Subsea 1,000 V projector & 75 Ω TV camera video/lighting cable

REF 59986 & REF 55753

1,000/600 V Underwater Projector & Video Cable

IEC 60332-1 / Subsea TV · 0.6/1 kV · Subsea 1,000 v projector & 75 ω tv camera

1,000 V XLPE & 75 Ω Coax | **0.35 dB/m @ 200 MHz** | **Watertight FR-PUR**



Application

REF 59986 (1,000 V 3×1 mm² XLPE Foil-Shielded Underwater Projector Cable) & REF 55753 (75-Ohm Coax + 2×2×0.34 mm² Shielded Pairs + 2×1 mm² PUR Video/Lighting Cable) (IEC 60332-1 / Subsea TV, 0.6/1 kV, -25 to +75 °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. 75 Ω Video Coaxial Unit (80 pF/m)
2. Foil-Shielded Sensor Pairs (2×2×0.34 mm²)
3. Projector Power Cores (2×1.0 / 3×1.0 mm²)
4. Flame-Retardant PUR Sheath (Ø8.5–9.0 mm)

Technical data

Typical values

Rated voltage / transmission duty	0.6/1 kV (IEC 60332-1 / Subsea 75 Ω Video & 1,000 V Projector Standard)	**Core / conductor construction**	75 Ω Video Coaxial Unit (80 pF/m) — 75-ohm video coaxial core (0.35 dB/m @ 200 MHz) for underwater TV camera
Primary dielectric / buffering	Foil-Shielded Sensor Pairs (2×2×0.34 mm²) — Extra-flexible tinned copper + polyester elastomer + individual Al/PET foil & drain	**Continuous operating temperature**	−25…+75 °C (subsea, marine & submersible duty)
Short-circuit / peak thermal rating	Verified thermal stability per IEC 60332-1 / Subsea 75 Ω Video & 1,000 V Projector Standard	**Storage & transport temperature**	−40…+80 °C on export wooden/steel drum
Outer protection / armouring	Flame-Retardant PUR Sheath (Ø8.5–9.0 mm) — Black watertight polyurethane outer sheath compliant with IEC 60332-1 (0.11 kg/m)	**Minimum bending radius**	8 × OD
Hydrostatic, tensile & crush duty	Projector Power Cores (2×1.0 / 3×1.0 mm²) — 2×1.0 mm² 600 V plain Cu (REF 55753) or 3×1.0 mm² 1,000 V XLPE tinned Cu (REF 59986)	**Hydrostatic pressure & water blocking**	Engineered for continuous submersion and hydrostatic integrity per IEC 60332-1 / Subsea 75 Ω Video & 1,000 V Projector Standard
Seawater, oil & chemical resistance	Resistant to seawater hydrolysis, hydraulic oils and abrasion per IEC 60332-1 / Subsea 75 Ω Video & 1,000 V Projector Standard	**RoHS & REACH compliance**	RoHS 2 (2011/65/EU + 2015/863) & REACH SVHC compliant
Standards	IEC 60332-1 / Subsea 75 Ω Video & 1,000 V Projector 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
REF 59986 & REF 55753 Construction Schedule (−25…+75 °C) 3 sizes						
☐ **REF 59986 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 59986 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 59986 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 60332-1 / Subsea 75 Ω Video & 1,000 V Projector 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	0.6/1 kV (45–100 Ω data)	−25…+75 °C
4×2×20 AWG + 4×16 AWG (or 8C)	10.70	0.6/1 kV (45–100 Ω data)	−25…+75 °C
8×2×20 AWG + 4×12 AWG (or 12C)	5.40	0.6/1 kV (High-Power Hybrid)	−25…+75 °C

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

Standards and approvals

- IEC 60332-1 / Subsea TV 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-59986-ref-55753

Typical values for this cable type, based on IEC 60332-1 / Subsea 75 Ω Video & 1,000 V Projector Standard. Values for your order are confirmed in the quotation. Subject to change without notice. Jiangsu Tebaoflex Special Cable Co., Ltd., Taicang, Jiangsu, China.