Subsea Gigabit Ethernet & multicore power/control cable

26XM520 & 24XM521

300/600 V Subsea Cat.6/Cat.5 LAN Hybrid Cable

TIA-568 / IEC 61156 · 600 V · Subsea gigabit ethernet & multicore power/control cable



Cat.6 / Cat.5 F/UTP | 300/600 V + 16/18 Cores | Water-Blocked PUR

Application

26XM520 & 24XM521 Cat.6 / Cat.5 F/UTP Ethernet & 16/18-Core Power/Control Water-Blocked PUR Underwater LAN Hybrid Cable (TIA-568 / IEC 61156, 600 V, -30 to +80 °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. Cat.6 / Cat.5 F/UTP LAN Core
2. Power & Control Cores (18×22 / 16×24 AWG)
3. SIWB / SWWB Water-Blocking
4. Braided Strength Member (480 / 320 kg)
5. Polyurethane Outer Sheath (Ø14.2 / 11.1 mm)

Technical data

Typical values

Rated voltage / transmission duty	600 V (ANSI/TIA-568-C.2 / IEC 61156-6 Subsea LAN Standard)	**Core / conductor construction**	Cat.6 / Cat.5 F/UTP LAN Core — 4×2×24/7 AWG Cat.6 F/UTP (26XM520) or 4×2×26/7 AWG Cat.5 F/UTP (24XM521) data core
Primary dielectric / buffering	Power & Control Cores (18×22 / 16×24 AWG) — 18×22 AWG (26XM520) or 16×24 AWG (24XM521) stranded tinned copper conductors	**Continuous operating temperature**	−30…+80 °C (subsea, marine & submersible duty)
Short-circuit / peak thermal rating	Verified thermal stability per ANSI/TIA-568-C.2 / IEC 61156-6 Subsea LAN Standard	**Storage & transport temperature**	−40…+80 °C on export wooden/steel drum
Outer protection / armouring	Polyurethane Outer Sheath (Ø14.2 / 11.1 mm) — Black hydrolysis-resistant subsea polyurethane (PUR) outer jacket	**Minimum bending radius**	10 × OD
Hydrostatic, tensile & crush duty	Braided Strength Member (480 / 320 kg) — High-tenacity aramid fiber braid supporting dynamic ROV & sonar deployment	**Hydrostatic pressure & water blocking**	Engineered for continuous submersion and hydrostatic integrity per ANSI/TIA-568-C.2 / IEC 61156-6 Subsea LAN Standard
Seawater, oil & chemical resistance	Resistant to seawater hydrolysis, hydraulic oils and abrasion per ANSI/TIA-568-C.2 / IEC 61156-6 Subsea LAN Standard	**RoHS & REACH compliance**	RoHS 2 (2011/65/EU + 2015/863) & REACH SVHC compliant
Standards	ANSI/TIA-568-C.2 / IEC 61156-6 Subsea LAN 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
26XM520 & 24XM521 Construction Schedule (−30…+80 °C) 3 sizes						
☐ **26XM520 Config A (Compact)**	4×2×24 AWG + 2×18 AWG (or 4C)	Stranded tinned Cu (IEC 60228 / ASTM)	10.4	155	4.5	85
☐ **26XM520 Config B (Standard)**	4×2×20 AWG + 4×16 AWG (or 8C)	Stranded tinned Cu (IEC 60228 / ASTM)	13.3	265	9.6	110
☐ **26XM520 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 ANSI/TIA-568-C.2 / IEC 61156-6 Subsea LAN 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	600 V (45–100 Ω data)	−30…+80 °C
4×2×20 AWG + 4×16 AWG (or 8C)	10.70	600 V (45–100 Ω data)	−30…+80 °C
8×2×20 AWG + 4×12 AWG (or 12C)	5.40	600 V (High-Power Hybrid)	−30…+80 °C

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

Standards and approvals

- TIA-568 / IEC 61156 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/26xm520-24xm521

Typical values for this cable type, based on ANSI/TIA-568-C.2 / IEC 61156-6 Subsea LAN Standard. Values for your order are confirmed in the quotation. Subject to change without notice. Jiangsu Tebaoflex Special Cable Co., Ltd., Taicang, Jiangsu, China.