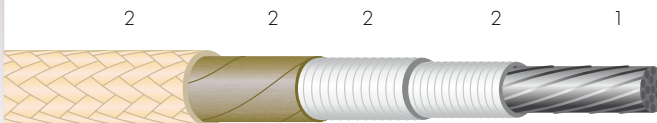


SILICABLE® 450 °C

Composite insulation UL and cUL approval



- 1 • Nickel or nickel-plated copper core.
- 2 • Composite insulation: Mica tape(s) and/or fibreglass lapping + varnished fibreglass braid.

Characteristics General

- Maximum continuous operating temperature: +450 °C.
- Good resistance to thermal shocks and oxidization.

Electrical

- Rated voltage: as per style no. (see opposite table).
- Test voltage: as per style no.

Standard products

- Standard colours: grey, brown or natural.
- Stranding of conducting cores: contact us.

Approvals - standards

- UL approval as per standard UL 758 – File no.: E101965.
- cUL approval (CSA) as per standard C22.2 No. 210 - File no.: E101965.
- Nickel-plated copper complying with the 27% class as per standard ASTM B355.
- Nickel type 200 as per standard ASTM B160.
 - "Horizontal flame test" as per UL approval.
 - "FT2 flame rating" as per cUL approval.

Applications

- Cabling for industrial furnaces and air ovens.
 - Cabling for heating resistors, cartridges, bands and plates.
- Cabling for domestic or professional electrical appliances.

Options

- Other colours: contact us.
- Individual or general electrical shielding: contact us.
- Multi-conductor cables (Styles no. 5128, 5107, 5283, 5335): contact us.
- Other style nos. available: style no. 5158.

Style no. **5168** **5334** **5128**
Approval **450 °C - 300 V** **450 °C - 300 V** **450 °C - 300 V**

Nominal cross-section AWG	Average thickness of insulation (mm)	Nominal diameter* (mm)	5168		5334		5128	
			Average thickness of insulation (mm)	Nominal diameter* (mm)	Average thickness of insulation (mm)	Nominal diameter* (mm)	Average thickness of insulation (mm)	Nominal diameter* (mm)
30	0.05	-	-	-	-	-	-	-
28	0.09	-	-	-	-	-	-	-
26	0.13	-	-	-	-	-	-	-
24	0.22	0.43	1.7	0.56	2.0	0.56	1.9	
22	0.34	0.43	1.9	0.56	2.1	0.56	2.0	
-	0.5	0.43	2.0	0.56	2.3	0.56	2.2	
20	0.6	0.43	2.1	0.56	2.4	0.56	2.2	
-	0.75	0.43	2.3	0.56	2.5	0.56	2.4	
18	0.93	0.43	2.5	0.56	2.6	0.56	2.5	
-	1	0.43	2.6	0.56	2.7	0.56	2.5	
16	1.34	0.43	2.7	0.56	2.9	0.56	2.8	
-	1.5	0.43	2.8	0.56	3.0	0.56	2.8	
14	-	0.43	3.7	0.56	3.2	0.56	3.1	
-	2.5	0.43	3.8	0.56	3.4	0.56	3.3	
12	-	0.43	4	0.56	3.7	0.56	4.2	
-	4	0.43	4.1	0.56	4.0	0.56	4.4	
10	-	0.89	5.3	0.76	4.9	0.89	5.4	
-	6	0.89	5.4	0.76	5.0	0.89	5.5	
8	-	0.89	6.0	0.76	5.8	0.89	6.1	
-	10	0.89	6.5	0.76	6.2	0.89	6.5	
6	-	0.89	7.2	0.76	6.9	0.89	7.2	
-	16	0.89	7.7	0.76	7.4	0.89	7.7	
4	-	0.89	8.7	0.76	8.4	0.89	8.7	
-	25	0.89	9.1	0.76	8.8	0.89	9.1	
2	35	1.09	10.9	-	-	-	-	
1	-	1.09	11.8	-	-	-	-	
-	50	1.09	12.5	-	-	-	-	
1/0	-	1.09	13.0	-	-	-	-	
2/0	70	1.09	14.4	-	-	-	-	
3/0	-	1.09	15.6	-	-	-	-	
-	95	1.09	16.4	-	-	-	-	
4/0	-	1.09	17.1	-	-	-	-	
-	120	1.09	18.0	-	-	-	-	

