

# Silicone Insulated Multistrand Wires

## Insulating Material Silicone

### General characteristics

The outstanding properties of the silicone insulation include excellent flexibility and the ability to withstand brief contact with a soldering iron.

Good age resistance, high impact value, maximum elongation and tear strength, halogen-free and thus environment-friendly.

### Resistance to environmental influences

Very good weather and radiation resistance. Good chemical stability.

### Typical application

Used, e.g. for making up maximum flexibility test leads, wiring very flexible parts. An important safety feature is the silicone ash

produced after burning which continues to insulate the wires in the event of a fire. This can mean the continued function of electrical installations in industrial plants.

### Used for the following wire types

SiliVolt..., SiliStrom, SILI-... (SN)

Technical specifications	
Temperature range - permanent (permanent steam-resistance) - several hours - temporary (eg. contact with soldering iron)	-50 °C ... +150 °C ... +250 °C ... +300 °C
Relative permittivity	~ 2,7 – 2,8
Loss factor (frequency-dependent)	~ 0,003
Dielectric strength	18 – 20 kV/mm
Maximum elongation	500 %
Tear strength (very high resistance to tearing)	8,3 N/mm <sup>2</sup>
Hardness	60 Shore A

## SiliVolt-2V

Super flexible stranded wire with reinforced, double-layer insulation for the highest safety (inside natural, outside coloured). Damage to the outer layer of insulation can be more easily recognised due to the different colour of the underlying layer. Types ... SN

with tinned wire strands for continuous use at temperatures up to 150 °C.

### Typical Application

Hand-held test leads for maximum safety requirements and high thermal stress.



Order No.	Type	Nominal cross section	Strand design	Weight of cable	Conductor diameter	Thickness insulation wall	Outer diameter	Rated voltage	Test voltage	Rated current	Certification marks	*Colours
61.7664-□*	SIL SILI-2V 1,0	mm <sup>2</sup> 1,0	n x Ø mm 511 x 0,05	kg/km 21	mm 1,5	mm 1,2	mm 3,9	V 1500	V AC 8000	A 19		<div style="display: flex; justify-content: space-around; align-items: center;"> <span style="background-color: black; color: white; padding: 2px;">21</span> <span style="background-color: red; color: white; padding: 2px;">22</span> <span style="background-color: blue; color: white; padding: 2px;">23</span> <span style="background-color: yellow; color: black; padding: 2px;">24</span> <span style="background-color: green; color: white; padding: 2px;">25</span> <span style="background-color: purple; color: white; padding: 2px;">26</span> <span style="background-color: orange; color: white; padding: 2px;">27</span> </div> <div style="display: flex; justify-content: space-between; margin-top: 5px;"> <span style="background-color: grey; color: white; padding: 2px;">28</span> </div>