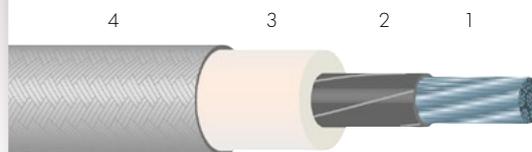


HIGH TEMPERATURE MEDIUM VOLTAGE  
POWER CABLES**SILICOUL® RI 6.6 kV**  
**-60°C to +180°C**Lloyd's  
RegisterSILICONE INSULATED MEDIUM VOLTAGE  
POWER CABLES WITH VARNISHED REINFORCING BRAID

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

**Approvals - standards**

- Lloyd's Register approval certificates: compliance with the tests described as per standards IEC 60228, IEC 60092-350/354/360, 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 6mm<sup>2</sup> (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 6.6 KV): contact us.
    - Coated synthetic fibre reinforcing braid (ref. SILICOUL® 6.6 KV): contact us.
- Very high temperature fibre reinforcing braid: contact us.
  - Outer flexible armour:
    - > Galvanised steel braid (ref. SILICOUL® BG 6.6 KV): contact us.
    - > Stainless steel braid (ref. SILICOUL® BI 6.6 KV): contact us.
- Multi-conductor cable made up of an assembly of several single conductor cables SILICOUL® RI 6.6 KV: contact us.
  - Other colours: contact us.
- Other nominal cross-sections: contact us.
  - Other options and/or combinations of the options outlined above: contact us.

**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: 6.6 kV.
- Test voltage: 15 kV.

**Standard products**

- Standard insulation colour: white.
- Standard reinforcing braid colour: grey.

**SILICOUL® RI 6.6 kV**

Flexible core • class 5 as per IEC 60228			INSULATED WIRE OR CABLE	
Nominal cross-section	Nominal stranding	Maximum linear resistance at 20 °C	Nominal diameter	Approximate linear weight
(mm <sup>2</sup> )		(Ω/km)	(mm)	(kg/km)
2.5	50 x 0.25	8.21	7.7	68.1
4	56 x 0.30	5.09	8.3	86.2
6	84 x 0.30	3.39	9.2	114
10	80 x 0.40	1.95	10.4	166
16	126 x 0.40	1.24	11.6	227
25	196 x 0.40	0.795	13.1	325
35	276 x 0.40	0.565	14.6	425
50	396 x 0.40	0.393	16.7	583
70	360 x 0.50	0.277	18.3	759
95	485 x 0.50	0.210	19.9	995
120	608 x 0.50	0.164	23.0	1262
150	756 x 0.50	0.132	24.1	1555
185	944 x 0.50	0.108	26.9	1904
240	1221 x 0.50	0.0817	30.7	2522
300	1525 x 0.50	0.0654	32.9	3059
400	2037 x 0.50	0.0495	37.2	3999

For this product, please contact:

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[www.omerin.com](http://www.omerin.com)

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.

**omerin**  
 LES CABLES DE L'EXTREME