

Round Enamelled Wire

Copper, Heat Resistant, Class 200



Characteristics

Product name:

CTL 200 - Gr 1, CTL 200 - Gr 2, CTL 200 - Gr 3

Specifications:

IEC 60317-13

Class: 200

Temperature index: $\geq 200^{\circ}\text{C}$

Heat shock: $\geq 220^{\circ}\text{C}$

Conductor material:

EN 1977 - ETP1 CW003 A

EN 1977 - ETP CW004A

ASTM B49 - ETP C11000/C11040

Insulation:

Basecoat: THEIC-modified polyester or polyesterimide

Overcoat: polyamide-imide

Shelf life:

6 years, under normal ambient conditions

Properties:

- High heat resistance
- Suitable for winding in high speed machines
- Very good resistance to transformer oils
- Very good resistance to typical solvent
- Freon resistant
- Excellent resistance to mechanical stress

Field of application:

- Electric motors
- Transformers
- All kind of coils
- Ballasts
- Electric devices

Dimension range:

CTL 200 - Gr 1: $0,090 \leq \varnothing \leq 6,00\text{mm}$

CTL 200 - Gr 2: $0,090 \leq \varnothing \leq 6,00\text{mm}$

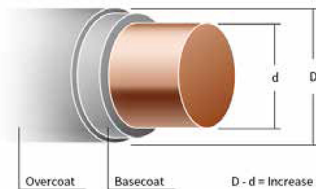
CTL 200 - Gr 3: $0,355 \leq \varnothing \leq 6,00\text{mm}$

Standard packaging:

PT25/PT60/PT90

depending on dimension and grade

Product drawings



Technical Properties

Main characteristics	Acceptance criteria	Test values for a damid200 sample (1,00 mm, Gr2)
Thermal properties Heat shock	$\geq 220^{\circ}\text{C}$	$\geq 220^{\circ}\text{C}$
Cut-through	$\geq 320^{\circ}\text{C}$	$\geq 400^{\circ}\text{C}$
Temperature index	$\geq 200^{\circ}\text{C}$	$\geq 200^{\circ}\text{C}$
Electrical properties Conductor resistance	0,01724 $\Omega\text{mm}^2/\text{m}$	0,01724 $\Omega\text{mm}^2/\text{m}$
Conductivity	$> 58 \text{ m}/(\Omega\text{mm}^2)$	$> 58 \text{ m}/(\Omega\text{mm}^2)$
Breakdown voltage	IEC 60317-0-1 ²⁾	7,0 kV
Mechanical properties Elongation	IEC 60317-0-1 ²⁾	40%
Springiness	IEC 60317-0-1 ²⁾ $\leq 5^{\circ}$	45% -
Flexibility	$1 \times \varnothing$ min 32%	$15\% + 11 \times \varnothing$ -
Adherence	No loss of adhesion min. 110 ²⁾	OK -