IMCA commercial diver communication & mini-TV video cable

DCS0014 / DCS0001

Commercial Diver Comms, Monitoring & Video Cable

IMCA D 014 / D 022 · 0.6/1 kV · Imca commercial diver communication & mini-tv video cable



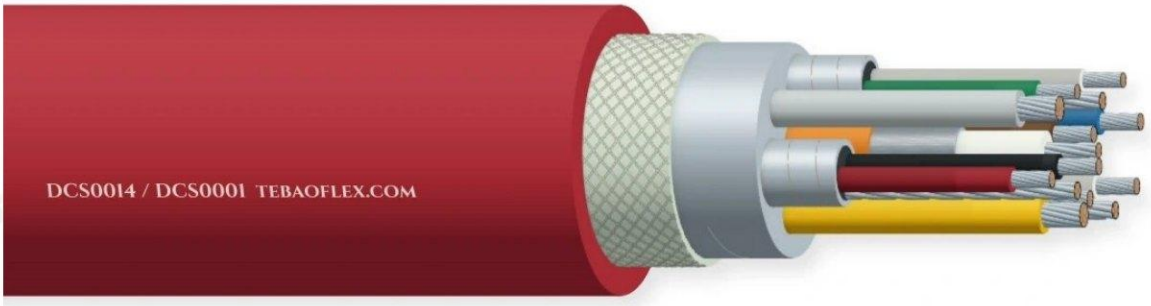
IMCA D 014 / D 022 | **300–1,000 V + 75 Ω TV** | **Color-Coded Red/Orange PUR**

Application

DCS0001 / DCS0012 / DCS0014 / DCS0016 Polyurethane-Sheathed Diver Communication, Monitoring & Mini-TV Video Cable (IMCA D 014 / D 022, 0.6/1 kV, -30 to +75 °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 Mini-Coax Unit
2. Individually Screened Pairs (2×1.0 + 1×0.5)
3. Power Pair (1.34 mm² TP) & Control Cores
4. Void-Filled Core & 500 kg Strength Braid
5. Color-Coded Red PUR Sheath (Ø14.0 mm)

Technical data

Typical values

Rated voltage / transmission duty	0.6/1 kV (IMCA D 014 / D 022 / D 040 Commercial Diving Standard)	**Core / conductor construction**	Center 75 Ω Mini-Coax Unit — 75-ohm miniature coaxial core for diver helmet TV & video monitoring
Primary dielectric / buffering	Individually Screened Pairs (2×1.0 + 1×0.5) — Three foil-screened pairs with drain wires eliminating mic/earphone crosstalk	**Continuous operating temperature**	−30…+75 °C (subsea, marine & submersible duty)
Short-circuit / peak thermal rating	Verified thermal stability per IMCA D 014 / D 022 / D 040 Commercial Diving Standard	**Storage & transport temperature**	−40…+80 °C on export wooden/steel drum
Outer protection / armouring	Color-Coded Red PUR Sheath (Ø14.0 mm) — 1.6–1.8 mm hydrolysis-resistant Red polyurethane sheath (Orange on Mini-TV)	**Minimum bending radius**	8 × OD
Hydrostatic, tensile & crush duty	Void-Filled Core & 500 kg Strength Braid — Elastomer void-filled lay-up + polyester (or DCS0016 SS cut-proof) braid	**Hydrostatic pressure & water blocking**	Engineered for continuous submersion and hydrostatic integrity per IMCA D 014 / D 022 / D 040 Commercial Diving Standard
Seawater, oil & chemical resistance	Resistant to seawater hydrolysis, hydraulic oils and abrasion per IMCA D 014 / D 022 / D 040 Commercial Diving Standard	**RoHS & REACH compliance**	RoHS 2 (2011/65/EU + 2015/863) & REACH SVHC compliant
Standards	IMCA D 014 / D 022 / D 040 Commercial Diving 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
DCS0014 / DCS0001 Construction Schedule (−30…+75 °C) 3 sizes						
☐ DCS0014 3-Part / Compact Assembly	Gas/Hydraulic Hose + Power + Comms/Coax	Helical cabled composite umbilical	28.5	920	25.0	285
☐ DCS0014 4-Part / Standard Assembly	Dual Hose + 75 Ω Video Coax + Comms Pairs	Helical cabled composite umbilical	36.0	1,540	48.0	360
☐ DCS0014 Heavy Bell / Intervention	Multi-Hose + 3×Coax + Power/Signal Quads	Aramid-reinforced subsea umbilical	54.0	3,420	90.0	540

– Custom core cross-sections, pair/fibre counts, armour grades and factory drum lengths available per IMCA D 014 / D 022 / D 040 Commercial Diving Standard.

Electrical, optical & thermal parameters

3 sizes

Configuration	Max. DC R_{20} / Atten. Ω/km or dB/km	Rating / Impedance	Operating temp.
Gas/Hydraulic Hose + Power + Comms/Coax	4.95	0.6/1 kV + 35–240 bar Fluid	−30…+75 °C
Dual Hose + 75 Ω Video Coax + Comms Pairs	3.30	0.6/1 kV + 35–240 bar Fluid	−30…+75 °C
Multi-Hose + 3×Coax + Power/Signal Quads	1.91	0.6/1 kV + 100–240 bar Fluid	−30…+75 °C

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

Standards and approvals

- IMCA D 014 / D 022 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/dcs0014-dcs0001

Typical values for this cable type, based on IMCA D 014 / D 022 / D 040 Commercial Diving Standard. Values for your order are confirmed in the quotation. Subject to change without notice. Jiangsu Tebaoflex Special Cable Co., Ltd., Taicang, Jiangsu, China.