

SILIFLON® 200 °C

Fluoropolymer insulation
Fluoropolymer sheathing
UL and cUL approval



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

Characteristics General

- Continuous operating temperatures: -90 °C to +200 °C.
- Excellent resistance to aggressive chemical environments.
 - Excellent resistance to humidity and UV.
 - Excellent mechanical strength.

Electrical

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

Standard products

- Single conductors: UL and cUL approved conductors with fluoropolymer insulation (≥ 200 °C).
- Outer sheath colours: white, black or grey.
- Stranding of conducting cores: contact us.

Approvals - standards

- UL and cUL approval as per standard UL 758 and C22.2 No. 210 – File no.: E101965.
- "Horizontal flame test" or "Cable flame test" as per UL approval.
- "FT1 flame rating" as per cUL approval.

Applications

- Internal cabling for electrical heating appliances.
- External connections for electrical heating appliances.

Options

- Electrical shielding: Tin-plated copper braid, or aluminium tape + continuity wire.
- Other outer sheath colours: contact us.
- Other nominal cross-sections: contact us.
- Conductors with a silicone insulation : contact us.
- Other style nos. available: styles no. 2895, 20262, 20920.

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 or the sheathing should be taken into account.

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



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.

Style no. Insulation Approval

No. of cond.	AWG	Nominal cross-section (mm ²)	20711-F200 ETFE "Thin-wall"		20711-F200 FEP		2749-F200 ETFE "Thin-wall"	
			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)
200 °C - 300 V AWM I A/B (Wall 0.25 mm)								
2	26	0.13	0.8	2.1	1.0	2.5	0.8	2.6
3	26	0.13	0.8	2.2	1.0	2.8	0.8	2.7
4	26	0.13	0.8	2.4	1.0	3.0	0.8	2.9
5	26	0.13	0.8	2.7	1.0	3.3	0.8	3.1
7	26	0.13	0.8	3.0	1.0	3.6	0.8	3.4
200 °C - 300 V AWM I A/B (Wall 0.25 mm)								
2	24	0.22	0.9	2.3	1.1	2.8	0.9	2.8
3	24	0.22	0.9	2.4	1.1	3.0	0.9	2.9
4	24	0.22	0.9	2.7	1.1	3.3	0.9	3.1
5	24	0.22	0.9	3.0	1.1	3.6	0.9	3.4
7	24	0.22	0.9	3.3	1.1	4.1	0.9	3.7
200 °C - 300 V AWM I A/B (Wall 0.51 mm)								
2	22	0.34	1.05	2.7	1.25	3.1	1.05	3.1
3	22	0.34	1.05	2.8	1.25	3.3	1.05	3.2
4	22	0.34	1.05	3.1	1.25	3.8	1.05	3.5
5	22	0.34	1.05	3.4	1.25	4.2	1.05	3.8
7	22	0.34	1.05	3.9	1.25	4.6	1.05	4.1
200 °C - 300 V AWM I A/B (Wall 0.51 mm)								
2	-	0.5	1.25	3.1	1.4	3.4	1.25	3.5
3	-	0.5	1.25	3.3	1.4	3.8	1.25	3.7
4	-	0.5	1.25	3.8	1.4	4.2	1.25	4.0
5	-	0.5	1.25	4.1	1.4	4.6	1.25	4.3
7	-	0.5	1.25	4.5	1.4	5.0	1.25	4.7
200 °C - 300 V AWM I A/B (Wall 0.51 mm)								
2	20	0.6	1.3	3.2	1.5	3.6	1.3	3.6
3	20	0.6	1.3	3.4	1.5	4.0	1.3	3.8
4	20	0.6	1.3	3.9	1.5	4.4	1.3	4.1
5	20	0.6	1.3	4.3	1.5	4.9	1.3	4.5
7	20	0.6	1.3	4.7	1.5	5.3	1.3	4.9
200 °C - 300 V AWM I A/B (Wall 0.51 mm)								
2	-	0.75	1.4	3.4	1.55	3.9	1.4	3.8
3	-	0.75	1.4	3.8	1.55	4.1	1.4	4.0
4	-	0.75	1.4	4.1	1.55	4.5	1.4	4.3
5	-	0.75	1.4	4.5	1.55	5.0	1.4	4.8
7	-	0.75	1.4	5.0	1.55	5.5	1.4	5.2
200 °C - 300 V AWM I A/B (Wall 0.51 mm)								
2	18	0.93	1.55	3.9	1.7	4.2	1.55	4.1
3	18	0.93	1.55	4.1	1.7	4.5	1.55	4.3
4	18	0.93	1.55	4.5	1.7	4.9	1.55	4.7
5	18	0.93	1.55	4.9	1.7	5.4	1.55	5.2
7	18	0.93	1.55	5.4	1.7	6.1	1.55	5.6
200 °C - 300 V AWM I A/B (Wall 0.51 mm)								
2	-	1	1.65	4.1	1.8	4.4	1.65	4.3
3	-	1	1.65	4.3	1.8	4.7	1.65	4.5
4	-	1	1.65	4.7	1.8	5.1	1.65	4.9
5	-	1	1.65	5.2	1.8	5.7	1.65	5.4
7	-	1	1.65	5.7	1.8	6.4	1.65	5.9
200 °C - 300 V AWM I A/B (Wall 0.51 mm)								
2	16	1.34	1.9	4.6	2.0	4.8	1.9	4.8
3	16	1.34	1.9	4.9	2.0	5.1	1.9	5.1
4	16	1.34	1.9	5.3	2.0	5.6	1.9	5.5
5	16	1.34	1.9	6.1	2.0	6.4	1.9	6.1
7	16	1.34	1.9	6.7	2.0	7.0	1.9	6.7
200 °C - 300 V AWM I A/B (Wall 0.51 mm)								
2	-	1.5	1.9	4.6	2.0	4.8	1.9	4.8
3	-	1.5	1.9	4.9	2.0	5.1	1.9	5.1
4	-	1.5	1.9	5.3	2.0	5.6	1.9	5.5
5	-	1.5	1.9	6.1	2.0	6.4	1.9	6.1
7	-	1.5	1.9	6.7	2.0	7.0	1.9	6.7
200 °C - 300 V AWM I A/B (Wall 0.51 mm)								
2	14	-	2.25	5.3	2.4	5.6	2.25	5.5
3	14	-	2.25	5.6	2.4	6.2	2.25	5.8
4	14	-	2.25	6.4	2.4	6.8	2.25	6.4
5	14	-	2.25	7.0	2.4	7.5	2.25	7.0
7	14	-	2.25	7.7	2.4	8.4	2.25	7.7

