

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

SILICABLE® 150 °C

Fluoropolymer insulation
Silicone sheathing
UL and cUL approval



Characteristics

General

- Continuous operating temperatures: -60 °C to +150 °C.
- Good resistance to thermal shock and UV.

Electrical

- Rated voltage: as per style no.
- Test voltage: 10 x Rated voltage.

Standard products

- Single conductors: UL and cUL approved fluoropolymer insulated conductors (≥ 150 °C).
- Standard outer sheath colours: black or brick red.
- 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.
- "Horizontal flame test" as per UL approval.
- "Cable flame test" as per UL approval (AWM II A/B only).
- "FT2 flame rating" as per cUL approval.
- "FT1 flame rating" as per cUL approval (AMW II A/B only).

Applications

- Output cables for household and professional electrical heating appliances.
- Cabling for electrical heating appliances, etc.

Options

- Other numbers of conductors and nominal cross-sections: contact us.
- Other colours: contact us.
- Electrical shielding: contact us.
- VW-1 Vertical flame test for Style 4389-E150: contact us.

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.

For this product, please contact:

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SILICONE INSULATED AND/OR SHEATHED WIRES AND CABLES



- 1 • UL and cUL approved conductors with fluoropolymer insulation.
- 2 • Outer sheath: Silicone rubber.

Style no. **4476-E150**
Insulation **ETFE**
Approval

150 °C - 300 V

AWM I A (Wall 0.76 mm) AWM II A/B (Wall 1.14 mm)

No. of cond.	AWG	Nominal cross-section (mm²)	Nominal diameter of the cond.* (mm)	Nominal diameter of the cable* (mm)	Nominal diameter of the cable* (mm)
2	26	0.13	0.75	3.0	3.7
3	26	0.13	0.75	3.1	3.9
4	26	0.13	0.75	3.3	4.1
5	26	0.13	0.75	3.5	4.3
7	26	0.13	0.75	3.7	4.5
2	24	0.22	0.9	3.3	4.0
3	24	0.22	0.9	3.4	4.2
4	24	0.22	0.9	3.7	4.4
5	24	0.22	0.9	3.9	4.7
7	24	0.22	0.9	4.2	5.0
2	22	0.34	1.05	3.6	4.3
3	22	0.34	1.05	3.8	4.5
4	22	0.34	1.05	4.0	4.8
5	22	0.34	1.05	4.3	5.1
7	22	0.34	1.05	4.6	5.4
2	-	0.5	1.25	4.0	4.7
3	-	0.5	1.25	4.2	4.9
4	-	0.5	1.25	4.5	5.3
5	-	0.5	1.25	4.9	5.6
7	-	0.5	1.25	5.2	6.0
2	20	0.6	1.3	4.1	4.8
3	20	0.6	1.3	4.3	5.1
4	20	0.6	1.3	4.6	5.4
5	20	0.6	1.3	5.0	5.8
7	20	0.6	1.3	5.4	6.1
2	-	0.75	1.4	4.3	5.0
3	-	0.75	1.4	4.5	5.3
4	-	0.75	1.4	4.9	5.6
5	-	0.75	1.4	5.3	6.0
7	-	0.75	1.4	5.7	6.4
2	18	0.93	1.55	4.6	5.3
3	18	0.93	1.55	4.8	5.6
4	18	0.93	1.55	5.2	6.0
5	18	0.93	1.55	5.7	6.4
7	18	0.93	1.55	6.1	6.9
2	-	1	1.65	4.8	5.5
3	-	1	1.65	5.1	5.8
4	-	1	1.65	5.5	6.2
5	-	1	1.65	6.0	6.7
7	-	1	1.65	6.4	7.2
2	16	1.34	1.9	5.3	6.0
3	16	1.34	1.9	5.6	6.3
4	16	1.34	1.9	6.1	6.8
5	16	1.34	1.9	6.6	7.4
7	16	1.34	1.9	7.2	7.9
2	-	1.5	1.9	5.3	6.0
3	-	1.5	1.9	5.6	6.3
4	-	1.5	1.9	6.1	6.8
5	-	1.5	1.9	6.6	7.4
7	-	1.5	1.9	7.2	7.9
2	14	-	2.25	6.0	6.7
3	14	-	2.25	6.3	7.1
4	14	-	2.25	6.9	7.7
5	14	-	2.25	7.6	8.3
7	14	-	2.25	8.2	9.0

