

SILIFLON® HT

Ignition wires

UL and cUL approval



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

- Ignition circuit, creation of an electric arc for piezo-electric system of household electric appliances, burners, etc.

Options

- Pure nickel core: contact us.
- 27% nickel-plated copper core: contact us.
- Other nominal cross-sections: contact us.

Characteristics

General

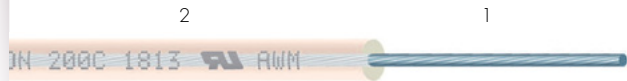
- Continuous operating temperatures: -90 °C to +250 °C.
- Excellent resistance to aggressive chemical environments.
- Excellent resistance to humidity and UV.
- Excellent mechanical strength.

Electrical

- Pulse voltage: as per style no. except style 1813.

Standard products

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



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

Style no.	10185-E150		1911-F150		1813		10185-E200		1911-F250	
Approval	150 °C – 10 KV AC** (cUL 600 V)		150 °C – 20 KV DC** (cUL 1000 V)		200 °C – 3000 V (cUL 1000 V)		200 °C – 10 KV AC** (cUL 150°C-600 V)		250 °C – 20 KV DC**	
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)
AWG (mm²)										
30 (0.05)	-	-	-	-	0.64	1.6	-	-	-	-
28 (0.09)	-	-	-	-	0.64	1.7	-	-	-	-
26 (0.13)	-	-	-	-	0.64	1.8	-	-	-	-
24 (0.22)	0.36	1.4	0.48	1.6	0.64	1.9	0.36	1.4	0.61	1.8
22 (0.34)	0.36	1.5	0.48	1.75	0.64	2.05	0.36	1.5	0.61	1.95
- (0.5)	0.36	1.65	0.48	1.9	0.64	2.2	0.36	1.65	0.61	2.15
20 (0.6)	0.36	1.7	0.48	2.0	0.64	2.3	0.36	1.7	0.61	2.15
- (0.75)	0.36	1.85	0.48	2.1	0.64	2.4	0.36	1.85	0.61	2.35
18 (0.93)	0.36	2.0	0.48	2.2	0.64	2.55	0.36	2.0	0.61	2.5
- (1)	0.36	2.05	0.48	2.25	0.64	2.6	0.36	2.05	0.61	2.55
16 (1.34)	0.36	2.2	0.48	2.5	0.64	2.8	0.36	2.2	0.61	2.7
- (1.5)	0.36	2.3	0.48	2.55	0.64	2.9	0.36	2.3	0.61	2.8
14 (-)	0.36	2.6	0.48	2.9	0.64	3.15	0.36	2.6	0.61	3.0
- (2.5)	0.36	2.8	0.48	3.0	0.64	3.35	0.36	2.8	0.61	3.3
12 (-)	0.36	3.1	0.48	3.35	0.64	3.65	0.36	3.1	0.61	3.6
- (4)	0.36	3.4	0.48	3.6	0.64	3.9	0.36	3.4	0.61	3.85
10 (-)	0.36	3.8	0.48	4.0	0.64	4.3	0.36	3.8	0.61	4.25
- (6)	0.36	3.9	0.48	4.2	0.64	4.5	0.36	3.9	0.61	4.4
Conducting metal	BCDEFG		BCDEFG		B*CDEFG		B*CDEF*G		CEG	

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:

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* 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.
** Pulse voltage.

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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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