



JIS C 3410 0.6/1 kV Marine Shipboard Power Cables

DPYC / TPYC / FPYC / 5PYC / 6PYC

JIS Braid-Armoured Shipboard

JIS C 3410 0.6/1 kV galvanized steel or copper wire-braid armoured ('C') EP-rubber marine



JIS C 3410

0.6/1 kV

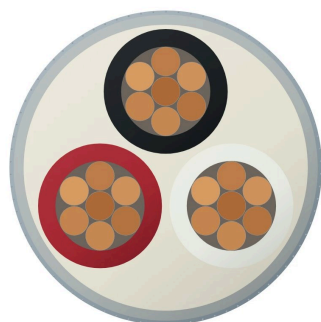
-25 to +90 °C

Application

DPYC / TPYC / FPYC / 5PYC / 6PYC is a series of wire-braid armoured marine shipboard power cables manufactured to JIS C 3410 for 0.6/1 kV AC vessels, tankers, bulk carriers, and offshore units. Over the +90 °C EP-rubber insulated ('P') cores and flame-retardant

Typical uses: Marine Engine Room & Machinery Space Feeders, Shipboard Pump, Compressor & Fan Motors, Wheelhouse & Radar Zone Non-Magnetic Runs

Construction



Cross-section, not to scale

1	Conductor	JIS C 3410
2	Insulation	JIS C 3410
3	Sheath	JIS C 3410
4	Armour	JIS C 3410

Technical data

Typical values

Rated voltage (U0/U)	0.6/1 kV	Max. operating voltage	1.2 kV
Dielectric test voltage	3500 V AC / 5 min (JIS C 3410)	Insulation resistance	≥ 300 MΩ·km at +20 °C
Operating temperature range	-25 °C to +90 °C	Dynamic / flexing temperature	-15 °C to +90 °C
Max. short-circuit temperature	+250 °C	Min. bend radius (fixed)	6 × D
Min. bend radius (flexing)	10 × D	Max. tensile pulling load	50 N/mm ²
Vibration & mechanical duty	Fixed marine engine-room & bulkhead ladder routing	Flame retardancy	IEC 60332-1-2 & IEC 60332-3-22 Category A bunched flame retardant
Oil & fluid resistance	Marine diesel, lubricating oil & hydraulic fluid resistant	UV, weather & ozone	Anti-corrosive painted wire braid resists marine salt-air and engine-room heat
Chemical & environmental	Protected against rodent attack, mechanical crush, vibration abrasion and bilge fumes	Standards	JIS C 3410 (2018) — Cables and flexible cords for electrical equipment of ships (Wire-braid armoured Type -PYC)

Sizes

8 standard constructions

Tick the sizes you need and send this page to info@tebaoflex.com or WhatsApp +86 185 9591 3361.

Designation	Size / Configuration	Stranding · Wall	Nom. OD mm	Copper kg/km	Total mass ≈ kg/km	Min. bend R mm
DPYC / TPYC / FPYC / SPYC / 6PYC size schedule 8 sizes						
☐ DPYC / TPYC / FPYC / SPYC / 6PYC DPYC-2.5 (2×2.5 mm ²)	DPYC-2.5 (2×2.5 mm ²)	7/0.67 · 1.0 mm	12.30	142.1	245.0	73.8
☐ DPYC / TPYC / FPYC / SPYC / 6PYC TPYC-2.5 (3×2.5 mm ²)	TPYC-2.5 (3×2.5 mm ²)	7/0.67 · 1.0 mm	12.90	162.4	280.0	77.4
☐ DPYC / TPYC / FPYC / SPYC / 6PYC TPYC-6 (3×6 mm ²)	TPYC-6 (3×6 mm ²)	7/1.04 · 1.0 mm	15.10	243.6	420.0	90.6
☐ DPYC / TPYC / FPYC / SPYC / 6PYC TPYC-14 (3×14 mm ²)	TPYC-14 (3×14 mm ²)	7/1.60 · 1.0 mm	18.60	423.4	730.0	111.6
☐ DPYC / TPYC / FPYC / SPYC / 6PYC TPYC-38 (3×38 mm ²)	TPYC-38 (3×38 mm ²)	19/1.60 · 1.2 mm	25.80	957.0	1,650.0	154.8
☐ DPYC / TPYC / FPYC / SPYC / 6PYC FPYC-14 (4×14 mm ²)	FPYC-14 (4×14 mm ²)	7/1.60 · 1.0 mm	20.40	527.8	910.0	122.4
☐ DPYC / TPYC / FPYC / SPYC / 6PYC SPYC-2.5 (5×2.5 mm ²)	SPYC-2.5 (5×2.5 mm ²)	7/0.67 · 1.0 mm	15.00	223.3	385.0	90.0
☐ DPYC / TPYC / FPYC / SPYC / 6PYC 6PYC-2.5 (6×2.5 mm ²)	6PYC-2.5 (6×2.5 mm ²)	7/0.67 · 1.0 mm	16.20	258.1	445.0	97.2

– Dimensions and tolerances conform to JIS C 3410.

Electrical data

8 sizes

Size / Configuration	Max. DC R @ 20 °C Ω/km	Current in air A	Installed / duty A
DPYC-2.5 (2×2.5 mm ²)	7.410	36	29
TPYC-2.5 (3×2.5 mm ²)	7.410	30	24
TPYC-6 (3×6 mm ²)	3.080	52	42
TPYC-14 (3×14 mm ²)	1.340	87	70
TPYC-38 (3×38 mm ²)	0.495	160	128
FPYC-14 (4×14 mm ²)	1.340	87	70
SPYC-2.5 (5×2.5 mm ²)	7.410	25	20
6PYC-2.5 (6×2.5 mm ²)	7.410	23	18

– Reference ampacities at +30 °C ambient; apply duty-cycle or grouping correction factors per standard.

Standards and approvals

- ✓ JIS C 3410 (0.6/1 kV DPYC, TPYC, FPYC, 5PYC, 6PYC); IEC 60092-353
- ✓ IEC 60092-353 (2016)
- ✓ RoHS 3 & REACH Compliant

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

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Email

info@tebaoflex.com

Web

tebaoflex.com/cables/jis-braid-armoured-shipboard-power-cable



Typical values for this cable type, based on JIS C 3410. Values for your order are confirmed in the quotation. Subject to change without notice. Jiangsu Tebaoflex Special Cable Co., Ltd., Taicang, Jiangsu, China.