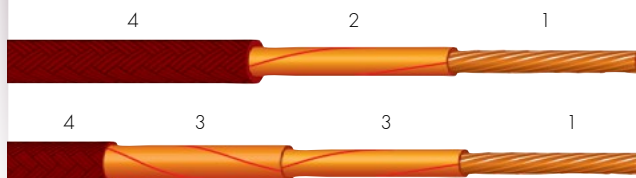


HIGH TEMPERATURE WIRES AND CABLES  
FOR THE GENERAL MARKET  
SECTION III: COMPOSITE INSULATIONS

# SILICABLE® KVS and 2KVS

-100 °C to +350 °C

## UNIPOLAR WIRES AND CABLES WITH COMPOSITE INSULATION



### 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.

- 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.

### 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).

| Conducting core                          |                   |   | INSULATED WIRE OR CABLE |      |                                   |
|--|-------------------|---|-------------------------|------|-----------------------------------|
| Nominal cross-section (mm <sup>2</sup> ) | Nominal stranding | Maximum linear resistance at 20 °C (Ω/km) | Nominal diameter (mm)   |      | Approximate linear weight (kg/km) |
|  |                   |   | KVS                     | 2KVS |                                   |
| 0.22*                                    | 7 x 0.20          | 89.9                                      | 1                       | 1.2  | 3.1                               |
| 0.34*                                    | 7 x 0.25          | 57.5                                      | 1.1                     | 1.3  | 5.7                               |
| 0.5*                                     | 7 x 0.30          | 39.6                                      | 1.2                     | 1.4  | 6.3                               |
| 0.6**                                    | 19 x 0.20         | 32.8                                      | 1.3                     | 1.5  | 7.1                               |
| 0.75                                     | 24 x 0.20         | 26.0                                      | 1.4                     | 1.6  | 8.5                               |
| 1  | 32 x 0.20         | 19.5                                      | 1.5                     | 1.7  | 10.8                              |
| 1.5                                      | 30 x 0.25         | 13.3                                      | 1.9                     | 2.1  | 15.3                              |
| 2.5                                      | 50 x 0.25         | 7.98                                      | 2.4                     | 2.6  | 24.1                              |
| 4  | 56 x 0.30         | 4.95                                      | 3.1                     | 3.3  | 38.4                              |
| 6  | 84 x 0.30         | 3.30                                      | 3.7                     | 3.9  | 56.3                              |
| 10                                       | 80 x 0.40         | 1.91                                      | 5                       | 5.2  | 106                               |
| 16                                       | 126 x 0.40        | 1.21                                      |                         | 6.3  | 192                               |
| 25                                       | 196 x 0.40        | 0.780                                     |                         | 7.8  | 288                               |
| 35                                       | 276 x 0.40        | 0.554                                     |                         | 8.8  | 385                               |
| 50                                       | 396 x 0.40        | 0.386                                     |                         | 10.6 | 556                               |
| 70                                       | 360 x 0.50        | 0.272                                     |                         | 12.8 | 785                               |
| 95                                       | 485 x 0.50        | 0.206                                     |                         | 14.7 | 1032                              |

For this product, please contact:

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\* 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)

**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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