marine & offshore instrumentation cable

HF-TTYC & HF-TTYCYS / HF-TTYCSLA 250 V (JIS C 3410)

HF-TTYC & HF-TTYCYS / HF-TTYCSLA 250 V JIS C 3410 Halogen-Free Shipboa

JIS C 3410 / IEC 60092-376 · 150/250 V · Marine & offshore instrumentation cable



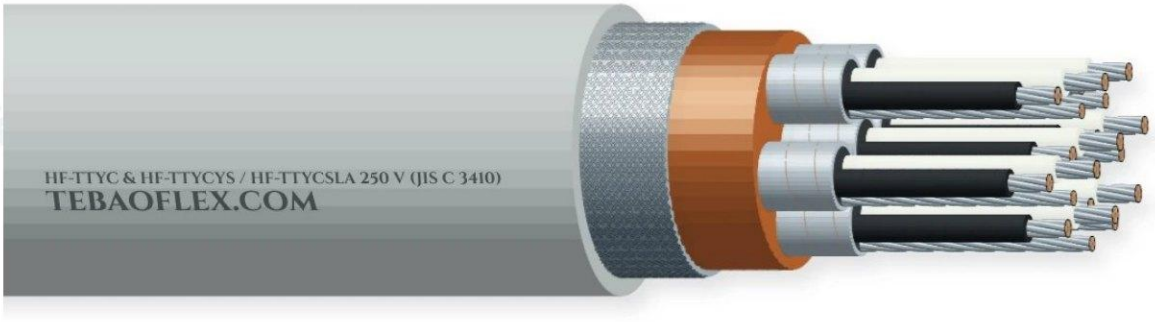
JIS C 3410 / IEC 60092-376 | 150/250 V (-40 to +90 °C) | SHF1 Halogen-Free Outer Sheath (HF-.

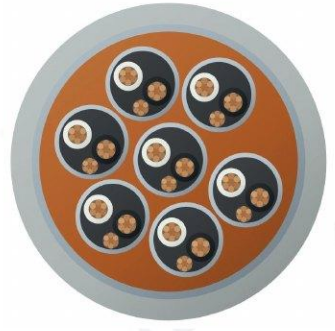
Application

HF-TTYC & HF-TTYCYS / HF-TTYCSLA 250 V JIS C 3410 Halogen-Free Shipboard Instrumentation Cable (JIS C 3410 / IEC 60092-376) engineered for 150/250 V service across -40 to +90 °C (min. bend radius 6 × OD).

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. Tinned Copper Twisted Pairs (7×2×0.75 mm
2. Individual & Collective Screens (S / SLA
3. Galvanized Steel Wire Braid Armour (C)
4. SHF1 Halogen-Free Outer Sheath (HF-...Y)

Technical data

Typical values

Rated voltage / transmission duty	150/250 V (JIS C 3410:2018 & IEC 60092-376 / IEC 60332-3-22 Cat. A)	**Core / conductor construction**	Tinned Copper Twisted Pairs (7×2×0.75 mm²) — Stranded tinned copper with Black/White HF-EPR/XLPE insulation
Primary dielectric / buffering	Individual & Collective Screens (S / SLA) — Individual Al/PET pair foil + drain (SLA) and collective copper tape (S)	**Continuous operating temperature**	−40…+90 °C (shipboard & offshore duty)
Short-circuit / peak thermal rating	Verified thermal stability per JIS C 3410:2018 & IEC 60092-376 / IEC 60332-3-22 Cat. A	**Storage & transport temperature**	−40…+80 °C on export wooden/steel drum
Outer protection / armouring	SHF1 Halogen-Free 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) — High-coverage galvanized steel wire braid armour	**Flame, fire & smoke performance**	Qualified for marine flame-retardance and low-smoke zero-halogen / fire safety per JIS C 3410:2018 & IEC 60092-376 / IEC 60332-3-22 Cat. A
Oil, drilling mud & seawater resistance	Resistant to marine fuel/lube oils, salt mist and offshore fluids per JIS C 3410:2018 & IEC 60092-376 / IEC 60332-3-22 Cat. A	**RoHS & REACH compliance**	RoHS 2 (2011/65/EU + 2015/863) & REACH SVHC compliant
Standards	JIS C 3410:2018 & IEC 60092-376 / IEC 60332-3-22 Cat. A		

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-TTYC & HF-TTYCYS / HF-TTYCSLA 250 V (JIS C 3410) Construction Schedule (−40…+90 °C) 3 sizes						
☐ **HF-TTYC 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**
☐ **HF-TTYC 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**
☐ **HF-TTYC 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 JIS C 3410:2018 & IEC 60092-376 / IEC 60332-3-22 Cat. A.

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

- JIS C 3410 / 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/hf-ttyc-hf-ttycys-hf-ttycsla-250-v-jis-c-3410

Typical values for this cable type, based on JIS C 3410:2018 & IEC 60092-376 / IEC 60332-3-22 Cat. A. Values for your order are confirmed in the quotation. Subject to change without notice. Jiangsu Tebaoflex Special Cable Co., Ltd., Taicang, Jiangsu, China.