

HIGH TEMPERATURE WIRES AND CABLES FOR THE GENERAL MARKET SECTION 1: CROSS LINKED ELASTOMERS

SILICABLE® PMCBEC-ECS -60 °C to +180 °C



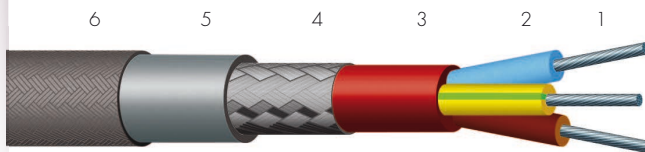
Approvals - standards

- Bureau VERITAS approval certificates n° 06466/DO BV: compliance with the tests described as per standards IEC 60092-350/353/360, IEC 60332-1-1/2, IEC 60332-3-22 and IEC 60331-11/21.
- Lloyd's Register approval certificates no. 06/00106: compliance with the tests described as per standards IEC 60228, IEC 60092-350/353/360, IEC 60332-1-1/2, IEC 60332-3-22 and IEC 60331-11/21.

Options

- Flexible bare copper core – class 5 as per IEC 60228 (ref. PMCBEC-CS): contact us.
- Flexible silver-plated copper core – class 5 as per IEC 60228 (ref. PMCBEC-ACS): contact us.
- Flexible nickel-plated copper core – class 5 as per IEC 60228 (ref. PMCBEC-CNCS): contact us.
- Varnished synthetic fibre reinforcing braid: contact us.
- Very high temperature fibre reinforcing braid: contact us.
 - Other colours: contact us.
- Other nominal cross-sections: contact us.
- Other nominal stranding: 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 • Inner sheath: Silicone rubber.
- 4 • Electrical shielding: Tin-plated copper braid.
- 5 • Outer sheath: Silicone rubber.
- 6 • Reinforcement: Coated synthetic fibre braid.

Characteristics General

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

Electrical

- Rated voltage: 600/1000 V.
- Test voltage: 3500 V.

Standard products

- Standard conductor colours: see table below.
- Standard inner sheath colours: brick red or white.
- Standard outer sheath colours: grey or white.
- Standard reinforcing braid colour: grey.

Applications

- Industrial cabling in hot atmospheres up to 180 °C.
- Cabling for rotating machines: motors, alternators, generators.
- Cabling for static machines: transformers, inductors, inverters, choppers.
- Shipbuilding and railway construction.
- Power cabinets.
- Cabling requiring excellent mechanical strength.

