Micataped wires

SK 780

- **Taped winding wire for operating temperature up to 500 °C**
- **Wire with a very high peak temperature resistance up to 1000°C**

General description
SK 780 high-temperature winding wire is a copper wire or a nickel-plated copper wire taped with a thin Mica film, that has been developed by Von Roll. Mica is highly resistant to temperature and it has also good dielectric properties such as, dielectric strength and corona resistance. A glass fabric is used as carrier for the Mica. There are very few amounts of organic materials included in the insulation.
Nickel-plated copper wires do not oxidise at high temperatures.

Applications
- Motors operating at high temperature coils with high temperature resistance as required in the textiles and plastics industry
- Fire resistant motors
- Thermo-couples
- Different high temperature applications

Standard Types
Round copper wire or nickel-plated copper wire

Diameter	0.70 … 3.50 mm Ø
Thickness of nickel-plating	3 µm / 5 µm / 10 µm

or as specified by customer

Advantages
Excellent thermal resistance
Good dielectric strength
Very good corona resistance

Technical Data

Temperature resistance	
Operating temperature	max. 230 °C (not nickel-plated)
	300 - 500 °C (depending on the thickness of nickel-plating)

Peak temperature >1000 °C

Dielectric strength >700 V (Mandrel 10 x d in the shot-bath)

Increase due to insulation 0.44 mm (+ 0.05 mm / - 0.05 mm)

Order Data
Quantity, Diameter of wire, Type, Supply for

e.g.:

Diameter d	0.80 mm
Material of wire	Cu nickel-plated
Thickness of nickel	5 µm
Type of insulation	SK 780

or abbreviated Rd 0.80 Cu 5 mm Ni SK 780

The order shall specify the type of reels required, e.g.:

Cylindrical reels acc. to IEC 60264-2 and DIN 46399 (identical with VSM 23890), or conical reels acc. to IEC 60263-3 and DIN 46383.

Standard reels:	Cylindrical	D250, D355, D500
	Conical	A250, A315

e.g.: 2000 kg RD SK780 NIP 0.80 D355

Delle Fil SAS
F-90100 Delle

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