halogen-free shipboard cable

M2XCH & (L)M2XCH 0.6/1 KV

M2XCH & (L)M2XCH 0.6/1 kV IEC 60092-353 / DIN 89158 Braided Halogen-Fr

IEC 60092-353 / DIN 89158 · 0.6/1 kV · Halogen-free shipboard cable



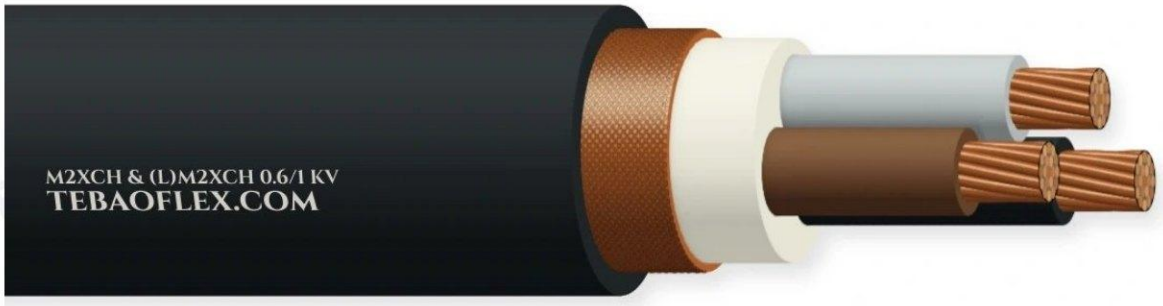
IEC 60092-353 / DIN 89158 | 0.6/1 kV (-40 to +90 °C) | SHF1 Halogen-Free Outer Sheath

Application

M2XCH & (L)M2XCH 0.6/1 kV XLPE-Insulated Copper-Wire-Braid Screened SHF1 Halogen-Free Flame-Retardant Shipboard Power & Control Cable (IEC 60092-353 / DIN 89158, 0.6/1 kV, -40 to +90 °C, min. bend radius 6 × OD).

Typical uses: Passenger Vessels, Ferries & Yachts, Merchant Marine Engine & Cargo Spaces, Offshore Living Quarters & Utility Modules, Shipyard Newbuild & Retrofit Electrical Outfitting

Construction





Cross-section, not to scale

1. Stranded Bare Copper Conductors (3×35 mm
2. HF90 XLPE Core Insulation
3. Halogen-Free Extruded Inner Covering
4. Copper Wire Braid Screen (C)
5. SHF1 Halogen-Free Outer Sheath

Technical data

Typical values

Rated voltage / transmission duty	0.6/1 kV (IEC 60092-353 & DIN 89158 / IEC 60092-360 SHF1)
Primary dielectric / buffering	HF90 XLPE Core Insulation — 90 °C cross-linked polyethylene insulation identified Brown, Black, Grey
Short-circuit / peak thermal rating	Verified thermal stability per IEC 60092-353 & DIN 89158 / IEC 60092-360 SHF1
Outer protection / armouring	SHF1 Halogen-Free Outer Sheath — Black low-smoke zero-halogen polyolefin jacket (IEC 60092-360 SHF1)
Armour, screen & mechanical duty	Copper Wire Braid Screen (C) — High-coverage bare copper wire braid for EMC screening and protection
Oil, drilling mud & seawater resistance	Resistant to marine fuel/lube oils, salt mist and offshore fluids per IEC 60092-353 & DIN 89158 / IEC 60092-360 SHF1
Standards	IEC 60092-353 & DIN 89158 / IEC 60092-360 SHF1
Core / conductor construction	Stranded Bare Copper Conductors (3×35 mm²) — IEC 60228 Class 2 / Class 5 plain annealed copper conductors
Continuous operating temperature	−40…+90 °C (shipboard & offshore duty)
Storage & transport temperature	−40…+80 °C on export wooden/steel drum
Minimum bending radius	6 × OD
Flame, fire & smoke performance	Qualified for marine flame-retardance and low-smoke zero-halogen / fire safety per IEC 60092-353 & DIN 89158 / IEC 60092-360 SHF1
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	Tensile rating kN ≈	Min. bend R mm
M2XCH & (L)M2XCH 0.6/1 KV Construction Schedule (−40…+90 °C) 3 sizes						
☐ **M2XCH 3×16+1G16 mm²**	3 × 16 + 1G16 mm² (4G16)	IEC 60228 Class 2/5 Cu/SnCu	22.4	920	3.8	135
☐ **M2XCH 3×35+1G16 mm²**	3 × 35 + 1G16 mm² (4G35)	IEC 60228 Class 2/5 Cu/SnCu	28.8	1,690	7.4	175
☐ **M2XCH 3×70+1G35 mm²**	3 × 70 + 1G35 mm² (4G70)	IEC 60228 Class 2/5 Cu/SnCu	38.2	3,260	14.8	230

– Custom core cross-sections, pair/fibre counts, armour grades and factory drum lengths available per IEC 60092-353 & DIN 89158 / IEC 60092-360 SHF1.

Electrical, optical & thermal parameters

3 sizes

Configuration	Max. DC R_{20} / Atten. Ω/km or dB/km	Rating / Impedance	Operating temp.
3 × 16 + 1G16 mm² (4G16)	1.15	0.6/1 kV (98 A)	−40…+90 °C
3 × 35 + 1G16 mm² (4G35)	0.52	0.6/1 kV (158 A)	−40…+90 °C
3 × 70 + 1G35 mm² (4G70)	0.27	0.6/1 kV (245 A)	−40…+90 °C

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

Standards and approvals

- IEC 60092-353 / DIN 89158 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/m2xch-l-m2xch-0-6-1-kv

Typical values for this cable type, based on IEC 60092-353 & DIN 89158 / IEC 60092-360 SHF1. Values for your order are confirmed in the quotation. Subject to change without notice. Jiangsu Tebaoflex Special Cable Co., Ltd., Taicang, Jiangsu, China.