subsea ROV umbilical, AUV tether & sonar tow cable

26XM563 Synthetic ROV Umbilical

26XM563 Synthetic Armoured ROV Umbilical

DNV-ST-E402 / IEC 60794 · 1.8/3 kV · Subsea rov umbilical, auv tether & sonar tow cable



DNV-ST-E402 / IEC 60794 | 1.8/3 kV (-40 to +80 °C) | Subsea / Marine Outer Protective She

Application

26XM563 Synthetic Armoured ROV Umbilical featuring single-mode / multi-mode optical unit and subsea / marine outer protective sheath (DNV-ST-E402 / IEC 60794, 1.8/3 kV, -40 to +80 °C, min. bend radius 8 × OD).

Typical uses: Work-Class & Observation ROV Umbilicals and TMS Tethers, Offshore Aquaculture Net Cleaners & Subsea Cage Inspection, AUV, Ocean Glider & Expendable Spool-Payoff Micro-Tethers, USV Towed Sonar Arrays, Seabed Crawlers & Subsea Trenchers

Construction





Cross-section, not to scale

1. Single-Mode / Multi-Mode Optical Unit
2. Power & Control Copper Conductors
3. Aramid / LCP Braided Strength Member
4. Subsea / Marine Outer Protective Sheath

Technical data

Typical values

Rated voltage / operating system	1.8/3 kV (DNV-ST-E402 26XM563 Synthetic-Armoured Deepwater ROV Umbilical Standard)	**Core / conductor construction**	Single-Mode / Multi-Mode Optical Unit — Hermetic stainless-steel tube / tight-buffered optical unit
Primary dielectric / optical buffer	Power & Control Copper Conductors — Stranded copper conductors with Cross-linked polyethylene (XLPE) insulation	**Continuous operating temperature**	−40…+80 °C (submerged seawater & topside deck service)
Hydrostatic & thermal cycling endurance	Verified cold-bend and wet dielectric stability across −40…+80 °C per DNV-ST-E402 26XM563 Synthetic-Armoured Deepwater ROV Umbilical Standard	**Storage & transport temperature**	−40…+80 °C on export wooden/steel cable drum
Outer jacket / sheath protection	Subsea / Marine Outer Protective Sheath — Red hydrolysis- & abrasion-resistant marine Polyurethane (PUR) outer sheath	**Minimum bending radius**	8 × OD
Reinforcement / screen / bedding layer	Aramid / LCP Braided Strength Member — High-tenacity synthetic fiber braid absorbing dynamic tension	**Seawater, hydrolysis & oil resistance**	Resistant to permanent seawater immersion, hydrolysis, hydraulic oil and bio-fouling per DNV-ST-E402 26XM563 Synthetic-Armoured Deepwater ROV Umbilical Standard
Hydrostatic pressure & water blocking	Radial and longitudinal water-blocking integrity verified per DNV-ST-E402 26XM563 Synthetic-Armoured Deepwater ROV Umbilical Standard	**RoHS & REACH compliance**	RoHS 2 (2011/65/EU + 2015/863) & REACH SVHC compliant
Standards	DNV-ST-E402 26XM563 Synthetic-Armoured Deepwater ROV Umbilical 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	Max. pulling kN ≈	Min. bend R mm
26XM563 Synthetic ROV Umbilical Construction Schedule (−40…+80 °C) 3 sizes						
☐ 26XM563 Synthetic ROV Umbilical Hybrid 4G2.5+FO	4G2.5 mm² Power + 4×SM + 2×2×0.5	Class 5 SnCu + Aramid Braid + Subsea PUR	14.6	285	18.0	90
☐ 26XM563 Synthetic ROV Umbilical Hybrid 4G6+FO	4G6.0 mm² Power + 4×SM/MM + 4×2×0.5	Class 5 SnCu + Aramid Braid + Subsea PUR	19.2	540	32.0	120
☐ 26XM563 Synthetic ROV Umbilical Hybrid 4G16+FO	4G16 mm² Power + 8×SM/MM + 4×2×0.75	Class 5 SnCu + Heavy Aramid + Subsea PUR	26.5	1,120	55.0	165

– Custom core counts, optical fiber channels, wet-mate terminations and continuous winch lengths available per DNV-ST-E402 26XM563 Synthetic-Armoured Deepwater ROV Umbilical Standard.

Electrical, optical & thermal parameters

3 sizes

Configuration	Max. DC R_{20} Ω/km	Rating / Impedance / Load	Operating temp.
4G2.5 mm² Power + 4×SM + 2×2×0.5	7.98	1.8/3 kV · 18 kN Tensile	−40…+80 °C
4G6.0 mm² Power + 4×SM/MM + 4×2×0.5	3.30	1.8/3 kV · 32 kN Tensile	−40…+80 °C
4G16 mm² Power + 8×SM/MM + 4×2×0.75	1.21	1.8/3 kV · 55 kN Tensile	−40…+80 °C

– Every production length undergoes routine conductor DC resistance / OTDR optical attenuation, AC dielectric and dimensional verification.

Standards and approvals

- DNV-ST-E402 / IEC 60794 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/26xm563-synthetic-armoured-rov-umbilical

Typical values for this cable type, based on DNV-ST-E402 26XM563 Synthetic-Armoured Deepwater ROV Umbilical Standard. Values for your order are confirmed in the quotation. Subject to change without notice. Jiangsu Tebaoflex Special Cable Co., Ltd., Taicang, Jiangsu, China.