



power connection cable series

SPYC LV

JIS Single-Core Shipboard Power Cable

JIS C 3410 0.6/1 kV single-core EPR non-magnetic bronze-braided shipboard power cable



JIS C 3410 SPYC

0.6/1 kV Single-Core

Non-Magnetic Bronze Braid

Application

SPYC LV (JIS C 3410) Single-Core Low-Voltage Shipboard Power Cable (0.6/1 kV) engineered with a stranded tinned annealed copper conductor (1.5 to 325 mm²), 90 °C EP-rubber (EPR) insulation, non-magnetic phosphor-bronze/brass wire.

Typical uses: Commercial Shipbuilding (Bulk, Tanker, Container), Marine Main Switchboard & Alternator Feeders, Bow Thruster & Cargo Pump Motor Drives, Ship Repair & ClassNK / ABS / DNV Retrofits, Offshore Support Vessels & Floating Docks

Construction



Cross-section, not to scale

- 1 Stranded tinned annealed copper conductor ('S')
- 2 Ethylene Propylene Rubber ('P') primary insulation
- 3 Flame-retardant Vinyl ('Y') inner sheath
- 4 Non-magnetic phosphor-bronze/brass wire braid ('C')
- 5 Protective marine paint or vinyl oversheath ('-Y')

IEC 60332-3-22 Cat A
bunched flame retardant

Technical data

Typical values

Rated voltage (Uo/U)	0.6 / 1 kV AC (600 / 1000 V)	AC dielectric test voltage	3,500 V AC rms for 5 minutes
Max. DC resistance @ 20 °C	0.391 Ω/km (50) · 0.195 Ω/km (95) · 0.126 Ω/km (150) · 0.0762 Ω/km (240)	Insulation resistance @ 20 °C	≥ 300 to 600 MΩ·km
Max. conductor operating temp.	+90 °C continuous (EP-rubber insulation)	Short-circuit temperature	+250 °C (max. 5 s)
Min. installation ambient	-25 °C fixed marine service	Min. bend radius	6 × OD (overall diameter ≤ 25 mm) · 8 × OD (> 25 mm)
Armour wire metallurgy	Non-magnetic copper alloy (phosphor bronze / brass) for AC	Trefoil / flat cleat spacing	Designed for 3 × 1C trefoil or flat spaced cable ladder cleats
Bunched flame test	IEC 60332-3-22 Category A	Oil & salt mist resistance	Resistant to marine fuel oil, lube oil & engine-room bilge
Vibration resistance	Braided armour absorbs ship hull and diesel engine vibration	Standards	JIS C 3410 & IEC 60092-350 / 60092-353

Sizes

6 standard constructions

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

JIS designation	Conductor size	Outer Ø ≈ mm	Weight ≈ kg/km	Max. DC R Ω/km	Ampacity 45°C A
JIS C 3410 SPYC Single-Core 0.6/1 kV Shipboard Power Cables 6 sizes					
☐ SPYC-50 (1×50 mm²)	1 × 50 mm² Tinned Cu	16.5	740	0.3910	180
☐ SPYC-95 (1×95 mm²)	1 × 95 mm² Tinned Cu	21.0	1,290	0.1950	280
☐ SPYC-150 (1×150 mm²)	1 × 150 mm² Tinned Cu	25.0	1,920	0.1260	375
☐ SPYC-185 (1×185 mm²)	1 × 185 mm² Tinned Cu	27.5	2,350	0.1000	430
☐ SPYC-240 (1×240 mm²)	1 × 240 mm² Tinned Cu	30.8	3,020	0.0762	515
☐ SPYC-325 (1×325 mm²)	1 × 325 mm² Tinned Cu	35.0	4,010	0.0565	625

– Continuous current ratings are based on +45 °C shipboard ambient and +90 °C EPR conductor temperature per JIS C 3410 / IEC 60092-352.

Standards and approvals

- ✓ JIS C 3410 & IEC 60092-353
- ✓ ClassNK / ABS / LR / DNV / CCS
- ✓ IMO SOLAS Asbestos-Free

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-single-core-shipboard-power-cable



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