



DAMIDFIBRE 155 EP

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

Product name:

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

Insulation:

Basecoat: THEIC-modified polyester(imide)

Overcoat: Polyamide-imide

1-2 layers of glass-fibre yarn

Impregnation: Polyurethane

Adhesive layer: Epoxy

Properties:

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

Field of application:

- Transformers
- Large generators
- Electric motors

Standard packaging:

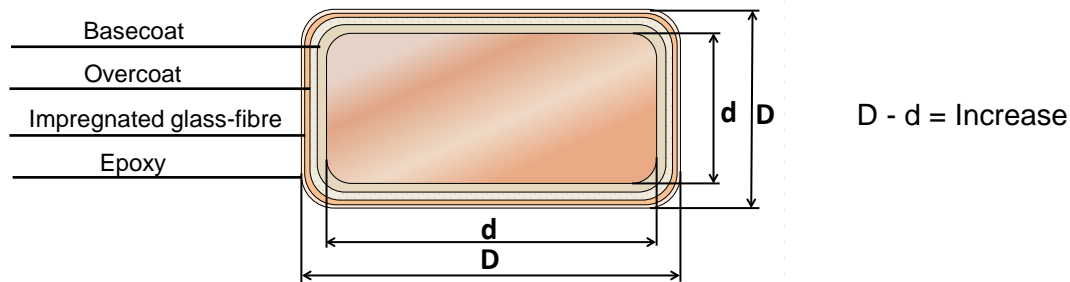
Drum 500 and 630

Shelf life:

6 month, under normal ambient conditions

Conductor material

Cu according to EN 1977/ASTM B49



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 EP 1	$2,00 \leq W \leq 3,15$	$0,30 \pm 0,06$	max. 0,36
	$3,15 < W \leq 6,30$	$0,32 \pm 0,06$	max. 0,38
	$6,30 < W \leq 12,50$	$0,35 \pm 0,07$	max. 0,42
	$12,50 < W \leq 20,50$	$0,38 \pm 0,08$	max. 0,46
Damidfibre 155 EP 2¹⁾	$2,00 \leq W \leq 3,15$	$0,37 \pm 0,06$	max. 0,51
	$3,15 < W \leq 6,30$	$0,37 \pm 0,06$	max. 0,53
	$6,30 < W \leq 12,50$	$0,42 \pm 0,08$	max. 0,57
	$12,50 < W \leq 20,50$	$0,47 \pm 0,08$	max. 0,63

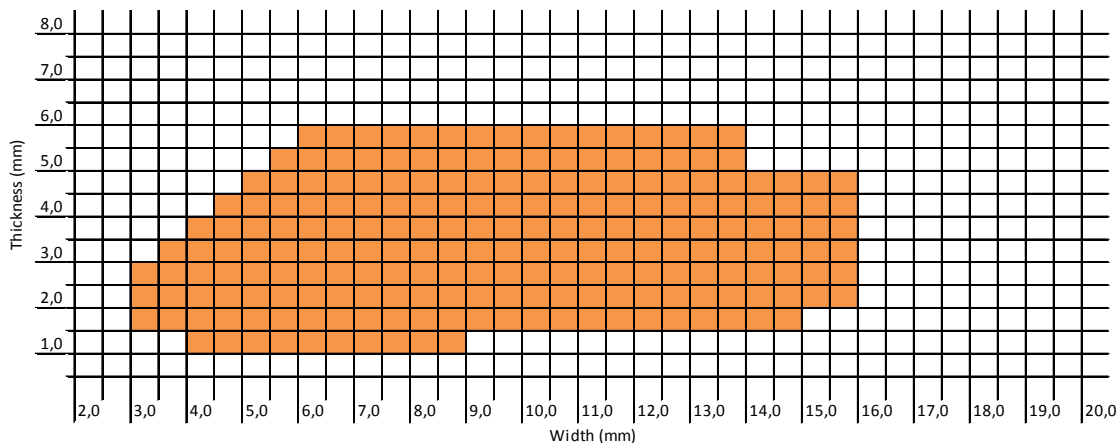
1. Not IEC standard, values modified to suit LWW production process

Properties for DAMIDFIBRE 155 EP

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	1,5 kV
- Damidfibre 155 EP 1 - Damidfibre 155 EP 2			2,0 kV
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

dahréntråd | isodraht | śląska | 利里达尔电磁线
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