



DAFIBRE EP 155 AL

Rectangular conductor of aluminium, covered with glassfibre yarn and epoxy, class 155

Product name:

Dafibre EP 155 1 AL
Dafibre EP 155 2 AL

Properties:

- Excellent resistance to mechanical stress
- Suitable in lightweight designs

Specifications:

Internal LWW or customer specification

Field of application:

- Generators
- Large motors
- Magnet coils
- Welding equipment

UL approval:

Not approved

Class: 155

Temperature index $\geq 155^{\circ}\text{C}$ acc. to experience
Heat shock: $\geq 175^{\circ}\text{C}$

Standard packaging:

Drum 500 and 630

Shelf life:

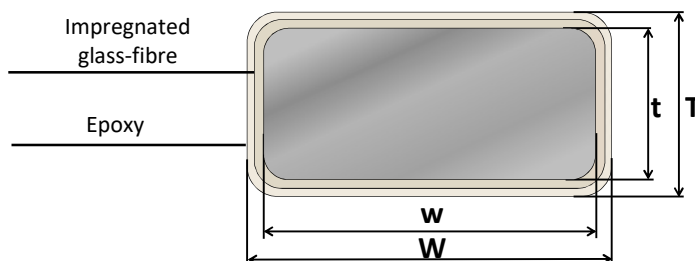
6 month, under normal ambient conditions

Insulation:

1-2 layers of glass-fibre yarn
Impregnation: Polyurethane
Adhesive layer: Epoxy

Conductor material:

EN 1715 - EN AW1370 [Al 99.7]



$T - t =$ Increase in thickness

$W - w =$ Increase in width

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

Certified according to ISO 9001, IATF 16949, ISO 14001

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Insulation increase

Designation	Nominal width of conductor	Increase in thickness	Increase in width
Dafibre EP 155 1 AL	$2,00 \leq w \leq 3,15$	$0,16 \pm 0,04$	max. 0,20
	$3,15 < w \leq 6,30$	$0,18 \pm 0,04$	max. 0,22
	$6,30 < w \leq 12,50$	$0,21 \pm 0,05$	max. 0,26
	$12,50 < w \leq 20,50$	$0,24 \pm 0,06$	max. 0,30
Dafibre EP 155 2 AL	$2,00 \leq w \leq 3,15$	$0,27 \pm 0,06$	max. 0,33
	$3,15 < w \leq 6,30$	$0,30 \pm 0,07$	max. 0,37
	$6,30 < w \leq 12,50$	$0,35 \pm 0,08$	max. 0,43
	$12,50 < w \leq 20,50$	$0,39 \pm 0,08$	max. 0,47

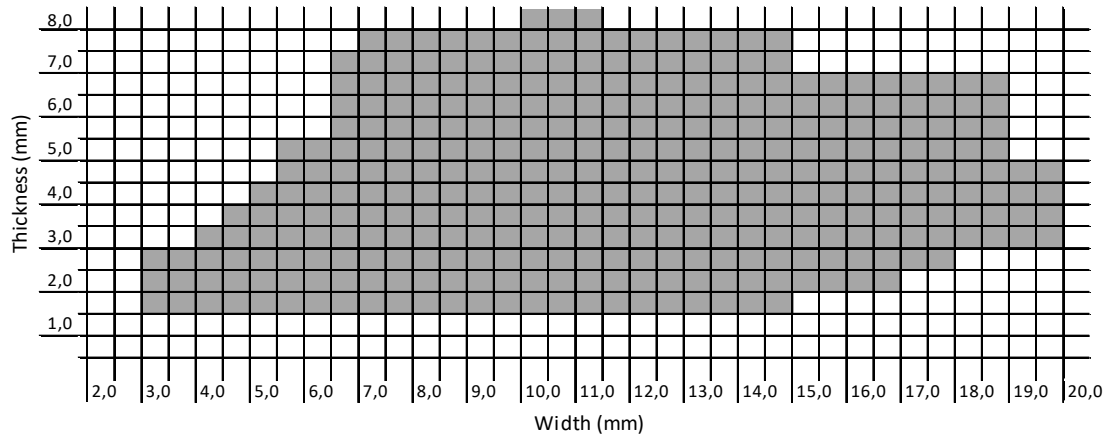
Properties for DAFIBRE EP 155 AL

Main characteristics	Test method	Interval	Acceptance criteria
Electrical properties			
Conductor resistance	IEC 60851 - 5.3	1)	$0,02817 \Omega \text{mm}^2/\text{m}$
Conductivity	1/R	1)	$> 35,5 \text{ m}/(\Omega \text{mm}^2)$
Breakdown voltage	IEC 60851 - 5.4	All sizes	350 V
- Dafibre EP 155 1 AL - Dafibre EP 155 2 AL			560 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

DAFIBRE EP AL



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(3)