marine & naval control cable

HF-MPYC / HF-MPYCY & HF-MPYCYS 250 V (JIS C 3410)

HF-MPYC / HF-MPYCY & HF-MPYCYS 250 V JIS C 3410 Halogen-Free Shipboard

JIS C 3410 / IEC 60092-353 · 150/250 V · Marine & naval control cable



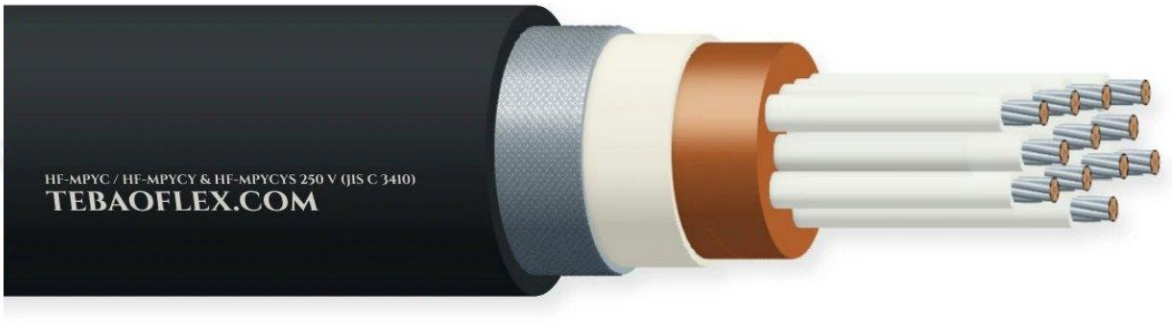
JIS C 3410 / IEC 60092-353 | **150/250 V (-40 to +90 °C)** | **SHF1 Zero-Halogen Outer Sheath (HF-.**

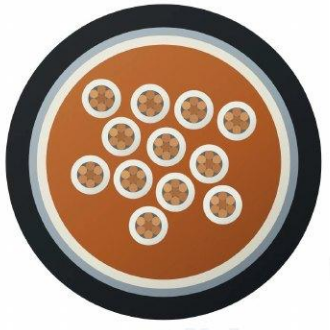
Application

HF-MPYC, HF-MPYCY, HF-MPYCS & HF-MPYCYS 150/250 V (JIS C 3410) Halogen-Free EPR/XLPE-Insulated Multi-Core Screened & Braided-Armoured SHF1 Shipboard Control Cable (JIS C 3410 / IEC 60092-353, 150/250 V, -40 to +90 °C).

Typical uses: Naval Frigate, Destroyer & Submarine Systems, Shipboard Propulsion & Auxiliary Control, Offshore Drilling Rig Control Rooms, Marine Switchgear & Console Interconnects

Construction





Cross-section, not to scale

1. Tinned Copper Control Cores (12×1.5 mm²)
2. Number-Printed HF-EPR/XLPE Insulation
3. Copper Tape Electrostatic Screen (S)
4. Galvanized Steel Wire Braid Armour (C)
5. SHF1 Zero-Halogen Outer Sheath (HF-...Y)

Technical data

Typical values

Rated voltage / transmission duty	150/250 V (JIS C 3410:2018 & IEC 60092-353 / IEC 60092-376)	**Core / conductor construction**	Tinned Copper Control Cores (12×1.5 mm²) — 12 stranded tinned copper conductors (2 to 60 cores available)
Primary dielectric / buffering	Number-Printed HF-EPR/XLPE Insulation — White halogen-free cross-linked insulation with clear number markings	**Continuous operating temperature**	−40…+90 °C (shipboard & offshore duty)
Short-circuit / peak thermal rating	Verified thermal stability per JIS C 3410:2018 & IEC 60092-353 / IEC 60092-376	**Storage & transport temperature**	−40…+80 °C on export wooden/steel drum
Outer protection / armouring	SHF1 Zero-Halogen Outer Sheath (HF-…Y) — Low-smoke zero-halogen polyolefin outer jacket	**Minimum bending radius**	6 × OD
Armour, screen & mechanical duty	Galvanized Steel Wire Braid Armour (C) — Braided galvanized steel wire mechanical armour	**Flame, fire & smoke performance**	Qualified for marine flame-retardance and low-smoke zero-halogen / fire safety per JIS C 3410:2018 & IEC 60092-353 / IEC 60092-376
Oil, drilling mud & seawater resistance	Resistant to marine fuel/lube oils, salt mist and offshore fluids per JIS C 3410:2018 & IEC 60092-353 / IEC 60092-376	**RoHS & REACH compliance**	RoHS 2 (2011/65/EU + 2015/863) & REACH SVHC compliant
Standards	JIS C 3410:2018 & IEC 60092-353 / IEC 60092-376		

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
HF-MPYC / HF-MPYCY & HF-MPYCYS 250 V (JIS C 3410) Construction Schedule (−40…+90 °C) 3 sizes						
☐ **HF-MPYC 4G2.5 mm²**	**4 × 2.5 mm² (or 4C × 14 AWG)**	**IEC 60228 Class 2/5 Cu/SnCu**	**13.2**	**275**	**1.5**	**80**
☐ **HF-MPYC 7G2.5 mm²**	**7 × 2.5 mm² (or 7C × 14 AWG)**	**IEC 60228 Class 2/5 Cu/SnCu**	**15.8**	**415**	**2.6**	**95**
☐ **HF-MPYC 12G1.5 mm²**	**12 × 1.5 mm² (or 12C × 16 AWG)**	**IEC 60228 Class 2/5 Cu/SnCu**	**17.4**	**495**	**2.7**	**105**

– Custom core cross-sections, pair/fibre counts, armour grades and factory drum lengths available per JIS C 3410:2018 & IEC 60092-353 / IEC 60092-376.

Electrical, optical & thermal parameters

3 sizes

Configuration	Max. DC R_{20} / Atten. Ω/km or dB/km	Rating / Impedance	Operating temp.
4 × 2.5 mm² (or 4C × 14 AWG)	**7.98**	**150/250 V (26 A)**	**−40…+90 °C**
7 × 2.5 mm² (or 7C × 14 AWG)	**7.98**	**150/250 V (21 A)**	**−40…+90 °C**
12 × 1.5 mm² (or 12C × 16 AWG)	**13.30**	**150/250 V (14 A)**	**−40…+90 °C**

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

Standards and approvals

- JIS C 3410 / IEC 60092-353 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/hf-mpyc-hf-mpycy-hf-mpycys-250-v-jis-c-3410

Typical values for this cable type, based on JIS C 3410:2018 & IEC 60092-353 / IEC 60092-376. Values for your order are confirmed in the quotation. Subject to change without notice. Jiangsu Tebaoflex Special Cable Co., Ltd., Taicang, Jiangsu, China.