



Silicoul Silicone Coated 13.8 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 | Black |
| Class | 180°C, Class H |
| Temperature Range | -60°C to 180°C continuous |
| Maximum Temperature | 230°C peak |
| Working Voltage | 15 kV |
| Test Voltage | 30 kV |
| Bending Radius | 5 x d approx. |

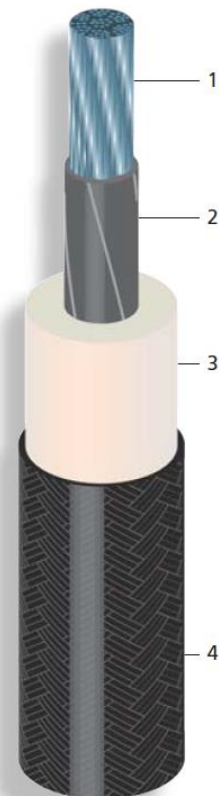
*For maximum permissible current, please contact your nearest AG branch.

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. Semi-conducting 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.

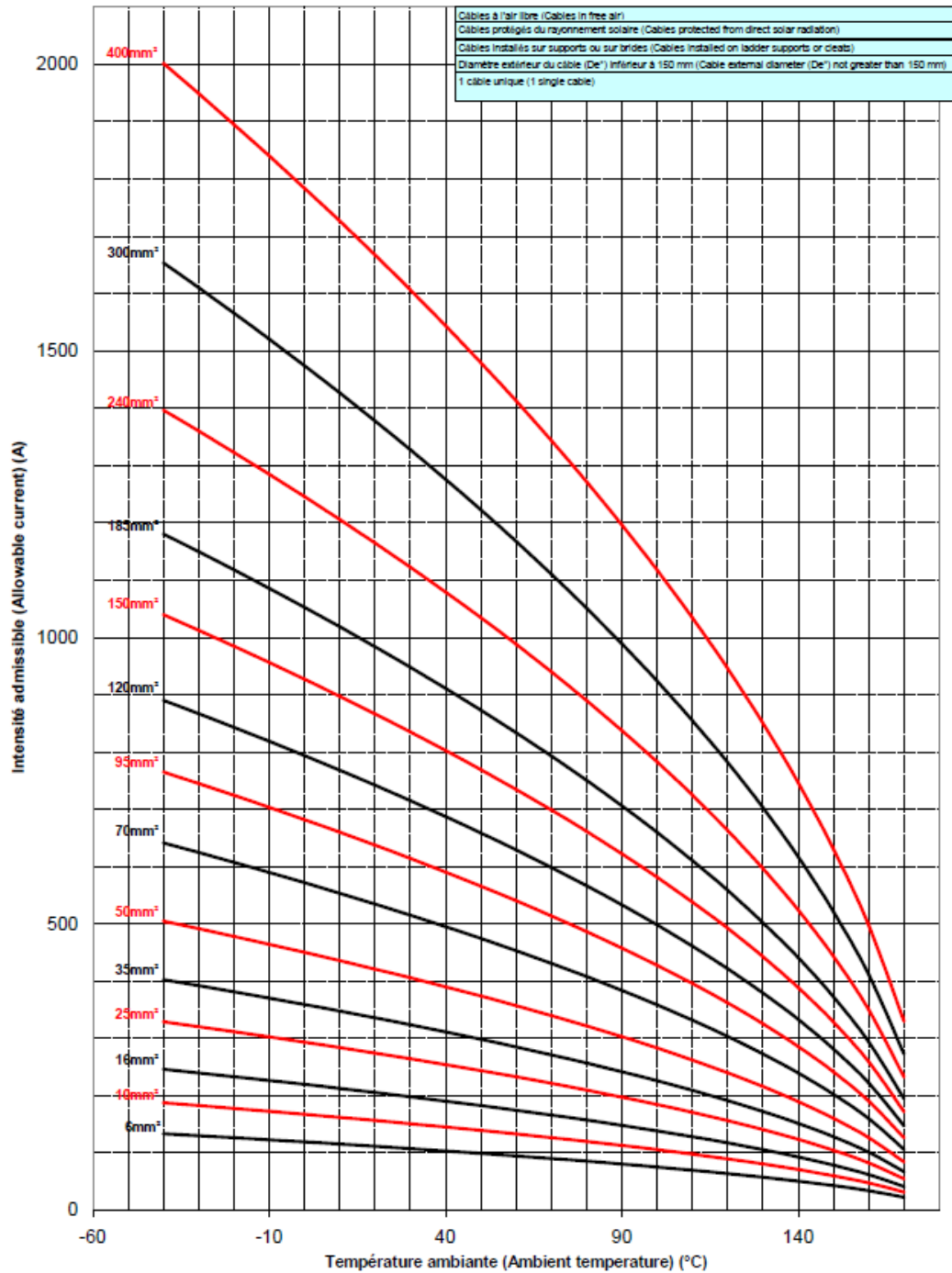


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Quality
ISO 9001

Allowable Current:



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Core:

Insulated Wire or Cable:

| Nominal cross-section | Nominal stranding | Maximum linear resistance at 20°C | Nominal Outer Diameter | Approx. linear weight |
|-----------------------|-------------------|-----------------------------------|------------------------|-----------------------|
| 6 mm ² | 84 x 0.30 | 3.39 Ω/km | 11.8 mm | 175 kg/km |
| 10 mm ² | 80 x 0.40 | 1.95 Ω/km | 13.0 mm | 232 kg/km |
| 16 mm ² | 126 x 0.40 | 1.24 Ω/km | 14.2 mm | 303 kg/km |
| 25 mm ² | 196 x 0.40 | 0.795 Ω/km | 15.7 mm | 407 kg/km |
| 35 mm ² | 276 x 0.40 | 0.565 Ω/km | 17.2 mm | 522 kg/km |
| 50 mm ² | 396 x 0.40 | 0.393 Ω/km | 18.9 mm | 690 kg/km |
| 70 mm ² | 360 x 0.50 | 0.277 Ω/km | 20.7 mm | 907 kg/km |
| 95 mm ² | 485 x 0.50 | 0.210 Ω/km | 22.7 mm | 1160 kg/km |
| 120 mm ² | 608 x 0.50 | 0.164 Ω/km | 24.7 mm | 1415 kg/km |
| 150 mm ² | 756 x 0.50 | 0.132 Ω/km | 27.4 mm | 1758 kg/km |
| 185 mm ² | 944 x 0.50 | 0.108 Ω/km | 28.9 mm | 2050 kg/km |
| 240 mm ² | 1221 x 0.50 | 0.0817 Ω/km | 32.7 mm | 2660 kg/km |
| 300 mm ² | 1525 x 0.50 | 0.0654 Ω/km | 35.3 mm | 3330 kg/km |
| 400 mm ² | 2037 x 0.50 | 0.0495 Ω/km | 39.6 mm | 4360 kg/km |

Standards:

- F1 rated as per NF F 16-101.
- Fire behaviour: Meets requirements of IEC 60331-21, IEC 60332-1 and IEC 60332-3-22 tests.
- Type approval certificates for use in shipbuilding industry, IEC 60092-350 standards. Lloyd's Register of Shipping.

Availability:

Silicoul 13.8 kV cable is available in a large range sizes and other working voltages including 1.1 kV, 3.7 kV and 6.6 kV. Please consult your nearest branch for other cross-sections and grades including UL approved, 15 kV style 3664 and version without the reinforcing braid, Silicoul ST.

Associated Gaskets also keep a large selection of specialised electrical 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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