SynFlex Elektro GmbH
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Silicone Cable

The silicone cable is a low voltage lead-out cable, consisting of one cable made of tinned Cu-ETP conductors and coated with extruded silicone rubber insulation.

Attributes

The silicone cable achieves thermal class H (180 °C). It offers excellent dielectric strength even for short-term thermal overload. Cable skinning occurs mechanically. The silicone cable is halogen free.

Application

The silicone cable is used as a connection cable in electric motors and transformers with very high thermal stress. It also offers sufficient safety for applications with permanent high thermal stress in apparatus, machine and plant engineering.

Standards

- Class 5 according to EN 60228
- EN 50525-1
- Halogen-free acc. IEC 60754-1
- Corrosiveness of combustion gases acc. IEC 60754-2
- Flame retardent, fire extinguishing acc. IEC 60332-1 for sections ≥1.5 mm²

Delivery forms

Conductor cross section formats:

mm²	length in m on a ring
0.25 - 6.00	100
10.00 - 35.00	50
50.00 - 95.00	25

Conductor

The dimensions specified in the technical datasheet are regarded as standard values. The actual cross sections may vary. The cables are manufactured according to European standards with a metric conductor cross section.

Always observe relevant standards valid for divergent operating conditions when laying for greater limit current loads.

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Color

Black, white, red, green, blue, grey, yellow, natural, brown, pink, orange, green-yellow, violet.

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Dimension	Unit of measure						
Nominal cross section	mm²	0.25	0.50	0.75	1.00	1.50	2.50
Strands x diameter	ref. value	8 x 0.20	16 x 0.20	24 x 0.20	32 x 0.20	30 x 0.25	50 x 0.25
Outer diameter	mm	1.80	2.10	2.40	2.50	2.80	3.40

Dimension	Unit of measure						
Nominal cross section	mm²	4.00	6.00	10.00	16.00	25.00	35.00
Strands x diameter	ref. value	56 x 0.30	84 x 0.30	80 x 0.40	128 x 0.40	196 x 0.40	280 x 0.40
Outer diameter	mm	4.20	5.00	6.60	7.40	9.20	10.30

Dimension	Unit of measure					
Nominal cross section	mm²	50.00	70.00	95.00	120.00	150.00
Strands x diameter	ref. value	400 x 0.40	544 x 0.40	760 x 0.40	950 x 0.40	1184 x 0.40

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Dimension	Unit of measure					
Outer diameter	mm	12.20	14.20	16.60	18.0	20.00

Thermal	Unit of measure	Value
Thermal class		H (180°C)
Temperature range permanent	°C	-50 up to 180

Electrical	Unit of measure	Value
Operating voltage	V	300/500 AC
Testing voltage	V	2000 AC