

HIGH TEMPERATURE MEDIUM VOLTAGE
POWER CABLES**SILICOU[®] 1.1 kV**
-60 °C to +180 °C**Approvals - standards**

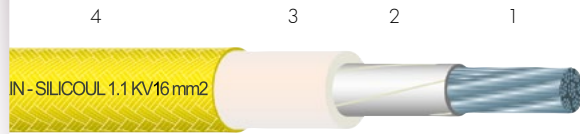
- Bureau VERITAS approval certificates: compliance with the tests described as per standards IEC 60092-350/353/360, IEC 60228, IEC 60331-11/21, IEC 60332-1-1/2, IEC 60332-3-22 and IEC 60754-2.
- Lloyd's Register approval certificates: compliance with the tests described as per standards IEC 60228, IEC 60092-350/353/360, IEC 60754-2, IEC 60332-1-1/2, IEC 60332-3-22 category A and IEC 60331-11/21.

Applications

- Cabling for rotating machines: motors, alternators, generators.
- Cabling for static machines: transformers, inductors, inverters, choppers.
- Shipbuilding and railway construction.
 - Power cabinets.

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. SILICOU[®] ST 1.1 KV): contact us.
- Varnished synthetic fibre reinforcing braid (ref. SILICOU[®] RI 1.1 KV): contact us.
- Very high temperature fibre reinforcing braid: contact us.
 - Outer flexible armour:
 - > Galvanised steel braid (ref. SILICOU[®] BG 1.1 KV): contact us.
 - > Stainless steel braid (ref. SILICOU[®] BI 1.1 KV): contact us.
- Multi-conductor cable made up of an assembly of several single conductor cables SILICOU[®] 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 REINFORCING BRAID

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

Characteristics**General**

- Continuous operating temperatures: -60 °C to +180 °C.
- 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 - SILICOU 1.1 KV - {cross-section}
- No printing on sections 1.5 mm² to 6 mm²

SILICOU[®] 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:

OMERIN division principale 
Zone Industrielle - F 63600 Ambert
Tel. +33 (0)4 73 82 50 00 - Fax +33 (0)4 73 82 50 10
omerin@omerin.com

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 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