Conducting metal

B*CDEF*G

B*CDEG

B*CDEF*G

Style no. Insulation			2749-F200 FEP		20710-F200 ETFE "Thin-wall"		20710-F200 FEP		2750-F200 ETFE "Thin-wall"		2750-F200 FEP	
Approval			200 °C - 300 V AWM I A/B (Wall 0.25 mm)		200 °C - 600 V AWM I A/B (Wall 0.30 mm)		200 °C - 600 V AWM I A/B (Wall 0.30 mm)		200 °C - 600 V AWM I A/B (Wall 0.51 mm)		200 °C - 600 V AWM I A/B (Wall 0.51 mm)	
No. of cond.	Nominal cross-section		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)
	AWG	(mm ²)										
2	26	0.13	1.0	3.0	1.0	2.6	1.2	3.0	1.0	3.0	1.2	3.4
3	26	0.13	1.0	3.2	1.0	2.7	1.2	3.2	1.0	3.1	1.2	3.6
4	26	0.13	1.0	3.4	1.0	3.0	1.2	3.5	1.0	3.4	1.2	3.9
5	26	0.13	1.0	3.7	1.0	3.3	1.2	4.0	1.0	3.7	1.2	4.3
7	26	0.13	1.0	4.0	1.0	3.6	1.2	4.4	1.0	4.0	1.2	4.6
2	24	0.22	1.1	3.2	1.1	2.8	1.35	3.3	1.1	3.2	1.35	3.7
3	24	0.22	1.1	3.4	1.1	2.9	1.35	3.5	1.1	3.3	1.35	3.9
4	24	0.22	1.1	3.7	1.1	3.2	1.35	4.1	1.1	3.6	1.35	4.3
5	24	0.22	1.1	4.0	1.1	3.5	1.35	4.4	1.1	3.9	1.35	4.7
7	24	0.22	1.1	4.3	1.1	4.1	1.35	4.9	1.1	4.3	1.35	5.1
2	22	0.34	1.25	3.5	1.25	3.1	1.45	3.5	1.25	3.5	1.45	3.9
3	22	0.34	1.25	3.7	1.25	3.3	1.45	3.9	1.25	3.7	1.45	4.2
4	22	0.34	1.25	4.0	1.25	3.8	1.45	4.3	1.25	4.0	1.45	4.5
5	22	0.34	1.25	4.4	1.25	4.1	1.45	4.7	1.25	4.3	1.45	4.9
7	22	0.34	1.25	4.8	1.25	4.5	1.45	5.2	1.25	4.7	1.45	5.4
2	-	0.5	1.4	3.8	1.4	3.4	1.65	4.1	1.4	3.8	1.65	4.3
3	-	0.5	1.4	4.0	1.4	3.8	1.65	4.4	1.4	4.0	1.65	4.6
4	-	0.5	1.4	4.4	1.4	4.1	1.65	4.8	1.4	4.3	1.65	5.0
5	-	0.5	1.4	4.8	1.4	4.5	1.65	5.3	1.4	4.8	1.65	5.5
7	-	0.5	1.4	5.2	1.4	5.0	1.65	5.8	1.4	5.2	1.65	6.0
2	20	0.6	1.5	4.0	1.5	3.6	1.7	4.2	1.5	4.0	1.7	4.4
3	20	0.6	1.5	4.3	1.5	4.0	1.7	4.5	1.5	4.2	1.7	4.7
