



# ERCORONA-200

Round enamelled winding wire of copper  
corona resistance, class 200

## Properties:

- Excellent corona effect resistance
- High cut-through temperature
- Very good heat resistance

## Field of application:

- Inverter fed motors
- Transformers
- Power bridges
- Electric motors

## UL approval:

Not Approved

## Certifications:

IATF 16949

ISO 9001, ISO 14001, OHSAS 18001

RoHS, REACH

## Class: 200

Temperature index  $\geq 200$  °C

Heat shock:  $\geq 220$  °C

## Conductor material:

Cu according to EN 1977/ASTM B49

## Insulation:

Basecoat: THEIC-modified Polyester(-imide)

Overcoat: Polyamide-imide

## Product name:

ERCORONA-200 - Gr 1 / Single

ERCORONA-200 - Gr 2 / Heavy

ERCORONA-200 - Gr 3 / Triple

## Specifications:

IEC 60317-13

MW35-C

## Dimension range: IEC

ERCORONA-200 Gr 1  $0,10 \leq \varnothing \leq 4,00$  mm

ERCORONA-200 Gr 2  $0,10 \leq \varnothing \leq 4,00$  mm

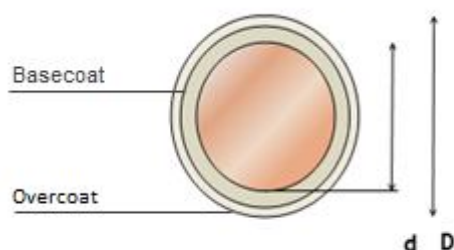
ERCORONA-200 Gr 3  $0,10 \leq \varnothing \leq 4,00$  mm

## Dimension range: NEMA

ERCORONA-200 Single  $38 \leq \varnothing \leq 6$  AWG

ERCORONA-200 Heavy  $38 \leq \varnothing \leq 6$  AWG

ERCORONA-200 Triple  $38 \leq \varnothing \leq 6$  AWG



D - d = Increase



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### Properties for ERCORONA-200

Main characteristics	Test method	Acceptance criteria	Test values for a ERCORONA-200 sample (1,00 mm, Gr2)
<u>Thermal properties</u>			
Heat shock	IEC 60851 - 6.3	≥ 220 °C	≥ 220 °C
Cut-through	IEC 60851 - 6.4	≥ 320°C	> 320 °C
Temperature index	IEC 60172	≥ 200 °C <sup>1)</sup>	≥ 200 °C <sup>1)</sup>
<u>Chemical properties</u>			
Solderability	IEC 60851-4.5	Not solderable	-
Resistance to Transformer oil	IEC 60851-4.6	IEC 60317-0-1	OK
<u>Electrical properties</u>			
Conductor resistance	IEC 60851 - 5.3	0,01709 Ωmm <sup>2</sup> /m	0,01709 Ωmm <sup>2</sup> /m
Conductivity	1/R	> 58 m/(Ωmm <sup>2</sup> )	> 58 m/(Ωmm <sup>2</sup> )
Breakdown voltage	IEC 60851 - 5.4	IEC 60317-0-1 <sup>2)</sup>	10,0 kV
<u>Mechanical properties</u>			
Elongation	IEC 60851-3.3	IEC 60317-0-1 <sup>2)</sup>	37%
Springiness	IEC 60851-3.4 Springiness <sup>3)</sup>	IEC 60317-0-1 <sup>2)</sup>	38°
	Springback <sup>4)</sup>	≤ 5°	-
Flexibility	IEC 60851-3.5 Mandrel wind. <sup>3)</sup>	0% elongation + 1xØ	1xØ
	Stretching <sup>4)</sup>	min 32%	-
Adherence	IEC 60851-3.5 Jerktest <sup>5)</sup>	No loss of adhesion	OK
	Peeltest <sup>6)</sup>	min. 110 <sup>7)</sup>	-

1. According to supplier certificate

2. Values depend on dimension and grade

3. Up to an including 1,60 mm

4. Over 1,60 mm

5. Up to an including 1,00 mm

6. Over 1,00 mm

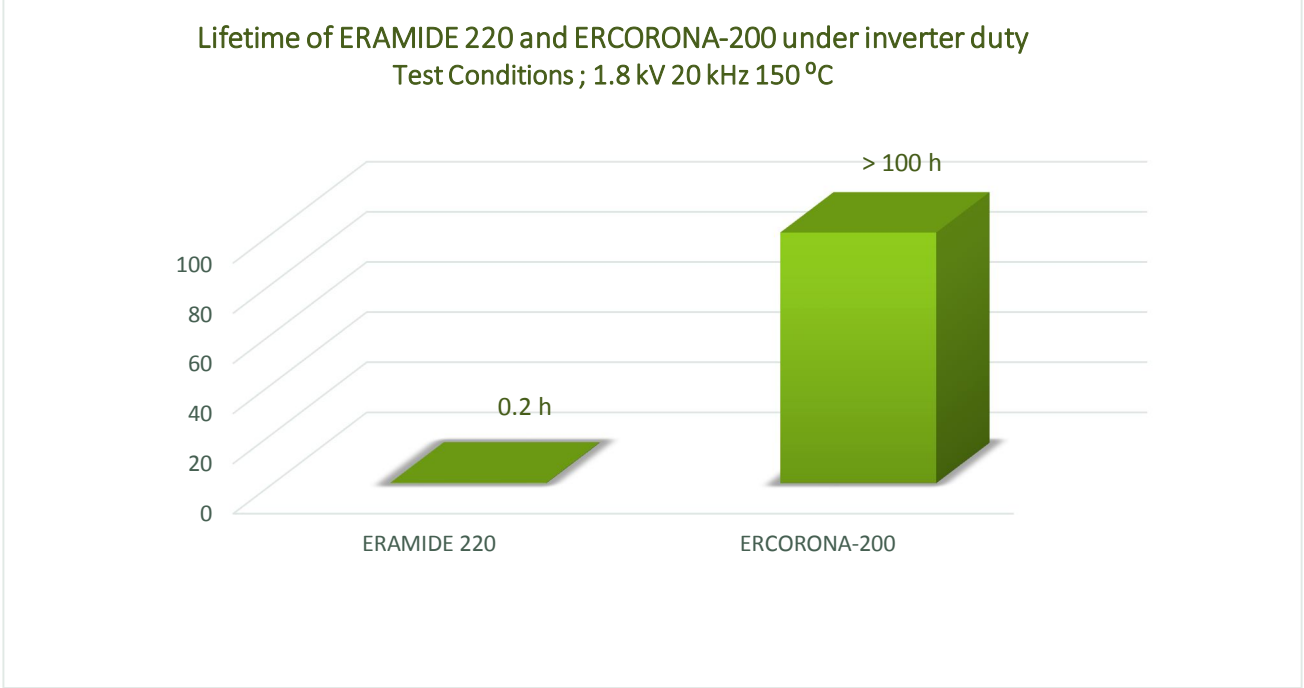
7. Revolutions x nominal dimension

Values above are for information only. All values noted are typical and can vary between lots and dimensions.



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