



JIS C 3410 0.6/1 kV Marine Shipboard Power Cables

DPY / TPY / FPY / 5PY / 6PY

JIS Unarmoured Shipboard Power Cable

JIS C 3410 0.6/1 kV unarmoured EP-rubber insulated, PVC-sheathed 2- to 6-core marine shipb

JIS C 3410

0.6/1 kV

-25 to +90 °C

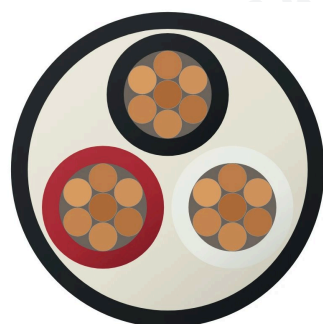
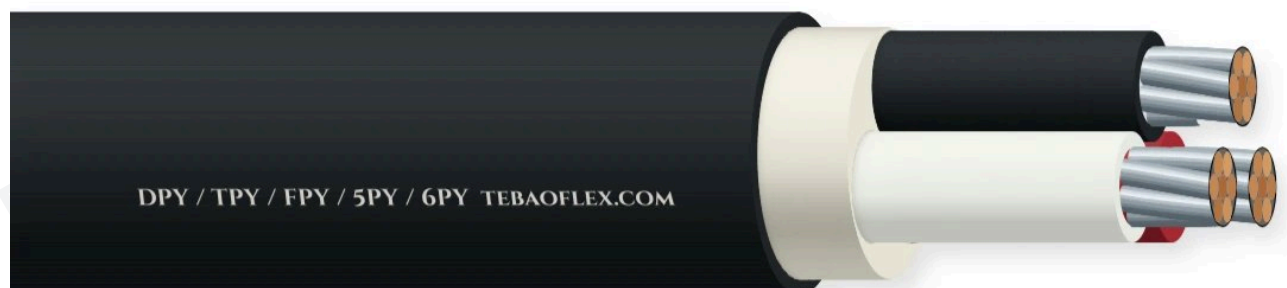


Application

DPY / TPY / FPY / 5PY / 6PY is a series of unarmoured marine shipboard power and lighting cables manufactured in accordance with JIS C 3410 for 0.6/1 kV AC marine vessels, offshore platforms, and shipyard electrical installations. Constructed with stranded ann

Typical uses: Shipboard Accommodation & Lighting Feeders, Marine Switchboard & Control Room Interconnects, Multi-Core Auxiliary & Pump Control Power (FPY / 5PY / 6PY)

Construction



Cross-section, not to scale

1	Conductor	JIS C 3410
2	Insulation	JIS C 3410
3	Tape	JIS C 3410
4	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)	4 × D (D ≤ 25 mm) / 6 × D (D > 25 mm)
Min. bend radius (flexing)	8 × D	Max. tensile pulling load	50 N/mm ²
Vibration & mechanical duty	Fixed shipboard cable tray & bulkhead routing	Flame retardancy	IEC 60332-1-2 & IEC 60332-3-22 Category A bunched flame retardant
Oil & fluid resistance	Marine fuel oil, lubricating oil & bilge moisture resistant	UV, weather & ozone	Salt-mist, marine humidity & weather resistant
Chemical & environmental	Resistant to marine saline atmosphere, condensation and engine-room oil mist	Standards	JIS C 3410 (2018) — Cables and flexible cords for electrical equipment of ships

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
DPY / TPY / FPY / SPY / 6PY size schedule 8 sizes						
☐ DPY / TPY / FPY / SPY / 6PY DPY-2.5 (2×2.5 mm ²)	DPY-2.5 (2×2.5 mm ²)	7/0.67 · 1.0 mm	10.50	84.1	145.0	63.0
☐ DPY / TPY / FPY / SPY / 6PY TPY-2.5 (3×2.5 mm ²)	TPY-2.5 (3×2.5 mm ²)	7/0.67 · 1.0 mm	11.10	101.5	175.0	66.6
☐ DPY / TPY / FPY / SPY / 6PY TPY-6 (3×6 mm ²)	TPY-6 (3×6 mm ²)	7/1.04 · 1.0 mm	13.30	168.2	290.0	79.8
☐ DPY / TPY / FPY / SPY / 6PY TPY-14 (3×14 mm ²)	TPY-14 (3×14 mm ²)	7/1.60 · 1.0 mm	16.80	319.0	550.0	100.8
☐ DPY / TPY / FPY / SPY / 6PY TPY-38 (3×38 mm ²)	TPY-38 (3×38 mm ²)	19/1.60 · 1.2 mm	23.60	759.8	1,310.0	141.6
☐ DPY / TPY / FPY / SPY / 6PY FPY-6 (4×6 mm ²)	FPY-6 (4×6 mm ²)	7/1.04 · 1.0 mm	14.50	211.7	365.0	87.0
☐ DPY / TPY / FPY / SPY / 6PY SPY-2.5 (5×2.5 mm ²)	SPY-2.5 (5×2.5 mm ²)	7/0.67 · 1.0 mm	13.20	147.9	255.0	79.2
☐ DPY / TPY / FPY / SPY / 6PY 6PY-2.5 (6×2.5 mm ²)	6PY-2.5 (6×2.5 mm ²)	7/0.67 · 1.0 mm	14.40	174.0	300.0	86.4

– 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
DPY-2.5 (2×2.5 mm ²)	7.410	36	29
TPY-2.5 (3×2.5 mm ²)	7.410	30	24
TPY-6 (3×6 mm ²)	3.080	52	42
TPY-14 (3×14 mm ²)	1.340	87	70
TPY-38 (3×38 mm ²)	0.495	160	128
FPY-6 (4×6 mm ²)	3.080	52	42
SPY-2.5 (5×2.5 mm ²)	7.410	25	20
6PY-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 DPY, TPY, FPY, 5PY, 6PY); IEC 60092-350 / 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-unarmoured-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.