

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

SILICONE INSULATED AND/OR SHEATHED  
WIRES AND CABLES

# SILICABLE® MC-HRD

Insulation and sheathing with  
improved mechanical strength

## -60 °C to +180 °C



### Approvals - standards

- Halogen-free: IEC 60754-1 / EN 60754-1.

### Applications

- Industrial cabling in hot atmospheres up to 180 °C.
- Cabling in the metallurgical industry, glassworks, etc.
  - Cabling for furnaces, ovens, machines for thermoplastics and rubber, welding stations, etc.
    - Lights, spotlights, etc.

### Options

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

### Characteristics

#### General

- Continuous operating temperatures: -60 °C to +180 °C.
- Improved mechanical properties (tear strength, notch propagation and cutthrough resistance).
- Good resistance to thermal shock and UV.

#### Electrical

- Rated voltage: up to 600/1000 V.
- Test voltage: up to 3000 V.

### Standard products

- Standard conductor colours: see table below.
- Standard outer sheath colour: black.

#### Flexible core • class 5 as per IEC 60228

Nominal cross-section (mm <sup>2</sup> )	Nominal stranding	Maximum linear resistance at 20 °C (Ω/km)	INSULATED CONDUCTORS		SHEATHED CABLE	
			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	0.6	2.1	5.8	36.1
3 x 0.5	16 x 0.20	40.1	0.6	2.1	6.2	43.9
4 x 0.5	16 x 0.20	40.1	0.6	2.1	7.0	56.1
5 x 0.5	16 x 0.20	40.1	0.6	2.1	7.9	70.1
6 x 0.5	16 x 0.20	40.1	0.6	2.1	8.5	77.7
7 x 0.5	16 x 0.20	40.1	0.6	2.1	8.5	85.6
10 x 0.5	16 x 0.20	40.1	0.6	2.1	10.8	122
12 x 0.5	16 x 0.20	40.1	0.6	2.1	11.6	149
14 x 0.5	16 x 0.20	40.1	0.6	2.1	12.1	167
16 x 0.5	16 x 0.20	40.1	0.6	2.1	12.7	186
19 x 0.5	16 x 0.20	40.1	0.6	2.1	13.3	212
2 x 0.75	24 x 0.20	26.7	0.6	2.4	6.3	44.6
3 x 0.75	24 x 0.20	26.7	0.6	2.4	6.7	54.5
4 x 0.75	24 x 0.20	26.7	0.6	2.4	7.5	68.9
5 x 0.75	24 x 0.20	26.7	0.6	2.4	8.4	84.9
6 x 0.75	24 x 0.20	26.7	0.6	2.4	9.6	104
7 x 0.75	24 x 0.20	26.7	0.6	2.4	9.6	115
10 x 0.75	24 x 0.20	26.7	0.6	2.4	12.2	163
12 x 0.75	24 x 0.20	26.7	0.6	2.4	12.8	192
14 x 0.75	24 x 0.20	26.7	0.6	2.4	13.4	217
16 x 0.75	24 x 0.20	26.7	0.6	2.4	14.3	248
19 x 0.75	24 x 0.20	26.7	0.6	2.4	15.0	285

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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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**omerin**  
LES CABLES DE L'EXTREME

