subsea umbilical, ROV tether & oceanographic tow cable

Type 304 / 308 TV

Type 304 / 308 300–600 V 75-Ohm Coaxial, Shielded Pair & Power Subsea



Type 304 / 308 Subsea Video · 300 V – 600 V · Subsea umbilical, rov tether &

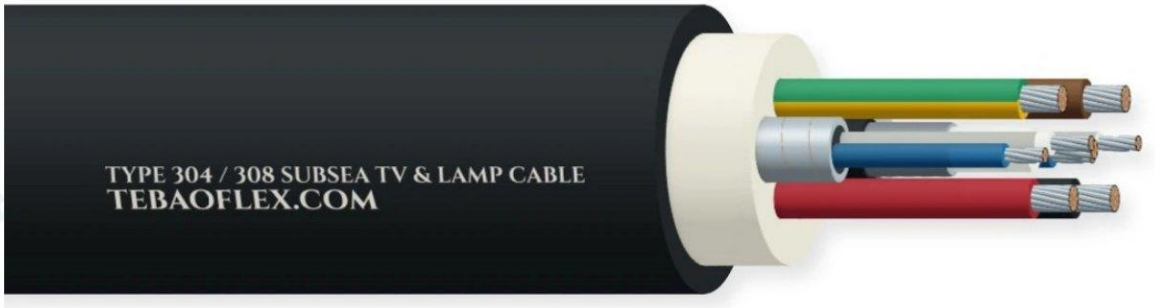
Type 304 / 308 Subsea Video | **300 V – 600 V (-30 to +80 °C)** | **Moldable Watertight PUR Outer Sheath**

Application

Type 304 / 308 300–600 V 75-Ohm Coaxial, Shielded Pair & Power Subsea TV Camera & Lamp Cable (Type 304 / 308 Subsea Video) engineered for 300 V – 600 V service across -30 to +80 °C (min. bend radius 8 × OD).

Typical uses: Oceanographic CTD, ADCP & Deep-Tow Surveys, Work-Class & Observation ROV / AUV Systems, Side-Scan Sonar, SAS & Towed Hydrophone Arrays, Marine 2D/3D/UHR Seismic Streamers & OBC

Construction





Cross-section, not to scale

1. 75-Ohm Subsea Video Coaxial Core
2. Shielded Pan/Tilt Control Pairs
3. 300V-600V Lamp & Camera Power Cores
4. Moldable Watertight PUR Outer Sheath

Technical data

Typical values

Rated voltage / transmission duty	300 V – 600 V (Type 304 / 308 75-Ohm Coax + Screened Pairs + Power Subsea Camera & Lamp Specification)	**Core / conductor construction**	75-Ohm Subsea Video Coaxial Core — Impedance-matched 75 Q coaxial unit for camera video transmission
Primary dielectric / buffering	Shielded Pan/Tilt Control Pairs — Foil-screened twisted pairs for camera telemetry and focus control	**Continuous operating temperature**	−30…+80 °C (subsea & offshore duty)
Hydrostatic & thermal stability	Verified thermal and hydrostatic stability per Type 304 / 308 75-Ohm Coax + Screened Pairs + Power Subsea Camera & Lamp Specification	**Storage & transport temperature**	−40…+80 °C on export wooden/steel winch reel
Outer protection / armouring	Moldable Watertight PUR Outer Sheath — Black polyurethane jacket compatible with hot/cold connector molding	**Minimum bending radius**	8 × OD
Armour, strength member & mechanical duty	300V-600V Lamp & Camera Power Cores — Stranded tinned copper conductors with XLPE/PE insulation	**Seawater, hydrostatic & hydrolysis resistance**	Engineered for continuous seawater immersion, pressure cycling and hydrolysis resistance per Type 304 / 308 75-Ohm Coax + Screened Pairs + Power Subsea Camera & Lamp Specification
Oil, drilling mud & abrasion resistance	Resistant to marine hydraulic oils, salt mist, winch sheave wear and seabed abrasion per Type 304 / 308 75-Ohm Coax + Screened Pairs + Power Subsea Camera & Lamp Specification	**RoHS & REACH compliance**	RoHS 2 (2011/65/EU + 2015/863) & REACH SVHC compliant
Standards	Type 304 / 308 75-Ohm Coax + Screened Pairs + Power Subsea Camera & Lamp Specification		

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	Breaking / tensile kN ≈	Min. bend R mm
Type 304 / 308 TV Construction Schedule (−30…+80 °C) 3 sizes						
☐ Type 304 Coax / Cat5e	Coax (39/40/50/75 Ω) or 4Pr Cat5e + Power	Stranded SnCu + Foam PE/FEP + Armour/Aramid	8.2	245	42.7	120
☐ Type 304 Composite B	Heavy Coax / 64-Ch Digital Bus + Power	Stranded SnCu + Low-Loss Dielectric + Strength	11.5	485	71.2	170
☐ Type 304 Array / Trunk C	Multi-Ch Digital Streamer / 255-Ch Bus	Redundant Telemetry + Aramid + PUR Jacket	44.5	1,620	95.0	445

– Custom core cross-sections, pair/fibre counts, armour breaking loads and continuous winch/seabed lengths available per Type 304 / 308 75-Ohm Coax + Screened Pairs + Power Subsea Camera & Lamp Specification.

Electrical, optical & thermal parameters

3 sizes

Configuration	Max. DC R_{20} / Atten. Ω/km or dB/km	Rating / Impedance	Operating temp.
Coax (39/40/50/75 Ω) or 4Pr Cat5e + Power	18.50	300 V – 600 V (High-Speed)	−30…+80 °C
Heavy Coax / 64-Ch Digital Bus + Power	11.20	300 V – 600 V (Deep-Tow/Array)	−30…+80 °C
Multi-Ch Digital Streamer / 255-Ch Bus	6.80	300 V – 600 V (Full Array)	−30…+80 °C

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

Standards and approvals

- Type 304 / 308 Subsea 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/type-304-308-subsea-tv-lamp-cable

Typical values for this cable type, based on Type 304 / 308 75-Ohm Coax + Screened Pairs + Power Subsea Camera & Lamp Specification. Values for your order are confirmed in the quotation. Subject to change without notice. Jiangsu Tebaoflex Special Cable Co., Ltd., Taicang, Jiangsu, China.