

# SILICABLE® KVS and 2KVS

-100 °C to +350 °C

## Applications

- Cabling for heating resistors, cartridges, bands and plates.
- All cabling requiring enhanced chemical resistance and resistance to radiations (chemical, nuclear industry, etc.).

## Options

- Nickel-plated copper core: ref. CNKVS and CN2KVS.
- Silver-plated copper core: ref. AKVS and A2KVS.
- Pure nickel core (not described in IEC 60228): ref. NKVS or N2KVS.
- Other nominal cross-sections: contact us.
- Other nominal stranding: contact us.
- Other options: contact us.

## Characteristics

### General

- Continuous operating temperatures: -100 °C to +350 °C.
- Enhanced resistance to moisture for ref. 2KVS.
- Good resistance to common chemical agents.
- Excellent resistance of polyimide material to radiations:  $1 \cdot 10^9$  rad.

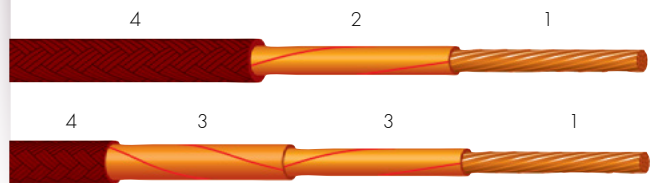
### Electrical

- Rated voltage: 300/500 V.
- Test voltage: 2000 V.
- Enhanced dielectric strength for ref. 2KVS.

## Standard products

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

## UNIPOLAR WIRES AND CABLES WITH COMPOSITE INSULATION



- 1 • Flexible bare copper core - class 5 as per IEC 60228.
- 2 • Polyimide tape.
- 3 • Two heat-sealed crossed polyimide tapes.
- 4 • Varnished fibreglass braid.

### Conducting core

Nominal cross-section (mm <sup>2</sup> )	Nominal stranding	Maximum linear resistance at 20 °C (Ω/km)
0.22*	7 x 0.20	89.9
0.34*	7 x 0.25	57.5
0.5*	7 x 0.30	39.6
0.6**	19 x 0.20	32.8
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)	
	KVS	2KVS
1	1.2	3.1
1.1	1.3	5.7
1.2	1.4	6.3
1.3	1.5	7.1
1.4	1.6	8.5
1.5	1.7	10.8
1.9	2.1	15.3
2.4	2.6	24.1
3.1	3.3	38.4
3.7	3.9	56.3
5	5.2	106
	6.3	192
	7.8	288
	8.8	385
	10.6	556
	12.8	785
	14.7	1032

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

OMERIN division silisol   
BP 87 - ZI du Devev - F 42000 Saint-Étienne  
Tel. +33 (0)4 77 81 36 00 - Fax +33 (0)4 77 81 37 00  
silisol@omerin.com

\* Cross-sections described as per NF C 32-018 class B.

\*\* Cross-section described as per NF C 32-018 class C.

[www.omerin.com](http://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