Hermetic LCP & stainless-steel micro-armoured AUV optical cable

SPE-7329 SUBSEA STFOC

SPE-7329 Subsea STFOC Stainless-Steel Micro-Armoured AUV Tether

ITU-T G.657 / Micro-SWA · 300/500 V · Hermetic lcp & stainless-steel micro-armoured



Fishbite-Proof SS Armour | **Hermetic LCP Core** | **Ø2.4 mm Micro-Tether**

Application

Crush-Proof Subsea STFOC (SPE-7034 / 7043 / 7090 / 7273 / 7329) Hermetic LCP-Jacketed & Stainless-Steel Micro-Armoured AUV Guidance Optical Cable (ITU-T G.657 / Micro-SWA, 300/500 V, -40 to +80 °C, min. bend radius 8 × 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. Hermetic Single-Mode Fiber
2. Dual Crush-Proof LCP Core (A-21 + B-24)
3. Stainless-Steel Micro-Armor (Code W-48)
4. Polyurethane Outer Jacket (Code Q-95)

Technical data

Typical values

Rated voltage / transmission duty	300/500 V (ITU-T G.657 / US Pat. 8,842,956 Micro-Armoured STFOC)	**Core / conductor construction**	Hermetic Single-Mode Fiber — Hermetically coated bend-insensitive SM fiber (≤0.45/0.35 dB/km @ 1310/1550 nm)
Primary dielectric / buffering	Dual Crush-Proof LCP Core (A-21 + B-24) — Primary extruded LCP crush-proof buffer + secondary hockle-preventing jacket	**Continuous operating temperature**	−40…+80 °C (subsea, marine & submersible duty)
Short-circuit / peak thermal rating	Verified thermal stability per ITU-T G.657 / US Pat. 8,842,956 Micro-Armoured STFOC	**Storage & transport temperature**	−40…+80 °C on export wooden/steel drum
Outer protection / armouring	Polyurethane Outer Jacket (Code Q-95) — Tough abrasion- and cut-resistant polyurethane outer sheath (Ø 2.4 mm)	**Minimum bending radius**	8 × OD
Hydrostatic, tensile & crush duty	Stainless-Steel Micro-Armor (Code W-48) — Helically served high-tensile stainless-steel wires (300 lbs break, fishbite proof)	**Hydrostatic pressure & water blocking**	Engineered for continuous submersion and hydrostatic integrity per ITU-T G.657 / US Pat. 8,842,956 Micro-Armoured STFOC
Seawater, oil & chemical resistance	Resistant to seawater hydrolysis, hydraulic oils and abrasion per ITU-T G.657 / US Pat. 8,842,956 Micro-Armoured STFOC	**RoHS & REACH compliance**	RoHS 2 (2011/65/EU + 2015/863) & REACH SVHC compliant
Standards	ITU-T G.657 / US Pat. 8,842,956 Micro-Armoured STFOC		

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
SPE-7329 SUBSEA STFOC Construction Schedule (−40…+80 °C) 3 sizes						
☐ **SPE-7329 SUBSEA STFOC 4F Single-Mode OS2**	4 × G.652.D / G.657.A2 SM (200 kpsi)	Hermetic / gel-filled optical core	3.5	18	3.4	35
☐ **SPE-7329 SUBSEA STFOC 12F Single-Mode OS2**	12 × G.652.D / G.657.A2 SM (200 kpsi)	Hermetic / gel-filled optical core	9.8	145	18.0	98
☐ **SPE-7329 SUBSEA STFOC 24F Armoured Subsea**	24 × G.652.D SM + Strength Armour	Subsea pressure-resistant optical unit	17.0	580	95.0	255

– Custom core cross-sections, pair/fibre counts, armour grades and factory drum lengths available per ITU-T G.657 / US Pat. 8,842,956 Micro-Armoured STFOC.

Electrical, optical & thermal parameters

3 sizes

Configuration	Max. DC R_{20} / Atten. Ω/km or dB/km	Rating / Impedance	Operating temp.
4 × G.652.D / G.657.A2 SM (200 kpsi)	0.35	≤0.35 dB/km @ 1310 nm	−40…+80 °C
12 × G.652.D / G.657.A2 SM (200 kpsi)	0.22	≤0.22 dB/km @ 1550 nm	−40…+80 °C
24 × G.652.D SM + Strength Armour	0.20	≤0.20 dB/km @ 1550 nm	−40…+80 °C

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

Standards and approvals

- ITU-T G.657 / Micro-SWA 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/spe-7329-subsea-stfoc

Typical values for this cable type, based on ITU-T G.657 / US Pat. 8,842,956 Micro-Armoured STFOC. Values for your order are confirmed in the quotation. Subject to change without notice. Jiangsu Tebaoflex Special Cable Co., Ltd., Taicang, Jiangsu, China.