



DAMIDOGLAS 155 AL

Rectangular enamelled, polyester glass fibre covered, conductor of aluminium, class 155

Product name:

Damidoglas 155 AL

Specifications:

Internal LWW or customer specification

UL approval:

Not approved

Class: 155

Temperature index $\geq 155^{\circ}\text{C}$ acc. to experience

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

Insulation:

Basecoat: THEIC-modified polyester(imide)

Overcoat: Polyamide-imide

1-2 layers of polyester glass fibre yarn

Properties:

- Good resistance to mechanical stress
- Very good adhesion to conductor

Field of application:

- Generators
- Electric motors

Standard packaging:

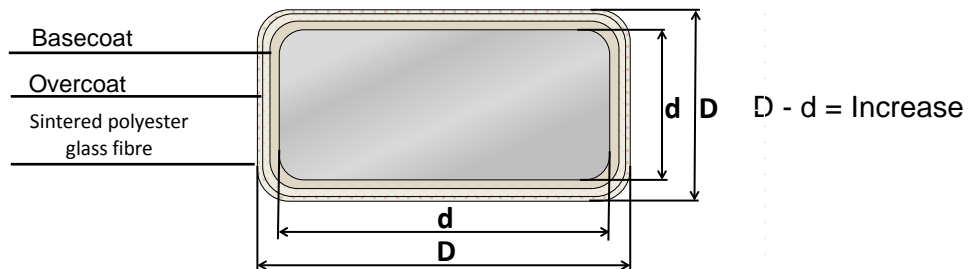
Drum 500 and 630

Shelf life:

5 years, under normal ambient conditions

Conductor material

AL according to EN 1715



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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Insulation increase

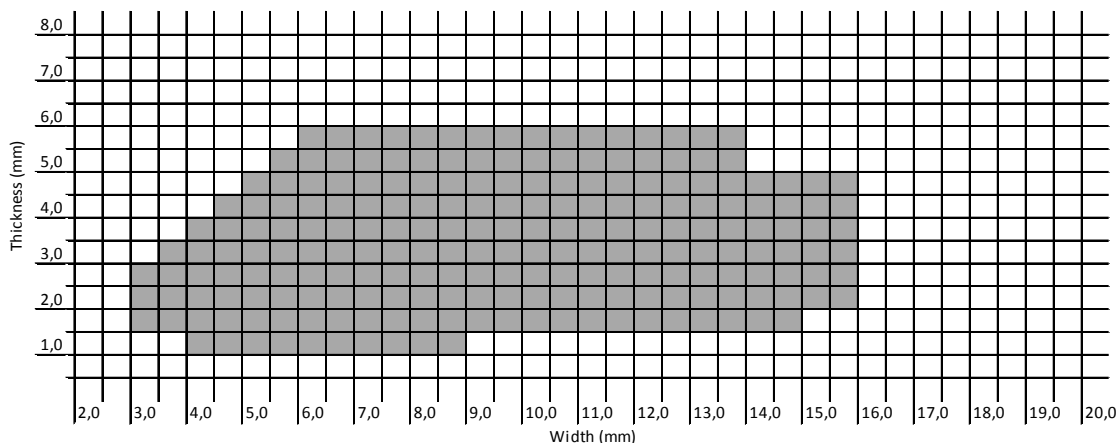
Designation	Nominal width of conductor	Increase in thickness	Increase in width
Damidoglas 155 AL 1	$2,00 \leq W \leq 3,15$	$0,27 \pm 0,06$	max. 0,33
	$3,15 < W \leq 6,30$	$0,29 \pm 0,06$	max. 0,35
	$6,30 < W \leq 12,50$	$0,31 \pm 0,07$	max. 0,38
	$12,50 < W \leq 20,50$	$0,33 \pm 0,09$	max. 0,41
Damidoglas 155 AL 2	$2,00 \leq W \leq 3,15$	$0,40 \pm 0,08$	max. 0,48
	$3,15 < W \leq 6,30$	$0,43 \pm 0,09$	max. 0,52
	$6,30 < W \leq 12,50$	$0,45 \pm 0,10$	max. 0,55
	$12,50 < W \leq 20,50$	$0,47 \pm 0,10$	max. 0,57

Properties for DAMIDOGLAS 155 AL

Main characteristics	Test method	Interval	Acceptance criteria
Electrical properties			
Conductor resistance	IEC 60851 - 5.3	1)	$0,02789 \Omega \text{mm}^2/\text{m}$
Conductivity	1/R	1)	$> 35,5 \text{ m}/(\Omega \text{mm}^2)$
Breakdown voltage	IEC 60851 - 5.4	All sizes	2350 V
- Damidoglas 155 AL 1 - Damidoglas 155 AL 2			2560 V
Mechanical properties			
Elongation	IEC 60851-3.3	$T \leq 3,15$	$\geq 15\%$
		$T > 3,15$	$\geq 20\%$
Flexibility	IEC 60851-3.5	All sizes	10 x thickness
- Bending flatwise			
Adherence	IEC 60851-3.5	All sizes	10 % stretch, no loss of adhesion
-Stretch			

1. 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

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