Conducting metal

BCDEG

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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. Insulation Approval			4476-E150 ETFE				4389-E150 ETFE				4476-E150 ETFE		
			150 °C - 600 V		150 °C - 600 V		150 °C - 600 V		150 °C - 600 V		150 °C - 1 000 V (cUL 600 V)		
			AWM I A (Wall 0.76 mm)		AWM I A (Wall 0.76 mm)		AWM II A/B (Wall 1.14 mm)		AWM II A/B (Wall 1.14 mm)		AWM I A (Wall 0.76 mm)	AWM II A/B (Wall 1.14 mm)	
No. of cond.	AWG	Nominal cross-section (mm ²)	Nominal diameter of the cond.* (mm)	Nominal diameter of the cable* (mm)	Nominal diameter of the cond.* (mm)	Nominal diameter of the cable* (mm)	Nominal diameter of the cond.* (mm)	Nominal diameter of the cable* (mm)	Nominal diameter of the cond.* (mm)	Nominal diameter of the cable* (mm)	Nominal diameter of the cond.* (mm)	Nominal diameter of the cable* (mm)	Nominal diameter of the cable* (mm)
2	26	0.13	1.05	3.6	-	-	1.05	4.3	-	-	1.55	4.6	5.3
3	26	0.13	1.05	3.8	-	-	1.05	4.5	-	-	1.55	4.8	5.6
4	26	0.13	1.05	4.0	-	-	1.05	4.8	-	-	1.55	5.2	6.0
5	26	0.13	1.05	4.3	-	-	1.05	5.1	-	-	1.55	5.7	6.4
7	26	0.13	1.05	4.6	-	-	1.05	5.4	-	-	1.55	6.1	6.9
2	24	0.22	1.15	3.8	0.9	3.3	1.15	4.5	0.9	4.0	1.65	4.8	5.5
3	24	0.22	1.15	4.0	0.9	3.4	1.15	4.7	0.9	4.2	1.65	5.0	5.8
4	24	0.22	1.15	4.3	0.9	3.6	1.15	5.0	0.9	4.4	1.65	5.5	6.2
5	24	0.22	1.15	4.6	0.9	3.9	1.15	5.3	0.9	4.7	1.65	5.9	6.7
7	24	0.22	1.15	4.9	0.9	4.2	1.15	5.7	0.9	5.0	1.65	6.4	7.2
2	22	0.34	1.3	4.1	1.05	3.6	1.3	4.8	1.05	4.3	1.8	5.1	5.8
3	22	0.34	1.3	4.3	1.05	3.7	1.3	5.1	1.05	4.5	1.8	5.4	6.1
4	22	0.34	1.3	4.6	1.05	4.0	1.3	5.4	1.05	4.8	1.8	5.8	6.6
5	22	0.34	1.3	5.0	1.05	4.3	1.3	5.8	1.05	5.1	1.8	6.3	7.1
7	22	0.34	1.3	5.4	1.05	4.6	1.3	6.2	1.05	5.4	1.8	6.9	7.6
2	-	0.5	1.4	4.3	1.25	4.0	1.4	5.0	1.25	4.7	1.95	5.4	6.1
3	-	0.5	1.4	4.5	1.25	4.2	1.4	5.3	1.25	4.9	1.95	5.7	6.5
4	-	0.5	1.4	4.9	1.25	4.5	1.4	5.6	1.25	5.3	1.95	6.2	6.9
5	-	0.5	1.4	5.3	1.25	4.9	1.4	6.0	1.25	5.6	1.95	6.7	7.5
7	-	0.5	1.4	5.7	1.25	5.2	1.4	6.4	1.25	6.0	1.95	7.3	8.1
