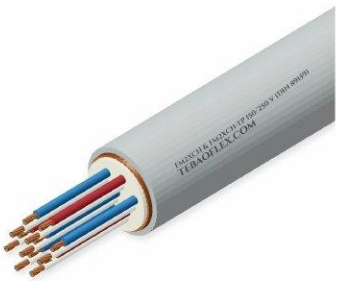
marine & offshore instrumentation cable

FM2XCH & FM2XCH-TP 150/250 V (DIN 89159)

FM2XCH & FM2XCH-TP 150/250 V DIN 89159 Halogen-Free Shipboard Communic

DIN 89159 / IEC 60092-376 · 150/250 V · Marine & offshore instrumentation cable



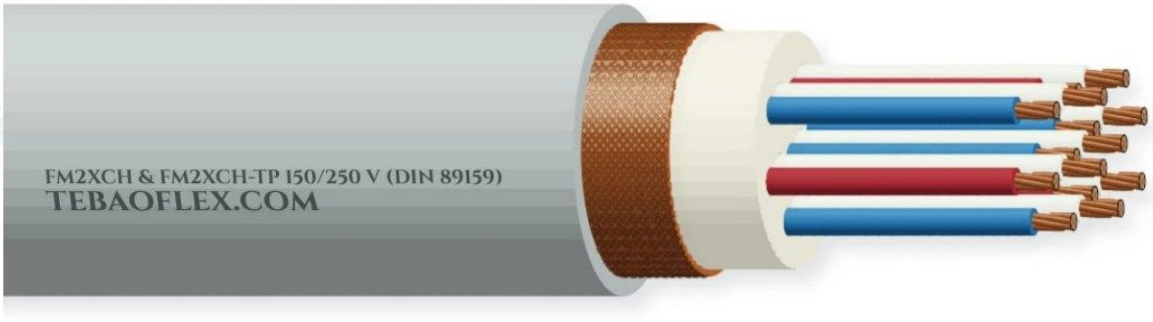
DIN 89159 / IEC 60092-376 | **150/250 V (-40 to +90 °C)** | **Grey SHF1 Zero-Halogen Outer Sheath**

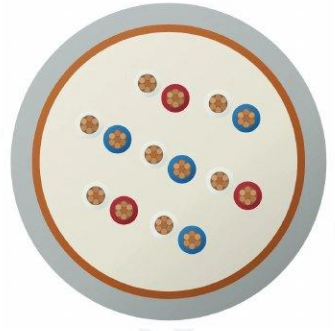
Application

FM2XCH & FM2XCH-TP 150/250 V DIN 89159 & IEC 60092-376 XLPE-Insulated Twisted-Pair/Quad Copper-Braid Screened SHF1 Halogen-Free Shipboard Communication & Signal Cable (DIN 89159 / IEC 60092-376, 150/250 V, -40 to +90 °C).

Typical uses: Offshore DCS, ESD & Fire-Gas Systems, Shipboard Bridge & Engine Room Automation, Drilling Rig Instrumentation & Mud Logging, Naval Radar, Sonar & Combat Switchboards

Construction





Cross-section, not to scale

1. Stranded Copper Twisted Pairs (7×2×0.75
2. Halogen-Free Extruded Inner Covering
3. Copper Wire Braid Screen & Armour (C)
4. Grey SHF1 Zero-Halogen Outer Sheath

Technical data

Typical values

Rated voltage / transmission duty	150/250 V (DIN 89159 & IEC 60092-376 / IEC 60092-360 SHF1)	**Core / conductor construction**	Stranded Copper Twisted Pairs (7×2×0.75 mm²) — IEC 60228 Class 2 / Class 5 copper conductors with XLPE insulation
Primary dielectric / buffering	Halogen-Free Extruded Inner Covering — Flame-retardant halogen-free inner bedding over cabled pairs	**Continuous operating temperature**	−40…+90 °C (shipboard & offshore duty)
Short-circuit / peak thermal rating	Verified thermal stability per DIN 89159 & IEC 60092-376 / IEC 60092-360 SHF1	**Storage & transport temperature**	−40…+80 °C on export wooden/steel drum
Outer protection / armouring	Grey SHF1 Zero-Halogen Outer Sheath — Thermoplastic polyolefin low-smoke halogen-free jacket (DIN 89159)	**Minimum bending radius**	6 × OD
Armour, screen & mechanical duty	Copper Wire Braid Screen & Armour (C) — High-coverage copper wire braid for collective EMC screening	**Flame, fire & smoke performance**	Qualified for marine flame-retardance and low-smoke zero-halogen / fire safety per DIN 89159 & IEC 60092-376 / IEC 60092-360 SHF1
Oil, drilling mud & seawater resistance	Resistant to marine fuel/lube oils, salt mist and offshore fluids per DIN 89159 & IEC 60092-376 / IEC 60092-360 SHF1	**RoHS & REACH compliance**	RoHS 2 (2011/65/EU + 2015/863) & REACH SVHC compliant
Standards	DIN 89159 & IEC 60092-376 / IEC 60092-360 SHF1		

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
FM2XCH & FM2XCH-TP 150/250 V (DIN 89159) Construction Schedule (−40…+90 °C) 3 sizes						
☐ **FM2XCH 2×2×0.75 mm²**	2 × 2 × 0.75 mm² (2Pr)	Stranded Cu/SnCu (IEC 60228 Class 2/5)	11.4	195	1.2	70
☐ **FM2XCH 4×2×1.0 mm²**	4 × 2 × 1.0 mm² (4Pr)	Stranded Cu/SnCu (IEC 60228 Class 2/5)	15.6	365	2.4	95
☐ **FM2XCH 8×2×1.5 mm²**	8 × 2 × 1.5 mm² (8Pr)	Stranded Cu/SnCu (IEC 60228 Class 2/5)	22.8	760	4.8	140

– Custom core cross-sections, pair/fibre counts, armour grades and factory drum lengths available per DIN 89159 & IEC 60092-376 / 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.
2 × 2 × 0.75 mm² (2Pr)	26.00	150/250 V (≤60 nF/km)	−40…+90 °C
4 × 2 × 1.0 mm² (4Pr)	19.50	150/250 V (≤65 nF/km)	−40…+90 °C
8 × 2 × 1.5 mm² (8Pr)	13.30	150/250 V (≤75 nF/km)	−40…+90 °C

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

Standards and approvals

- DIN 89159 / IEC 60092-376 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/fm2xch-fm2xch-tp-150-250-v-din-89159

Typical values for this cable type, based on DIN 89159 & IEC 60092-376 / 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.