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 1	32 x 0.20	20.0	0.6	2.5	6.7	52.9
3 x 1	32 x 0.20	20.0	0.6	2.5	7.3	67.6
4 x 1	32 x 0.20	20.0	0.6	2.5	7.9	81.5
5 x 1	32 x 0.20	20.0	0.6	2.5	8.9	102
6 x 1	32 x 0.20	20.0	0.6	2.5	9.9	119
7 x 1	32 x 0.20	20.0	0.6	2.5	9.9	132
10 x 1	32 x 0.20	20.0	0.6	2.5	12.6	188
12 x 1	32 x 0.20	20.0	0.6	2.5	13.2	222
14 x 1	32 x 0.20	20.0	0.6	2.5	14.1	259
16 x 1	32 x 0.20	20.0	0.6	2.5	14.8	289
19 x 1	32 x 0.20	20.0	0.6	2.5	15.5	332
2 x 1.5	30 x 0.25	13.7	0.6	2.8	7.6	70.8
3 x 1.5	30 x 0.25	13.7	0.6	2.8	8.0	86.8
4 x 1.5	30 x 0.25	13.7	0.6	2.8	8.8	108
5 x 1.5	30 x 0.25	13.7	0.6	2.8	9.6	128
6 x 1.5	30 x 0.25	13.7	0.6	2.8	10.4	145
7 x 1.5	30 x 0.25	13.7	0.6	2.8	10.4	163
10 x 1.5	30 x 0.25	13.7	0.6	2.8	13.6	238
12 x 1.5	30 x 0.25	13.7	0.6	2.8	14.5	289
14 x 1.5	30 x 0.25	13.7	0.6	2.8	15.2	329
16 x 1.5	30 x 0.25	13.7	0.6	2.8	16.2	376
19 x 1.5	30 x 0.25	13.7	0.6	2.8	17.0	434
2 x 2.5	50 x 0.25	8.21	0.7	3.4	9.2	108
3 x 2.5	50 x 0.25	8.21	0.7	3.4	9.7	134
4 x 2.5	50 x 0.25	8.21	0.7	3.4	10.6	166
5 x 2.5	50 x 0.25	8.21	0.7	3.4	11.6	199
6 x 2.5	50 x 0.25	8.21	0.7	3.4	12.8	230
7 x 2.5	50 x 0.25	8.21	0.7	3.4	12.8	259
10 x 2.5	50 x 0.25	8.21	0.7	3.4	16.2	363
12 x 2.5	50 x 0.25	8.21	0.7	3.4	17.0	432
14 x 2.5	50 x 0.25	8.21	0.7	3.4	18.0	499
16 x 2.5	50 x 0.25	8.21	0.7	3.4	19.2	571
19 x 2.5	50 x 0.25	8.21	0.7	3.4	20.2	663
2 x 4	56 x 0.30	5.09	0.8	4.2	10.8	156
3 x 4	56 x 0.30	5.09	0.8	4.2	11.4	196
4 x 4	56 x 0.30	5.09	0.8	4.2	12.7	249
5 x 4	56 x 0.30	5.09	0.8	4.2	14.0	302
6 x 4	56 x 0.30	5.09	0.8	4.2	15.6	354
7 x 4	56 x 0.30	5.09	0.8	4.2	15.6	400
10 x 4	56 x 0.30	5.09	0.8	4.2	19.8	562
12 x 4	56 x 0.30	5.09	0.8	4.2	20.7	666
14 x 4	56 x 0.30	5.09	0.8	4.2	22.0	774
16 x 4	56 x 0.30	5.09	0.8	4.2	23.4	882
19 x 4	56 x 0.30	5.09	0.8	4.2	24.8	1035
2 x 6	84 x 0.30	3.39	0.8	4.8	12.4	217
3 x 6	84 x 0.30	3.39	0.8	4.8	13.2	278
4 x 6	84 x 0.30	3.39	0.8	4.8	14.6	351
5 x 6	84 x 0.30	3.39	0.8	4.8	16.0	423
6 x 6	84 x 0.30	3.39	0.8	4.8	17.4	483
7 x 6	84 x 0.30	3.39	0.8	4.8	17.4	548
2 x 10	80 x 0.40	1.95	1.0	6.4	15.8	346
3 x 10	80 x 0.40	1.95	1.0	6.4	16.9	445
4 x 10	80 x 0.40	1.95	1.0	6.4	18.7	561
5 x 10	80 x 0.40	1.95	1.0	6.4	20.5	675
6 x 10	80 x 0.40	1.95	1.0	6.4	22.8	788
7 x 10	80 x 0.40	1.95	1.0	6.4	22.8	896
2 x 16	126 x 0.40	1.24	1.2	7.8	18.8	506
3 x 16	126 x 0.40	1.24	1.2	7.8	20.1	654
4 x 16	126 x 0.40	1.24	1.2	7.8	22.4	833
5 x 16	126 x 0.40	1.24	1.2	7.8	24.9	1019
6 x 16	126 x 0.40	1.24	1.2	7.8	27.4	1175
7 x 16	126 x 0.40	1.24	1.2	7.8	27.4	1339
2 x 25	196 x 0.40	0.795	1.4	9.6	22.8	773
3 x 25	196 x 0.40	0.795	1.4	9.6	24.4	1007
4 x 25	196 x 0.40	0.795	1.4	9.6	27.2	1285

Standard conductor colours:

Number of conductors	With an earth wire	Without an earth wire
	2	-
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 – grey numbered	grey 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>).