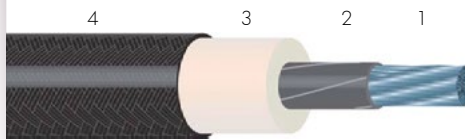


HIGH TEMPERATURE MEDIUM VOLTAGE  
POWER CABLES**SILICOUL® 13.8 kV**  
**-60 °C to +180 °C**SILICONE INSULATED MEDIUM VOLTAGE  
POWER CABLES WITH REINFORCING BRAID

- 1 • Flexible tin-plated copper core - class 5 as per IEC 60228.
- 2 • Semi-conductor tape(s).
- 3 • Insulation: Silicone rubber.
- 4 • Reinforcement: Coated 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 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. SILICOUL® ST 13.8 KV): contact us.
    - Varnished synthetic fibre reinforcing braid (ref. SILICOUL® RI 13.8 KV): contact us.
- Very high temperature fibre reinforcing braid: contact us.
  - Outer flexible armour:
    - > Galvanised steel braid (ref. SILICOUL® BG 13.8 KV): contact us.
    - > Stainless steel braid (ref. SILICOUL® BI 13.8 KV): contact us.
- Multi-conductor cable made up of an assembly of several single conductor cables SILICOUL® 13.8 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.
- Good resistance to thermal shock and UV.
- Excellent mechanical strength.

**Electrical**

- Rated voltage: 13.8 kV.
- Test voltage: 30 kV.

**Standard products**

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

**SILICOUL® 13.8 kV****Flexible core • class 5 as per IEC 60228**

Nominal cross-section (mm <sup>2</sup> )	Nominal stranding	Maximum linear resistance at 20 °C (Ω/km)
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)
10.2	107
11.0	132
11.8	162
13.1	224
14.2	287
15.7	390
17.2	496
18.9	649
21.3	847
23.2	1079
25.2	1349
27.9	1672
29.3	2017
33.1	2650
35.5	3209
39.6	4152

For this product, please contact:

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**omerin**  
LES CABLES DE L'EXTREME

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.  
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