

SILIFLON® 150 °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 for Style 1333, Style 10126 and Style 11945 (AWG 24 to 18 Cross-sections).

Characteristics General

- Continuous operating temperatures: -90 °C to +150 °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.
- Other style nos. available: styles no. 1591, 1814, 1829, 1857, 1858, 1859, 11537, 10211.

Style no. 1827

Insulation ETFE “Thin-wall”
Approval

10125

ETFE “Thin-wall”

1828

ETFE

1643

ETFE

150 °C – 125 V			150 °C – 300 V		150 °C – 300 V		150 °C – 300 V	
Nominal cross-section	Average thickness of insulation (mm)	Nominal diameter*	Average thickness of insulation (mm)	Nominal diameter*	Average thickness of insulation (mm)	Nominal diameter*	Average thickness of insulation (mm)	Nominal diameter*
30	0.05	0.14	0.15	0.6	0.15	0.7	0.33	0.95
28	0.09	0.14	0.15	0.7	0.15	0.75	0.33	1.05
26	0.13	0.14	0.15	0.75	0.15	0.9	0.33	1.15
24	0.22	0.14	0.15	0.9	0.15	1.05	0.33	1.3
22	0.34	0.14	0.15	1.05	0.15	1.25	0.33	1.4
-	0.5	0.14	0.15	1.2	0.15	1.3	0.33	1.6
20	0.6	0.14	0.15	1.3	0.15	1.4	0.33	1.65
-	0.75	0.20	0.15	1.5	0.15	1.55	0.33	1.75
18	0.93	0.20	0.15	1.65	0.15	1.65	0.33	1.9
-	1	0.20	0.15	1.7	0.20	1.9	0.33	1.95
16	1.34	0.20	0.20	1.9	0.20	1.9	0.33	2.2
-	1.5	0.20	0.20	1.9	0.20	2.2	0.33	2.2
14	-	0.33	0.20	2.55	0.20	2.5	0.33	2.55
-	2.5	0.33	0.20	2.7	0.20	2.45	0.33	2.7
12	-	0.33	0.25	3.1	0.25	2.9	0.33	3.0
-	4	0.33	0.25	3.25	0.25	3.1	0.33	3.1
10	-	0.33	0.25	3.7	0.25	3.6	0.33	3.25
-	6	0.33	0.25	3.9	0.25	3.7	0.33	3.7
8	-	-	0.64	5.4	0.64	5.4	-	0.51
-	10	-	0.64	5.7	0.64	5.7	-	0.51
6	-	-	0.64	6.6	0.64	6.6	-	0.51
-	16	-	0.64	6.7	0.64	6.7	-	0.51
4	-	-	0.64	7.8	0.64	7.8	-	0.51
-	25	-	0.64	8.3	0.64	8.3	-	0.51
2	35	-	0.89	10.0	0.89	10.0	-	0.51
1	-	-	0.89	11.0	0.89	11.0	-	0.76
-	50	-	0.89	11.4	0.89	11.4	-	10.7
1/0	-	-	1.14	12.5	1.14	12.5	-	11.1
2/0	70	-	1.14	14.0	1.14	14.0	-	11.7
3/0	-	-	1.14	15.2	1.14	15.2	-	12.8
-	95	-	1.14	15.4	1.14	15.4	-	14.4
4/0	-	-	1.14	16.8	1.14	16.8	-	14.6
-	120	-	1.14	17.1	1.14	17.1	-	16.0
-	-	-	-	-	-	-	-	16.3

