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-resitance) - 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/mm²
Hardness	60 Shore A

SiliStrom

Highly flexible stranded wire with reinforced insulation. Super-fine Cu strand.

Typical Application
Current feeds and earth/ground wires in machine, plant and accumulator construction. Safety test leads carrying high currents.



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
	SIL	mm²	n x Ø mm	kg/km	mm	mm	mm	V	V AC	A		
61.7611-□*	SILI-S 4,0	4,0	1036 x 0,07	55	3,0	1,2	5,4	1500	8000	42	[1]	21 22 23 33

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