

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

SILICABLE® VMC-ECS -60 °C to +180 °C

Approvals - standards

- Halogen-free: IEC 60754-1 / EN 60754-1.
- Low corrosivity of gas emissions: IEC 60754-2 / EN 60754-2.
- Fire retardant: NF C 32-070 test C1.
- Resistance to vertical flame propagation for an insulated cable: IEC 60332-1-2 / EN 60332-1-2 / NF C 32-070 test C2.
- Tests on electric cables under fire conditions - Circuit integrity: IEC 60331-21.

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.

Standard products

- Standard conductor colours: see table below.
- Standard sheath colour: brick red.
- Standard reinforcing braid colour: brick red.

Characteristics General

- Continuous operating temperatures: -60 °C to +180 °C.
- Good resistance to thermal shock and UV.

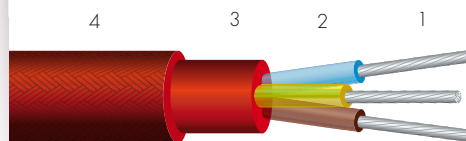
Electrical

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

Options

- Bare copper core: ref. VMC-CS.
- Nickel-plated copper core: ref. VMC-CNCS.
- Silver-plated copper core: ref. VMC-ACS.
- Pure nickel core (not described in IEC 60228): ref. VMC-NCS.
- Outer electrical shielding: > Tin-plated copper braid: ref. BEVMC-ECS.
- Outer flexible armour: > Galvanised steel braid: ref. BGVMC-ECS.
- > Stainless steel braid: ref. BIVMC-ECS.
- Sheathed electrical shielding: > Tin-plated copper braid: ref. VMCBE-ECS.
- > Aluminium/PET tape + continuity wire: ref. VMCBALECS.
- 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.

SILICONE INSULATED AND/OR SHEATHED WIRES AND CABLES WITH REINFORCING BRAID



- 1 • Flexible tin-plated copper core - class 5 as per IEC 60228.
- 2 • Insulation: Silicone rubber.
- 3 • Sheath: Silicone rubber.
- 4 • Reinforcement: Silicone-coated fibreglass braid.

Flexible core • class 5 as per IEC 60228

Nominal cross-section (mm ²)	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	0.6	2.1	6.1	45.1
3 x 0.5	16 x 0.20	40.1	0.6	2.1	6.7	56.8
4 x 0.5	16 x 0.20	40.1	0.6	2.1	7.3	68.2
5 x 0.5	16 x 0.20	40.1	0.6	2.1	8.2	84.8
6 x 0.5	16 x 0.20	40.1	0.6	2.1	8.8	93.5
7 x 0.5	16 x 0.20	40.1	0.6	2.1	8.8	102
10 x 0.5	16 x 0.20	40.1	0.6	2.1	11.5	156
12 x 0.5	16 x 0.20	40.1	0.6	2.1	12.1	183
14 x 0.5	16 x 0.20	40.1	0.6	2.1	12.6	204
16 x 0.5	16 x 0.20	40.1	0.6	2.1	13.1	223
19 x 0.5	16 x 0.20	40.1	0.6	2.1	13.9	259
2 x 0.75	24 x 0.20	26.7	0.6	2.4	6.6	54.8
3 x 0.75	24 x 0.20	26.7	0.6	2.4	7.0	65.6
4 x 0.75	24 x 0.20	26.7	0.6	2.4	8.0	85.7
5 x 0.75	24 x 0.20	26.7	0.6	2.4	8.9	105
6 x 0.75	24 x 0.20	26.7	0.6	2.4	9.6	116
7 x 0.75	24 x 0.20	26.7	0.6	2.4	9.7	131
10 x 0.75	24 x 0.20	26.7	0.6	2.4	12.5	192
12 x 0.75	24 x 0.20	26.7	0.6	2.4	13.3	231
14 x 0.75	24 x 0.20	26.7	0.6	2.4	13.6	250
16 x 0.75	24 x 0.20	26.7	0.6	2.4	14.4	283
19 x 0.75	24 x 0.20	26.7	0.6	2.4	15.6	343

For this product, please contact:

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Flexible core • class 5 as per IEC 60228