4	20	0.6	1.5	4.6	1.5	4.4	1.7	4.9	1.5	4.6	1.7	5.1
5	20	0.6	1.5	5.1	1.5	4.8	1.7	5.4	1.5	5.0	1.7	5.6
7	20	0.6	1.5	5.5	1.5	5.3	1.7	6.1	1.5	5.5	1.7	6.1
2	-	0.75	1.55	4.1	1.55	3.9	1.8	4.4	1.55	4.1	1.8	4.6
3	-	0.75	1.55	4.4	1.55	4.1	1.8	4.7	1.55	4.3	1.8	4.9
4	-	0.75	1.55	4.8	1.55	4.5	1.8	5.1	1.55	4.7	1.8	5.4
5	-	0.75	1.55	5.2	1.55	4.9	1.8	5.7	1.55	5.2	1.8	5.9
7	-	0.75	1.55	5.7	1.55	5.4	1.8	6.4	1.55	5.6	1.8	6.4
2	18	0.93	1.7	4.4	1.8	4.4	2.0	4.8	1.8	4.6	2.0	5.0
3	18	0.93	1.7	4.7	1.8	4.6	2.0	5.1	1.8	4.9	2.0	5.3
4	18	0.93	1.7	5.1	1.8	5.1	2.0	5.6	1.8	5.3	2.0	5.8
5	18	0.93	1.7	5.6	1.8	5.6	2.0	6.4	1.8	5.8	2.0	6.4
7	18	0.93	1.7	6.1	1.8	6.4	2.0	7.0	1.8	6.4	2.0	7.0
2	-	1	1.8	4.6	1.8	4.4	2.0	4.8	1.8	4.6	2.0	5.0
3	-	1	1.8	4.9	1.8	4.6	2.0	5.1	1.8	4.9	2.0	5.3
4	-	1	1.8	5.4	1.8	5.1	2.0	5.6	1.8	5.3	2.0	5.8
5	-	1	1.8	5.9	1.8	5.6	2.0	6.4	1.8	5.8	2.0	6.4
7	-	1	1.8	6.4	1.8	6.4	2.0	7.0	1.8	6.4	2.0	7.0
2	16	1.34	2.0	5.0	2.0	4.8	2.2	5.2	2.0	5.0	2.2	5.4
3	16	1.34	2.0	5.3	2.0	5.1	2.2	5.6	2.0	5.3	2.2	5.8
4	16	1.34	2.0	5.8	2.0	5.6	2.2	6.3	2.0	5.8	2.2	6.3
5	16	1.34	2.0	6.4	2.0	6.4	2.2	6.9	2.0	6.4	2.2	7.0
7	16	1.34	2.0	7.0	2.0	7.0	2.2	7.6	2.0	7.0	2.2	7.6
2	-	1.5	2.0	5.0	2.0	4.8	2.3	5.4	2.0	5.0	2.3	5.6
3	-	1.5	2.0	5.3	2.0	5.1	2.3	5.8	2.0	5.3	2.3	6.0
4	-	1.5	2.0	5.8	2.0	5.6	2.3	6.5	2.0	5.8	2.3	6.6
5	-	1.5	2.0	6.4	2.0	6.4	2.3	7.2	2.0	6.4	2.3	7.2
7	-	1.5	2.0	7.0	2.0	7.0	2.3	7.9	2.0	7.0	2.3	7.9
2	14	-	2.4	5.8	2.4	5.6	2.6	6.2	2.4	5.8	2.6	6.2
3	14	-	2.4	6.2	2.4	6.1	2.6	6.6	2.4	6.2	2.6	6.6
4	14	-	2.4	6.8	2.4	6.7	2.6	7.3	2.4	6.8	2.6	7.3
5	14	-	2.4	7.5	2.4	7.4	2.6	8.2	2.4	7.5	2.6	8.2
7	14	-	2.4	8.4	2.4	8.4	2.6	9.0	2.4	8.4	2.6	9.0

Conducting metal

B*CDEG

B*CDEF*G

B*CDEF*G

B*CDEF*G

B*CDEF*G