



Control & signal cables

MPYCY

Oversheathed Shipboard Control Cable

JIS C 3410 250 V wire-braid armoured & PVC-oversheathed marine control cable

JIS C 3410 Marine

Braid Armour + PVC Oversheath

IEC 60332-3-22 Cat. A

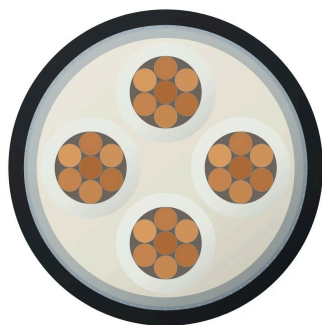


Application

Full-protection 250 V marine shipboard control cable to JIS C 3410 ('MPYCY') with 7-wire stranded copper conductors (0.75–2.5 mm²), +90 °C EP-rubber cores, PVC inner bedding, steel or copper wire braid armour and flame-retardant PVC oversheath.

Typical uses: Ship engine rooms, bilges & pump rooms, Deck machinery, davits & hatch-cover controls, LNG carriers, tankers & container vessels, Offshore jack-up rigs & FPSO topsides, Marine classification retrofits (NK, ABS, DNV, LR, CCS)

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	Vinyl inner sheath (Y)	JIS C 3410
4	Galvanised steel / copper wire braid (C)	JIS C 3410
5	Flame-retardant vinyl oversheath (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	Min. bending radius, fixed	6 × overall diameter
Double-sheathed armour	Inner PVC bedding + steel/Cu wire braid + outer PVC oversheath seals out bilge water and oil	Watertight gland fit	Smooth outer PVC oversheath seals cleanly in marine compression stuffing glands
Bunched flame test	IEC 60332-3-22 Category A & IEC 60332-1-2 vertical flame retardant	Oil, bilge & salt mist	Outer vinyl oversheath protects wire braid against diesel oil, hydraulic fluid and salt spray
Standards	JIS C 3410	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 MPYCY Armoured & Oversheathed (250 V) 5 sizes							
☐ MPYCY 2×0.75	2×0.75	18	10.3	11.2	14	178	67
☐ MPYCY 4×0.75	4×0.75	18	11.4	12.4	28	224	74
☐ MPYCY 7×0.75	7×0.75	18	12.9	14.0	50	294	84
☐ MPYCY 12×0.75	12×0.75	18	15.8	17.2	86	438	103
☐ MPYCY 19×0.75	19×0.75	18	18.0	19.6	136	598	118
1.25 mm ² JIS C 3410 MPYCY Armoured & Oversheathed (250 V) 6 sizes							
☐ MPYCY 2×1.25	2×1.25	16	11.0	12.0	24	208	72
☐ MPYCY 4×1.25	4×1.25	16	12.3	13.4	48	272	80
☐ MPYCY 7×1.25	7×1.25	16	14.0	15.2	84	365	91
☐ MPYCY 12×1.25	12×1.25	16	17.4	18.9	144	556	113
☐ MPYCY 19×1.25	19×1.25	16	20.1	21.8	228	775	131
☐ MPYCY 27×1.25	27×1.25	16	23.4	25.4	324	1,035	152
1.50 mm ² JIS C 3410 MPYCY Armoured & Oversheathed (250 V) 7 sizes							
☐ MPYCY 2×1.5	2×1.5	16	11.3	12.3	28	220	74
☐ MPYCY 4×1.5	4×1.5	16	12.7	13.8	57	290	83
☐ MPYCY 7×1.5	7×1.5	16	14.4	15.7	100	396	94
☐ MPYCY 12×1.5	12×1.5	16	18.0	19.6	172	608	118
☐ MPYCY 19×1.5	19×1.5	16	20.8	22.6	273	850	136
☐ MPYCY 27×1.5	27×1.5	16	24.2	26.3	388	1,140	158
☐ MPYCY 37×1.5	37×1.5	16	26.9	29.2	532	1,465	175
2.50 mm ² JIS C 3410 MPYCY Armoured & Oversheathed (250 V) 4 sizes							
☐ MPYCY 2×2.5	2×2.5	14	12.2	13.3	48	266	80
☐ MPYCY 4×2.5	4×2.5	14	13.8	15.0	96	362	90
☐ MPYCY 7×2.5	7×2.5	14	16.0	17.4	168	514	104
☐ MPYCY 12×2.5	12×2.5	14	20.1	21.8	288	798	131

– Dimensions and weights are typical values per JIS C 3410 / IEC 60092-376. Minimum fixed bending radius shown is 6 × 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

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Web

tebaoflex.com/cables/mpycy-oversheathed-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.