



DAFIBRE 155

Rectangular glass-fibre covered conductor of copper, class 155

Product name:

Dafibre 155

Properties:

- Good resistance to mechanical stress

Specifications:

IEC 60317-32 or customer specification

Field of application:

- Dry-type transformers
- Electric motors
- Magnet coils
- Welding transformers

UL approval:

Not approved

Class: 155

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

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

Standard packaging:

Drum 500 and 630

Shelf life:

5 years, under normal ambient conditions

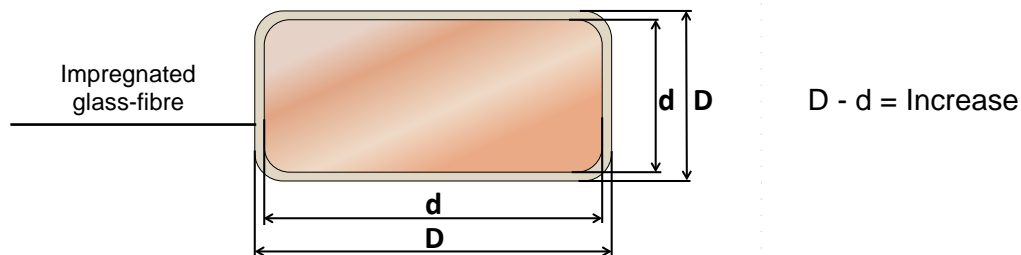
Conductor material

Cu according to EN 1977/ASTM B49

Insulation:

1-3 layers of glass-fibre yarn

Impregnation: Polyurethane



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

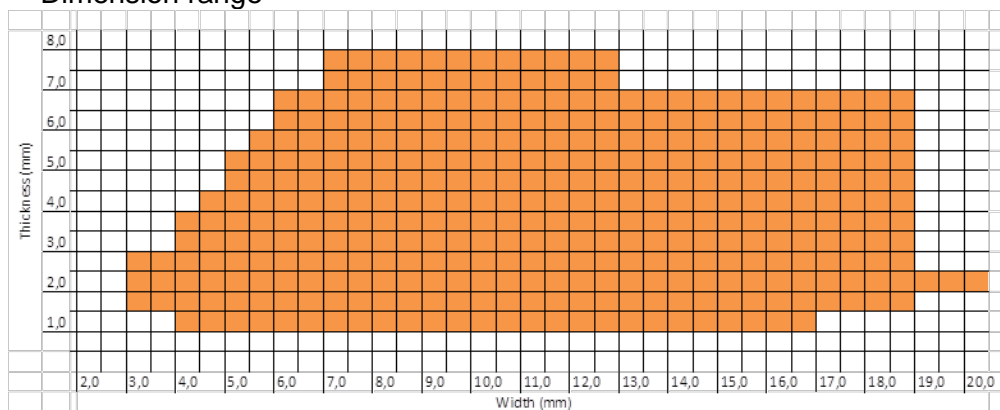
Designation	Nominal width of conductor	Increase in thickness	Increase in width
Dafibre 155 1	$2,00 \leq W \leq 3,15$	$0,16 \pm 0,04$	max. 0,20
	$3,15 < W \leq 6,30$	$0,18 \pm 0,04$	max. 0,22
	$6,30 < W \leq 12,50$	$0,21 \pm 0,05$	max. 0,26
	$12,50 < W \leq 20,50$	$0,24 \pm 0,06$	max. 0,30
Dafibre 155 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
Dafibre 155 3	$2,00 \leq W \leq 3,15$	$0,44 \pm 0,09$	max. 0,53
	$3,15 < W \leq 6,30$	$0,46 \pm 0,09$	max. 0,55
	$6,30 < W \leq 12,50$	$0,50 \pm 0,11$	max. 0,61
	$12,50 < W \leq 20,50$	$0,64 \pm 0,14$	max. 0,78

PROPERTIES OF DAFIBRE 155

Main characteristics	Test method	Interval	Acceptance criteria
Electrical properties			
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 1			560 V
- Dafibre 155 2			900 V
- Dafibre 155 3			
Mechanical properties			
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

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