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Flat Copper Wire, enamelled, type W 200

Description	The flat wire type W 200 is a winding wire with a flat copper conductor according to EN13601 Cu-ETP with a 2-ply insulation consisting of THEIC-modified polyesterimide, and polyamide as the over coat.
Properties	The strip wire type W 200 is a highly heat resistant enamelled copper wire (thermal class 200 °C). It has excellent thermal properties, exemplary abrasion resistance and outstanding chemical stabilities.
Application	The strip wire type W 200 is used in Class H (180 °C) DC and AC motors, oil, air-core and large transformers, solenoid coils and hermetic motors.
Standards	IEC 60317–29 or DIN EN 60317-29 IEC 67317-0-2 NEMA MW 36-C MW 37-C Partly UL approved RoHS compliant according to 2011/65 EC
Delivery format	Nominal thickness D: 1.0 to 5.0 mm Nominal width B: 2.0 to 20.0 mm (other dimensions on request) Grade 2 standard Grade 1 on request

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Technical data

Typical material properties of the strip wire type W 200,

grade 2[4] according to DIN EN 60317-29 and 60317-0-2

	Unit	
Chemical		
Enamel pencil harness after storage ½ h/ 60 °C in standard solvent		min. H
Resistance to impregnants		Yes
Resistance to transformer oils[1]		Yes
Resistance to refrigerants		Yes

(1)

	Unit	
Thermal		
Temperature index TI		200

	Unit	
Electrical		
Dielectric strength at RT	kV	≥ 2
Dielectric strength at elevated temperature	kV	> 1

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(1) Due to the variety of individual applications we cannot make any generally binding commitments regarding the compatibility. We recommend testing compatibility with the materials being used.

(2) Insulating varnish not polyamide modified.

(3) Not recommended for use in oil transformers.

(4) Tested according to IEC 60851-series, or DIN EN 60851-series, if not otherwise stated. The values shown correspond to the minimum requirements of the stated DIN EN standards. These standards do not rovide a guarantee of suitability for certain applications.

Temperature index (TI)

The temperature index is a dimensionless value and represents the long term thermal resistance or the admissible ageing temperature of the enamelled copper wire in °C for an extrapolated life span of 20,000 h. The temperature index does not necessarily correspond to the thermal class.

Thermal class

Enamelled copper wires according to IEC 60317-.. or DIN EN 60317-... are to be rated as Class X, if

(a) their long term thermal performance demonstrably proves an extrapolated life span of 20,000 h at an ageing temperature of min. X °C (tests preferably to be made on enamelled copper wires with a nominal diameter of 1.00 mm Grade 2) and

(b) the heat shock resistance complies with temperatures of 25 or 20°C above the rated thermal class.