



# DAROGLAS 155 AL

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

**Product name:**

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

**Conductor material**

AL according to EN 1715

**Insulation:**

1-2 layers of polyester glass fibre yarn

**Properties:**

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

**Field of application:**

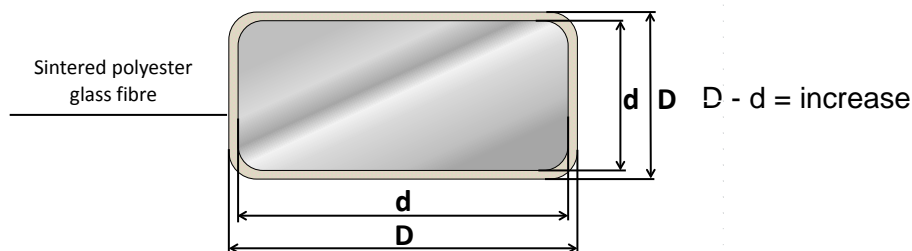
- Dry-type transformers
- Electric motors

**Standard packaging:**

Drum 500 and 630

**Shelf life:**

5 years, under normal ambient conditions



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

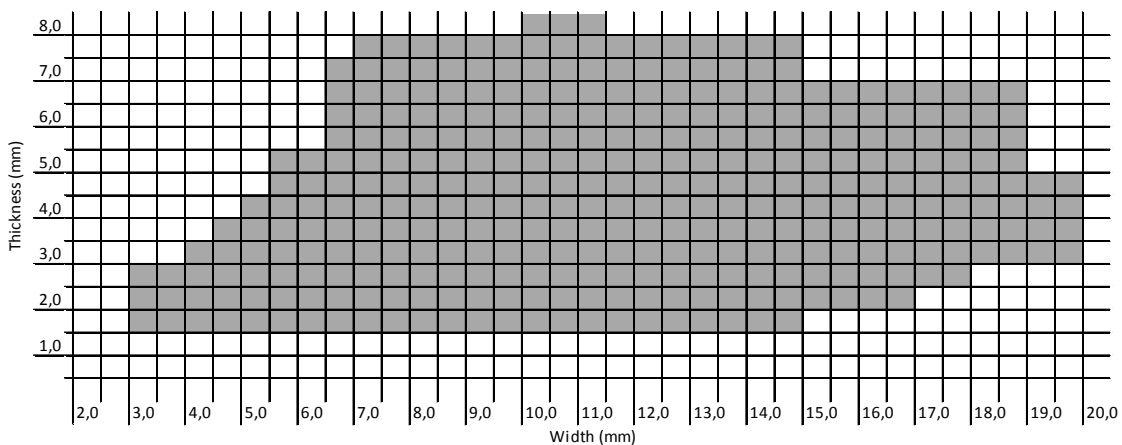
Designation	Nominal width of conductor	Increase in thickness	Increase in width
Daroglas 155 AL 1	$2,00 \leq W \leq 3,15$	$0,12 \pm 0,04$	max. 0,16
	$3,15 < W \leq 6,30$	$0,14 \pm 0,04$	max. 0,18
	$6,30 < W \leq 12,50$	$0,16 \pm 0,05$	max. 0,21
	$12,50 < W \leq 20,50$	$0,18 \pm 0,06$	max. 0,24
Daroglas 155 AL 2	$2,00 \leq W \leq 3,15$	$0,25 \pm 0,06$	max. 0,31
	$3,15 < W \leq 6,30$	$0,28 \pm 0,07$	max. 0,35
	$6,30 < W \leq 12,50$	$0,30 \pm 0,08$	max. 0,38
	$12,50 < W \leq 20,50$	$0,32 \pm 0,08$	max. 0,40

## Properties for DAROGLAS 155 AL

Main characteristics	Test method	Interval	Acceptance criteria
<b>Electrical properties</b>			
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 - Daroglas 155 AL 1 - Daroglas 155 AL 2	IEC 60851 - 5.4	All sizes	350 V 560 V
<b>Mechanical properties</b>			
Elongation	IEC 60851-3.3	$T \leq 3,15$ $T > 3,15$	$\geq 15\%$ $\geq 20\%$
Flexibility - Bending flatwise		All sizes	10 x thickness
Adherence -Stretch	IEC 60851-3.5	All sizes	10 % stretch, no loss of adhesion

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

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