INSULATED CONDUCTORS

SHEATHED CABLE

Nominal cross-section (mm ²)	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	7.2	67.3
3 x 1	32 x 0.20	20.0	0.6	2.5	7.7	82.1
4 x 1	32 x 0.20	20.0	0.6	2.5	8.4	99.6
5 x 1	32 x 0.20	20.0	0.6	2.5	9.4	123
6 x 1	32 x 0.20	20.0	0.6	2.5	10.2	139
7 x 1	32 x 0.20	20.0	0.6	2.5	10.4	158
10 x 1	32 x 0.20	20.0	0.6	2.5	13.3	230
12 x 1	32 x 0.20	20.0	0.6	2.5	13.9	268
14 x 1	32 x 0.20	20.0	0.6	2.5	14.4	298
16 x 1	32 x 0.20	20.0	0.6	2.5	15.0	327
19 x 1	32 x 0.20	20.0	0.6	2.5	15.9	384
2 x 1.5	30 x 0.25	13.7	0.6	2.8	7.9	84.7
3 x 1.5	30 x 0.25	13.7	0.6	2.8	8.3	102
4 x 1.5	30 x 0.25	13.7	0.6	2.8	9.0	123
5 x 1.5	30 x 0.25	13.7	0.6	2.8	9.9	147
6 x 1.5	30 x 0.25	13.7	0.6	2.8	10.7	166
7 x 1.5	30 x 0.25	13.7	0.6	2.8	10.7	185
10 x 1.5	30 x 0.25	13.7	0.6	2.8	13.7	265
12 x 1.5	30 x 0.25	13.7	0.6	2.8	15.6	358
14 x 1.5	30 x 0.25	13.7	0.6	2.8	16.2	400
16 x 1.5	30 x 0.25	13.7	0.6	2.8	16.8	438
19 x 1.5	30 x 0.25	13.7	0.6	2.8	17.6	502
2 x 2.5	50 x 0.25	8.21	0.7	3.4	9.5	127
3 x 2.5	50 x 0.25	8.21	0.7	3.4	10.0	154
4 x 2.5	50 x 0.25	8.21	0.7	3.4	10.9	189
5 x 2.5	50 x 0.25	8.21	0.7	3.4	11.9	226
6 x 2.5	50 x 0.25	8.21	0.7	3.4	12.9	254
7 x 2.5	50 x 0.25	8.21	0.7	3.4	12.9	285
10 x 2.5	50 x 0.25	8.21	0.7	3.4	17.2	435
12 x 2.5	50 x 0.25	8.21	0.7	3.4	18.0	512
14 x 2.5	50 x 0.25	8.21	0.7	3.4	18.8	579
16 x 2.5	50 x 0.25	8.21	0.7	3.4	19.8	650
19 x 2.5	50 x 0.25	8.21	0.7	3.4	21.0	760
2 x 4	56 x 0.30	5.09	0.8	4.2	10.9	177
3 x 4	56 x 0.30	5.09	0.8	4.2	11.9	229
4 x 4	56 x 0.30	5.09	0.8	4.2	13.0	282
5 x 4	56 x 0.30	5.09	0.8	4.2	14.4	343
6 x 4	56 x 0.30	5.09	0.8	4.2	16.2	410
7 x 4	56 x 0.30	5.09	0.8	4.2	16.2	458
10 x 4	56 x 0.30	5.09	0.8	4.2	20.6	648
12 x 4	56 x 0.30	5.09	0.8	4.2	21.6	767
14 x 4	56 x 0.30	5.09	0.8	4.2	23.0	893
16 x 4	56 x 0.30	5.09	0.8	4.2	24.0	990
19 x 4	56 x 0.30	5.09	0.8	4.2	25.2	1145
2 x 6	84 x 0.30	3.39	0.8	4.8	12.9	256
3 x 6	84 x 0.30	3.39	0.8	4.8	13.3	307
4 x 6	84 x 0.30	3.39	0.8	4.8	14.5	378
5 x 6	84 x 0.30	3.39	0.8	4.8	18.0	539
6 x 6	84 x 0.30	3.39	0.8	4.8	19.4	607
7 x 6	84 x 0.30	3.39	0.8	4.8	19.4	675
2 x 10	80 x 0.40	1.95	1.0	6.4	16.0	394
3 x 10	80 x 0.40	1.95	1.0	6.4	18.6	558
4 x 10	80 x 0.40	1.95	1.0	6.4	20.6	698
5 x 10	80 x 0.40	1.95	1.0	6.4	22.6	837
6 x 10	80 x 0.40	1.95	1.0	6.4	23.4	884
7 x 10	80 x 0.40	1.95	1.0	6.4	23.4	997
2 x 16	126 x 0.40	1.24	1.2	7.8	19.6	598
3 x 16	126 x 0.40	1.24	1.2	7.8	21.6	787
4 x 16	126 x 0.40	1.24	1.2	7.8	23.8	979
5 x 16	126 x 0.40	1.24	1.2	7.8	26.2	1182
6 x 16	126 x 0.40	1.24	1.2	7.8	28.4	1332
7 x 16	126 x 0.40	1.24	1.2	7.8	28.4	1503
2 x 25	196 x 0.40	0.795	1.4	9.6	24.6	953
3 x 25	196 x 0.40	0.795	1.4	9.6	26.2	1201
4 x 25	196 x 0.40	0.795	1.4	9.6	29.1	1513

Standard conductor colours:

Number of conductors	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 – grey numbered	grey numbered

• Identification

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

< Number of conductors > X < Cross-section > mm²
(example: 3 X 1.5 mm²).

Multi-conductor cables with an earth wire are identified by the symbol G in the place of the X (example 3 G 1.5 mm²).