6,000 m deepwater subsea ADCP & acoustic telemetry cable

TYPE 4591CC / TYPE 4026

Type 4591CC / Type 4026 6,000m Deepwater ADCP & Telemetry PUR Cable

IEC 60228 / 600 bar · 0.6/1 kV · 6,000 m deepwater subsea adcp & acoustic telemetry cable



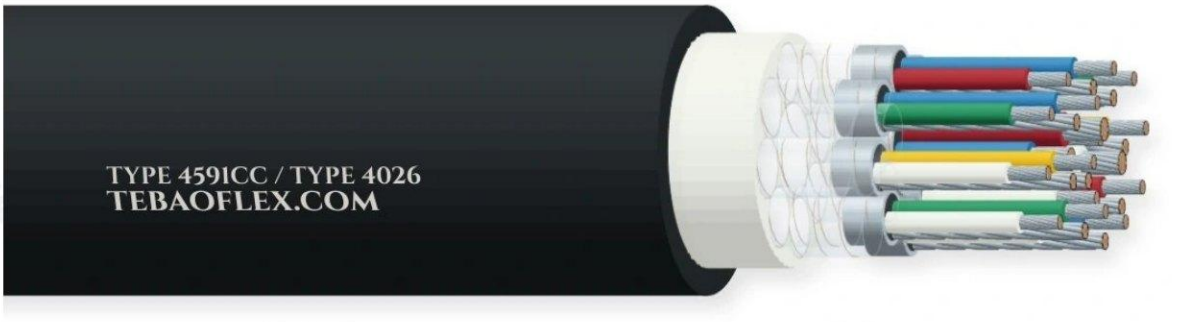
6,000 m (600 bar) Rated | **1,000 V DC + 600 V Pairs** | **Subsea ADCP Telemetry**

Application

6,000m Deepwater Subsea ADCP, Acoustic Telemetry & Instrument Power/Data Hybrid Polyurethane Cable Family (Type 4026, Type 4591CC, Type 4622CC, Type 4971CC, Type 9880CC) (IEC 60228 / 600 bar, 0.6/1 kV, -30 to +80 °C).

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. Center Screened Power Triad (1×3×1.50 mm²)
2. Screened Twisted Pairs (8×2×0.50 mm²)
3. Waterblocking System (6,000 m Rated)
4. Halogen-Free Polyether PUR Jacket

Technical data

Typical values

Rated voltage / transmission duty	0.6/1 kV (IEC 60228 / 6,000 m (600 bar) Subsea ADCP & Telemetry)	**Core / conductor construction**	Center Screened Power Triad (1×3×1.50 mm²) — 30/0.25 mm tinned Cu + Blue/White/Red XLPE (1,000 V DC) + drain + Ali/PET foil
Primary dielectric / buffering	Screened Twisted Pairs (8×2×0.50 mm²) — 16/0.20 mm tinned Cu + XLPE (600 V DC) + drain + 12/23 µm Ali/PET foil + PET tape	**Continuous operating temperature**	−30…+80 °C (subsea, marine & submersible duty)
Short-circuit / peak thermal rating	Verified thermal stability per IEC 60228 / 6,000 m (600 bar) Subsea ADCP & Telemetry	**Storage & transport temperature**	−40…+80 °C on export wooden/steel drum
Outer protection / armouring	Halogen-Free Polyether PUR Jacket — 1.80 mm black 85 Shore A polyether polyurethane outer sheath (Ø 16.40 mm)	**Minimum bending radius**	10 × OD
Hydrostatic, tensile & crush duty	Waterblocking System (6,000 m Rated) — Overall water-swellable tape (Type 4591CC) or SEBS sheath + silicone fill (Type 4026)	**Hydrostatic pressure & water blocking**	Engineered for continuous submersion and hydrostatic integrity per IEC 60228 / 6,000 m (600 bar) Subsea ADCP & Telemetry
Seawater, oil & chemical resistance	Resistant to seawater hydrolysis, hydraulic oils and abrasion per IEC 60228 / 6,000 m (600 bar) Subsea ADCP & Telemetry	**RoHS & REACH compliance**	RoHS 2 (2011/65/EU + 2015/863) & REACH SVHC compliant
Standards	IEC 60228 / 6,000 m (600 bar) Subsea ADCP & Telemetry		

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
TYPE 4591CC / TYPE 4026 Construction Schedule (−30…+80 °C) 3 sizes						
☐ **TYPE 4591CC Config A (Compact)**	4×2×24 AWG + 2×18 AWG (or 4C)	Stranded tinned Cu (IEC 60228 / ASTM)	10.4	155	4.5	85
☐ **TYPE 4591CC Config B (Standard)**	4×2×20 AWG + 4×16 AWG (or 8C)	Stranded tinned Cu (IEC 60228 / ASTM)	13.3	265	9.6	110
☐ **TYPE 4591CC 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 IEC 60228 / 6,000 m (600 bar) Subsea ADCP & Telemetry.

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	0.6/1 kV (45–100 Ω data)	−30…+80 °C
4×2×20 AWG + 4×16 AWG (or 8C)	10.70	0.6/1 kV (45–100 Ω data)	−30…+80 °C
8×2×20 AWG + 4×12 AWG (or 12C)	5.40	0.6/1 kV (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

- IEC 60228 / 600 bar 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/type-4591cc-type-4026

Typical values for this cable type, based on IEC 60228 / 6,000 m (600 bar) Subsea ADCP & Telemetry. Values for your order are confirmed in the quotation. Subject to change without notice. Jiangsu Tebaoflex Special Cable Co., Ltd., Taicang, Jiangsu, China.