

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

SILICABLE® NVS

-60 °C to +350 °C



Approvals - standards

- Nickel type 200, as per standards DIN 17753, DIN 17740 and ASTM B160.
- VERITAS approval certificates:
 - > No. BV 153552.
 - > No. BV 256192.
- VDE test report no. 9296-5950-0001/32YAT F42/sld-Fc.

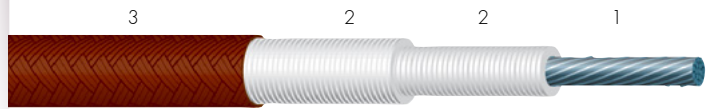
Applications

- Cabling for heating resistors, cartridges, bands and plates.
- Domestic electrical heating appliances: kitchens, professional ovens, etc.
- Machines for thermoplastics or rubber.
 - Industrial furnaces and air ovens.

Options

- Reduced outer diameters: ref. NVSL (See details of this option below).
 - Fibreglass outer braid coated with PTFE varnish: ref. NVF.
- Other nominal cross-sections: contact us.
 - Other core stranding: contact us.

UNIPOLAR WIRES AND CABLES WITH COMPOSITE INSULATION



- 1 • Stranded or flexible nickel core.
- 2 • Impregnated fibreglass lappings.
- 3 • Silicone-coated fibreglass braid.

Characteristics

General

- Continuous operating temperatures: -60 °C to +350 °C.
- Excellent resistance to thermal shocks and oxidation of core.

Electrical

- | | NVS | NVSL |
|------------------|-----------|------------|
| • Rated voltage: | 300/500 V | 300/300 V. |
| • Test voltage: | 2000 V | 1500 V. |

Standard products

- Standard colour: brown.
- Other colours on request including yellow/green.

NVS

Conducting core			INSULATED WIRE OR CABLE	
Nominal cross-section (mm ²)	Nominal stranding	Maximum linear resistance at 20 °C (Ω/km)	Nominal diameter (mm)	Approximate linear weight (kg/km)
0.22	7 x 0.20	573	1.4	4.6
0.25	8 x 0.20	503	1.9	5.7
0.5	7 x 0.30	229	2.1	8.8
0.75	11 x 0.30	156	2.4	11.9
1	14 x 0.30	115	2.5	14.5
1.34	19 x 0.30	93.1	2.6	15.9
1.5	21 x 0.30	77.2	2.8	19.1
2	29 x 0.30	58.0	3.0	22.1
2.5	35 x 0.30	47.2	3.2	29.3
4	56 x 0.30	31.5	4.3	47.4
6	84 x 0.30	21.0	4.8	67.5
8	119 x 0.30	15.5	5.8	82.3
10	140 x 0.30	12.1	6.8	106
16	224 x 0.30	7.72	8.2	192
25	354 x 0.30	4.97	10.1	302
35	495 x 0.30	3.53	12.0	395
50	707 x 0.30	2.46	13.2	556
70	999 x 0.30	1.73	16.3	785

Option • NVSL

Conducting core			INSULATED WIRE	
Nominal cross-section (mm ²)	Nominal stranding	Maximum linear resistance at 20 °C (Ω/km)	Nominal diameter (mm)	Approximate linear weight (kg/km)
0.22	7 x 0.20	573	1.2	3.8
0.25	8 x 0.20	503	1.3	4.1
0.34	11 x 0.20	366	1.4	5.1
0.5	7 x 0.30	229	1.4	6.2
0.75	11 x 0.30	156	1.8	9.0
1	14 x 0.30	115	2.1	10.9
1.34	19 x 0.30	93.1	2.3	14.5
1.5	21 x 0.30	77.2	2.5	15.2
2	29 x 0.30	58.0	2.7	20.7
2.5	35 x 0.30	47.2	3.0	24.5
4	56 x 0.30	31.5	3.6	38.6
6	84 x 0.30	21.0	4.4	57.7

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For this product, please contact:

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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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