

SILIFLON® 105 °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.

Applications

- Cabling for household electrical heating appliances, small electric motors, electronic equipment, rear computer panels, etc.

Options

- Other nominal cross-sections: contact us.
 - Other style nos. available: styles no. 1226, 1517 and 1523.
- Style n° 1863 (125°C - 300 V): contact us.

Characteristics

General

- Continuous operating temperatures: -90 °C to +105 °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.

Style no.		1513		1227		1508		10101	
Insulation		ETFE “Thin-wall”		FEP		ETFE “Thin-wall”		ETFE	
Approval		105 °C - VNS		105 °C - VNS		105 °C - 30 V		105 °C - 250 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)	
AWG (mm²)									
30 (0.05)	0.13	0.55	0.20	0.7	0.14	0.6	0.25	0.8	
28 (0.09)	0.13	0.65	0.20	0.8	0.14	0.7	0.25	0.9	
26 (0.13)	0.13	0.75	0.20	0.9	0.14	0.75	0.25	1.0	
24 (0.22)	0.13	0.85	0.20	1.0	0.14	0.9	0.25	1.1	
22 (0.34)	0.13	1.0	0.20	1.15	0.14	1.05	0.25	1.25	
- (0.5)	0.13	1.2	0.20	1.3	0.14	1.2	0.25	1.35	
20 (0.6)	0.13	1.25	0.20	1.4	0.14	1.3	0.25	1.45	
- (0.75)	-	-	0.33	1.75	-	-	-	-	
18 (0.93)	-	-	0.33	1.9	-	-	-	-	
- (1)	-	-	0.33	1.95	-	-	-	-	
16 (1.34)	-	-	0.33	2.2	-	-	-	-	
- (1.5)	-	-	0.33	2.2	-	-	-	-	
14	-	-	0.33	2.6	-	-	-	-	
- (2.5)	-	-	0.33	2.7	-	-	-	-	
12	-	-	0.33	3.2	-	-	-	-	
- (4)	-	-	0.33	3.25	-	-	-	-	
10	-	-	0.33	3.9	-	-	-	-	
- (6)	-	-	0.33	3.9	-	-	-	-	
Conducting metal	BCD		BCDEFG		BCD		BCD		

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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