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 1.5	30 x 0.25	13.7	1.0	3.6	13.1	224
3 x 1.5	30 x 0.25	13.7	1.0	3.6	13.9	255
4 x 1.5	30 x 0.25	13.7	1.0	3.6	15.3	339
5 x 1.5	30 x 0.25	13.7	1.0	3.6	16.5	415
7 x 1.5	30 x 0.25	13.7	1.0	3.6	17.7	506
12 x 1.5	30 x 0.25	13.7	1.0	3.6	23.2	726
19 x 1.5	30 x 0.25	13.7	1.0	3.6	26.7	972
24 x 1.5	30 x 0.25	13.7	1.0	3.6	31.0	1278
27 x 1.5	30 x 0.25	13.7	1.0	3.6	31.6	1378
37 x 1.5	30 x 0.25	13.7	1.0	3.6	35.2	1726
2 x 2.5	50 x 0.25	8.21	1.0	4.0	14.1	264
3 x 2.5	50 x 0.25	8.21	1.0	4.0	15.3	351
4 x 2.5	50 x 0.25	8.21	1.0	4.0	16.4	433
5 x 2.5	50 x 0.25	8.21	1.0	4.0	17.7	518
7 x 2.5	50 x 0.25	8.21	1.0	4.0	19.1	601
12 x 2.5	50 x 0.25	8.21	1.0	4.0	25.0	883
19 x 2.5	50 x 0.25	8.21	1.0	4.0	29.1	1307
24 x 2.5	50 x 0.25	8.21	1.0	4.0	33.7	1604
27 x 2.5	50 x 0.25	8.21	1.0	4.0	34.4	1728
37 x 2.5	50 x 0.25	8.21	1.0	4.0	38.7	2338
2 x 4	56 x 0.30	5.09	1.0	4.6	15.9	407
3 x 4	56 x 0.30	5.09	1.0	4.6	16.7	492
4 x 4	56 x 0.30	5.09	1.0	4.6	18.0	558
5 x 4	56 x 0.30	5.09	1.0	4.6	19.5	631
7 x 4	56 x 0.30	5.09	1.0	4.6	21.6	755
12 x 4	56 x 0.30	5.09	1.0	4.6	28.2	1239
19 x 4	56 x 0.30	5.09	1.0	4.6	32.6	1716
24 x 4	56 x 0.30	5.09	1.0	4.6	37.9	2114
27 x 4	56 x 0.30	5.09	1.0	4.6	39.1	2440
37 x 4	56 x 0.30	5.09	1.0	4.6	43.5	3091
2 x 6	84 x 0.30	3.39	1.0	5.2	17.2	507
3 x 6	84 x 0.30	3.39	1.0	5.2	18.3	586
4 x 6	84 x 0.30	3.39	1.0	5.2	20.3	674
5 x 6	84 x 0.30	3.39	1.0	5.2	22.1	786
7 x 6	84 x 0.30	3.39	1.0	5.2	23.9	948
12 x 6	84 x 0.30	3.39	1.0	5.2	31.0	1547
19 x 6	84 x 0.30	3.39	1.0	5.2	36.0	2195
24 x 6	84 x 0.30	3.39	1.0	5.2	42.4	2876
27 x 6	84 x 0.30	3.39	1.0	5.2	43.3	3122
2 x 10	80 x 0.40	1.95	1.0	6.4	20.5	648
3 x 10	80 x 0.40	1.95	1.0	6.4	21.6	766
4 x 10	80 x 0.40	1.95	1.0	6.4	23.5	904
5 x 10	80 x 0.40	1.95	1.0	6.4	25.8	1061
7 x 10	80 x 0.40	1.95	1.0	6.4	27.8	1376
12 x 10	80 x 0.40	1.95	1.0	6.4	36.6	2166
19 x 10	80 x 0.40	1.95	1.0	6.4	43.0	3264
2 x 16	126 x 0.40	1.24	1.0	7.8	23.6	855
3 x 16	126 x 0.40	1.24	1.0	7.8	25.3	1035
4 x 16	126 x 0.40	1.24	1.0	7.8	27.4	1312
5 x 16	126 x 0.40	1.24	1.0	7.8	30.3	1549
7 x 16	126 x 0.40	1.24	1.0	7.8	32.8	1915
12 x 16	126 x 0.40	1.24	1.0	7.8	43.4	3183
2 x 25	196 x 0.40	0.795	1.2	9.6	27.8	1263
3 x 25	196 x 0.40	0.795	1.2	9.6	29.8	1536
4 x 25	196 x 0.40	0.795	1.2	9.6	32.5	1856
5 x 25	196 x 0.40	0.795	1.2	9.6	35.7	2195
7 x 25	196 x 0.40	0.795	1.2	9.6	39.2	2894
2 x 35	276 x 0.40	0.565	1.2	11.0	31.3	1584
3 x 35	276 x 0.40	0.565	1.2	11.0	33.1	1916
4 x 35	276 x 0.40	0.565	1.2	11.0	36.4	2336
5 x 35	276 x 0.40	0.565	1.2	11.0	40.4	2927
7 x 35	276 x 0.40	0.565	1.2	11.0	44.0	3665
2 x 50	396 x 0.40	0.393	1.4	13.2	36.2	2100
3 x 50	396 x 0.40	0.393	1.4	13.2	38.9	2737
4 x 50	396 x 0.40	0.393	1.4	13.2	42.7	3325
2 x 70	360 x 0.50	0.277	1.4	14.8	40.3	2782
3 x 70	360 x 0.50	0.277	1.4	14.8	42.9	3446
4 x 70	360 x 0.50	0.277	1.4	14.8	47.1	4229

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).