Silicone-waterblocked 75 Ω video coax & power hybrid cable

8MC430 / 8XM552 / 13XM553

75 Ω Subsea Video Hybrid Cable

IEC 61196 / Subsea · 600 V · Silicone-waterblocked 75 ω video coax & power hybrid cable



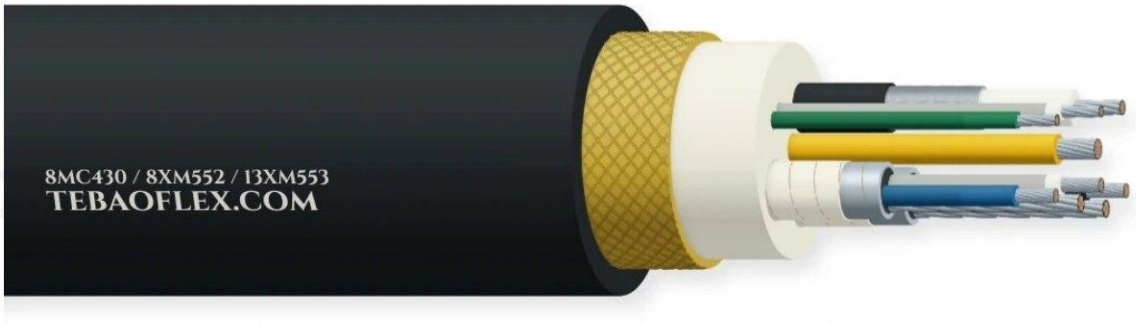
75 Ω Video Coax | 300/600 V + SIWB | 960 kg Breaking Load

Application

8MC430, 8XM552 & 13XM553 75-Ohm Video Coax, Individually Shielded Pairs & Power Silicone-Waterblocked (960 kg BS) PUR Underwater Video Hybrid Cable (IEC 61196 / Subsea, 600 V, -30 to +80 °C, min. bend radius 10 × 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. 75 Ω Video Coaxial Unit
2. Individually Shielded Pairs (2×1.34 + 2×0.50)
3. Control Pair & Power Core (2×0.22 + 1×1.34)
4. SIWB Silicone Water-Blocking & 960 kg Braid
5. Subsea Polyurethane Jacket (Ø10.0–12.0 mm)

Technical data

Typical values

Rated voltage / transmission duty	600 V (IEC 61196 / Subsea 75 Ω Video Hybrid Specification)	**Core / conductor construction**	75 Ω Video Coaxial Unit — Precision 75-ohm underwater video coaxial core with tinned copper braid screen
Primary dielectric / buffering	Individually Shielded Pairs (2×1.34 + 2×0.50) — 1×(2×1.34 mm²)IS + 1×(2×0.50 mm²)IS foil-screened pairs with drain wires	**Continuous operating temperature**	−30…+80 °C (subsea, marine & submersible duty)
Short-circuit / peak thermal rating	Verified thermal stability per IEC 61196 / Subsea 75 Ω Video Hybrid Specification	**Storage & transport temperature**	−40…+80 °C on export wooden/steel drum
Outer protection / armouring	Subsea Polyurethane Jacket (Ø10.0–12.0 mm) — Abrasion- and hydrolysis-resistant marine polyurethane (PUR) outer sheath	**Minimum bending radius**	10 × OD
Hydrostatic, tensile & crush duty	SIWB Silicone Water-Blocking & 960 kg Braid — Silicone compound void filling (SIWB) + 960 kg aramid strength braid (8XM552/13XM553)	**Hydrostatic pressure & water blocking**	Engineered for continuous submersion and hydrostatic integrity per IEC 61196 / Subsea 75 Ω Video Hybrid Specification
Seawater, oil & chemical resistance	Resistant to seawater hydrolysis, hydraulic oils and abrasion per IEC 61196 / Subsea 75 Ω Video Hybrid Specification	**RoHS & REACH compliance**	RoHS 2 (2011/65/EU + 2015/863) & REACH SVHC compliant
Standards	IEC 61196 / Subsea 75 Ω Video Hybrid 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	Tensile rating kN ≈	Min. bend R mm
8MC430 / 8XM552 / 13XM553 Construction Schedule (−30…+80 °C) 3 sizes						
☐ 8MC430 Config A (Compact)	4×2×24 AWG + 2×18 AWG (or 4C)	Stranded tinned Cu (IEC 60228 / ASTM)	10.4	155	4.5	85
☐ 8MC430 Config B (Standard)	4×2×20 AWG + 4×16 AWG (or 8C)	Stranded tinned Cu (IEC 60228 / ASTM)	13.3	265	9.6	110
☐ 8MC430 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 IEC 61196 / Subsea 75 Ω Video Hybrid Specification.

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	600 V (45–100 Ω data)	−30…+80 °C
4×2×20 AWG + 4×16 AWG (or 8C)	10.70	600 V (45–100 Ω data)	−30…+80 °C
8×2×20 AWG + 4×12 AWG (or 12C)	5.40	600 V (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

- IEC 61196 / 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/8mc430-8xm552-13xm553

Typical values for this cable type, based on IEC 61196 / Subsea 75 Ω Video Hybrid Specification. Values for your order are confirmed in the quotation. Subject to change without notice. Jiangsu Tebaoflex Special Cable Co., Ltd., Taicang, Jiangsu, China.