6,000 m deepwater Gigabit Ethernet & power wet-mate PUR cable

D/P-P4TP24#/4C18#-A

6,000m Deepwater Gigabit & Power Wet-Mate Cable

6,000m Gigabit Wet-Mate · 600 V · 6,000 m deepwater gigabit ethernet & power wet-mate



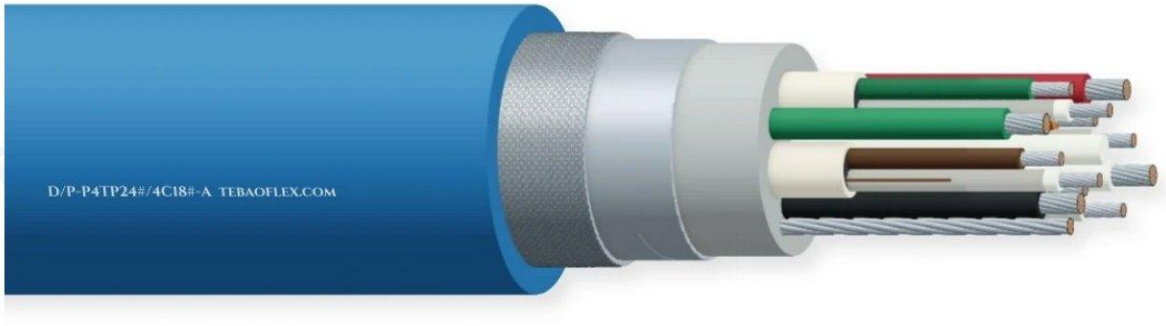
6,000 m (8,700 psi) | **100±15 Ω Gigabit + 600 V** | **95A Wet-Mateable PUR**

Application

Wet-Mate Deepwater 6,000m Gigabit Ethernet & Power/Data Hybrid Underwater PUR Cable Family (D/P4TP24#-A, D/P-P4TP24#/4C18#-A, D/P4TP22#/4C18#OS, D/P4TP24#SW) (6,000m Gigabit Wet-Mate, 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. TPE Belt-to-Round Gigabit Pairs (4×2×24 AWG)
2. Power Conductors (4×18 AWG, 600 V / 4 A)
3. Nylon Center Rod & Waterblocking Fill
4. Foil + Tinned Copper Braid Screen
5. Dark Blue 95A PUR Outer Jacket (Ø13.3 mm)

Technical data

Typical values

Rated voltage / transmission duty	600 V (ISO/IEC 11801 / 6,000 m (8,700 psi) Wet-Mate Gigabit Hybrid)	**Core / conductor construction**	TPE Belt-to-Round Gigabit Pairs (4×2×24 AWG) — Silver-plated Cu + PTFE insulation + individual TPE round belt (100±15 Ω @ 6,000 m)
Primary dielectric / buffering	Power Conductors (4×18 AWG, 600 V / 4 A) — Stranded tinned copper with Black, White, Red & Green ETFE insulation	**Continuous operating temperature**	−30…+80 °C (subsea, marine & submersible duty)
Short-circuit / peak thermal rating	Verified thermal stability per ISO/IEC 11801 / 6,000 m (8,700 psi) Wet-Mate Gigabit Hybrid	**Storage & transport temperature**	−40…+80 °C on export wooden/steel drum
Outer protection / armouring	Dark Blue 95A PUR Outer Jacket (Ø13.3 mm) — High-durometer (95 Shore A) dark-blue halogen-free polyurethane sheath	**Minimum bending radius**	10 × OD
Hydrostatic, tensile & crush duty	Foil + Tinned Copper Braid Screen — 100% Aluminium/Polyester tape + 24 AWG drain wire + ≥85% tinned copper braid	**Hydrostatic pressure & water blocking**	Engineered for continuous submersion and hydrostatic integrity per ISO/IEC 11801 / 6,000 m (8,700 psi) Wet-Mate Gigabit Hybrid
Seawater, oil & chemical resistance	Resistant to seawater hydrolysis, hydraulic oils and abrasion per ISO/IEC 11801 / 6,000 m (8,700 psi) Wet-Mate Gigabit Hybrid	**RoHS & REACH compliance**	RoHS 2 (2011/65/EU + 2015/863) & REACH SVHC compliant
Standards	ISO/IEC 11801 / 6,000 m (8,700 psi) Wet-Mate Gigabit Hybrid		

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
D/P-P4TP24#/4C18#-A Construction Schedule (−30…+80 °C) 3 sizes							
☐	D/P-P4TP24#/4C18#- Config A (Compact)	4×2×24 AWG + 2×18 AWG (or 4C)	Stranded tinned Cu (IEC 60228 / ASTM)	10.4	155	4.5	85
☐	D/P-P4TP24#/4C18#- Config B (Standard)	4×2×20 AWG + 4×16 AWG (or 8C)	Stranded tinned Cu (IEC 60228 / ASTM)	13.3	265	9.6	110
☐	D/P-P4TP24#/4C18#- 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 ISO/IEC 11801 / 6,000 m (8,700 psi) Wet-Mate Gigabit Hybrid.

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

- ✓ 6,000m Gigabit Wet-Mate 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/d-p-p4tp24-4c18-a

Typical values for this cable type, based on ISO/IEC 11801 / 6,000 m (8,700 psi) Wet-Mate Gigabit Hybrid. Values for your order are confirmed in the quotation. Subject to change without notice. Jiangsu Tebaoflex Special Cable Co., Ltd., Taicang, Jiangsu, China.