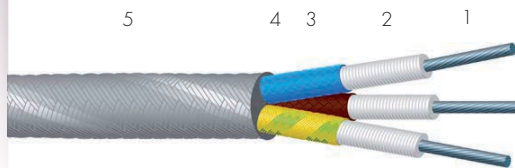


HIGH TEMPERATURE WIRES AND CABLES FOR THE GENERAL MARKET SECTION III: COMPOSITE INSULATIONS

SILICABLE® MA-CNVAS

-60 °C to +400 °C

MULTI-CONDUCTOR WIRES AND CABLES WITH COMPOSITE INSULATION



- 1 • Stranded nickel-plated copper core.
- 2 • Silicone impregnated fibreglass lappings.
- 3 • Silicone-coated mineral fibre braid.
- 4 • Fillers optional, not shown.
- 5 • Silicone-coated mineral fibre braid.

Approvals - standards

- Nickel-plated copper complying with the 2% class as per standard ASTM B355.
- Halogen-free: IEC 60754-1 / EN 50267-2-1.
 - Fire retardant: NF C 32-070 test C1.
 - Resistance to vertical flame propagation for an insulated cable: IEC 60332-1-2 / EN 50265-2-1 / NF C 32-070 test C2.

Applications

- All cabling in hot atmospheres up to 400 °C.
- Cabling in the metallurgical industry, glassworks, etc.
- Cabling for industrial furnaces and air ovens, machines for thermoplastics or rubber, welding stations, etc.
 - Cabling for heating resistors, cartridges, bands and plates.

Options

- Other nominal cross-sections and flexibility classes: contact us.
- Other numbers of conductors: contact us.
 - Bare copper cores: ref. MA-VAS.
 - 27% nickel-plated copper cores as per ASTM B355: contact us.
 - Outer flexible armour:
 - > Galvanised steel braid: ref. BGMA-CNVAS.
 - > Stainless steel braid: ref. BIMA-CNVAS.
 - Electrical shielding:
 - > Nickel-plated copper braid: ref. MABCN-CNVAS.
 - Other options and/or combinations of the options outlined above: contact us.

Characteristics General

- Continuous operating temperatures: -60 °C to +400 °C.
- Good resistance to thermal shock.
- Excellent ageing.

Electrical

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

Standard products

- Standard conductor colours: see table below.
- Standard outer braid colour: grey.
- Some cables may include a fibreglass tape or other separating tape under the outer braid.

Standard conductor colours

Number of conductors	With an earth wire	Without an earth wire
2	-	Blue – Brown (or Grey)
3	Yellow/Green – Blue – Brown (or Grey)	Brown – Black – Grey (or Blue)
4	Yellow/Green – Brown – Black – Grey (or Blue)	Blue – Brown – Black – Grey
5	Yellow/Green – Blue – Black – Grey – Brown (or Red)	Blue – Brown – Black – Grey – Black (or Red)
≥6	Yellow/Green – Grey or White non-numbered	Grey or White non-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).

For this product, please contact:

