



JIS C 3410 0.6/1 kV Marine Shipboard Power Cables

DPYCY / TPYCY / FPYCY / 5PYCY / 6PYCY

JIS Oversheathed Armoured

JIS C 3410 0.6/1 kV wire-braid armoured and PVC oversheathed ('CY') heavy-duty marine ship



JIS C 3410

0.6/1 kV

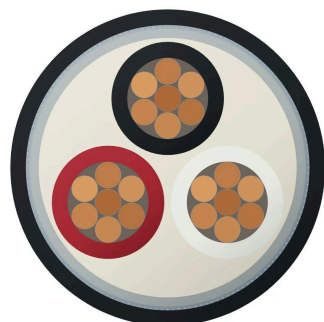
-25 to +90 °C

Application

DPYCY / TPYCY / FPYCY / 5PYCY / 6PYCY is a heavy-duty armoured and oversheathed marine shipboard power cable series built to JIS C 3410 for 0.6/1 kV AC vessels, offshore rigs, and exposed marine decks. Combining +90 °C EP-rubber insulated cores ('P'), an inner

Typical uses: Open Weather Deck & Mooring Winch Feeders, Wet Bilge, Ballast & Cargo Pump Rooms, Shipboard Heavy Auxiliary & Thruster Power

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
5	Sheath	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 weather-deck, bilge & engine-room routing	Flame retardancy	IEC 60332-1-2 & IEC 60332-3-22 Category A bunched flame retardant
Oil & fluid resistance	Marine fuel oil, hydraulic fluid, bilge oil & chemical splash resistant	UV, weather & ozone	UV, seawater spray, salt-fog & exposed weather-deck resistant
Chemical & environmental	Impervious outer PVC oversheath prevents salt-water corrosion of the underlying wire-braid armour	Standards	JIS C 3410 (2018) — Cables and flexible cords for electrical equipment of ships (Armoured and oversheathed Type - PYCY)

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
DPYCY / TPYCY / FPYCY / SPYCY / 6PYCY size schedule 8 sizes						
☐ DPYCY / TPYCY / FPYCY / SPYCY / 6PYCY DPYCY-2.5 (2×2.5 mm ²)	DPYCY-2.5 (2×2.5 mm ²)	7/0.67 · 1.0 mm	14.50	188.5	325.0	87.0
☐ DPYCY / TPYCY / FPYCY / SPYCY / 6PYCY TPYCY-2.5 (3×2.5 mm ²)	TPYCY-2.5 (3×2.5 mm ²)	7/0.67 · 1.0 mm	15.10	211.7	365.0	90.6
☐ DPYCY / TPYCY / FPYCY / SPYCY / 6PYCY TPYCY-6 (3×6 mm ²)	TPYCY-6 (3×6 mm ²)	7/1.04 · 1.0 mm	17.50	310.3	535.0	105.0
☐ DPYCY / TPYCY / FPYCY / SPYCY / 6PYCY TPYCY-14 (3×14 mm ²)	TPYCY-14 (3×14 mm ²)	7/1.60 · 1.0 mm	21.20	519.1	895.0	127.2
☐ DPYCY / TPYCY / FPYCY / SPYCY / 6PYCY TPYCY-38 (3×38 mm ²)	TPYCY-38 (3×38 mm ²)	19/1.60 · 1.2 mm	29.00	1,131.0	1,950.0	174.0
☐ DPYCY / TPYCY / FPYCY / SPYCY / 6PYCY FPYCY-14 (4×14 mm ²)	FPYCY-14 (4×14 mm ²)	7/1.60 · 1.0 mm	23.20	640.9	1,105.0	139.2
☐ DPYCY / TPYCY / FPYCY / SPYCY / 6PYCY SPYCY-2.5 (5×2.5 mm ²)	SPYCY-2.5 (5×2.5 mm ²)	7/0.67 · 1.0 mm	17.40	284.2	490.0	104.4
☐ DPYCY / TPYCY / FPYCY / SPYCY / 6PYCY 6PYCY-2.5 (6×2.5 mm ²)	6PYCY-2.5 (6×2.5 mm ²)	7/0.67 · 1.0 mm	18.80	327.7	565.0	112.8

– 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
DPYCY-2.5 (2×2.5 mm ²)	7.410	36	29
TPYCY-2.5 (3×2.5 mm ²)	7.410	30	24
TPYCY-6 (3×6 mm ²)	3.080	52	42
TPYCY-14 (3×14 mm ²)	1.340	87	70
TPYCY-38 (3×38 mm ²)	0.495	160	128
FPYCY-14 (4×14 mm ²)	1.340	87	70
SPYCY-2.5 (5×2.5 mm ²)	7.410	25	20
6PYCY-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 DPYCY, TPYCY, FPYCY, 5PYCY, 6PYCY); 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

+86 185 9591 3361

Email

info@tebaoflex.com

Web

tebaoflex.com/cables/jis-oversheathed-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.