
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 $\geq 1.5 \text{ mm}^2$

Delivery forms

Conductor cross section formats:

| mm ² | 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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Updated 05/24



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 | mm ² | 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 | mm ² | 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 | mm ² | 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 |

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