HIGH TEMPERATURE WIRES AND CABLES FOR THE GENERAL MARKET • SECTION II: FLUOROPOLYMERS AND THERMOPLASTICS

FLUOROPOLYMER INSULATED WIRES AND CABLES

# **SILIFLON®** Style 11881 FEP insulation + reinforcing braid

**UL** and cUL approval -60 °C to +200 °C



## 3 SILIFLON 200C 11881 💫 AWM

- 1 Bare, tin-plated, nickel-plated or silver-plated copper core.
- 2 Insulation: Fluorinated polymer FEP.
- 3 Reinforcement: Varnished fiberglass braid.

## **Approvals - standards**

- UL approval as per standard UL 758 -File no.: E101965.
- cUL approval as per standard C22.2 No. 210 (AVVM I A/B FT1 FT2 200°C 600V) -
  - File no.: E101965.
  - "Horizontal flame test" as per UL approval.
    - "FT1 flame rating" as per cUL approval.
    - "FT2 flame rating" as per cUL approval.

### **Applications**

• Internal cabling for electrical appliances or electronic appliances.

#### **Options**

- Other nominal stranding: contact us.
  - Other colours: contact us.

#### **Characteristics General**

- Continuous operating temperatures: -60 °C to +200 °C.
- Excellent resistance to solvents, impregnation varnish and other chemical influences.
- Excellent resistance to humidity and UV.
- Excellent mechanical strength.

#### **Electrical**

- Rated voltage: 600 V.
- Test voltage: 6000 V.

#### Standard products

- Standard insulation colour: white.
- Standard reinforcing braid colours: white, blue, red, black, yellow or brown.



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.

#### 11881

Approval  Nominal cross-section		200°C - 600 V AWM I A/B			
		Average thickness of insulation	Nominal diameter*  Multistrand core Solid core		Approximate linear weight
AWG	$(mm^2)$	(mm)	(mm)		(kg/km)
24	0.22	0.15	1.2	1.15	3.2
22	0.34	0.15	1.3	1.2	4.3
	0.5	0.15	1.5	1.4	6.1
20	0.6	0.15	1.6		6.8
	0.75	0.20	1.7	1.65	8.9
18	0.93	0.20	1.85	1.7	10.1
-	1	0.20	2.0	1.9	11.5
16	1.34	0.20	2.2	2.0	15.0
-	1.5	0.20	2.25	2.1	16.0
14	-	0.33	2.8	2.6	22.4
	2.5	0.33	3.1	2.9	26.4
12	-	0.33	3.4		38.2
-	4	0.33	3.6	3.3	38.6
10	-	0.33	4.1	-	56.0
	6	0.33	4.2	4.0	56.1
8	-	0.51	5.2	-	91.5
	10	0.51	6.0		107
6	-	0.51	6.8		143
	16	0.51	7.1		160
4	-	0.51	8.1		220
-	25	0.51	8.6		249
2	35	0.51	9.7	-	331
1	-	0.76	11.3	-	443
-	50	0.76	11.7	-	478
1/0	-	0.76	12.4	-	545
2/0	<i>7</i> 0	0.76	13.5	-	659
3/0	-	0.76	15.1	-	838
-	95	0.76	15.2	-	855
4/0	-	0.76	16.7	-	1 045
-	120	0.76	16.9	-	1 094
Conducting metal		B*CDEF*G			

\* 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.

#### KEY

C Nickel-plated copper

C Nickerplated 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/BExternal or Internal wiring

NS Not Specified VNS Voltage Not Specified

: UL approved nominal cross-sections only.



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