Conducting metal **EG** **EG** **EG**

For this product, please contact:

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KEY

- Conducting metals
- B** Tin-plated copper
- B*** Tin-plated copper (ø > 0.38 mm)
- C** Nickel-plated copper
- D** Silver-plated copper
- E** Nickel
- F** Bare copper
- F*** Bare copper (ø > 0.38 mm)
- G** Nickel-plated copper 27 %

- AWM I A** Internal wiring, not subject to mechanical abuse
- AWM I A/B** Internal wiring
- AWM II A/B** External or Internal wiring

- NS** Not Specified
- VNS** Voltage Not Specified

■: UL approved nominal cross-sections only.

* The diameter is provided for information purposes as it may vary depending on the stranding of the core. Only the average thickness of insulation should be taken into account.

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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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Style no.		5335		5107		5138	
Approval		450 °C – 600 V		450 °C – 600 V		450 °C – 600 V	
Nominal cross-section AWG	(mm ²)	Average thickness of insulation (mm)	Nominal diameter* (mm)	Average thickness of insulation (mm)	Nominal diameter* (mm)	Average thickness of insulation (mm)	Nominal diameter* (mm)
30	0.05	-	-	-	-	-	-
28	0.09	-	-	-	-	-	-
26	0.13	-	-	0.81	2.3	-	-
24	0.22	-	-	0.81	2.4	-	-
22	0.34	0.71	2.4	0.81	2.6	-	-
-	0.5	0.71	2.6	0.81	2.7	-	-
20	0.6	0.71	2.6	0.81	2.8	-	-
-	0.75	0.71	2.8	0.81	3.0	-	-
18	0.93	0.71	2.9	0.81	3.0	1.57	4.6
-	1	0.71	2.9	0.81	3.1	1.57	4.7
16	1.34	0.71	3.3	0.81	3.4	1.57	5.3
-	1.5	0.71	3.4	0.81	3.4	1.57	5.5
14	-	0.71	3.5	0.81	3.9	1.57	5.7
-	2.5	0.71	3.9	0.81	3.9	1.57	5.9
12	-	0.71	4.1	0.81	4.3	1.57	6.1
-	4	0.71	4.2	0.81	4.4	1.57	6.4
10	-	0.94	5.5	1.14	5.9	1.57	6.8
-	6	0.94	5.6	1.14	6.0	1.57	7.2
8	-	0.94	6.6	1.14	6.6	2.08	8.9
-	10	0.94	6.7	1.14	7.0	2.08	9.1
6	-	0.94	7.6	1.14	7.7	2.08	9.9
-	16	0.94	7.6	1.14	8.1	2.08	10.3
4	-	0.94	8.7	1.14	9.2	2.08	11.4
-	25	0.94	9.6	1.14	9.6	2.08	11.7
2	35	1.19	10.8	1.40	11.4	2.08	13.0
1	-	1.19	11.7	1.40	12.3	-	-
-	50	1.19	12.5	1.40	13.0	-	-
1/0	-	1.19	12.9	1.40	13.5	-	-
2/0	70	1.19	14.3	1.40	14.9	-	-
3/0	-	1.19	15.6	1.40	16.1	-	-
-	95	1.19	16.3	1.40	16.9	-	-
4/0	-	1.19	17.1	1.40	17.6	-	-
-	120	1.19	17.9	1.40	18.5	-	-
Conducting metal		EG		EG		G	

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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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