



MAP[®] MARINE FEEDER ARMOUR CABLE

This part of IEC 60092 is applicable to screened and unscreened cables for control, and instrumentation circuits on ships and offshore units.

The cables have extruded solid insulation with a voltage rating of 600V and are intended for fixed installations.

IEC 60092:2021 specifies the requirements for electrical, mechanical and particular characteristics of insulating and sheathing materials intended for use in shipboard and fixed and mobile offshore unit power, control, instrumentation and telecommunication cables.

IEC 60092 章節規範適用於船舶和海上裝置控制和儀表電路的屏蔽和非屏蔽電纜。電纜採用擠壓固體絕緣材料，額定電壓為 600V，用於固定安裝。

IEC 60092:2021 規定了用於船用和固定和移動海上單元電力、控制、儀器儀表和電信電纜的絕緣和護套材料的電氣、機械和特殊特性的要求。

產品規格表 DATA SHEET

MODEL	導體結構	絕緣厚度	總完成外徑	不鏽鋼鎧裝	安全電流表
MM ²	NO.X MM	INS THK	OVERALL DIA	ARMOUR	AMPERE(A)
38 MM ²	7 / 107 / 0.26mm	1.80 mm	13.50 mm	ST 0.19mm/24/10/10	145 A
50 MM ²	19 / 52 / 0.26mm	1.85 mm	15.60 mm	ST 0.19mm/24/10/10	205 A
60 MM ²	19 / 62 / 0.26mm	1.85 mm	16.60 mm	ST 0.19mm/24/10/10	237 A
80 MM ²	19 / 83 / 0.26mm	2.10 mm	18.20 mm	ST 0.19mm/24/10/12	280 A
100 MM ²	19 / 104 / 0.26mm	2.10 mm	19.70 mm	ST 0.19mm/24/10/12	332 A
125 MM ²	37/64/0.26mm	2.25 mm	22.3 mm	ST 0.19mm/48/10/10	385 A
150 MM ²	37/77/0.26mm	2.30 mm	24.0 mm	ST 0.19mm/48/10/10	412 A
200 MM ²	61/62/0.26mm	2.60 mm	27.5 mm	ST 0.19mm/48/10/10	503 A
250 MM ²	61/77/0.26mm	2.60 mm	29.9 mm	ST 0.19mm/48/12/12	565 A
325 MM ²	61/101/0.26mm	3.20 mm	34.6 mm	ST 0.19mm/48/12/12	630 A



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Introduction

This part of IEC 60092 is applicable to screened and unscreened cables for control and instrumentation circuits on ships and offshore units. The cables have extruded solid insulation with a voltage rating of 600V and are intended for fixed installations.

The various types of cables are given in Clause 8. The construction requirements and test methods are expected to comply with those indicated in IEC 60092-350, unless otherwise specified in this standard.

IEC 60092:2021 specifies the requirements for electrical, mechanical, and particular characteristics of insulating and sheathing materials intended for use in shipboard and fixed and mobile offshore unit power, control, instrumentation, and telecommunication cables.

General characteristics

- **Armour** : Stainless steel SUS 304 、 SUS 316 braided armour
- **Other approval** : RoHS Compliant
- **Electrical characteristics Test voltage** : 2000V
- **Flame retardant, test on bunched cables** : IEC 60332-3-24 / EN 60332-3-24
- **Flame retardant** : IEC 60332-1-2 / EN 60332-1-2 /NF C 32-070 test C2
- **Chemical behaviour** : Good resistance to acid and base
- **Resistance to water** : Type AD7 as per IEC 60529 without immersion of ends
- **Temperature measurement** : IEC 60584-1, IEC 60584-2, IEC 60584-3



Table 1. Color code Acc to DIN 47100

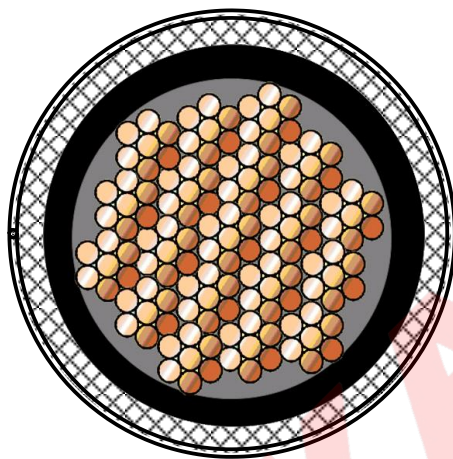
Core Identification	1	2	3	4	5	6	7	8	9	10
Insulation. color	Red	White	Black	Green	Yellow	Blue	Gray	Orange	Brown	Violet

說明:

導體:裸軟銅線/鍍錫銅線/錫銅合金 Bare Copper/Tinned Copper/ Tin-Alloy

絕緣體: EVA / EVM / EBA 披覆電纜。可區分為 90°C及 105°C之耐溫等級。

結構:如附表一。線材結構依需求使用包帶及填充物。



規格 mm ²	裸銅絞線 導體結構 NO./mm	絕緣體 厚度 mm	完成 外徑 mm	耐電壓 (A.C) KV/min	最大 導體電阻 (20°C) Ω/KM	最小 絕緣電阻 (20°C) MΩ-KM	安全 電流表 A
38	7/107/0.26	1.8	12.50	2.0/1	0.498	40	145
50	19/52/0.26	1.85	14.60	2.5/1	0.370	30	205
60	19/62/0.26	1.85	15.60	2.5/1	0.308	30	237
80	19/83/0.26	2.1	17.20	2.5/1	0.238	30	280
100	19/104/0.26	2.1	18.70	2.5/1	0.190	30	332
125	37/64/0.26	2.25	21.3	3.0/1	0.148	20	385
150	37/77/0.26	2.3	23.0	3.0/1	0.123	20	412
200	61/62/0.26	2.6	26.5	3.0/1	0.0929	20	503
250	61/77/0.26	2.6	28.9	3.0/1	0.0748	20	565
325	61/101/0.26	3.2	33.6	3.0/1	0.0570	20	630

