

HIGH TEMPERATURE WIRES AND CABLES
FOR THE GENERAL MARKET
SECTION III: COMPOSITE INSULATIONS

SILICABLE® NMVRI

-60 °C to +180 °C

UNIPOLAR WIRES AND CABLES
WITH COMPOSITE INSULATION



- 1 • Flexible bare copper core – class 5 as per IEC 60228.
- 2 • Meta-aramid tape(s).
- 3 • Polyester tape(s).
- 4 • Varnished fibreglass braid.

Applications

- Cabling for rotating machines: motors, alternators, generators.
- Cabling for static machines: transformers, inductors, inverters, choppers.

Options

- Ref. NMVRI-ES : extra-flexible bare copper core – class 6 as per IEC 60228. (see details of this option below).
- Other cross-sections or colours: contact us.
- Outer braid in silicone coated fibreglass: ref. NMV.

Characteristics

General

- Continuous operating temperatures: -60 °C to +180 °C (class H).
- Good mechanical strength.
- Compatible with most impregnation varnishes.

Electrical

- Rated voltage: 300/500 V.
- Test voltage: 2000 V.

Standard products

- All solid colours.
- All colours with coloured spiral stripe(s).

NMVRI

Flexible core • Class 5 as per IEC 60228

Nominal cross-section (mm ²)	Nominal stranding	Maximum linear resistance at 20 °C (Ω/km)
0.5	16 x 0.20	39.0
0.75	24 x 0.20	26.0
1	32 x 0.20	19.5
1.5	30 x 0.25	13.3
2.5	50 x 0.25	7.98
4	56 x 0.30	4.95
6	84 x 0.30	3.30
10	80 x 0.40	1.91
16	126 x 0.40	1.21
25	196 x 0.40	0.780
35	276 x 0.40	0.554
50	396 x 0.40	0.386
70	360 x 0.50	0.272
95	485 x 0.50	0.206

INSULATED WIRE OR CABLE

Nominal diameter (mm)	Approximate linear weight (kg/km)
1.7	6.0
1.9	8.9
2.1	11.2
2.3	15.6
2.8	24.5
3.4	39.1
4.0	56.7
6.2	103
7.0	159
8.8	248
9.8	337
11.5	485
13.2	667
17.0	1011

Option • NMVRI-ES

Extra-flexible core • Class 6 as per IEC 60228

Nominal cross-section (mm ²)	Nominal stranding	Maximum linear resistance at 20 °C (Ω/km)
1.5	390 x 0.07	13.3
2.5	650 x 0.07	7.98
4	1050 x 1.34	4.95
6	301 x 0.15	3.30
10	322 x 0.20	1.91
16	516 x 0.20	1.21
25	792 x 0.20	0.780
35	1121 x 0.20	0.554
50	1628 x 0.20	0.386
70	2294 x 0.20	0.272

INSULATED WIRE OR CABLE

Nominal diameter (mm)	Approximate linear weight (kg/km)
2.6	15.6
2.9	24.5
3.4	39.1
4.1	56.7
6.2	103
7.0	159
8.8	248
9.8	337
11.5	485
13.2	667

For this product, please contact:

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* Nominal cross-section not included in IEC 60228.

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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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