subsea umbilical, ROV tether & oceanographic tow cable

FM030115 75-Ohm Coax

FM030115 75-Ohm (RG-59 / RG-6 / RG-11) 7,000 m Water-Blocked HD-SDI Su

FM030115 / 75-Ohm Subsea Coax · 300 V (75 Ω) · Subsea umbilical, rov tether &



FM030115 / 75-Ohm Subsea Coax | **300 V (75 Ω) (-30 to +80 °C)** | **TPE Water-Blocked Inner & PUR Outer**

Application

FM030115 75-Ohm (RG-59 / RG-6 / RG-11) 7,000 m Water-Blocked HD-SDI Subsea Coaxial Cable (FM030115 / 75-Ohm Subsea Coax) engineered for 300 V (75 Ω) 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. High-Flex Stranded Copper Center (19-22
2. 90°C Solid PE 75-Ohm Dielectric
3. AlWPET Foil + 95% Tinned Copper Braid Sh
4. TPE Water-Blocked Inner & PUR Outer Jack

Technical data

Typical values

Rated voltage / transmission duty	300 V (75 Ω) (FM030115 (RG-59/RG-6/RG-11) 7,000 m Water-Blocked 75-Ohm HD Subsea Coaxial Specification)	**Core / conductor construction**	High-Flex Stranded Copper Center (19-22 AWG) — Finely stranded copper center conductor (RG59, RG6, RG11 options)
Primary dielectric / buffering	90°C Solid PE 75-Ohm Dielectric — Crush-resistant solid polyethylene dielectric for 7,000 m water depth	**Continuous operating temperature**	−30…+80 °C (subsea & offshore duty)
Hydrostatic & thermal stability	Verified thermal and hydrostatic stability per FM030115 (RG-59/RG-6/RG-11) 7,000 m Water-Blocked 75-Ohm HD Subsea Coaxial Specification	**Storage & transport temperature**	−40…+80 °C on export wooden/steel winch reel
Outer protection / armouring	TPE Water-Blocked Inner & PUR Outer Jacket — Thermoplastic elastomer inner barrier + heavy-duty black PUR sheath	**Minimum bending radius**	8 × OD
Armour, strength member & mechanical duty	AlWPET Foil + 95% Tinned Copper Braid Shield — Dual coaxial shielding for low-attenuation HD video transmission	**Seawater, hydrostatic & hydrolysis resistance**	Engineered for continuous seawater immersion, pressure cycling and hydrolysis resistance per FM030115 (RG-59/RG-6/RG-11) 7,000 m Water-Blocked 75-Ohm HD Subsea Coaxial Specification
Oil, drilling mud & abrasion resistance	Resistant to marine hydraulic oils, salt mist, winch sheave wear and seabed abrasion per FM030115 (RG-59/RG-6/RG-11) 7,000 m Water-Blocked 75-Ohm HD Subsea Coaxial Specification	**RoHS & REACH compliance**	RoHS 2 (2011/65/EU + 2015/863) & REACH SVHC compliant
Standards	FM030115 (RG-59/RG-6/RG-11) 7,000 m Water-Blocked 75-Ohm HD Subsea Coaxial 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
FM030115 75-Ohm Coax Construction Schedule (−30…+80 °C) 3 sizes						
☐ FM030115 75-Ohm Coax 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
☐ FM030115 75-Ohm Coax Composite B	Heavy Coax / 64-Ch Digital Bus + Power	Stranded SnCu + Low-Loss Dielectric + Strength	11.5	485	71.2	170
☐ FM030115 75-Ohm Coax 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 FM030115 (RG-59/RG-6/RG-11) 7,000 m Water-Blocked 75-Ohm HD Subsea Coaxial 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 (75 Ω) (High-Speed)	−30…+80 °C
Heavy Coax / 64-Ch Digital Bus + Power	11.20	300 V (75 Ω) (Deep-Tow/Array)	−30…+80 °C
Multi-Ch Digital Streamer / 255-Ch Bus	6.80	300 V (75 Ω) (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

- ✓ FM030115 / 75-Ohm Subsea Coax 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/fm030115-75-ohm-hd-subsea-coaxial-cable

Typical values for this cable type, based on FM030115 (RG-59/RG-6/RG-11) 7,000 m Water-Blocked 75-Ohm HD Subsea Coaxial Specification. Values for your order are confirmed in the quotation. Subject to change without notice. Jiangsu Tebaoflex Special Cable Co., Ltd., Taicang, Jiangsu, China.