

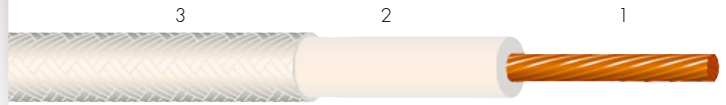
HIGH TEMPERATURE WIRES AND CABLES  
FOR THE GENERAL MARKET  
SECTION I: CROSS LINKED ELASTOMERS

# SILICABLE® CSV and ECSV

## -60 °C to +220 °C



SILICONE INSULATED AND/OR SHEATHED  
WIRES AND CABLES WITH REINFORCING BRAID



- 1 • Flexible bare copper (ref. CSV) or tin-plated (ref. ECSV) core - class 5 as per IEC 60228.
- 2 • Insulation: Silicone rubber.
- 3 • Reinforcement: Silicone-coated fibreglass braid.

### Approvals - standards

- VERITAS approval certificate No. BV 153552.
- Halogen-free: IEC 60754-1 / EN 60754-1.

### Applications

- Cabling for household electrical heating appliances.
  - Production machines.
  - Lighting.
- Industrial cabling in hot atmospheres.

### Options

- Nickel-plated copper core: ref. CNCSV.
- Silver-plated copper core: ref. ACSV.
- Pure nickel core (not described in IEC 60228): ref. NCSV.
  - Outer electrical shielding:
    - > Tin-plated copper braid: ref. CSVBE.
    - Outer flexible armour:
      - > Galvanised steel braid: ref. CSVBG.
      - > Stainless steel braid: ref. CSVBI.
- Solid bare copper (ref. RCSV) or tin-plated (ref. RECSV) core – class 1 as per IEC 60228: See details of the option below.
- Extra-flexible bare copper (ref. CSV-ES) or tin-plated (ref. ECSV-ES) core – class 6 as per IEC 60228.
- Other nominal cross-sections: contact us.
  - Other nominal stranding: contact us.
  - Other options and/or combinations of the options outlined above: contact us.

### Characteristics

#### General

- Continuous operating temperatures: -60 °C to +220 °C.
- Good resistance to thermal shock and UV.

#### Electrical

- |                  |                                 |                              |
|------------------|---------------------------------|------------------------------|
|                  | <b>CS &lt; 6 mm<sup>2</sup></b> | <b>CS ≥ 6 mm<sup>2</sup></b> |
| • Rated voltage: | 300/500 V                       | 600/1000 V.                  |
| • Test voltage:  | 2000 V                          | 3000 V.                      |

### Standard products

- All solid colours, yellow/green or white with coloured spiral markings.

### CSV and ECSV

#### Flexible core • class 5 as per IEC 60228

Nominal cross-section (mm <sup>2</sup> )	Nominal stranding	Maximum linear resistance at 20 °C (Ω/km) (bare copper core)
0.4*	12 x 0.20	52.4
0.5	16 x 0.20	39.0
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
120	608 x 0.50	0.161
150	756 x 0.50	0.129
185	944 x 0.50	0.106
240	1221 x 0.50	0.0801
300	1525 x 0.50	0.0641
400	2037 x 0.50	0.0486

#### INSULATED WIRE OR CABLE

Nominal thickness of insulation (mm)	Nominal diameter (mm)	Approximate linear weight (kg/km)
0.45	2.0	7.2
0.45	2.1	8.4
0.45	2.2	9.7
0.45	2.4	11.4
0.45	2.5	13.6
0.45	2.8	18.4
0.5	3.4	28.9
0.6	4.4	47.4
0.8	5.3	70.4
1.0	6.9	117
1.2	8.3	178
1.4	10.1	261
1.5	11.5	370
1.7	13.7	537
1.7	15.3	715
2.3	18.2	961
2.4	20.1	1222
2.4	22.0	1500
2.7	24.6	1844
3.2	28.6	2503
3.2	31.0	3082
3.2	34.6	3862

#### Option • RCSV and RECSV

##### Solid core • class 1 as per IEC 60228

Nominal cross-section (mm <sup>2</sup> )	Nominal diameter (mm)	Maximum linear resistance at 20 °C (Ω/km)
0.5	1 x 0.80	36.0
0.75	1 x 0.98	24.5
1	1 x 1.13	18.1
1.5	1 x 1.38	12.1
2.5	1 x 1.77	7.41
4**	1 x 2.24	4.61
6**	1 x 2.76	3.08

##### INSULATED WIRE

Nominal thickness of insulation (mm)	Nominal diameter (mm)	Approximate linear weight (kg/km)
0.45	2.0	8.6
0.5	2.3	11.9
0.5	2.4	14.4
0.5	2.8	18.6
0.6	3.3	31.2
0.8	4.2	50.1
0.8	4.8	70.6

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 Devey - F 42000 Saint-Étienne  
Tel. +33 (0)4 77 81 36 00 - Fax +33 (0)4 77 81 37 00  
silisol@omerin.com

\* Nominal cross-sections not described in IEC 60228.

\*\* Nominal cross-sections not available with the ref. RECSV.

[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.