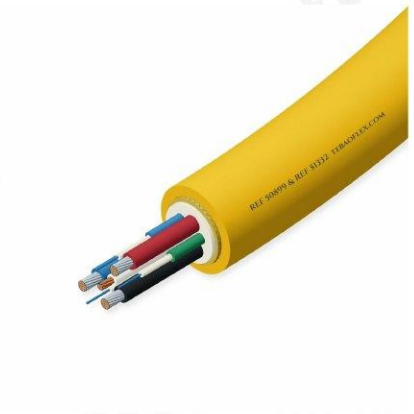
Floating low-density electro-optical EOD & MCM ROV tether

REF 50899 & REF 51332

2,400 V / 1,500 V Floating EOD/MCM ROV Tether

Subsea EOD / MCM ROV · 1.8/3 kV · Floating low-density electro-optical eod & mcm rov



2,400 V & 1,500 V HV | **d = 0.92–0.98 Floating** | **Non-Magnetic EOD/MCM**

Application

REF 50899 & REF 51332 2,400 V / 1,500 V Special-Polyolefin Electro-Optical Fibre-Braided Low-Density Floating (d=0.92–0.98) EOD & MCM ROV Tether Cable (Subsea EOD / MCM ROV, 1.8/3 kV, -25 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. HV Power Conductors (3×0.93 / 3×0.6 mm²)
2. Signal Cores / Pairs
3. Optical Fibres (3×SMF / 2×MMF)
4. Polyolefin Inner Sheath & Fibre Braid
5. Floating Low-Density Polyolefin Jacket

Technical data

Typical values

Rated voltage / transmission duty	1.8/3 kV (MIL-STD / Non-Magnetic Floating EOD & Mine-Clearance ROV)	**Core / conductor construction**	HV Power Conductors (3×0.93 / 3×0.6 mm²) — 2,400 V tinned copper (REF 50899) or 1,500 V special alloy (REF 51332) in polyolefin
Primary dielectric / buffering	Signal Cores / Pairs — 1×0.22 mm² plain copper (REF 50899) or 2×(2×0.34 mm²) sheathed alloy pairs (REF 51332)	**Continuous operating temperature**	−25…+70 °C (subsea, marine & submersible duty)
Short-circuit / peak thermal rating	Verified thermal stability per MIL-STD / Non-Magnetic Floating EOD & Mine-Clearance ROV	**Storage & transport temperature**	−40…+80 °C on export wooden/steel drum
Outer protection / armouring	Floating Low-Density Polyolefin Jacket — Yellow low-density polyolefin outer sheath (seawater density 0.98 / 0.92, Ø 14–15 mm)	**Minimum bending radius**	10 × OD
Hydrostatic, tensile & crush duty	Polyolefin Inner Sheath & Fibre Braid — Special polyolefin inner sheath + synthetic fibre braid (2,300 daN / 1,000 daN break)	**Hydrostatic pressure & water blocking**	Engineered for continuous submersion and hydrostatic integrity per MIL-STD / Non-Magnetic Floating EOD & Mine-Clearance ROV
Seawater, oil & chemical resistance	Resistant to seawater hydrolysis, hydraulic oils and abrasion per MIL-STD / Non-Magnetic Floating EOD & Mine-Clearance ROV	**RoHS & REACH compliance**	RoHS 2 (2011/65/EU + 2015/863) & REACH SVHC compliant
Standards	MIL-STD / Non-Magnetic Floating EOD & Mine-Clearance ROV		

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 50899 & REF 51332 Construction Schedule (−25…+70 °C) 3 sizes						
☐ **REF 50899 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 50899 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 50899 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 MIL-STD / Non-Magnetic Floating EOD & Mine-Clearance ROV.

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)	−25…+70 °C
4×2×20 AWG + 4×16 AWG (or 8C)	10.70	1.8/3 kV (45–100 Ω data)	−25…+70 °C
8×2×20 AWG + 4×12 AWG (or 12C)	5.40	1.8/3 kV (High-Power Hybrid)	−25…+70 °C

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

Standards and approvals

- Subsea EOD / MCM ROV 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-50899-ref-51332

Typical values for this cable type, based on MIL-STD / Non-Magnetic Floating EOD & Mine-Clearance ROV. Values for your order are confirmed in the quotation. Subject to change without notice. Jiangsu Tebaoflex Special Cable Co., Ltd., Taicang, Jiangsu, China.