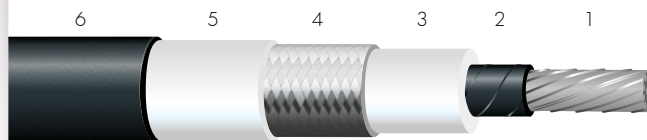


SILICOUL® SCR 13.8 kV

-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 • Electrical shielding: Tin-plated copper braid.
- 5 • Sheath: Silicone rubber.
- 6 • Reinforcement: Coated synthetic fibre braid.

Approvals - standards

- Compliance with the standards: IEC 60228, IEC 60331-11/21, IEC 60332-1-1/2, IEC 60332-3-22 category A and IEC 60754-2.

Applications

- All industrial applications for which power cables can be submitted to oil, hydrocarbons, humidity or mechanical forces.
 - Cabling for rotating machines: motors, alternators, generators.
 - Cabling for static machines: transformers, inductors, inverters, choppers.
 - 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.
 - Outer flexible armour:
 - > Galvanised steel braid (ref. SILICOUL® SCR BG 13.8 kV): contact us.
 - > Stainless steel braid (ref. SILICOUL® SCR BI 13.8 kV): contact us.
- Multi-conductor cable made up of an assembly of several single conductor cables SILICOUL® SCR 13.8 kV: contact us.
 - Outer marking: 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 temperature: -60 °C to +180 °C.
- Excellent resistance to oil and hydrocarbons.
- Excellent mechanical strength.

Electrical

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

Standard products

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

SILICOUL® SCR 13.8 kV

Flexible core • class 5 as per IEC 60228

Nominal cross-section (mm ²)	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)
14.2	208
15.2	254
16.0	292
17.5	358
18.8	456
21.1	593
23.0	721
24.9	926
27.1	1162
29.2	1423
31.6	1724
34.5	2199
35.7	2506
39.9	3195
42.7	3815
48.3	4958

For this product, please contact:

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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 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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