Central-aramid 3×75 Ω video coax & control heavy ROV cable

REF 32629 & REF 37256

Central-Aramid 3×75 Ω Coax Heavy ROV Cable

IEC 61196 / ROV Video · 300/500 V · Central-aramid 3×75 ω video coax & control heavy



3×75 Ω Video Coaxes | 250 V Screened Pairs | Central Aramid ROV

Application

REF 32629 & REF 37256 Central-Aramid-Core & 3×75-Ohm Coax Individually/Overall Copper-Spun Shielded Polyester-Elastomer/PUR Heavy ROV Cable (IEC 61196 / ROV Video, 300/500 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. Video Coaxial Units (3×75 Ω / 1×75 Ω)
2. Spun-Shielded Pairs (2×2×0.75 mm²)
3. Spun-Shielded Quads (2×4×0.25 mm²)
4. Watertight Core & Overall Cu Spinning
5. Polyurethane Outer Sheath (Ø14.5 / 11.9 mm)

Technical data

Typical values

Rated voltage / transmission duty	300/500 V (IEC 61196 / Central-Aramid 3×75 Ω ROV Video Umbilical)	**Core / conductor construction**	Video Coaxial Units (3×75 Ω / 1×75 Ω) — Three 75-ohm coaxial cores (81 pF/m, 0.22 dB/m @ 200 MHz) in REF 37256
Primary dielectric / buffering	Spun-Shielded Pairs (2×2×0.75 mm²) — Extra-flexible tinned copper + polyester elastomer + tinned copper spun shield	**Continuous operating temperature**	−30…+80 °C (subsea, marine & submersible duty)
Short-circuit / peak thermal rating	Verified thermal stability per IEC 61196 / Central-Aramid 3×75 Ω ROV Video Umbilical	**Storage & transport temperature**	−40…+80 °C on export wooden/steel drum
Outer protection / armouring	Polyurethane Outer Sheath (Ø14.5 / 11.9 mm) — Extra-flexible watertight polyurethane (PUR) outer jacket (–30 °C to +80 °C)	**Minimum bending radius**	10 × OD
Hydrostatic, tensile & crush duty	Watertight Core & Overall Cu Spinning — Watertight compound filling + overall tinned copper wire spun shield (or 200 daN aramid core)	**Hydrostatic pressure & water blocking**	Engineered for continuous submersion and hydrostatic integrity per IEC 61196 / Central-Aramid 3×75 Ω ROV Video Umbilical
Seawater, oil & chemical resistance	Resistant to seawater hydrolysis, hydraulic oils and abrasion per IEC 61196 / Central-Aramid 3×75 Ω ROV Video Umbilical	**RoHS & REACH compliance**	RoHS 2 (2011/65/EU + 2015/863) & REACH SVHC compliant
Standards	IEC 61196 / Central-Aramid 3×75 Ω ROV Video Umbilical		

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
REF 32629 & REF 37256 Construction Schedule (−30…+80 °C) 3 sizes						
☐ **REF 32629 Config A (Compact)**	4×2×24 AWG + 2×18 AWG (or 4C)	Stranded tinned Cu (IEC 60228 / ASTM)	10.4	155	4.5	85
☐ **REF 32629 Config B (Standard)**	4×2×20 AWG + 4×16 AWG (or 8C)	Stranded tinned Cu (IEC 60228 / ASTM)	13.3	265	9.6	110
☐ **REF 32629 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 61196 / Central-Aramid 3×75 Ω ROV Video Umbilical.

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	300/500 V (45–100 Ω data)	−30…+80 °C
4×2×20 AWG + 4×16 AWG (or 8C)	10.70	300/500 V (45–100 Ω data)	−30…+80 °C
8×2×20 AWG + 4×12 AWG (or 12C)	5.40	300/500 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

- IEC 61196 / ROV Video 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/ref-32629-ref-37256

Typical values for this cable type, based on IEC 61196 / Central-Aramid 3×75 Ω ROV Video Umbilical. Values for your order are confirmed in the quotation. Subject to change without notice. Jiangsu Tebaoflex Special Cable Co., Ltd., Taicang, Jiangsu, China.