

# DAMID 200

Rectangular enamelled conductor of copper, class 200

Former designation:  
Multogan 2000 MH  
Damid 2

**Product name:**

Damid 200

**Specifications:**

IEC 60317-29

**UL approval:**

Approved: Multogan MH 2000

UL-file no: E106565, MW 35

Approved: Damid

UL-file: E101843, MW35

**Class: 200**

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

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

**Conductor material:**

Cu according to EN 1977/ASTM B49

**Insulation:**

Basecoat: THEIC-modified polyester imide

Overcoat: Polyamide-imide

**Properties:**

- Very good abrasion resistance
- Very good impregnation resistance
- Very good hydrolysis resistance

**Field of application:**

- Electric motors
- Rotor coils
- Transformers

**Dimension range:**

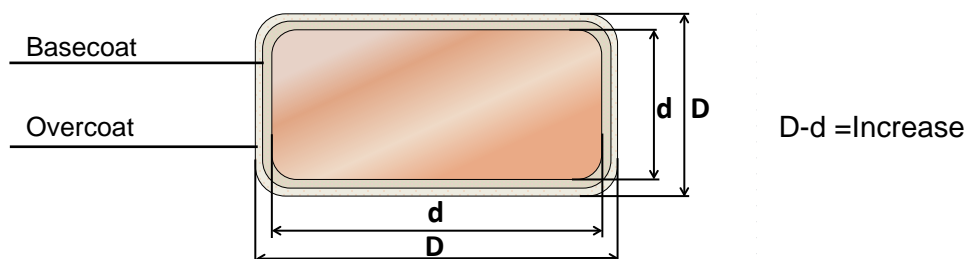
Damid 200- Gr 2                      1 - 100 mm<sup>2</sup>

**Standard packaging:**

Drum 355, 500, 630

**Shelf life:**

6 years, under normal ambient conditions



Increase in dimension due to insulation = 0,12-0,17 mm

Conductor tolerances

Nominal width or thickness of the conductor (mm)		Tolerance +/- (mm)
Over	Up to and including	
-	3,15	0,030
3,15	6,30	0,050
6,30	12,50	0,070
12,50	-	0,100

Conductor corner radius

Nominal thickness of conductor (mm)		Corner radius (mm)	Tolerance
Over	Up to and including		
-	1,00	0,5 nominal thickness	+/- 25%
1,00	1,60	0,50	+/- 25%
1,60	2,24	0,65	+/- 25%
2,24	3,55	0,80	+/- 25%
3,55	-	1,00	+/- 25%

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## Properties for DAMID 200

Main characteristics	Test method	Interval	Acceptance criteria	Test values for a Damid 200 sample (5,60 x 3,55)
<b>Thermal properties</b>				
Heat shock	IEC 60851 - 6.3	All sizes	$\geq 220^{\circ}\text{C}$ , 6 x T	$\geq 220^{\circ}\text{C}$ , 6 x T
Temperature index	IEC 60172	<sup>1)</sup>	$\geq 200^{\circ}\text{C}^{2)}$	$\geq 200^{\circ}\text{C}^{2)}$
<b>Electrical properties</b>				
Conductor resistance	IEC 60851 - 5.3	<sup>3)</sup>	0,01709 $\Omega\text{mm}^2/\text{m}$	0,01709 $\Omega\text{mm}^2/\text{m}$
Conductivity	1/R	<sup>3)</sup>	$> 58 \text{ m}/(\Omega\text{mm}^2)$	$> 58 \text{ m}/(\Omega\text{mm}^2)$
Breakdown voltage	IEC 60851 - 5.4	All sizes	2,0 kV	$> 5,0 \text{ kV}$
<b>Mechanical properties</b>				
Elongation	IEC 60851-3.3	$1,00 \leq T \leq 2,50$	$\geq 30\%$	-
		$T > 2,50$	$\geq 32\%$	40%
Springback angle	IEC 60851-3.4	All sizes	$\leq 5^{\circ}$	4,1 $^{\circ}$
Flexibility	IEC 60851-3.5	width $\leq 10 \text{ mm}$	4 x width	3 x width
- Bending edgewise		width $> 10 \text{ mm}$	5 x width	4 x width
- Bending flatwise		All sizes	4 x thickness	3 x thickness
Adherence	IEC 60851-3.5	All sizes	15% stretch, Loss of adhesion $< 1 \text{ x width}$	30% stretch
-Cut and stretch				

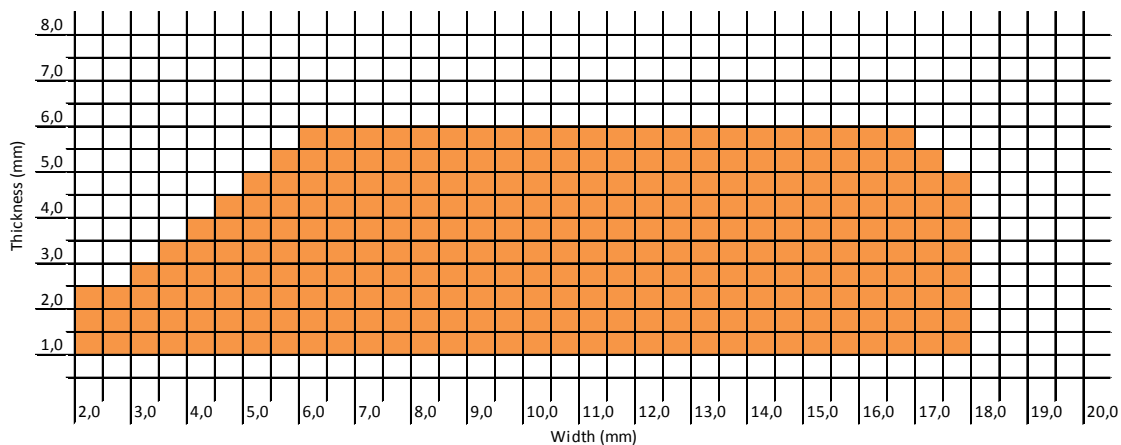
1. Test conducted on round wire, 1,00 mm grade 2, according to IEC 60172

2. According to supplier certificate

3. Dependence of dimension is expressed by the unit

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

## Dimension range



The technical data included is up to date at the time of printing.

LWW reserve the right to make any amendments deemed necessary

Liljedahl Winding Wire

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liljedahl winding wire