DAFIBRE 180 EP

Rectangular glass-fibre covered conductor of copper, with epoxy, class 180

Product name:
Dafibre 180 EP

Specifications:
Internal LWW or customer specification

UL approval:
Not approved

Class: 180
Temperature index ≥ 180°C acc. to experience
Heat shock: ≥ 180°C

Conductor material
Cu according to EN 1977/ASTM B49

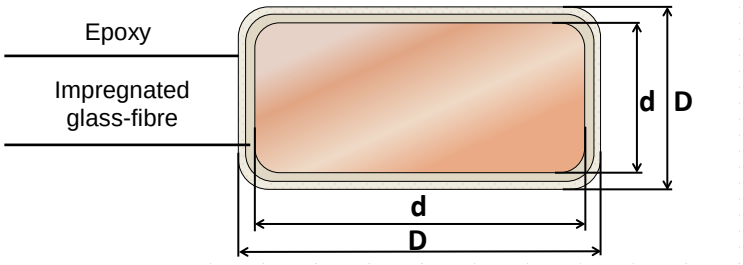
Insulation:
1- 2 layers of glass-fibre yarn
Impregnation: Polyesterimide
Adhesive layer: Epoxy

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



D - d = Increase

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

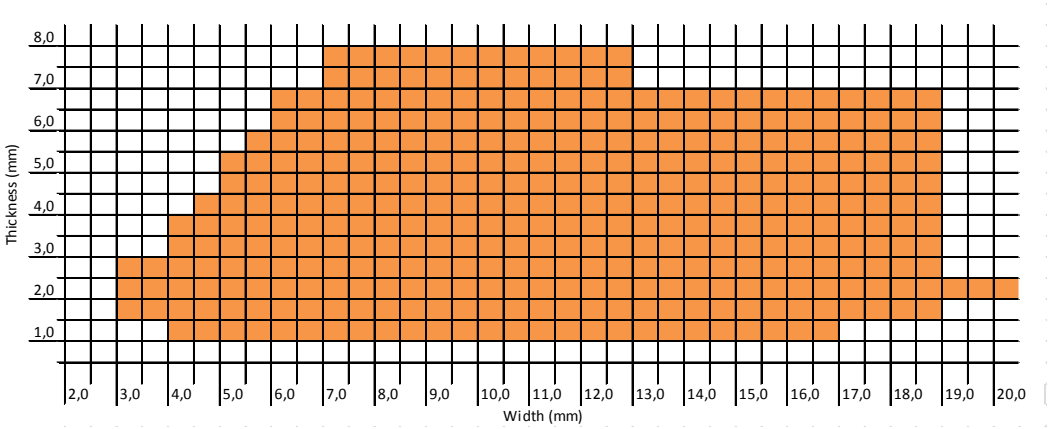
Designation	Nominal width of conductor	Increase in thickness	Increase in width
Dafibre 180 EP 1	2,00 ≤ W ≤ 3,15	0,16 ± 0,04	max. 0,20
	3,15 < W ≤ 6,30	0,18 ± 0,04	max. 0,22
	6,30 < W ≤ 12,50	0,21 ± 0,05	max. 0,26
	12,50 < W ≤ 20,50	0,24 ± 0,06	max. 0,30
Dafibre 180 EP 2	2,00 ≤ W ≤ 3,15	0,27 ± 0,06	max. 0,33
	3,15 < W ≤ 6,30	0,30 ± 0,07	max. 0,37
	6,30 < W ≤ 12,50	0,35 ± 0,08	max. 0,43
	12,50 < W ≤ 20,50	0,39 ± 0,08	max. 0,47

Properties for DAFIBRE 180 EP

Main characteristics	Test method	Interval	Acceptance criteria
Electrical properties			
Conductor resistance	IEC 60851 - 5.3	1)	0,01709 Ωmm²/m
Conductivity	1/R	1)	> 58 m/(Ωmm²)
Breakdown voltage			
- Dafibre 180 EP 1	IEC 60851 - 5.4	All sizes	350 V
- Dafibre 180 EP 2			560 V
Mechanical properties			
Elongation	IEC 60851-3.3	1,00 ≤ T ≤ 2,50	≥ 30%
		T > 2,50	≥ 32%
Springback angle	IEC 60851-3.4	All sizes	≤ 5,5°
Flexibility			
- Bending edgewise	IEC 60851-3.5	W ≤ 8 mm	10 x width
		W > 8 mm	15 x width
- Bending flatwise		All sizes	10 x thickness
Adherence -Stretch	IEC 60851-3.5	All sizes	10 % stretch, no loss of adhesion

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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Certified according to ISO 9001:2000, ISO-TS 16949, ISO 14001