

## Silicoul Silicone Coated 3.7 kV Cable

Silicoul Silicone Coated Cable is a high quality grade of silicone coated cable made from a flexible tinned copper core, separating tape, silicone rubber and a special synthetic reinforcing braid as the final layer. It is commonly used for the wiring of rotating and static machines, alternators and transformers, as well as in the railway and power supply industries. This grade of cable is suitable for use in temperatures ranging from -60 to 180°C and is compatible with most impregnation varnish. Silicoul Cable has high mechanical strength, good resistance to thermal shock and weathering, as well as ozone, UV, and the corona effect.

### Technical Data:

Property:	Typical Value:
Colour	Brown
Class	180°C, Class H
Temperature Range	-60°C to 180°C continuous
Maximum Temperature	230°C peak
Working Voltage	4.2 kV
Test Voltage	10 kV
Bending Radius	5 x d approx.

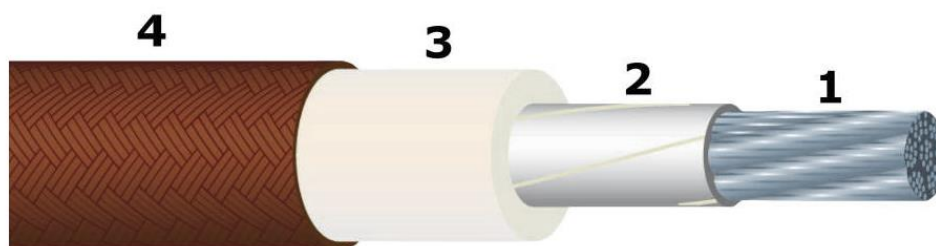
\*For maximum permissible current, please contact your nearest AG branch.

### Features and Benefits:

- Good resistance to Ozone, UV, and the corona effect
- Excellent aging and weathering resistance
- Broad temperature range
- Good resistance to thermal shock
- High mechanical strength
- Compatible to most impregnating varnishes
- Bending radius of  $\approx 5 \times d$

### Construction:

1. Tinned Copper Core, Class 5 - IEC 60228
2. Separating Tape
3. Silicone Rubber
4. Coated Synthetic reinforced Braid



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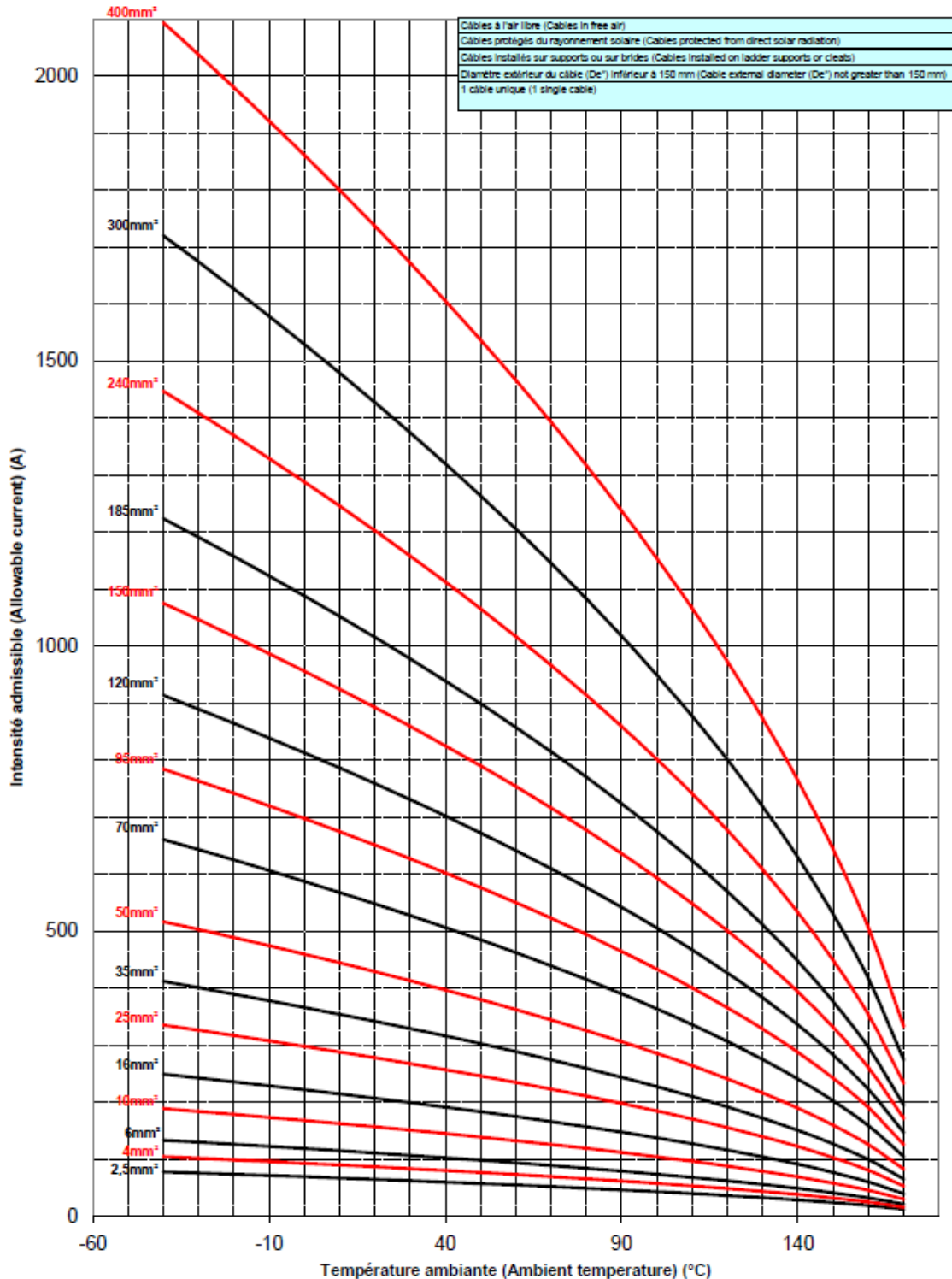
Phone: 1300 098 060

