



# DAMIC

Rectangular conductor of copper, wrapped with micatape, class 155

**Product name:**

Damic

**Properties:**

- Good resistance to partial discharges

**Specifications:**

Internal LWW or customer specification

**Field of application:**

- Windpower generators
- Transformers
- Electrical motors

**UL approval:**

Not approved

**Standard packaging:**

Drum 630 and 710

**Class: 155**

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

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

**Self life:**

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

**Conductor material:**

Cu according to EN 1977/ASTM B49

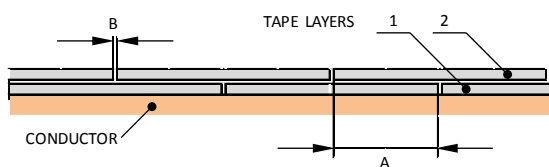
Conductor tolerances

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

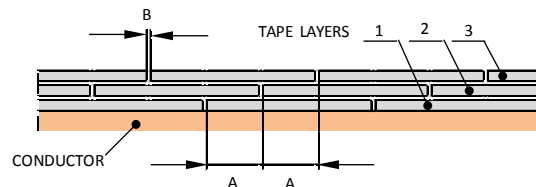
Conductor corner radius

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%

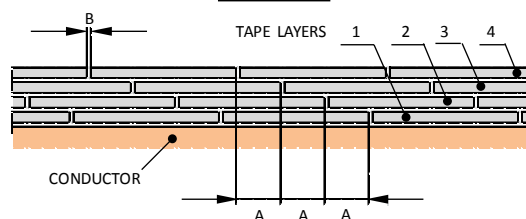
Damic 1B and 2B



Damic 3B



Damic 4B



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Designation	No of tapelayers	Overlap (A) (W= width of micatape) <sup>1)</sup>	Buttlap (B) (All layers)	Increase
Damic 1B	1 x PETP <sup>2)</sup> (layer 1) 1 x Mica <sup>3)</sup> (layer 2)	A=W/2 ±1 mm	-0...+0,3 mm	0,19 - 0,23
Damic 2B	2 x Mica	A=W/2 ±1 mm	-0...+0,3 mm	0,28 - 0,36
Damic 3B	3 x Mica	A=W/3 ±1 mm	-0...+0,5 mm	0,42 - 0,54
Damic 4B	4 x Mica	A= 0,4W ±1 mm	-0...+0,6 mm	0,55 - 0,72

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

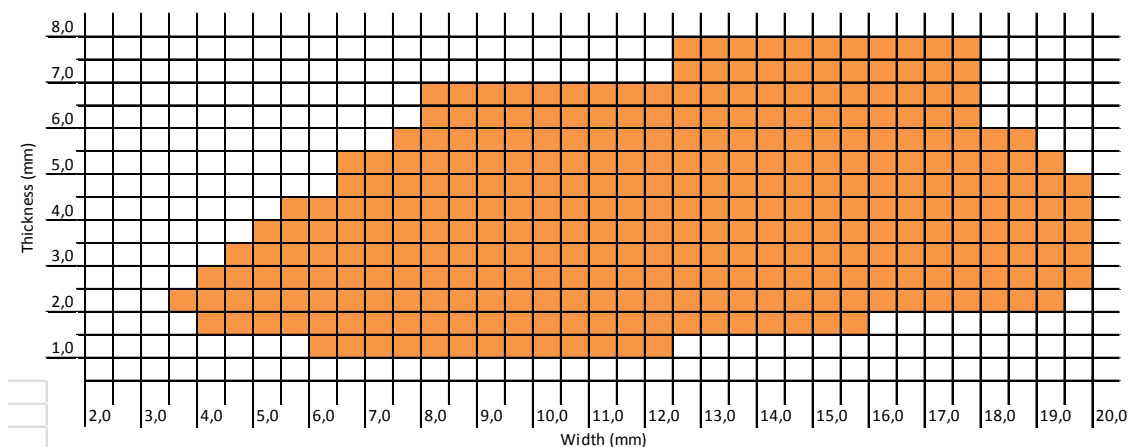
## Properties for DAMIC

Main characteristics	Test method	Interval	Acceptance criteria
<b>Thermal properties</b>			
Temperature index	IEC 60172	-	≥ 155°C <sup>1)</sup>
<b>Electrical properties</b>			
Conductor resistance	IEC 60851 - 5.3	2)	0,01709 Ωmm <sup>2</sup> /m
Conductivity	1/R	2)	> 58 m/(Ωmm <sup>2</sup> )
Breakdown voltage	IEC 60851 - 5.4	All sizes	> 3,0 kV
- Damic 1B			> 4,0 kV
- Damic 2B			> 5,0 kV
- Damic 3B			> 6,0 kV
- Damic 4B			
<b>Mechanical properties</b>			
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

ślaska

利里达尔电磁线  
liljedahl winding wire