



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

Insulation

Basecoat: THEIC-modified polyesterimide

Overcoat: Polyamide-imide

1-4 layers micatape

Properties:

- Very good resistance to partial discharges

Field of application:

- Generators
- Transformers
- Electrical motors

Standard packaging:

K500, VM630, VM710

Self life:

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

Conductor material:

EN 1977 - ETP1 CW003A

EN 1977 - ETP CW004A

ASTM B49 - ETP C11000/C11040

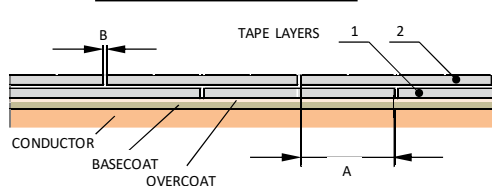
Conductor corner radius

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%

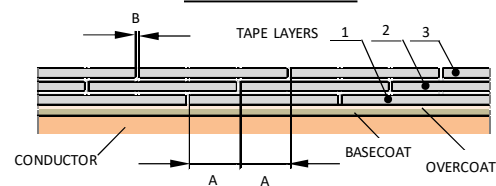
Conductor tolerances

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

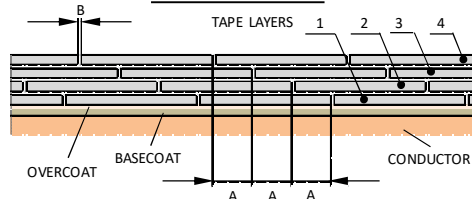
Damidomic 1B and 2B



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)	$A=W/2 \pm 1 \text{ mm}$	-0...+0,3 mm	0,29 - 0,43
Damidomic 2B	2 x Mica	$A=W/2 \pm 1 \text{ mm}$	-0...+0,3 mm	0,38 - 0,56
Damidomic 3B	3 x Mica	$A=W/3 \pm 1 \text{ mm}$	-0...+0,5 mm	0,52 - 0,74
Damidomic 4B	4 x Mica	$A= 0,4W \pm 1 \text{ mm}$	-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

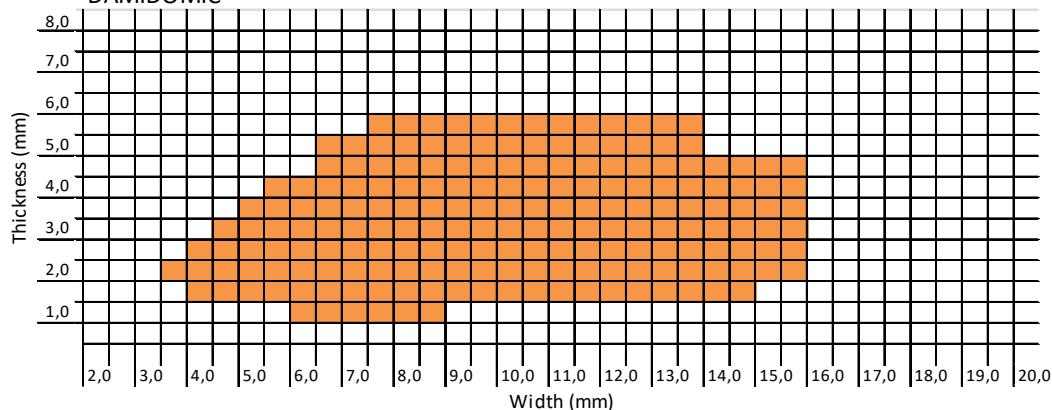
Properties for DAMIDOMIC

Main characteristics	Test method	Interval	Acceptance criteria
<u>Thermal properties</u>			
Temperature index	IEC 60172	-	≥ 155°C ¹⁾
<u>Electrical properties</u>			
Conductor resistance	IEC 60851 - 5.3	2)	0,01724 Ωmm ² /m
Conductivity	1/R	2)	> 58 m/(Ωmm ²)
Breakdown voltage	IEC 60851 - 5.4	All sizes	
- Damidomic 1B			> 3,0 kV
- Damidomic 2B			> 4,0 kV
- Damidomic 3B			> 5,0 kV
- Damidomic 4B			> 6,0 kV
<u>Mechanical properties</u>			
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 DAMIDOMIC



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

LWW reserves the right to make any amendments deemed necessary

Ed.A(2)