### Important

This information should not be treated as a substitute for specific technical advice. AG does not offer such advice and cannot warrant the performance or suitability of products for particular applications.

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### Allowable Current:



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**Core:****Insulated Wire:**

Nominal cross-section	Nominal stranding	Maximum linear resistance at 20°C	Nominal Outer Diameter	Approx. linear weight
2.5 mm <sup>2</sup> *	50 x 0.25	8.21 Ω/km	6.2 mm	57 kg/km
4 mm <sup>2</sup> *	56 x 0.30	5.09 Ω/km	6.8 mm	75 kg/km
6 mm <sup>2</sup>	84 x 0.30	3.39 Ω/km	7.8 mm	102 kg/km
10 mm <sup>2</sup>	80 x 0.40	1.95 Ω/km	9.0 mm	150 kg/km
16 mm <sup>2</sup>	126 x 0.40	1.24 Ω/km	10.2 mm	212 kg/km
25 mm <sup>2</sup>	196 x 0.40	0.795 Ω/km	11.8 mm	305 kg/km
35 mm <sup>2</sup>	276 x 0.40	0.565 Ω/km	13.2 mm	413 kg/km
50 mm <sup>2</sup>	396 x 0.40	0.393 Ω/km	15.4 mm	575 kg/km
70 mm <sup>2</sup>	360 x 0.50	0.277 Ω/km	17.0 mm	782 kg/km
95 mm <sup>2</sup>	485 x 0.50	0.210 Ω/km	19.8 mm	1030 kg/km
120 mm <sup>2</sup>	608 x 0.50	0.164 Ω/km	21.8 mm	1290 kg/km
150 mm <sup>2</sup>	756 x 0.50	0.132 Ω/km	24.0 mm	1580 kg/km
185 mm <sup>2</sup>	944 x 0.50	0.108 Ω/km	25.4 mm	1890 kg/km
240 mm <sup>2</sup>	1221 x 0.50	0.0817 Ω/km	29.2 mm	2451 kg/km
300 mm <sup>2</sup>	1525 x 0.50	0.0654 Ω/km	31.8 mm	3120 kg/km
400 mm <sup>2</sup>	2037 x 0.50	0.0495 Ω/km	35.8 mm	4160 kg/km

\*No separating tape

**Standards:**

- Fire behaviour: Meets requirements of IEC 60331-21, IEC 60332-1 and IEC 60332-3-22 tests.
- Type approval certificates for use in the shipbuilding industry, IEC 60092-350 standards. Lloyd's Register of Shipping.

**Availability:**

Silicoul 3.7 kV cable is available in a large range sizes and other working voltages including 1.1 kV, 6.6 kV and 13.8 kV. Please consult your nearest branch for other cross-sections and grades including UL approved, 4.2 kV style 3662 and version without the reinforcing braid, Silicoul ST.

Associated Gaskets also keep a large selection of specialised electrical and sealing products, as well as flexible and rigid thermal insulation materials. For more information on these products and many more, please visit our website or call your nearest AG branch.

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