

SILIFLON® 200°C

Fluoropolymer insulation

UL and cUL approval



- 1 • Bare, tin-plated, nickel-plated or silver-plated copper core.
- 2 • Insulation: Fluorinated polymer.

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.
- “FT1 flame rating” as per cUL approval.
 - VW-1 approval.

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

- All colours including translucent.
- Stranding of conducting cores: contact us.

Applications

- Cabling for household electrical heating appliances, rotating machines, industrial machines, electronic equipment, rear computer panels, etc.

Options

- Other nominal cross-sections: contact us.

Nominal cross-section AWG (mm²)	Style no. Insulation Approval		10109 ETFE "Thin-wall" 200°C - 300 V		10969 FEP 200°C - 300 V		1900 FEP 200°C - 300 V		1332 FEP "Thick-wall" 200°C - 300 V	
	Average thickness of insulation (mm)	Nominal diameter* (mm)	Average thickness of insulation (mm)	Nominal diameter* (mm)	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	0.15	0.6	0.20	0.7	0.25	0.8	0.33	0.95
28	0.09	0.15	0.7	0.20	0.8	0.25	0.9	0.33	1.05	0.33
26	0.13	0.15	0.8	0.20	0.9	0.25	1.0	0.33	1.15	0.33
24	0.22	0.15	0.9	0.20	1.0	0.25	1.1	0.33	1.3	0.33
22	0.34	0.15	1.05	0.20	1.15	0.25	1.25	0.33	1.45	0.33
-	0.5	0.15	1.25	0.20	1.3	0.25	1.4	0.33	1.55	0.33
20	0.6	0.15	1.3	0.20	1.4	0.25	1.5	0.33	1.7	0.33
-	0.75	0.15	1.4	0.33	1.75	0.25	1.55	0.33	1.75	0.33
18	0.93	0.15	1.55	0.33	1.9	0.25	1.7	0.33	1.9	0.33
-	1	0.15	1.65	0.33	1.95	0.25	1.8	0.33	1.95	0.33
16	1.34	0.20	1.9	0.33	2.1	0.25	2.0	0.33	2.1	0.33
-	1.5	0.20	1.9	0.33	2.2	0.25	2.0	0.33	2.2	0.33
14	-	0.20	2.25	0.33	2.5	0.25	2.4	0.33	2.7	0.33
-	2.5	0.20	2.45	0.33	2.7	0.25	2.55	0.33	2.7	0.33
12	-	0.25	2.9	0.33	3.2	0.25	2.9	0.33	3.2	0.33
-	4	0.25	3.1	0.33	3.25	0.25	3.1	0.33	3.25	0.33
10	-	0.25	3.6	0.33	3.9	0.25	3.6	0.33	3.9	0.33
-	6	0.25	3.7	0.33	3.9	0.25	3.7	0.33	3.9	0.33
8	-	0.64	5.4	-	-	-	-	-	-	-
-	10	0.64	5.7	-	-	-	-	-	-	-
6	-	0.64	6.6	-	-	-	-	-	-	-
-	16	0.64	6.7	-	-	-	-	-	-	-
4	-	0.64	7.8	-	-	-	-	-	-	-
-	25	0.64	8.3	-	-	-	-	-	-	-
2	35	0.89	10.0	-	-	-	-	-	-	-
1	-	0.89	11.0	-	-	-	-	-	-	-
-	50	0.89	11.4	-	-	-	-	-	-	-
1/0	-	1.14	12.5	-	-	-	-	-	-	-
2/0	70	1.14	14.0	-	-	-	-	-	-	-
3/0	-	1.14	15.2	-	-	-	-	-	-	-
-	95	1.14	15.4	-	-	-	-	-	-	-
4/0	-	1.14	16.8	-	-	-	-	-	-	-
-	120	1.14	17.1	-	-	-	-	-	-	-
Conducting metal			B*CDEF*G	B*CDEF*G	B*CDEG	B*CDEF*G	B*CDEG	B*CDEF*G	B*CDEF*G	B*CDEF*G

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 Nickelplated 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.

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

* 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.

