



# DAMIDFIBRE 155

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

**Product name:**

Damidfibre 155

**Properties:**

- Good resistance to mechanical stress
- Heat resistant

**Specifications:**

IEC 60317-32 or customer specification

**Field of application:**

- Dry-type transformers
- Electric motors
- Generators

**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

**Insulation:**

Basecoat: THEIC-modified polyester(imide)

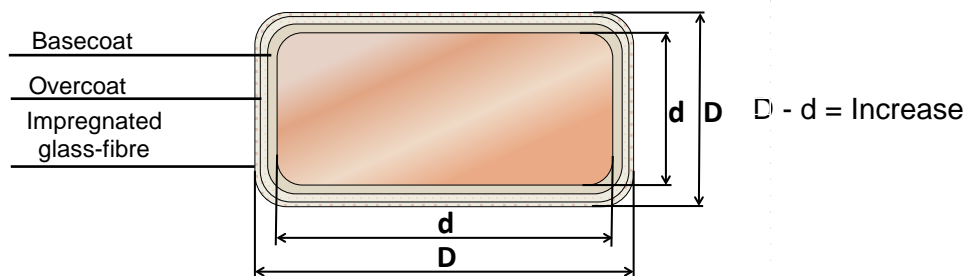
Overcoat: Polyamide-imide

1-2 layers of glass-fibre yarn

Impregnation: Polyurethane

**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 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 2 <sup>1)</sup>	$2,00 \leq W \leq 3,15$	$0,37 \pm 0,06$	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

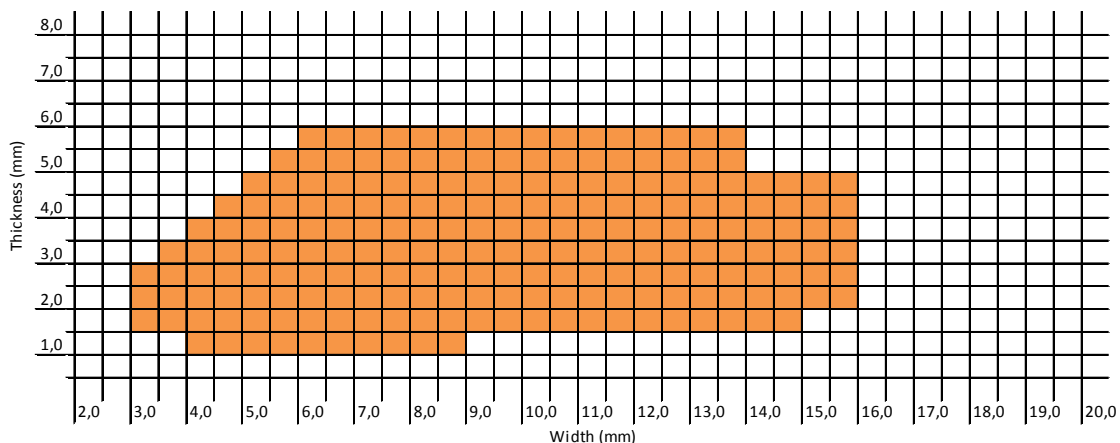
1. Not IEC standard, values modified to suit LWW production process

## Properties for DAMIDFIBRE 155

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

dahréutråd

isodraht

ślaska

利里达尔电磁线  
liljedahl winding wire