

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

SILICABLE® TPT

Lead wire for hermetically sealed motors

-30 °C to +125 °C

UNIPOLAR WIRES AND CABLES WITH COMPOSITE INSULATION



- 1 • Flexible bare copper core - class 5 as per IEC 60228.
- 2 • Heat-stabilized non-coated high resistance polyester braid.
- 3 • Polyester tape(s).

Applications

- Internal cabling for hermetically sealed motors.

Options

- Other metric or American cross-sections: contact us.
- Extra-flexible bare copper core – class 6 as per IEC 60228. See details of the option below.
- Other nominal stranding: contact us.

Characteristics

General

- Continuous operating temperatures: -30 °C to +125 °C.
- Excellent resistance to R12, R22, R134a, R502, etc. refrigerant gases and refrigerant oils.
- Excellent mechanical properties (abrasion and flexibility).

Electrical

- Rated voltage: 600 V.
- Test voltage: 2500 V.

Standard products

- Solid white.
- White with coloured spiral stripe(s).

Flexible core • Class 5 as per IEC 60228

Nominal cross-section (mm²)	Nominal stranding	Maximum linear resistance at 20 °C (Ω/km)
0.5	16 x 0.20	39.0
0.75	24 x 0.20	26.0
1	32 x 0.20	19.5
1.5	30 x 0.25	13.3
2.5	50 x 0.25	7.98
4	56 x 0.30	4.95
6	84 x 0.30	3.30
10	80 x 0.40	1.91
16	126 x 0.40	1.21
25	196 x 0.40	0.780
35	276 x 0.40	0.554
50	396 x 0.40	0.386
70	360 x 0.50	0.272

INSULATED WIRE OR CABLE

Nominal diameter (mm)	Approximate linear weight (kg/km)
1.5	5.2
1.7	7.4
1.8	9.5
2.1	13.6
2.6	22.1
3.2	36.2
3.7	53.5
5.6	90.4
6.7	143
8.3	228
10.6	312
12.1	448
14.4	634

Option

Extra-flexible core • Class 6 as per IEC 60228

Nominal cross-section (mm²)	Nominal stranding	Maximum linear resistance at 20 °C (Ω/km)
0.5	28 x 0.15	39.0
0.75	42 x 0.15	26.0
1	56 x 0.15	19.5
1.5	85 x 0.15	13.3
2.5	140 x 0.15	7.98
4	224 x 0.15	4.95
6	301 x 0.15	3.30
10	322 x 0.20	1.91
16	516 x 0.20	1.21
25	792 x 0.20	0.780
35	1121 x 0.20	0.554
50	1628 x 0.20	0.386
70	2294 x 0.20	0.272

INSULATED WIRE OR CABLE

Nominal diameter (mm)	Approximate linear weight (kg/km)
1.5	5.3
1.7	7.5
1.8	9.6
2.3	13.7
2.8	22.3
3.4	36.6
4.0	54.0
5.6	91.3
6.7	144
8.3	230
10.6	315
12.1	452
14.4	640

For this product, please contact:

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