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 some cases, for production purposes, a separating tape may be added between two successive layers. 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		10086 ETFE "Thin-wall" 200°C - 600 V		10588 FEP "Thin-wall" 200°C - 600 V		1901 FEP 200°C - 600 V		1330 FEP "Thick-wall" 200°C - 600 V		1930 PFA "Thick-wall" 200°C - 600 V		10203 FEP 200°C - 1 000 V		10048 FEP "Thick-wall" 200°C - 1 000 V	
Nominal cross-section		Average thickness of insulation (mm)	Nominal diameter* (mm)	Average thickness of insulation (mm)	Nominal diameter* (mm)	Average thickness of insulation (mm)	Nominal diameter* (mm)	Average thickness of insulation (mm)	Nominal diameter* (mm)	Average thickness of insulation (mm)	Nominal diameter* (mm)	Average thickness of insulation (mm)	Nominal diameter* (mm)	Average thickness of insulation (mm)	Nominal diameter* (mm)
AWG	(mm ²)														
30	0.05	0.25	0.8	0.23	0.75	0.36	1.0	0.51	1.3	0.51	1.3	0.51	1.3	0.64	1.6
28	0.09	0.25	0.9	0.23	0.85	0.36	1.1	0.51	1.4	0.51	1.4	0.51	1.4	0.64	1.7
26	0.13	0.25	1.0	0.23	0.95	0.36	1.2	0.51	1.5	0.51	1.5	0.51	1.5	0.64	1.8
24	0.22	0.25	1.1	0.23	1.05	0.36	1.35	0.51	1.65	0.51	1.65	0.51	1.65	0.64	1.9
22	0.34	0.25	1.25	0.23	1.2	0.36	1.5	0.51	1.85	0.51	1.8	0.51	1.8	0.64	2.05
-	0.5	0.25	1.4	0.23	1.35	0.36	1.65	0.51	1.95	0.51	1.95	0.51	1.95	0.64	2.2
20	0.6	0.25	1.5	0.23	1.45	0.36	1.7	0.51	2.0	0.51	2.0	0.51	2.0	0.64	2.3
-	0.75	0.25	1.55	0.23	1.5	0.36	1.8	0.51	2.1	0.51	2.1	0.51	2.1	0.64	2.4
18	0.93	0.25	1.7	0.23	1.65	0.36	2.0	0.51	2.25	0.51	2.25	0.51	2.25	0.64	2.55
-	1	0.25	1.8	0.23	1.75	0.36	2.0	0.51	2.3	0.51	2.3	0.51	2.3	0.64	2.6
16	1.34	0.25	2.0	0.23	1.95	0.36	2.2	0.51	2.5	0.51	2.55	0.51	2.5	0.64	2.8
-	1.5	0.25	2.0	0.23	1.95	0.36	2.3	0.51	2.55	0.51	2.55	0.51	2.55	0.64	2.85
14	-	0.25	2.4	0.23	2.35	0.36	2.7	0.51	3.0	0.51	3.0	0.51	3.0	0.64	3.2
-	2.5	0.25	2.55	0.23	2.5	0.36	2.75	0.51	3.0	0.51	3.0	0.51	3.0	0.64	3.3
12	-	0.38	3.2	0.23	2.9	0.36	3.1	0.51	3.4	0.51	3.4	0.51	3.4	0.64	3.6
-	4	0.38	3.35	0.23	3.1	0.36	3.3	0.51	3.6	0.51	3.6	0.51	3.6	0.64	3.9
10	-	0.38	3.8	0.23	3.5	0.36	3.8	0.51	4.0	0.51	4.0	0.51	4.0	0.64	4.3
-	6	0.38	4.0	-	-	0.36	4.0	0.51	4.3	0.51	4.3	0.51	4.3	0.64	4.5
8	-	0.64	5.4	-	-	0.51	5.2	0.76	5.3	0.76	5.6	0.76	5.6	-	-
-	10	0.64	5.7	-	-	0.51	5.4	0.76	5.9	0.76	5.9	0.76	5.9	-	-
6	-	0.64	6.6	-	-	0.51	6.3	0.76	6.8	0.76	6.8	0.76	6.8	-	-
-	16	0.64	6.7	-	-	0.51	6.6	0.76	7.1	0.76	7.1	0.76	7.1	-	-
4	-	0.64	7.8	-	-	0.51	7.4	0.76	8.0	0.76	8.0	0.76	8.0	-	-
-	25	0.64	8.3	-	-	0.51	8.0	0.76	8.5	0.76	8.5	0.76	8.5	-	-
2	35	0.89	10.0	-	-	0.51	9.3	0.76	9.2	0.76	9.2	0.76	9.2	-	-
1	-	0.89	11.0	-	-	0.76	10.7	1.14	11.2	1.14	11.2	1.14	11.2	-	-
-	50	0.89	11.4	-	-	0.76	11.1	1.14	12.0	1.14	12.0	1.14	12.0	-	-
1/0	-	1.14	12.5	-	-	0.76	11.7	1.14	12.5	1.14	12.5	1.14	12.5	-	-
2/0	70	1.14	14.0	-	-	0.76	12.8	1.14	14.0	1.14	14.0	1.14	14.0	-	-
3/0	-	1.14	15.2	-	-	0.76	14.4	1.14	15.2	1.14	15.2	1.14	15.2	-	-
-	95	1.14	15.4	-	-	0.76	14.6	1.14	15.4	1.14	15.4	1.14	15.4	-	-
4/0	-	1.14	16.8	-	-	0.76	16.0	1.14	16.8	1.14	16.8	1.14	16.8	-	-
-	120	1.14	17.1	-	-	0.76	16.3	1.14	17.1	1.14	17.1	1.14	17.1	-	-
Conducting metal		B*CDEF*G		B*CDEF*G		B*CDEF*G		B*CDEF*G		B*CDEF*G		B*CDEF*G		B*CDEG	

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.

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

* 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.

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 some cases, for production purposes, a separating tape may be added between two successive layers. 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.