2	20	0.6	1.5	4.5	1.35	4.2	1.5	5.2	1.35	4.9	2.0	5.5	6.2
3	20	0.6	1.5	4.7	1.35	4.4	1.5	5.5	1.35	5.2	2.0	5.8	6.6
4	20	0.6	1.5	5.1	1.35	4.7	1.5	5.9	1.35	5.5	2.0	6.3	7.1
5	20	0.6	1.5	5.5	1.35	5.1	1.5	6.3	1.35	5.9	2.0	6.9	7.6
7	20	0.6	1.5	6.0	1.35	5.5	1.5	6.7	1.35	6.3	2.0	7.5	8.2
2	-	0.75	1.55	4.6	1.4	4.3	1.55	5.3	1.4	5.0	2.1	5.7	6.4
3	-	0.75	1.55	4.8	1.4	4.5	1.55	5.6	1.4	5.3	2.1	6.0	6.8
4	-	0.75	1.55	5.2	1.4	4.9	1.55	6.0	1.4	5.6	2.1	6.5	7.3
5	-	0.75	1.55	5.7	1.4	5.3	1.55	6.4	1.4	6.0	2.1	7.2	7.9
7	-	0.75	1.55	6.1	1.4	5.7	1.55	6.9	1.4	6.4	2.1	7.8	8.5
2	18	0.93	1.8	5.1	1.55	4.6	1.8	5.8	1.55	5.3	2.25	6.0	6.7
3	18	0.93	1.8	5.4	1.55	4.8	1.8	6.1	1.55	5.6	2.25	6.3	7.1
4	18	0.93	1.8	5.8	1.55	5.2	1.8	6.6	1.55	6.0	2.25	6.9	7.7
5	18	0.93	1.8	6.3	1.55	5.7	1.8	7.1	1.55	6.4	2.25	7.6	8.3
7	18	0.93	1.8	6.9	1.55	6.1	1.8	7.6	1.55	6.9	2.25	8.2	9.0
2	-	1	1.8	5.1	1.65	4.8	1.8	5.8	1.65	5.5	2.3	6.1	6.8
3	-	1	1.8	5.4	1.65	5.0	1.8	6.1	1.65	5.8	2.3	6.4	7.2
4	-	1	1.8	5.8	1.65	5.5	1.8	6.6	1.65	6.2	2.3	7.0	7.8
5	-	1	1.8	6.3	1.65	5.9	1.8	7.1	1.65	6.7	2.3	7.7	8.5
7	-	1	1.8	6.9	1.65	6.4	1.8	7.6	1.65	7.2	2.3	8.4	9.1
2	16	1.34	2.0	5.5	1.9	5.3	2.0	6.2	1.9	6.0	2.5	6.5	7.2
3	16	1.34	2.0	5.8	1.9	5.6	2.0	6.6	1.9	6.3	2.5	6.9	7.6
4	16	1.34	2.0	6.3	1.9	6.1	2.0	7.1	1.9	6.8	2.5	7.5	8.3
5	16	1.34	2.0	6.9	1.9	6.6	2.0	7.6	1.9	7.4	2.5	8.2	9.0
7	16	1.34	2.0	7.5	1.9	7.2	2.0	8.2	1.9	7.9	2.5	9.0	9.7
2	-	1.5	2.0	5.5	1.9	5.3	2.0	6.2	1.9	6.0	2.55	6.6	7.3
3	-	1.5	2.0	5.8	1.9	5.6	2.0	6.6	1.9	6.3	2.55	7.0	7.7
4	-	1.5	2.0	6.3	1.9	6.1	2.0	7.1	1.9	6.8	2.55	7.6	8.4
5	-	1.5	2.0	6.9	1.9	6.6	2.0	7.6	1.9	7.4	2.55	8.4	9.1
7	-	1.5	2.0	7.5	1.9	7.2	2.0	8.2	1.9	7.9	2.55	9.1	9.9
2	14	-	2.4	6.3	2.25	6.0	2.4	7.0	2.25	6.7	2.85	7.2	7.9
3	14	-	2.4	6.7	2.25	6.3	2.4	7.4	2.25	7.1	2.85	7.6	8.4
4	14	-	2.4	7.3	2.25	6.9	2.4	8.0	2.25	7.7	2.85	8.3	9.1
5	14	-	2.4	8.0	2.25	7.6	2.4	8.7	2.25	8.3	2.85	9.2	9.9
7	14	-	2.4	8.7	2.25	8.2	2.4	9.4	2.25	9.0	2.85	10.0	10.8
Conducting metal			BCDEFG		BCDEFG		BCDEFG		BCDEFG		BCDEFG		

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