Synflex Elektro GmbH Auf den Kreuzen 24 D-32825 Blomberg

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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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Updated 02/09 - 1 -

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Flat Copper Wire, enamelled, type W 200

## Technical data

temperature

Typical material properties of the strip wire type W 200,

grade 2<sup>(4)</sup> according to DIN EN 60317-29 and 60317-0-2

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	Unit	
Chemical		
Enamel pencil harness after		min. H
storage ½ h/ 60 °C in standard		
solvent		
Resistance to impregnants		Yes
Resistance to transformer oils <sup>(1)</sup>		Yes
Resistance to refrigerants		Yes
(1)		

	Unit	
Thermal		
Temperature index TI		200
	Unit	
Electrical		
Dielectric strength at RT	kV	≥ 2
Dielectric strength at elevated	kV	>1

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Index

- (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.

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Updated 02/09 - 3 -