High-visibility green aramid diver video & lighting cable

FM070901

75 Ω Coax & Control Aramid Underwater Diver Video Cable

IMCA D 014 / Subsea · 0.6/1 kV · High-visibility green aramid diver video & lighting cable



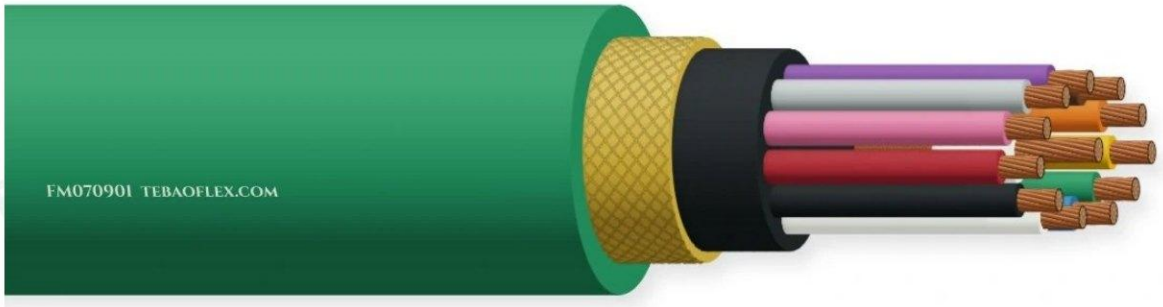
75 Ω Video + 600–1,000 V | 1,500 lbs Aramid Braid | 300 m High-Vis Green

Application

High-Visibility Green FM070901 Series 75-Ohm Coax & Multicore Control/Lighting Aramid-Reinforced Polyurethane Underwater Diver Video Cable (IMCA D 014 / Subsea, 0.6/1 kV, -30 to +80 °C, min. bend radius 8 × 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. Center 75 Ω Video Coax (22 AWG)
2. Lighting & Control Cores (11×18 AWG)
3. Aramid / LCP Strength Braid
4. High-Visibility Green Low-Friction PUR Jacket

Technical data

Typical values

Rated voltage / transmission duty	0.6/1 kV (IMCA D 014 / Subsea 75 Ω Video & Lighting Standard)	**Core / conductor construction**	Center 75 Ω Video Coax (22 AWG) — High-flex stranded copper center + foamed/solid dielectric + copper braid + jacket
Primary dielectric / buffering	Lighting & Control Cores (11×18 AWG) — 11 color-coded 600–1,000 V conductors concentrically cabled around coax	**Continuous operating temperature**	−30…+80 °C (subsea, marine & submersible duty)
Short-circuit / peak thermal rating	Verified thermal stability per IMCA D 014 / Subsea 75 Ω Video & Lighting Standard	**Storage & transport temperature**	−40…+80 °C on export wooden/steel drum
Outer protection / armouring	High-Visibility Green Low-Friction PUR Jacket — Specially formulated flexible green polyurethane jacket (Ø 11.05 mm, 300 m depth)	**Minimum bending radius**	8 × OD
Hydrostatic, tensile & crush duty	Aramid / LCP Strength Braid — Overall braided synthetic strength layer rated to 2,400 lbs (10.68 kN MBL)	**Hydrostatic pressure & water blocking**	Engineered for continuous submersion and hydrostatic integrity per IMCA D 014 / Subsea 75 Ω Video & Lighting Standard
Seawater, oil & chemical resistance	Resistant to seawater hydrolysis, hydraulic oils and abrasion per IMCA D 014 / Subsea 75 Ω Video & Lighting Standard	**RoHS & REACH compliance**	RoHS 2 (2011/65/EU + 2015/863) & REACH SVHC compliant
Standards	IMCA D 014 / Subsea 75 Ω Video & Lighting 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
FM070901 Construction Schedule (−30…+80 °C) 3 sizes						
☐ **FM070901 Config A (Compact)**	4×2×24 AWG + 2×18 AWG (or 4C)	Stranded tinned Cu (IEC 60228 / ASTM)	10.4	155	4.5	85
☐ **FM070901 Config B (Standard)**	4×2×20 AWG + 4×16 AWG (or 8C)	Stranded tinned Cu (IEC 60228 / ASTM)	13.3	265	9.6	110
☐ **FM070901 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 IMCA D 014 / Subsea 75 Ω Video & Lighting 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)	−30…+80 °C
4×2×20 AWG + 4×16 AWG (or 8C)	10.70	0.6/1 kV (45–100 Ω data)	−30…+80 °C
8×2×20 AWG + 4×12 AWG (or 12C)	5.40	0.6/1 kV (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

- IMCA D 014 / 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/fm070901

Typical values for this cable type, based on IMCA D 014 / Subsea 75 Ω Video & Lighting Standard. Values for your order are confirmed in the quotation. Subject to change without notice. Jiangsu Tebaoflex Special Cable Co., Ltd., Taicang, Jiangsu, China.