DAMIDFIBRE 155 AL

Rectangular enamelled and glass-fibre covered conductor of aluminium, class 155

Product name:
Damidfibre 155 AL

Specifications:
Internal LWW or customer specification

UL approval:
Not approved

Class: 155
Temperature index ≥ 155°C acc. to experience
Heat shock: ≥ 155°C

Insulation:
Basecoat: THEIC-modified polyester(imide)
Overcoat: Polyamide-imide
1-2 layers of glass-fibre yarn
Impregnation: Polyurethane

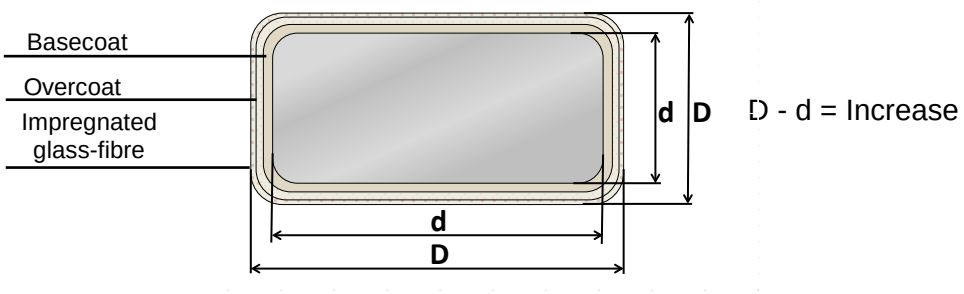
Properties:
- Good resistance to mechanical stress
- Heat resistant

Field of application:
- Generators
- Electric machines

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
Damidfibre 155 AL 1	2,00 ≤ W ≤ 3,15	0,30 ± 0,06	max. 0,36
	3,15 < W ≤ 6,30	0,32 ± 0,06	max. 0,38
	6,30 < W ≤ 12,50	0,35 ± 0,07	max. 0,42
	12,50 < W ≤ 20,50	0,38 ± 0,08	max. 0,46
Damidfibre 155 AL 2[1)]	2,00 ≤ W ≤ 3,15	0,37 ± 0,06	max. 0,51
	3,15 < W ≤ 6,30	0,37 ± 0,06	max. 0,53
	6,30 < W ≤ 12,50	0,42 ± 0,08	max. 0,57
	12,50 < W ≤ 20,50	0,47 ± 0,08	max. 0,63

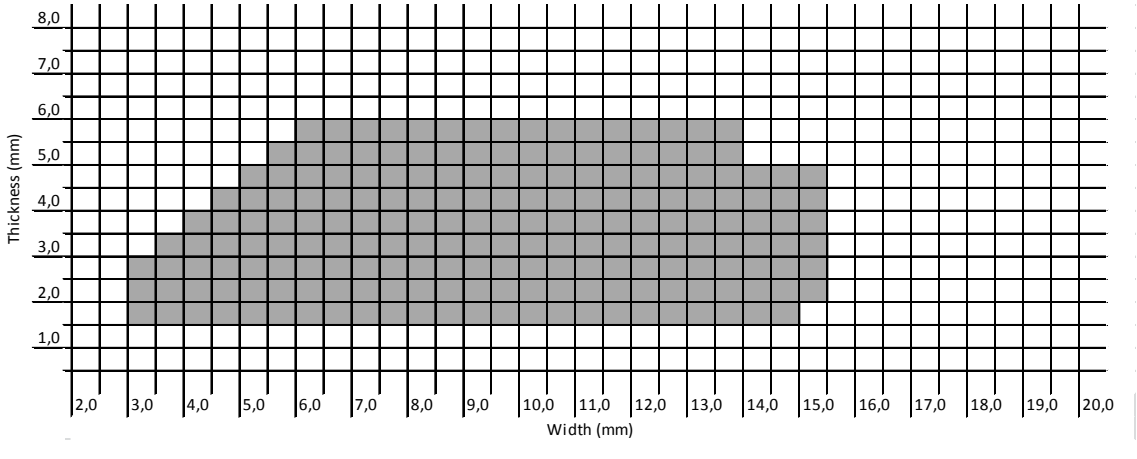
1. Not IEC standard, values modified to suit LWW productionprocess

Properties for DAMIDFIBRE 155 AL

Main characteristics	Test method	Interval	Acceptance criteria
Electrical properties			
Conductor resistance	IEC 60851 - 5.3	1)	0,02789 Ωmm²/m
Conductivity	1/R	1)	> 35,5 m/(Ωmm²)
Breakdown voltage - Damidfibre 155 AL 1 - Damidfibre 155 AL 2	IEC 60851 - 5.4	All sizes	 1,5 kV 2,0 kV
Mechanical properties			
Elongation	IEC 60851-3.3	T ≤ 3,15	≥ 15%
		T > 3,15	≥ 20%
Flexibility - Bending flatwise	IEC 60851-3.5	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

Certified according to ISO 9001:2000, ISO-TS 16949, ISO 14001