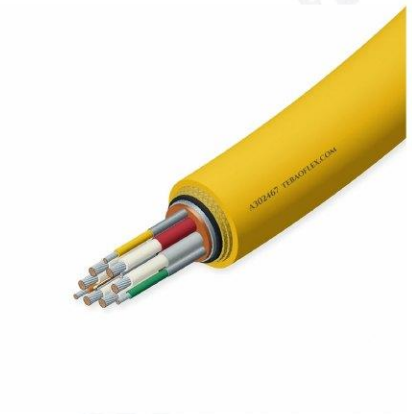
Lightweight aramid-armoured 3–7 kV deepwater ROV lift umbilical

A302467

& A303955 3.0–7.0 kV Aramid-Armoured Deepwater ROV Umbilical



SAE AS81044 (SPEC 44) · 3.6/6 kV · Lightweight aramid-armoured 3–7 kv deepwater rov

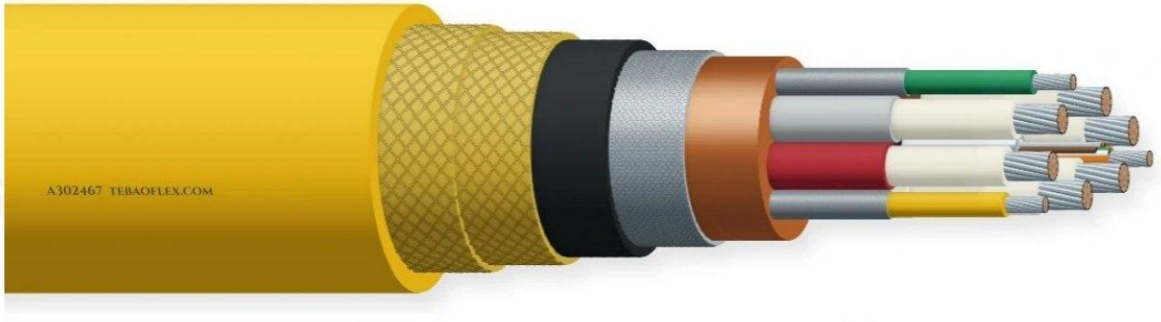
SAE AS81044 (SPEC 44) | 3,000–7,000 V AC Power | Lightweight Aramid Lift

Application

A302467 & A303955 Lightweight High-Strength Aramid-Armoured Deepwater ROV Lift & Heavy Excursion Electro-Optical Umbilical Cable (SAE AS81044 (SPEC 44), 3.6/6 kV, -40 to +80 °C, min. bend radius 12 × 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. Optical Core (6×SMF)
2. HV Power & Signal Cores (6P + 3S)
3. Overall Shield & Polyolefin Bedding
4. Contra-Helical Aramid Armor (498 kN)
5. Armor-Locked Outer Jacket (Ø38.1 mm)

Technical data

Typical values

Rated voltage / transmission duty	3.6/6 kV (SAE AS81044 (SPEC 44) Lightweight Aramid Deepwater ROV)	**Core / conductor construction**	Optical Core (6×SMF) — Laser-welded stainless-steel tube protecting 6 single-mode fibres at 60 MPa
Primary dielectric / buffering	HV Power & Signal Cores (6P + 3S) — 6 HV power cores + 3 signal cores with SAE AS81044 (SPEC 44) dual-wall insulation	**Continuous operating temperature**	−40…+80 °C (subsea, marine & submersible duty)
Short-circuit / peak thermal rating	Verified thermal stability per SAE AS81044 (SPEC 44) Lightweight Aramid Deepwater ROV	**Storage & transport temperature**	−40…+80 °C on export wooden/steel drum
Outer protection / armouring	Armor-Locked Outer Jacket (Ø38.1 mm) — Mechanically interlocked abrasion-resistant Elastomer / polyurethane outer sheath	**Minimum bending radius**	12 × OD
Hydrostatic, tensile & crush duty	Contra-Helical Aramid Armor (498 kN) — Dual-layer torque-balanced Aramid synthetic armor (746 kg/km in water)	**Hydrostatic pressure & water blocking**	Engineered for continuous submersion and hydrostatic integrity per SAE AS81044 (SPEC 44) Lightweight Aramid Deepwater ROV
Seawater, oil & chemical resistance	Resistant to seawater hydrolysis, hydraulic oils and abrasion per SAE AS81044 (SPEC 44) Lightweight Aramid Deepwater ROV	**RoHS & REACH compliance**	RoHS 2 (2011/65/EU + 2015/863) & REACH SVHC compliant
Standards	SAE AS81044 (SPEC 44) Lightweight Aramid Deepwater ROV		

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
A302467 Construction Schedule (−40…+80 °C) 3 sizes						
☐ **A302467 Type A (Standard Lift)**	3 × 10 mm² HV + 6×2×1.0 + 12F FIMT	Class 5 tinned Cu + 316L FIMT	25.4	1,680	320.0	380
☐ **A302467 Type B (Heavy Work-Class)**	3 × 16 mm² HV + 8×2×1.0 + 12F FIMT	Class 5 tinned Cu + 316L FIMT	32.2	2,650	480.0	485
☐ **A302467 Type C (Ultra-Deep Trencher)**	3 × 25 mm² HV + 12×2×1.0 + 24F FIMT	Class 5 tinned Cu + 316L FIMT	38.1	3,890	680.0	570

– Custom core cross-sections, pair/fibre counts, armour grades and factory drum lengths available per SAE AS81044 (SPEC 44) Lightweight Aramid Deepwater ROV.

Electrical, optical & thermal parameters

3 sizes

Configuration	Max. DC R_{20} / Atten. Ω/km or dB/km	Rating / Impedance	Operating temp.
3 × 10 mm² HV + 6×2×1.0 + 12F FIMT	1.91	3.6/6 kV (≤0.35 dB/km SM)	−40…+80 °C
3 × 16 mm² HV + 8×2×1.0 + 12F FIMT	1.21	3.6/6 kV (≤0.35 dB/km SM)	−40…+80 °C
3 × 25 mm² HV + 12×2×1.0 + 24F FIMT	0.78	3.6/6 kV (≤0.35 dB/km SM)	−40…+80 °C

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

Standards and approvals

- SAE AS81044 (SPEC 44) 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/a302467

Typical values for this cable type, based on SAE AS81044 (SPEC 44) Lightweight Aramid Deepwater ROV. Values for your order are confirmed in the quotation. Subject to change without notice. Jiangsu Tebaoflex Special Cable Co., Ltd., Taicang, Jiangsu, China.