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LES CABLES DE L'EXTREME

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Conducting core			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 of the conductor (mm)	Nominal diameter of the cable (mm)	Approximate linear weight (kg/km)
2 × 0.5	7 × 0.30	36.7	0.8	2.5	6.5	39.5
3 × 0.5	7 × 0.30	36.7	0.8	2.5	6.9	55.1
4 × 0.5	7 × 0.30	36.7	0.8	2.5	7.5	65.4
5 × 0.5	7 × 0.30	36.7	0.8	2.5	8.2	80.0
7 × 0.5	7 × 0.30	36.7	0.8	2.5	9.0	101
2 × 0.75	11 × 0.30	24.8	0.8	2.7	6.9	57.2
3 × 0.75	11 × 0.30	24.8	0.8	2.7	7.3	63.3
4 × 0.75	11 × 0.30	24.8	0.8	2.7	8.0	80.4
5 × 0.75	11 × 0.30	24.8	0.8	2.7	8.7	100
7 × 0.75	11 × 0.30	24.8	0.8	2.7	9.7	126
2 × 1	14 × 0.30	18.2	0.9	3.2	7.9	71.1
3 × 1	14 × 0.30	18.2	0.9	3.2	8.4	86.0
4 × 1	14 × 0.30	18.2	0.9	3.2	9.2	107
5 × 1	14 × 0.30	18.2	0.9	3.2	10.2	136
7 × 1	14 × 0.30	18.2	0.9	3.2	11.1	170
12 × 1	14 × 0.30	18.2	0.9	3.2	14.8	283
19 × 1	14 × 0.30	18.2	0.9	3.2	17.5	442
24 × 1	14 × 0.30	18.2	0.9	3.2	20.7	538
27 × 1	14 × 0.30	18.2	0.9	3.2	21.2	606
37 × 1	14 × 0.30	18.2	0.9	3.2	23.9	830
2 × 1.5	21 × 0.30	12.2	0.9	3.4	8.3	83.7
3 × 1.5	21 × 0.30	12.2	0.9	3.4	8.6	108
4 × 1.5	21 × 0.30	12.2	0.9	3.4	9.0	130
5 × 1.5	21 × 0.30	12.2	0.9	3.4	9.6	166
7 × 1.5	21 × 0.30	12.2	0.9	3.4	10.6	213
12 × 1.5	21 × 0.30	12.2	0.9	3.4	15.6	356
19 × 1.5	21 × 0.30	12.2	0.9	3.4	18.5	558
24 × 1.5	21 × 0.30	12.2	0.9	3.4	21.9	711
27 × 1.5	21 × 0.30	12.2	0.9	3.4	22.4	730
37 × 1.5	21 × 0.30	12.2	0.9	3.4	25.3	1001
2 × 2.5	35 × 0.30	7.56	0.9	4.0	9.5	101
3 × 2.5	35 × 0.30	7.56	0.9	4.0	10.0	149
4 × 2.5	35 × 0.30	7.56	0.9	4.0	11.2	180
5 × 2.5	35 × 0.30	7.56	0.9	4.0	12.3	221
7 × 2.5	35 × 0.30	7.56	0.9	4.0	13.5	275
12 × 2.5	35 × 0.30	7.56	0.9	4.0	18.1	467
2 × 4	56 × 0.30	4.70	1.0	4.5	10.5	162
3 × 4	56 × 0.30	4.70	1.0	4.5	11.2	217
4 × 4	56 × 0.30	4.70	1.0	4.5	12.4	262
5 × 4	56 × 0.30	4.70	1.0	4.5	13.7	332
7 × 4	56 × 0.30	4.70	1.0	4.5	15.0	440
2 × 6	84 × 0.30	3.11	1.0	5.0	11.5	200
3 × 6	84 × 0.30	3.11	1.0	5.0	12.3	289
4 × 6	84 × 0.30	3.11	1.0	5.0	13.6	340
5 × 6	84 × 0.30	3.11	1.0	5.0	15.1	434
7 × 6	84 × 0.30	3.11	1.0	5.0	16.5	569
2 × 10	80 × 0.40	1.84	1.6	8.0	17.5	350
3 × 10	80 × 0.40	1.84	1.6	8.0	18.7	467
4 × 10	80 × 0.40	1.84	1.6	8.0	20.8	668
2 × 16	126 × 0.40	1.16	1.7	9.0	19.5	593
3 × 16	126 × 0.40	1.16	1.7	9.0	20.9	790
4 × 16	126 × 0.40	1.16	1.7	9.0	23.2	936
2 × 25	196 × 0.40	0.734	1.8	10.6	22.7	748
3 × 25	196 × 0.40	0.734	1.8	10.6	24.3	1122
4 × 25	196 × 0.40	0.734	1.8	10.6	27.1	1496
2 × 35	276 × 0.40	0.529	2.2	13.0	27.5	1132
3 × 35	276 × 0.40	0.529	2.2	13.0	29.4	1650
4 × 35	276 × 0.40	0.529	2.2	13.0	32.9	2264