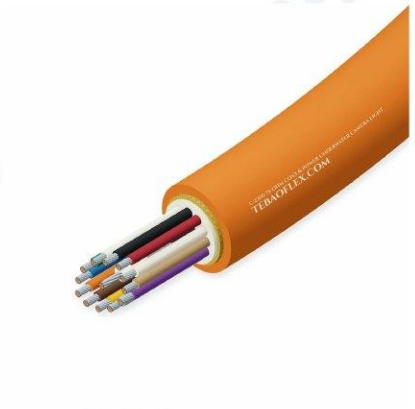
subsea ROV umbilical, AUV tether & sonar tow cable

# C-2300 75-Ohm Coax + Power

## C-2300 75-Ohm Coax & Power Underwater Camera Light Cable

MIL-C-17 / DNV Subsea · 600 V · Subsea rov umbilical, auv tether & sonar tow cable




MIL-C-17 / DNV Subsea | 600 V (-40 to +80 °C) | Subsea / Marine Outer Protective She

## Application

C-2300 75-Ohm Coax & Power Underwater Camera Light Cable featuring 75-ohm coaxial video / signal core and subsea / marine outer protective sheath (MIL-C-17 / DNV Subsea, 600 V, -40 to +80 °C, min. bend radius 6 × OD).

**Typical uses:** Work-Class & Observation ROV Umbilicals and TMS Tethers, Offshore Aquaculture Net Cleaners & Subsea Cage Inspection, AUV, Ocean Glider & Expendable Spool-Payoff Micro-Tethers, USV Towed Sonar Arrays, Seabed Crawlers & Subsea Trenchers

## Construction






Cross-section, not to scale

1. 75-Ohm Coaxial Video / Signal Core
2. Power & Control Conductors (6 Cores)
3. Subsea / Marine Outer Protective Sheath

## Technical data

Typical values

| | |
|---|---|
| **Rated voltage / operating system** | 600 V (MIL-C-17 & DNV C-2300 75-Ohm Coax + Power Underwater Camera Cable Standard) |
| **Primary dielectric / optical buffer** | Power & Control Conductors (6 Cores) — Stranded copper conductors with High-density polyethylene (HDPE / PE) core insulation |
| **Hydrostatic & thermal cycling endurance** | Verified cold-bend and wet dielectric stability across −40…+80 °C per MIL-C-17 & DNV C-2300 75-Ohm Coax + Power Underwater Camera Cable Standard |
| **Outer jacket / sheath protection** | Subsea / Marine Outer Protective Sheath — Black hydrolysis- & abrasion-resistant marine Polyurethane (PUR) outer sheath |
| **Reinforcement / screen / bedding layer** | Power & Control Conductors (6 Cores) — Stranded copper conductors with High-density polyethylene (HDPE / PE) core insulation |
| **Hydrostatic pressure & water blocking** | Radial and longitudinal water-blocking integrity verified per MIL-C-17 & DNV C-2300 75-Ohm Coax + Power Underwater Camera Cable Standard |
| **Standards** | MIL-C-17 & DNV C-2300 75-Ohm Coax + Power Underwater Camera Cable Standard |
| **Core / conductor construction** | 75-Ohm Coaxial Video / Signal Core — Low-loss coaxial core with braided copper shield |
| **Continuous operating temperature** | −40…+80 °C (submerged seawater & topside deck service) |
| **Storage & transport temperature** | −40…+80 °C on export wooden/steel cable drum |
| **Minimum bending radius** | 6 × OD |
| **Seawater, hydrolysis & oil resistance** | Resistant to permanent seawater immersion, hydrolysis, hydraulic oil and bio-fouling per MIL-C-17 & DNV C-2300 75-Ohm Coax + Power Underwater Camera Cable Standard |
| **RoHS & REACH compliance** | RoHS 2 (2011/65/EU + 2015/863) & REACH SVHC compliant |

## 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 | Max. pulling kN ≈ | Min. bend R mm |
|---|---|---|---|---|---|---|
| **C-2300 75-Ohm Coax + Power Construction Schedule (−40…+80 °C)** 3 sizes | | | | | | |
| ☐ C-2300 75-Ohm Coax + Power RG59/75Ω + 4C | 1×75 Ω Coax + 4×0.75 mm² (18 AWG) | SnCu Center + Foam PE + TCWB + Subsea PUR | 10.8 | 165 | 8.5 | 65 |
| ☐ C-2300 75-Ohm Coax + Power RG213/50Ω + 6C | 1×50/75 Ω Coax + 6×1.5 mm² + 1×TP | SnCu + Dual Braid Shield + Aramid/GSWA | 14.4 | 340 | 22.0 | 90 |
| ☐ C-2300 75-Ohm Coax + Power 3×Coax + 6C | 3×75 Ω Video Coax + 6×1.5 mm² Power | Multi-Coax Bundle + Armour + Subsea Jacket | 18.6 | 620 | 48.0 | 125 |

– Custom core counts, optical fiber channels, wet-mate terminations and continuous winch lengths available per MIL-C-17 & DNV C-2300 75-Ohm Coax + Power Underwater Camera Cable Standard.

## Electrical, optical & thermal parameters

3 sizes

| Configuration | Max. DC $R_{20}$ Ω/km | Rating / Impedance / Load | Operating temp. |
|---|---|---|---|
| 1×75 Ω Coax + 4×0.75 mm² (18 AWG) | 26.00 | 600 V · 75 Ω ±3 Ω | −40…+80 °C |
| 1×50/75 Ω Coax + 6×1.5 mm² + 1×TP | 13.30 | 600 V · 50/75 Ω Sonar | −40…+80 °C |
| 3×75 Ω Video Coax + 6×1.5 mm² Power | 13.30 | 600 V · 3-Ch 75 Ω Coax | −40…+80 °C |

– Every production length undergoes routine conductor DC resistance / OTDR optical attenuation, AC dielectric and dimensional verification.

## Standards and approvals

- MIL-C-17 / DNV Subsea 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/c-2300-75-ohm-coax-power-underwater-camera-light**

Typical values for this cable type, based on MIL-C-17 & DNV C-2300 75-Ohm Coax + Power Underwater Camera Cable Standard. Values for your order are confirmed in the quotation. Subject to change without notice. Jiangsu Tebaoflex Special Cable Co., Ltd., Taicang, Jiangsu, China.