inner HDPE + anti-torsion aramid + outer HDPE (57912)	**Hydrostatic pressure & water blocking**	Engineered for continuous submersion and hydrostatic integrity per Subsea Non-Magnetic Aramid Mooring & Biofouling Standard
Seawater, oil & chemical resistance	Resistant to seawater hydrolysis, hydraulic oils and abrasion per Subsea Non-Magnetic Aramid Mooring & Biofouling Standard	**RoHS & REACH compliance**	RoHS 2 (2011/65/EU + 2015/863) & REACH SVHC compliant
Standards	Subsea Non-Magnetic Aramid Mooring & Biofouling 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 22399 & REF 57912 (MOORING & ANTIFOULING) Construction Schedule (−20…+70 °C) 3 sizes						
☐ **REF 22399 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 22399 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 22399 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 Subsea Non-Magnetic Aramid Mooring & Biofouling 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	300/500 V (45–100 Ω data)	−20…+70 °C
4×2×20 AWG + 4×16 AWG (or 8C)	10.70	300/500 V (45–100 Ω data)	−20…+70 °C
8×2×20 AWG + 4×12 AWG (or 12C)	5.40	300/500 V (High-Power Hybrid)	−20…+70 °C

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

Standards and approvals

- ✓ Subsea Non-Magnetic 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-22399-ref-57912-mooring-antifouling

Typical values for this cable type, based on Subsea Non-Magnetic Aramid Mooring & Biofouling Standard. Values for your order are confirmed in the quotation. Subject to change without notice. Jiangsu Tebaoflex Special Cable Co., Ltd., Taicang, Jiangsu, China.