



Control & signal cables

MPY

Shipboard Control Cable

JIS C 3410 250 V unarmoured EP-rubber / PVC marine shipboard control cable

JIS C 3410 Marine

250 V · 90 °C EP Rubber

IEC 60332-3-22 Cat. A

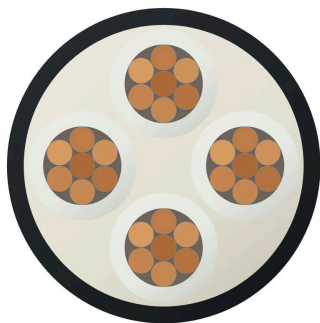
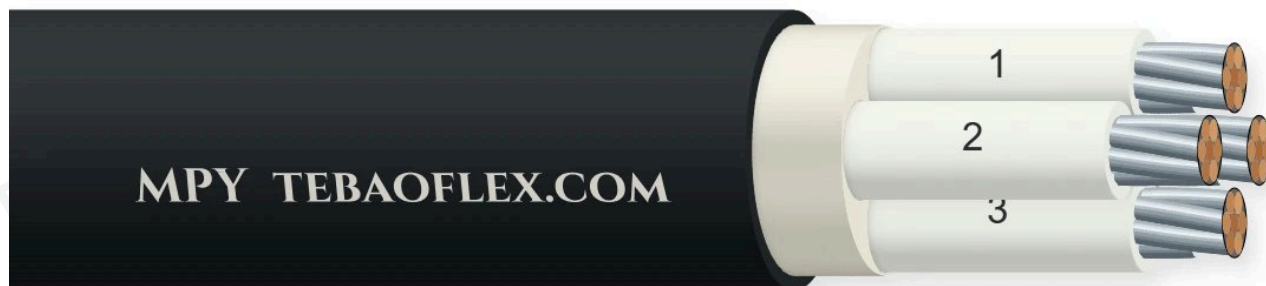


Application

Unarmoured 250 V marine shipboard control and signal cable built to JIS C 3410 with stranded annealed copper conductors (0.75–2.5 mm²), +90 °C cross-linked ethylene-propylene rubber (EPR) core insulation and flame-retardant vinyl (PVC) outer sheath.

Typical uses: Commercial shipbuilding (NK, ABS, DNV, LR, CCS), Wheelhouse & bridge navigation consoles, Engine control room (ECR) internal wiring, Shipboard alarm, monitoring & telegraph circuits, Offshore accommodation modules

Construction



Cross-section, not to scale

1	Stranded annealed copper conductor	JIS C 3410 / IEC 60228 Cl. 2
2	EP-rubber core insulation (P)	JIS C 3410 · IEC 60092-360 EPR
3	Cabled core bundle + binder tape	JIS C 3410
4	Flame-retardant vinyl sheath (Y)	JIS C 3410 · IEC 60332-3-22 Cat. A

Technical data

Typical values

Rated voltage	250 V (150/250 V AC)	AC test voltage (50/60 Hz)	1500 V AC for 5 minutes
Max. DC conductor resistance (20 °C)	1.25 mm ² : ≤ 15.0 Ω/km · 1.5 mm ² : ≤ 12.1 Ω/km · 2.5 mm ² : ≤ 7.41 Ω/km	Insulation resistance (20 °C)	≥ 1000 MΩ·km (EP rubber)
Max. conductor temperature	+90 °C continuous operation	Short-circuit temperature	+250 °C max. (5 s)
Fixed ambient range	–25 °C to +80 °C (minimum installation –15 °C)	Min. bending radius, fixed	4 × overall diameter
Conductor construction	7-wire circular stranded annealed copper (0.75, 1.25, 1.5, 2.0, 2.5 mm ²)	Armour	Unarmoured (select MPYC or MPYCY for machinery spaces)
Bunched flame test	IEC 60332-3-22 Category A & IEC 60332-1-2 vertical flame retardant	Marine environment	Resistant to salt mist, humidity and marine lubricating oils
Standards	JIS C 3410 (Japanese Industrial Standard for Shipboard Cables)	Standard packing	Heat-treated ISPM-15 timber drums with sealed cable ends

Sizes

22 standard constructions

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

Order designation	Cores × mm ²	AWG ≈	Outer Ø min mm	Outer Ø max mm	Copper kg/km	Weight ≈ kg/km	Min. bend R mm
0.75 mm ² JIS C 3410 MPY Control Configurations (250 V) 5 sizes							
☐ MPY 2×0.75	2×0.75	18	7.0	7.6	14	72	30
☐ MPY 4×0.75	4×0.75	18	8.1	8.8	28	104	35
☐ MPY 7×0.75	7×0.75	18	9.6	10.4	50	152	42
☐ MPY 12×0.75	12×0.75	18	12.3	13.4	86	248	54
☐ MPY 19×0.75	19×0.75	18	14.5	15.8	136	362	63
1.25 mm ² JIS C 3410 MPY Control Configurations (250 V) 6 sizes							
☐ MPY 2×1.25	2×1.25	16	7.7	8.4	24	92	34
☐ MPY 4×1.25	4×1.25	16	9.0	9.8	48	136	39
☐ MPY 7×1.25	7×1.25	16	10.7	11.6	84	204	46
☐ MPY 12×1.25	12×1.25	16	13.9	15.1	144	338	60
☐ MPY 19×1.25	19×1.25	16	16.4	17.8	228	498	71
☐ MPY 27×1.25	27×1.25	16	19.5	21.2	324	695	85
1.50 mm ² JIS C 3410 MPY Control Configurations (250 V) 7 sizes							
☐ MPY 2×1.5	2×1.5	16	8.0	8.7	28	100	35
☐ MPY 4×1.5	4×1.5	16	9.4	10.2	57	150	41
☐ MPY 7×1.5	7×1.5	16	11.1	12.1	100	228	48
☐ MPY 12×1.5	12×1.5	16	14.5	15.8	172	378	63
☐ MPY 19×1.5	19×1.5	16	17.1	18.6	273	558	74
☐ MPY 27×1.5	27×1.5	16	20.3	22.1	388	780	88
☐ MPY 37×1.5	37×1.5	16	22.8	24.8	532	1,040	99
2.50 mm ² JIS C 3410 MPY Control Configurations (250 V) 4 sizes							
☐ MPY 2×2.5	2×2.5	14	8.9	9.7	48	132	39
☐ MPY 4×2.5	4×2.5	14	10.5	11.4	96	206	46
☐ MPY 7×2.5	7×2.5	14	12.5	13.6	168	318	54
☐ MPY 12×2.5	12×2.5	14	16.4	17.8	288	530	71

– Dimensions and weights are typical values per JIS C 3410 / IEC 60092-376. Minimum fixed bending radius shown is 4 × OD.

Electrical & current ratings

4 sizes

Cross-section mm ²	AWG ≈	Max. DC resistance 20 °C, Ω/km	Single pair/core 30 °C, A	Multi-core bundle 30 °C, A
0.75	18	26	12.0	10.0
1.25	16	15.6	18.0	15.0
1.5	16	13.3	23.0	18.0
2.5	14	7.98	30.0	25.0

– Current ratings at 30 °C ambient in free air per DIN VDE 0298-4 / DIN VDE 0891-1. Apply grouping derating factors for multi-core control and signal bundles.

Standards and approvals

✓ JIS C 3410 / IEC 60092-376

✓ 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

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Email

info@tebaoflex.com

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tebaoflex.com/cables/mpy-shipboard-control-cable



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