

**SILIFLON® M6-E6****-90 °C to +205 °C**

- 1 • Flexible tin-plated copper core – class 5 as per IEC 60228.
- 2 • Insulation: Fluorinated polymer FEP.
- 3 • Outer sheath: Fluorinated polymer FEP.

**Applications**

- Cabling in household electrical appliances, electronics.
  - Cabling in hot or cold environments (cryogenics).
    - Cabling in aggressive environments (humidity, chemicals, etc.).
      - Cabling requiring compact size and excellent mechanical strength.
- Cabling of thermoresistant detectors type PT 100.

**Options**

- Bare copper core: ref. M6-6.
- Silver-plated copper core: ref. M6-A6.
- Nickel-plated copper core: ref. M6-CN6.
- Pure nickel core (not described in IEC 60228): ref. M6-N6.
  - PFA fluorinated polymer insulation and sheathing for continuous operating temperatures up to +260°C: ref. M5-E5.
  - ETFE fluorinated polymer insulation and sheathing for continuous operating temperatures up to +155 °C: ref. M7-E7.
    - Other nominal metric or American cross-sections: contact us.
- Other numbers of conductors: contact us.
  - Other nominal stranding: contact us.
    - Other colours: contact us.
- Other options and/or combinations of the options outlined above: contact us.

**Characteristics****General**

- Continuous operating temperatures: -90°C to +205 °C.
- Excellent resistance to aggressive chemical environments.
- Excellent resistance to humidity and UV.
- Excellent mechanical strength.

**Electrical**

- Rated voltage: 300/500 V.
- Test voltage: 2000 V.

**Standard products**

- Standard conductor colours: all solid colours including yellow/green.
- Standard outer sheath colours: grey, white or black.

For this product, please contact:

OMERIN division principale

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LES CABLES DE L'EXTREME

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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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## Flexible core • class 5 as per IEC 60228

## INSULATED CONDUCTORS

## SHEATHED CABLE

Nominal cross-section (mm <sup>2</sup> )	Nominal stranding	Maximum linear resistance at 20 °C (Ω/km)	Nominal thickness of insulation (mm)	Nominal diameter (mm)	Nominal diameter (mm)	Approximate linear weight (kg/km)
2 x 0.5	16 x 0.20	40.1	0.20	1.3	3.1	17.0
3 x 0.5	16 x 0.20	40.1	0.20	1.3	3.3	23.3
4 x 0.5	16 x 0.20	40.1	0.20	1.3	3.6	29.6
5 x 0.5	16 x 0.20	40.1	0.20	1.3	4.1	38.0
7 x 0.5	16 x 0.20	40.1	0.20	1.3	4.5	51.1
2 x 0.75	24 x 0.20	26.7	0.20	1.45	3.4	22.1
3 x 0.75	24 x 0.20	26.7	0.20	1.45	3.6	30.5
4 x 0.75	24 x 0.20	26.7	0.20	1.45	4.0	39.9
5 x 0.75	24 x 0.20	26.7	0.20	1.45	4.6	51.8
7 x 0.75	24 x 0.20	26.7	0.20	1.45	5.0	69.0
2 x 1	32 x 0.20	20.0	0.20	1.7	3.9	28.8
3 x 1	32 x 0.20	20.0	0.20	1.7	4.2	41.0
4 x 1	32 x 0.20	20.0	0.20	1.7	4.6	52.7
5 x 1	32 x 0.20	20.0	0.20	1.7	5.3	68.5
7 x 1	32 x 0.20	20.0	0.20	1.7	5.7	90.2
2 x 1.5	30 x 0.25	13.7	0.20	1.95	4.4	38.7
3 x 1.5	30 x 0.25	13.7	0.20	1.95	4.7	54.9
4 x 1.5	30 x 0.25	13.7	0.20	1.95	5.3	73.6
5 x 1.5	30 x 0.25	13.7	0.20	1.95	5.9	91.3
7 x 1.5	30 x 0.25	13.7	0.20	1.95	6.6	127
2 x 2.5	50 x 0.25	8.21	0.20	2.5	5.6	63.3
3 x 2.5	50 x 0.25	8.21	0.20	2.5	6.2	94.5
4 x 2.5	50 x 0.25	8.21	0.20	2.5	6.8	122
5 x 2.5	50 x 0.25	8.21	0.20	2.5	7.6	152
7 x 2.5	50 x 0.25	8.21	0.20	2.5	8.4	208
2 x 4	56 x 0.30	5.09	0.25	3.1	7.2	102
3 x 4	56 x 0.30	5.09	0.25	3.1	7.9	149
4 x 4	56 x 0.30	5.09	0.25	3.1	8.7	192
5 x 4	56 x 0.30	5.09	0.25	3.1	9.6	235
7 x 4	56 x 0.30	5.09	0.25	3.1	10.9	333
2 x 6	84 x 0.30	3.39	0.35	3.9	9.0	162
3 x 6	84 x 0.30	3.39	0.35	3.9	9.6	228
4 x 6	84 x 0.30	3.39	0.35	3.9	10.8	303
5 x 6	84 x 0.30	3.39	0.35	3.9	12.1	380
7 x 6	84 x 0.30	3.39	0.35	3.9	13.7	532

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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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