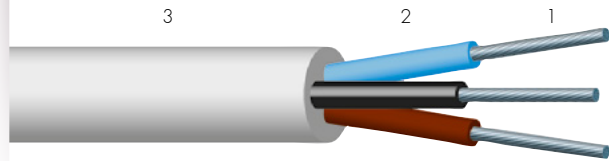


HIGH TEMPERATURE WIRES AND CABLES  
FOR THE GENERAL MARKET  
SECTION I: CROSS LINKED ELASTOMERS

# SILICABLE® MC-EFEP

## -60 °C to +200 °C

SILICONE INSULATED AND/OR SHEATHED  
WIRES AND CABLES



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

### Applications

- Cabling for electrical heating appliances.
  - Use in the medical field as cabling for sterilisable surgical instruments.
  - Power cables for various industrial appliances.

### Options

- Bare copper core: ref. MC-FEP.
- Nickel-plated copper core: ref. MC-CNFEP.
- Silver-plated copper core: ref. MC-AFEP.
  - Extra-flexible tin-plated copper core – class 6 as per IEC 60228: ref. MC-EFEP-ES.
- • Insulation: Fluorinated polymer PFA (improved thermal resistance of insulation): ref. MC-EPFA.
  - • Insulation: Fluorinated polymer ETFE (+155 °C in continuous operation - improved mechanical strength): ref. MC-EETFE.
  - Other nominal cross-sections: 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: -60 °C to +200 °C.
- Good resistance to common chemical influences.

#### Electrical

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

### Standard products

- Standard conductor colours: see table below.
- Standard outer sheath colours: white, black, grey or brick red.

#### Standard conductor colours:

Number of conductors	Standard conductor colours:	
	With an earth wire	Without an earth wire
2	-	blue – brown
3	yellow/green – blue – brown	brown – black – grey
4	yellow/green – brown – black – grey	blue – brown – black – grey
5	yellow/green – blue – brown – black – grey	blue – brown – black – grey – black
≥ 6	yellow/green – white numbered or black numbered	white numbered or black numbered

#### • Identification

Multi-conductor cables without an earth wire are identified as follows:

< Number of conductors > X < Cross-section > mm<sup>2</sup> (example: 3 X 1.5 mm<sup>2</sup>).

Multi-conductor cables with an earth wire are identified by the symbol G in the place of the X (example 3 G 1.5 mm<sup>2</sup>).

For this product, please contact:

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**omerin**  
LES CABLES DE L'EXTREME

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	1.30	4.4	29.0
3 x 0.5	16 x 0.20	40.1	0.20	1.30	4.6	34.8
4 x 0.5	16 x 0.20	40.1	0.20	1.30	5.0	42.6
5 x 0.5	16 x 0.20	40.1	0.20	1.30	5.8	55.5
7 x 0.5	16 x 0.20	40.1	0.20	1.30	6.1	67.0
2 x 0.75	24 x 0.20	26.7	0.20	1.45	4.9	37.5
3 x 0.75	24 x 0.20	26.7	0.20	1.45	5.2	46.5
4 x 0.75	24 x 0.20	26.7	0.20	1.45	6.0	61.8
5 x 0.75	24 x 0.20	26.7	0.20	1.45	6.5	73.4
7 x 0.75	24 x 0.20	26.7	0.20	1.45	7.0	92.0
2 x 1	32 x 0.20	20.0	0.25	1.70	5.1	43.2
3 x 1	32 x 0.20	20.0	0.25	1.70	5.4	54.1
4 x 1	32 x 0.20	20.0	0.25	1.70	6.2	71.4
5 x 1	32 x 0.20	20.0	0.25	1.70	6.7	84.7
7 x 1	32 x 0.20	20.0	0.25	1.70	7.3	109
2 x 1.5	30 x 0.25	13.7	0.30	1.95	5.7	56.6
3 x 1.5	30 x 0.25	13.7	0.30	1.95	6.1	72.6
4 x 1.5	30 x 0.25	13.7	0.30	1.95	6.8	92.6
5 x 1.5	30 x 0.25	13.7	0.30	1.95	7.5	113
7 x 1.5	30 x 0.25	13.7	0.30	1.95	8.0	143
2 x 2.5	50 x 0.25	8.21	0.30	2.50	7.0	88.4
3 x 2.5	50 x 0.25	8.21	0.30	2.50	7.4	113
4 x 2.5	50 x 0.25	8.21	0.30	2.50	8.2	143
5 x 2.5	50 x 0.25	8.21	0.30	2.50	8.9	171
7 x 2.5	50 x 0.25	8.21	0.30	2.50	9.8	225

For this product, please contact:

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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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