Conducting metal

BCDEFG

BF

BCDEFG

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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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		1333-VW-1 FEP 150 °C – 300 V		10210 ETFE "Thin-wall" 150 °C – 600 V		10126-VW-1 ETFE "Thin-wall" 150 °C – 600 V		1644 ETFE 150 °C – 600 V		1331 FEP 150 °C – 600 V		11945 ETFE "Thin-wall" 150 °C – 750 V		10358 ETFE 150 °C – 1000 V (cUL 600 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)
30	0.05	0.33	0.95	-	-	0.25	0.8	0.51	1.3	0.51	1.3	-	-	0.51	1.3
28	0.09	0.33	1.05	-	-	0.25	0.9	0.51	1.4	0.51	1.4	-	-	0.51	1.4
26	0.13	0.33	1.15	-	-	0.25	1.05	0.51	1.5	0.51	1.5	-	-	0.51	1.5
24	0.22	0.33	1.3	0.15	0.9	0.25	1.15	0.51	1.65	0.51	1.65	0.15	0.9	0.51	1.65
22	0.34	0.33	1.4	0.15	1.05	0.25	1.3	0.51	1.8	0.51	1.8	0.15	1.05	0.51	1.8
-	0.5	0.33	1.6	0.15	1.25	0.25	1.4	0.51	1.95	0.51	1.95	0.15	1.25	0.51	1.95
20	0.6	0.33	1.65	0.15	1.35	0.25	1.5	0.51	2.0	0.51	2.0	0.15	1.35	0.51	2.0
-	0.75	0.33	1.75	0.15	1.4	0.25	1.55	0.51	2.1	0.51	2.1	0.15	1.4	0.51	2.1
18	0.93	0.33	1.9	0.15	1.55	0.25	1.8	0.51	2.25	0.51	2.25	0.15	1.55	0.51	2.25
-	1	0.33	1.95	0.15	1.65	0.25	1.8	0.51	2.3	0.51	2.3	0.15	1.65	0.51	2.3
16	1.34	0.33	2.2	0.20	1.9	0.25	2.0	0.51	2.5	0.51	2.5	0.20	1.9	0.51	2.5
-	1.5	0.33	2.2	0.20	1.9	0.25	2.0	0.51	2.55	0.51	2.55	0.20	1.9	0.51	2.55
14	-	0.33	2.55	0.20	2.25	0.25	2.4	0.51	2.85	0.51	2.85	0.20	2.25	0.51	2.85
-	2.5	0.33	2.7	0.20	2.45	0.25	2.45	0.51	3.0	0.51	3.0	0.20	2.45	0.51	3.0
12	-	0.33	3.1	0.25	2.9	0.38	3.2	0.51	3.25	0.51	3.3	0.25	2.9	0.51	3.3
-	4	0.33	3.25	0.25	3.1	0.38	3.35	0.51	3.6	0.51	3.6	0.25	3.1	0.51	3.6
10	-	0.33	3.7	0.25	3.6	0.38	4.1	0.51	4.1	0.51	4.1	0.25	3.6	0.51	4.1
-	6	0.33	3.9	-	-	0.38	4.5	0.51	4.3	0.51	4.3	-	-	0.51	4.3
8	-	-	-	-	-	0.64	5.4	0.76	5.6	0.76	5.4	-	-	0.76	5.4
-	10	-	-	-	-	0.64	5.7	0.76	5.9	0.76	5.9	-	-	0.76	5.9
6	-	-	-	-	-	0.64	6.6	0.76	6.8	0.76	6.8	-	-	0.76	6.8
-	16	-	-	-	-	0.64	6.7	0.76	7.1	0.76	7.1	-	-	0.76	7.1
4	-	-	-	-	-	0.64	7.8	0.76	8.0	0.76	8.0	-	-	0.76	8.0
-	25	-	-	-	-	0.64	8.3	0.76	8.5	0.76	8.5	-	-	0.76	8.5
2	35	-	-	-	-	0.89	10.0	0.76	9.6	0.76	9.6	-	-	0.76	9.6
1	-	-	-	-	-	0.89	11.0	1.14	11.2	1.14	11.2	-	-	1.14	11.2
-	50	-	-	-	-	0.89	11.4	1.14	12.0	1.14	12.0	-	-	1.14	12.0
1/0	-	-	-	-	-	1.14	12.5	1.14	12.5	1.14	12.5	-	-	1.14	12.5
2/0	70	-	-	-	-	1.14	14.0	1.14	14.6	1.14	14.0	-	-	1.14	14.0
3/0	-	-	-	-	-	1.14	15.2	1.14	15.2	1.14	15.2	-	-	1.14	15.2
-	95	-	-	-	-	1.14	15.4	1.14	15.4	1.14	15.4	-	-	1.14	15.4
4/0	-	-	-	-	-	1.14	16.8	1.14	16.8	1.14	16.8	-	-	1.14	16.8
-	120	-	-	-	-	1.14	17.1	1.14	17.1	1.14	17.1	-	-	1.14	17.1
Conducting metal		BCDEFG		BCDEFG		BCDEFG		BCDEFG		BCDEFG		BCDEFG		BCDEFG	

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