subsea ROV umbilical, AUV tether & sonar tow cable

Subsea Stock Camera/Instrument Cable

Subsea Stock Subsea Camera & Instrumentation Cable

DNV-ST-E402 / IEC 60092 · 600 V · Subsea rov umbilical, auv tether & sonar tow cable



DNV-ST-E402 / IEC 60092 | 600 V (-40 to +80 °C) | Subsea / Marine Outer Protective She

Application

Subsea Stock Subsea Camera & Instrumentation Cable featuring optical fiber & 75-ohm coaxial units and subsea / marine outer protective sheath (DNV-ST-E402 / IEC 60092, 600 V, -40 to +80 °C, min. bend radius 6 × 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. Optical Fiber & 75-Ohm Coaxial Units
2. Flexible Copper Power & Control Cores
3. Subsea / Marine Outer Protective Sheath

Technical data

Typical values

Rated voltage / operating system	600 V (DNV-ST-E402 Subsea Camera & Instrumentation Polyurethane Cable Standard)	**Core / conductor construction**	Optical Fiber & 75-Ohm Coaxial Units — Central stainless-steel optical tube + shielded coaxial video core
Primary dielectric / optical buffer	Flexible Copper Power & Control Cores — 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 Subsea Camera & Instrumentation Polyurethane Cable Standard	**Storage & transport temperature**	−40…+80 °C on export wooden/steel cable drum
Outer jacket / sheath protection	Subsea / Marine Outer Protective Sheath — Yellow hydrolysis- & abrasion-resistant marine Polyurethane (PUR) outer sheath	**Minimum bending radius**	6 × OD
Reinforcement / screen / bedding layer	Flexible Copper Power & Control Cores — Stranded copper conductors with Cross-linked polyethylene (XLPE) insulation	**Seawater, hydrolysis & oil resistance**	Resistant to permanent seawater immersion, hydrolysis, hydraulic oil and bio-fouling per DNV-ST-E402 Subsea Camera & Instrumentation Polyurethane Cable Standard
Hydrostatic pressure & water blocking	Radial and longitudinal water-blocking integrity verified per DNV-ST-E402 Subsea Camera & Instrumentation Polyurethane Cable Standard	**RoHS & REACH compliance**	RoHS 2 (2011/65/EU + 2015/863) & REACH SVHC compliant
Standards	DNV-ST-E402 Subsea Camera & Instrumentation Polyurethane Cable 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
Subsea Stock Camera/Instrument Cable Construction Schedule (−40…+80 °C) 3 sizes						
☐ **Subsea Stock Camera 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**
☐ **Subsea Stock Camera 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**
☐ **Subsea Stock Camera 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 Subsea Camera & Instrumentation Polyurethane Cable 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**	**600 V · 18 kN Tensile**	**−40…+80 °C**
4G6.0 mm² Power + 4×SM/MM + 4×2×0.5	**3.30**	**600 V · 32 kN Tensile**	**−40…+80 °C**
4G16 mm² Power + 8×SM/MM + 4×2×0.75	**1.21**	**600 V · 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 60092 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/stock-subsea-camera-instrumentation-cable

Typical values for this cable type, based on DNV-ST-E402 Subsea Camera & Instrumentation Polyurethane Cable Standard. Values for your order are confirmed in the quotation. Subject to change without notice. Jiangsu Tebaoflex Special Cable Co., Ltd., Taicang, Jiangsu, China.