Electrical Insulation & Conductors

Silicoul Silicone Coated 1.1 kV Cable

Certified System Quality ISO 9001

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 180ºC 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	Yellow
Class	180ºC, Class H
Temperature Range	-60ºC to 180ºC continuous
Maximum Temperature	230ºC peak
Working Voltage	1.1 kV
Test Voltage	3.5 kV
Bending Radius	≈ 5 x d

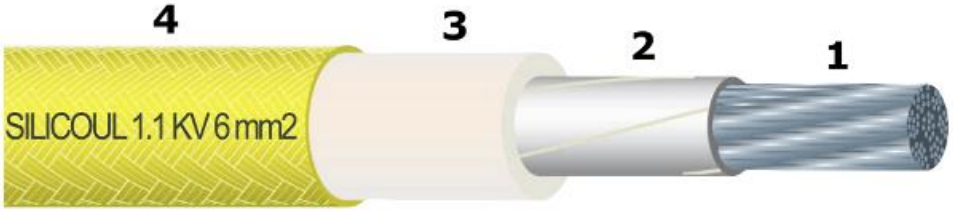
*For maximum permissible current, please contact your nearest AG branch.

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 with most impregnating varnishes
- Bending radius of ≈ 5 x d

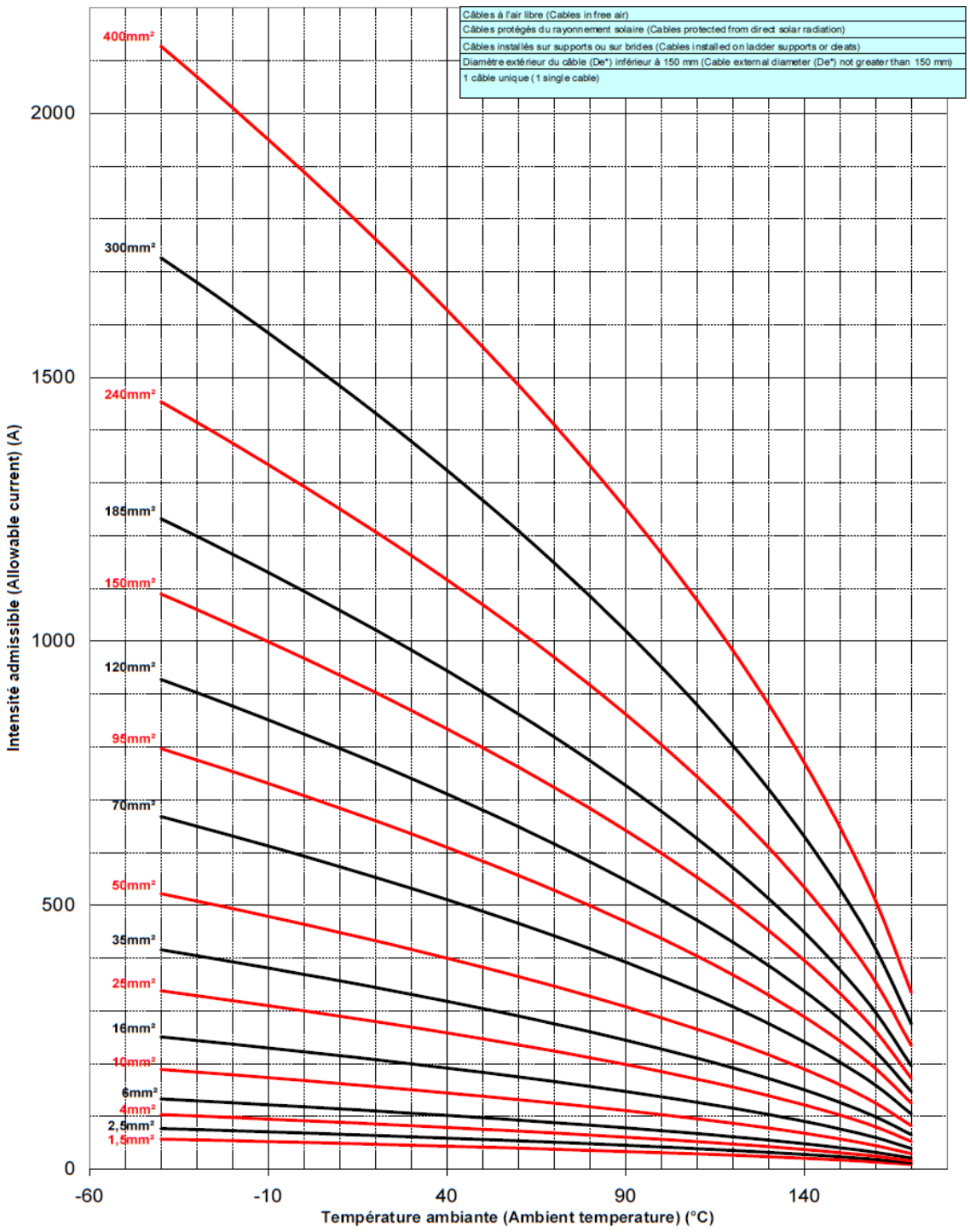
Construction:

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



Silicoul Silicone Coated 1.1 kV Cable

Allowable Current:



Silicoul Silicone Coated 1.1 kV Cable

Core: **Insulated Wire:**

Nominal cross-section	Nominal stranding	Maximum linear resistance at 20ºC	Nominal Outer Diameter	Approx. linear weight
1.5 mm^{2*}	30 x 0.25	13.7 Ω/km	3.8 mm	29.0 kg/km
2.5 mm^{2*}	50 x 0.25	8.21 Ω/km	4.3 mm	37.8 kg/km
4 mm^{2*}	56 x 0.30	5.09 Ω/km	4.9 mm	58.5 kg/km
6 mm^2	84 x 0.30	3.39 Ω/km	6.0 mm	76.6 kg/km
10 mm^2	80 x 0.40	1.95 Ω/km	7.0 mm	121 kg/km
16 mm^2	126 x 0.40	1.24 Ω/km	8.6 mm	178 kg/km
25 mm^2	196 x 0.40	0.795 Ω/km	10.4 mm	273 kg/km
35 mm^2	276 x 0.40	0.565 Ω/km	11.9 mm	376 kg/km
50 mm^2	396 x 0.40	0.393 Ω/km	14.1 mm	534 kg/km
70 mm^2	360 x 0.50	0.277 Ω/km	15.9 mm	738 kg/km
95 mm^2	485 x 0.50	0.210 Ω/km	18.2 mm	970 kg/km
120 mm^2	608 x 0.50	0.164 Ω/km	20.3 mm	1220 kg/km
150 mm^2	756 x 0.50	0.132 Ω/km	22.8 mm	1520 kg/km
185 mm^2	944 x 0.50	0.108 Ω/km	24.8 mm	1850 kg/km
240 mm^2	1221 x 0.50	0.0817 Ω/km	28.8 mm	2420 kg/km
300 mm^2	1525 x 0.50	0.0654 Ω/km	31.5 mm	3095 kg/km
400 mm^2	2037 x 0.50	0.0495 Ω/km	34.6 mm	4130 kg/km

*No separating tape

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 and Bureau Veritas.

Availability:

Silicoul 1.1 kV cable is available in a large range sizes and other working voltages including 3.7 kV, 6.6 kV and 13.8 kV. Please consult your nearest branch for other options including UL/CSA approved, 1.1 kV, style 3661 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.

Visit: www.agaus.com.au

Phone: 1300 098 060