

HIGH TEMPERATURE MEDIUM VOLTAGE
POWER CABLES**SILICOUL® RI 1.1 kV**
-60°C to +180°C**Approvals - standards**

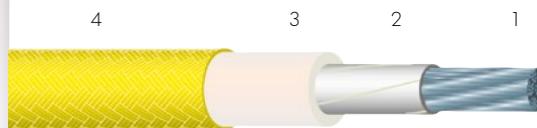
- Bureau VERITAS approval certificates: compliance with the tests described as per standards IEC 60092-350/353/360, IEC 60228, IEC 60332-1-1/2, IEC 60332-3-22 and IEC 60754-2.
- Lloyd's Register approval certificates: compliance with the tests described as per standards IEC 60228, IEC 60092-350/353/360, IEC 60754-2, IEC 60332-1-1/2, IEC 60332-3-22 category A.
- Non-fire propagating according to NF C 32-070 test C1 for cross-sections greater than 6mm² (test for smaller cross-sections on request).

Applications

- Switchboards, Power cabinets.
 - Battery energy storage.
- Cabling for static machines: transformers, inductors, inverters, choppers.
- Railway Industry (current collector, etc.).

Options

- Extra-flexible tin-plated copper core - class 6 as per IEC 60228: contact us.
- Flexible or extra-flexible bare copper, silver-plated or nickel-plated copper core - class 5 or 6 as per IEC 60228: contact us.
 - Without reinforcing braid (ref. SILICOUL® ST 1.1 kV): contact us.
 - Coated synthetic fibre reinforcing braid (ref. SILICOUL® 1.1 kV): contact us.
- Very high temperature fibre reinforcing braid: contact us.
 - Outer flexible armour:
 - > Galvanised steel braid (ref. SILICOUL® BG 1.1 kV): contact us.
 - > Stainless steel braid (ref. SILICOUL® BI 1.1 kV): contact us.
- Multi-conductor cable made up of an assembly of several single conductor cables SILICOUL® RI 1.1 kV: contact us.
 - Other markings: contact us.
 - Other colours: contact us.
- Other nominal cross-sections: contact us.
 - Other options and/or combinations of the options outlined above: contact us.

SILICONE INSULATED MEDIUM VOLTAGE
POWER CABLES WITH VARNISHED REINFORCING BRAID

- 1 • Flexible tin-plated copper core - class 5 as per IEC 60228.
- 2 • Optional separating tape.
- 3 • Insulation: Silicone rubber.
- 4 • Reinforcement: Dry varnished synthetic fibre braid.

Characteristics**General**

- Continuous operating temperatures: -60°C to +180°C.
- Bending radius: 5 x D.
- Good resistance to thermal shock and UV.
- Excellent mechanical strength.

Electrical

- Rated voltage: 1.1 kV.
- Test voltage: 3.5 kV.

Standard products

- Standard insulation colour: white.
 - Standard reinforcing braid colour: yellow.
 - Standard marking: OMERIN - SILICOUL RI 1.1 kV - {cross-section}
- No printing on sections 1.5 mm² to 6 mm²

SILICOUL® RI 1.1 kV**Flexible core • class 5 as per IEC 60228**

Nominal cross-section (mm ²)	Nominal stranding	Maximum linear resistance at 20 °C (Ω/km)
1.5	30 x 0.25	13.7
2.5	50 x 0.25	8.21
4	56 x 0.30	5.09
6	84 x 0.30	3.39
10	80 x 0.40	1.95
16	126 x 0.40	1.24
25	196 x 0.40	0.795
35	276 x 0.40	0.565
50	396 x 0.40	0.393
70	360 x 0.50	0.277
95	485 x 0.50	0.210
120	608 x 0.50	0.164
150	756 x 0.50	0.132
185	944 x 0.50	0.108
240	1221 x 0.50	0.0817
300	1525 x 0.50	0.0654
400	2037 x 0.50	0.0495

INSULATED WIRE OR CABLE

Nominal diameter (mm)	Approximate linear weight (kg/km)
3.8	23.5
4.3	34.0
4.9	48.9
6.0	71.7
7.2	117
8.6	174
10.4	268
11.9	360
14.1	512
15.9	686
18.2	914
20.7	1174
23.2	1457
25.2	1819
29.2	2448
31.6	2992
34.6	3837

For this product, please contact:

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LES CABLES DE L'EXTREME

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The information provided in this technical data sheet is indicative and may be modified without prior notice, laying, wiring and electrical conditions and the environment of the cable can not be fully considered in our studies. In some cases, for production purposes, a separating tape may be added between two successive layers. In no way the company OMERIN shall be held responsible for any incidents in the case of inappropriate uses, particularly in the case of wiring conditions that do not respect the good practice and the standards in force. For an optimum use of the cables produced by our company, we recommend testing in real conditions. Our sales department is available for a possible provision of samples, and/or for the conditions of a complete study in our laboratories. © Registered trademark of the OMERIN Group. Drawings and photos are not contractual. Reproduction is prohibited without the prior agreement of OMERIN.