



DAMIDSOL 180

Round enamelled winding wire of copper, solderable, class 180

Product name:

Damidsol 180 - Gr 1

Damidsol 180 - Gr 2

Properties:

- Very good hairline crack avoidance

- Solderable at 470 °C

Specifications:

IEC 60317-23

Field of application:

- Motor applications

- Equipment construction

UL approval:

Approved: DAMIDSOL 180

UL-file no: E101843

Class: 180

Temperature index ≥ 180 °C

Heat shock: ≥ 200 °C

Dimension range:

Damid 180 Gr 1 $0,150 \leq \varnothing \leq 1,50$ mm

Damid 180 Gr 2 $0,150 \leq \varnothing \leq 1,50$ mm

Conductor material:

EN 1977 - ETP1 CW003A

EN 1977 - ETP CW004A

ASTM B49 - ETP C11000/C11040

Standard packaging:

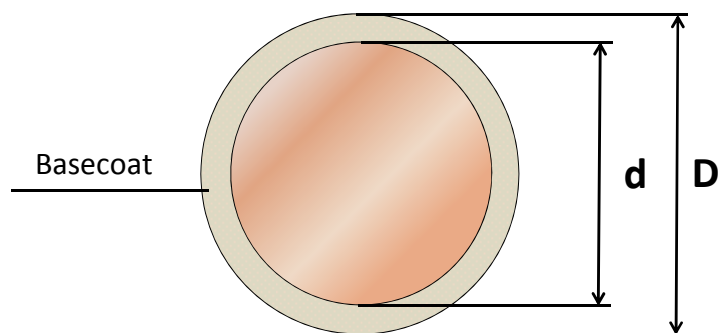
$0,150 \leq \varnothing \leq 1,50$ mm A250/400, A315/500

Shelf life:

6 years, under normal ambient conditions

Insulation:

Modified polyesterimide



$D - d = \text{Increase}$

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Properties for DAMIDSOL 180

Main characteristics	Test method	Acceptance criteria	Test values for a Damidsol 180 sample (0,50 mm, Gr1)
Thermal properties			
Heat shock	IEC 60851 - 6.3	≥ 200 °C	≥ 200 °C
Cut-through	IEC 60851 - 6.4	≥ 265 °C	> 340 °C
Temperature index	IEC 60172	≥ 180 °C ¹⁾	≥ 180 °C ¹⁾
Electrical properties			
Conductor resistance	IEC 60851 - 5.3	0,01724 Ωmm ² /m	0,01724 Ωmm ² /m
Conductivity	1/R	> 58 m/(Ωmm ²)	> 58 m/(Ωmm ²)
Breakdown voltage	IEC 60851 - 5.4	IEC 60317-0-1 ²⁾	> 4,0 kV cyl.
Mechanical properties			
Elongation	IEC 60851-3.3	IEC 60317-0-1 ²⁾	40%
Springiness	IEC 60851-3.4	IEC 60317-0-1 ²⁾	39°
Flexibility	IEC 60851-3.5 Mandrel wind.	1x∅	10 % elongation + 1x∅
Adherence	IEC 60851-3.5	Jerktest ³⁾	No loss of adhesion
		Peeltest ⁴⁾	min. 110 ⁵⁾

1. According to supplier certificate

2. Values depend on dimension and grade

3. Up to an including 1,00 mm

4. Over 1,00 mm

5. Revolutions x nominal dimension

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

The technical data included is up to date at the time of printing.
LWW reserves the right to make any amendments deemed necessary

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