



DAMIDOMIC

Rectangular enamelled conductor of copper, wrapped with micatape, class 155

Product name:

Damidomic

Specifications:

Internal LWW or customer specification

UL approval:

Not approved

Class: 155

Temperature index $\geq 155^{\circ}\text{C}$

Heat shock: $\geq 155^{\circ}\text{C}$

Conductor material:

Cu according to EN 1977/ ASTM B49

Properties:

- Good resistance to partial discharges
- Good resistance to mechanical stress

Field of application:

- Generators
- Transformers
- Electrical motors

Standard packaging:

Drum 630 and 730

Self life:

12 month at $20 \pm 5^{\circ}\text{C}$

Insulation

Basecoat: THEIC-modified polyester imide

Overcoat: Polyamide-imide

1-4 layers micatape

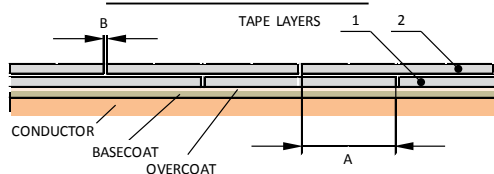
Conductor tolerances

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

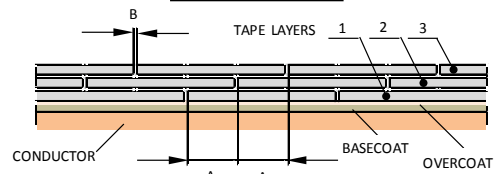
Conductor corner radius

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%

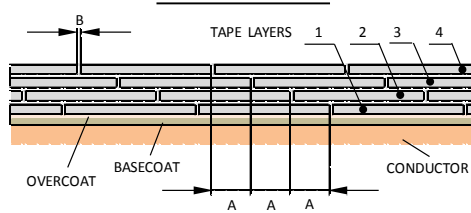
Damidomic 1B and 2B



Damidomic 3B



Damidomic 4B



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Designation	No of tapelayers	Overlap (A) (W= width of micatape) ¹⁾	Buttlap (B) (All layers)	Increase (enamel + micatape)
Damidomic 1B	1 x PETP ²⁾ (layer 1) 1 x Mica ³⁾ (layer 2)	A=W/2 ±1 mm	-0...+0,3 mm	0,29 - 0,43
Damidomic 2B	2 x Mica	A=W/2 ±1 mm	-0...+0,3 mm	0,38 - 0,56
Damidomic 3B	3 x Mica	A=W/3 ±1 mm	-0...+0,5 mm	0,52 - 0,74
Damidomic 4B	4 x Mica	A= 0,4W ±1 mm	-0...+0,6 mm	0,65 - 0,92

1. 10, 12 or 15 mm width depending on conductor dimension and width/thickness ratio

2. PETP film used is similar to the polyester film used for micatape. Thickness 0,03 mm.

3. Micatape used is no adhesive, one side polyesterfilm reinforced. Thickness 0,09 mm

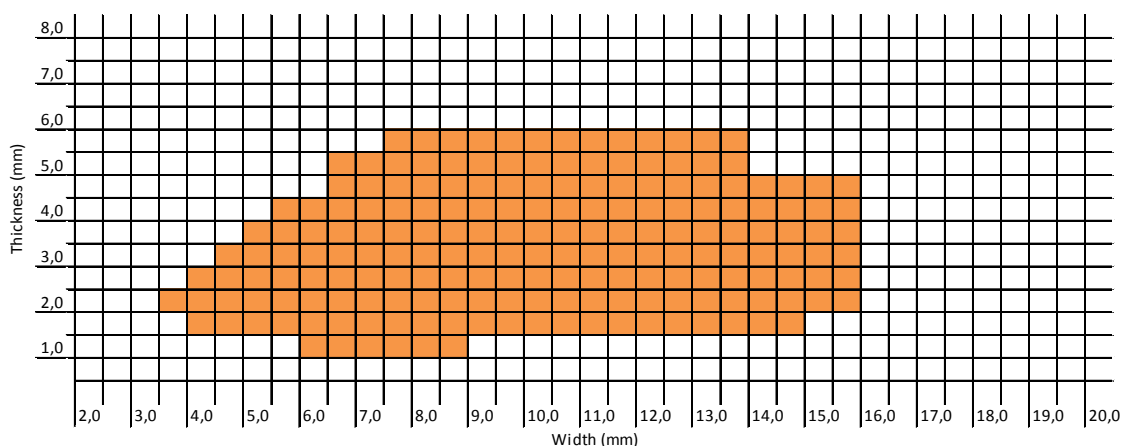
Properties for DAMIC

Main characteristics	Test method	Interval	Acceptance criteria
Thermal properties			
Temperature index	IEC 60172	-	≥ 155°C ¹⁾
Electrical properties			
Conductor resistance	IEC 60851 - 5.3	2)	0,01709 Ωmm ² /m
Conductivity	1/R	2)	> 58 m/(Ωmm ²)
Breakdown voltage	IEC 60851 - 5.4	All sizes	> 3,0 kV
- Damidomic 1B			> 4,0 kV
- Damidomic 2B			> 5,0 kV
- Damidomic 3B			> 6,0 kV
- Damidomic 4B			
Mechanical properties			
Elongation	IEC 60851-3.3	1,00 ≤ T ≤ 2,50	≥ 30%
		T > 2,50	≥ 32%
Springback angle	IEC 60851-3.4	All sizes	≤ 5°

1. According to supplier certificate

2. Dependence of dimension is expressed by the unit

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

dahréntråd | isodraht | śląska | 利里达尔电磁线
liljedahl winding wire