



# DAFIBRE 155 EP

Rectangular glass-fibre covered conductor of copper, with epoxy, class 155

**Product name:**

Dafibre 155 EP

**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**

Cu according to EN 1977/ASTM B49

**Properties:**

- Good resistance to mechanical stress
- B-stage cured epoxy layer allows pre-pressing of windings

**Field of application:**

- Stator coils
- Large generators
- Electric motors

**Standard packaging:**

Drum 500 and 630

**Shelf life:**

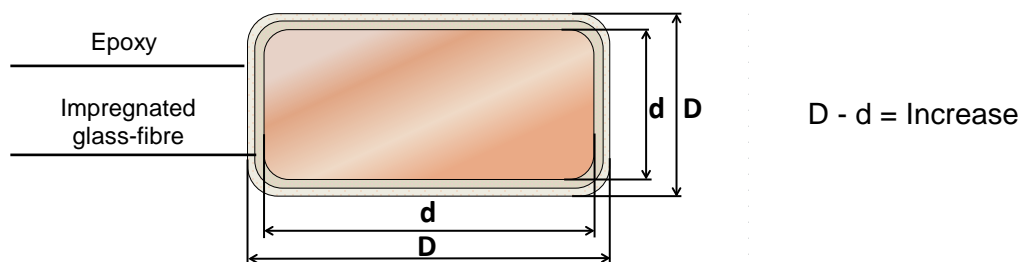
6 month, under normal ambient conditions

**Insulation:**

1- 2 layers of glass-fibre yarn

Impregnation: Polyurethane

Adhesive layer: Epoxy



Conductor 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

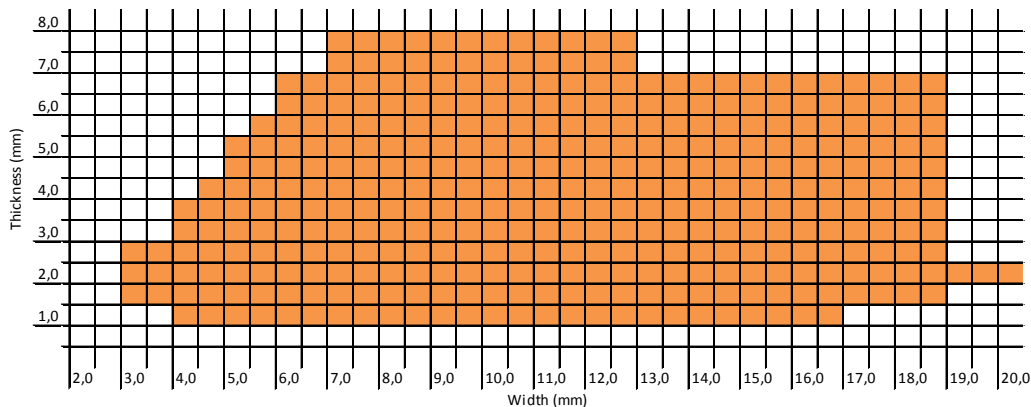
Designation	Nominal width of conductor	Increase in thickness	Increase in width
Dafibre 155 EP 1	$2,00 \leq W \leq 3,15$	$0,16 \pm 0,04$	max. 0,20
	$3,15 < W \leq 6,30$	$0,18 \pm 0,04$	max. 0,22
	$6,30 < W \leq 12,50$	$0,21 \pm 0,05$	max. 0,26
	$12,50 < W \leq 20,50$	$0,24 \pm 0,06$	max. 0,30
Dafibre 155 EP 2	$2,00 \leq W \leq 3,15$	$0,27 \pm 0,06$	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 155 EP

Main characteristics	Test method	Interval	Acceptance criteria
<b>Electrical properties</b>			
Conductor resistance	IEC 60851 - 5.3	1)	$0,01709 \Omega \text{mm}^2/\text{m}$
Conductivity	1/R	1)	$> 58 \text{ m}/(\Omega \text{mm}^2)$
Breakdown voltage	IEC 60851 - 5.4	All sizes	350 V
- Dafibre 155 EP 1 - Dafibre 155 EP 2			560 V
<b>Mechanical properties</b>			
Elongation	IEC 60851-3.3	$1,00 \leq T \leq 2,50$	$\geq 30\%$
		$T > 2,50$	$\geq 32\%$
Springback angle	IEC 60851-3.4	All sizes	$\leq 5,5^\circ$
Flexibility	IEC 60851-3.5	$W \leq 8 \text{ mm}$	10 x width
- Bending edgewise		$W > 8 \text{ mm}$	15 x width
- Bending flatwise		All sizes	10 x thickness
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

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