



DAKAP CR

Rectangular conductor of copper, wrapped with corona resistant PI-film, class 240

Product name:

Dakap CR

Specifications:

Internal LWW or customer specification

UL approval:

Not approved

Class: 240

Temperature index $\geq 240^{\circ}\text{C}$

Heat shock: $\geq 260^{\circ}\text{C}$

Insulation:

Corona resistant Polyimide-film

Properties:

- Outstanding thermal resistance
- Excellent resistance to humidity
- Very good resistance to partial discharges

Field of application:

- Traction motors
- Large industrial motors
- Generators

Standard packaging:

K500, VM630

Shelf life:

5 years, under normal ambient conditions

Conductor material

EN 1977 - ETP1 CW003 A

EN 1977 - ETP CW004A

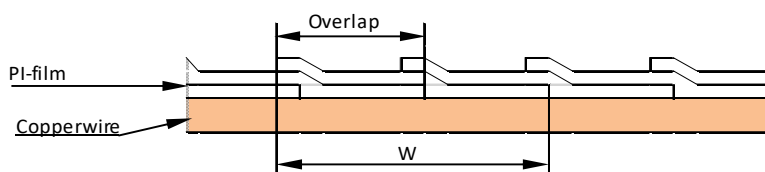
ASTM B49 - ETP C11000/C11040

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%

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



Standard insulation:

Designation	PI-film	Overlap	Width	Increase (doublesided)
Dakap 7050 CR	1 Polyimide-film	50%	11,1 mm	0,15 ± 0,03 mm
Dakap 7053 CR	1 Polyimide-film	53%	11,1 mm	0,23 ± 0,03 mm
Dakap 7031 CR	1 Polyimide-film	67%	11,1 mm	0,23 ± 0,03 mm
Dakap 7075 CR	1 Polyimide-film	75%	11,1 mm	0,30 ± 0,03 mm

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Properties for DAKAP CR

Main characteristics	Test method	Interval	Acceptance criteria
Thermal properties			
Heat shock	IEC 60851 - 6.3 ¹⁾	$1,00 \leq t \leq 7,00$	$\geq 260^{\circ}\text{C}$
Temperature index	IEC 60172	-	$\geq 240^{\circ}\text{C}^{2)}$
Electrical properties			
Conductor resistance	IEC 60851 - 5.3	4)	$0,01724 \Omega\text{mm}^2/\text{m}$
Conductivity	1/R	4)	$> 58 \text{ m}/(\Omega\text{mm}^2)$
Breakdown voltage	IEC 60851 - 5.4 ³⁾	All sizes	$> 5,0 \text{ kV}$
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	$\leq 5^{\circ}$
Flexibility	IEC 60851-3.5	$2 \leq w \leq 8 \text{ mm}$	2 x width
		$8 < w \leq 16 \text{ mm}$	4 x width
		$w > 16 \text{ mm}$	6 x width
- Bending edgewise		All sizes	2 x thickness
- Bending flatwise			
Adherence	IEC 60851-3.5	All sizes	20% stretch, Loss of adhesion max. 1mm
			-Cut and stretch

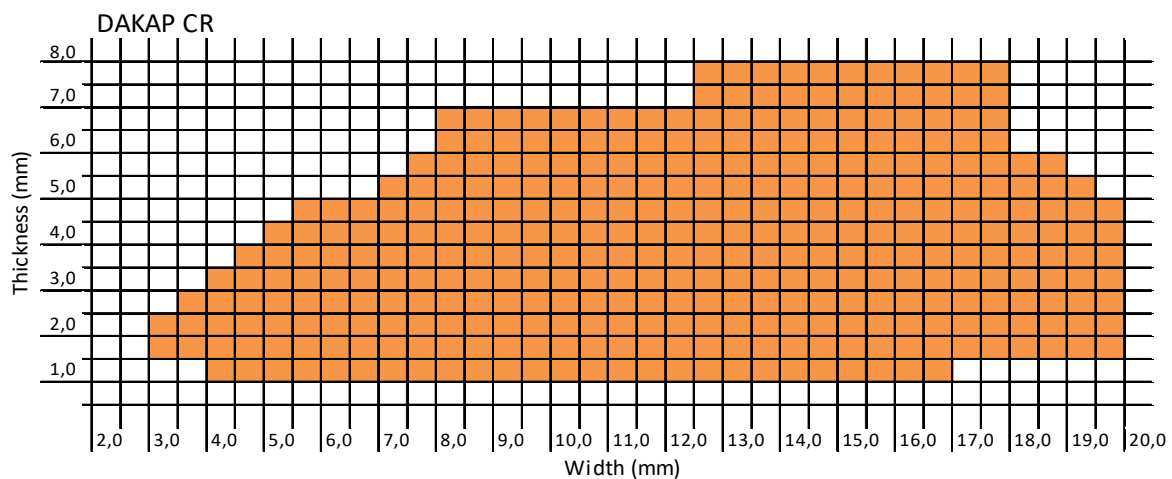
1. Performed on straight piece

2. According to supplier certificate

3. Bent according to flexibility test

4. Dependence of dimension is expressed by the unit

Dimension range



The technical data included is up to date at the time of printing.

LWW reserves the right to make any amendments deemed necessary

Ed.A(3)