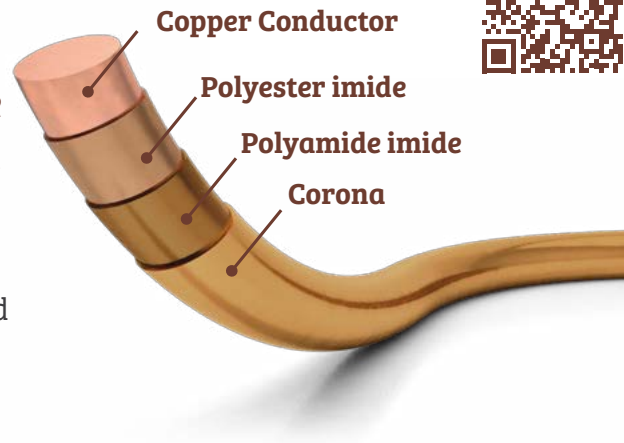


# EmTherm CR

I.E.C 60317 - 13

EmTherm CR, is a Corona Resistant enamelled copper wire, belonging in HC (200°C) thermal class, able to be manufactured in the diameter range of 0.50 - 2.20 mm with three different insulation layers.

Providing thermal resistance up to 200°C, EmTherm-CR possess the feature of being wound at high speeds and is resistant against corona effect. Produced specially for inverter driven motors, it has a life time up to 10 times longer.



### Fields of Use:

- Inverter driven motors
- Traction motors
- Power bridges
- Semi-hermetic compressor motors

Thermal Class (°C)	Class HC, 200°C	<p><b>EmTherm200, EmTherm-CR</b>  <b>Corona Resistance Test</b>                      Test Conditions: 20kHz 1,5 kV p-p 155°C</p> <table border="1"> <caption>Corona Resistance Test Results</caption> <thead> <tr> <th>Product</th> <th>Resistance (min)</th> </tr> </thead> <tbody> <tr> <td>EmTherm200 Gr2</td> <td>12</td> </tr> <tr> <td>EmThermCR Gr2</td> <td>125</td> </tr> <tr> <td>EmTherm CR<sup>PLUS</sup> Gr2</td> <td>660</td> </tr> </tbody> </table>	Product	Resistance (min)	EmTherm200 Gr2	12	EmThermCR Gr2	125	EmTherm CR <sup>PLUS</sup> Gr2	660
Product	Resistance (min)									
EmTherm200 Gr2	12									
EmThermCR Gr2	125									
EmTherm CR <sup>PLUS</sup> Gr2	660									
Insulation   Base Coat	THEIC Modified Polyesterimide									
Insulation   Mid Coat	Polyamide imide									
Insulation   Top Coat	Corona									
Production Range (mm)	0.50 - 2.20 mm									
Standards IEC	IEC 60317 - 13									
Heat Shock (°C)	≥ 220°C									
Cut-Through Temperature (°C)	≥ 340°C									
Soldering Temperature (°C)	Non-solderable									
Bonding Temperature (°C)	Non-applicable									
Re-softening Temperature (°C)	Non-applicable									
Normal Solvent Resistance	5H									
Dipping Varnish Resistance	Very good									
Refrigerant Resistance	Very good									
Transformer Oil Resistance	Very good									
Distinct Features	Lifetime up to 10 times longer, resistance against corona effect, specially designed for inverter motors, high speed winding.									
Fields of Use	Motors with long lifetime without maintenance requirements, power transformers, inverter driven motors, generators, semi-hermetic compressor motors, traction motors.									

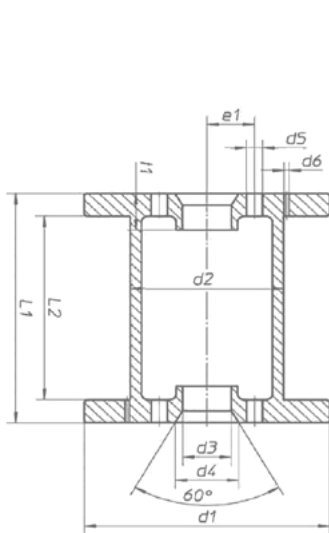
● Copper conductor ⚡ Resistant against corona effect 🔥 200°C thermal class



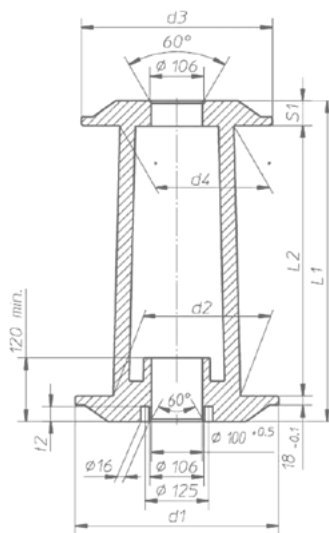
# Reel & Packaging

Reel Type	Average Reel Capacity		Dimensions (mm)					L1	L2	Number of Reels Per Package
	Type Code	kgs	lbs	d1	d2	d3	d4			
<b>Cylindrical Reel</b>										
K 125	2.5	5.5	125	80	16	24	7	125	100	12
K 160	6-8	13-18	160	100	22	34	13	160	128	4
K 200	12-14	26-30	200	125	22	34	13	200	160	2
K 250	20-24	44-52	250	160	22	34	13	200	160	1
<b>Conical Reel</b>										
A 250 / 400	35-40	77-88	250	160	100	140	236	400	335	–
A 315 / 500	70-90	155-200	315	200	100	180	300	500	425	–
A 400 / 630	160-180	350-400	400	250	100	224	375	630	530	–
<b>Bi-Conical Reel</b>										
HKV 160	5-7	11-15	160	90	22	34	–	160	85	–
HKV 200	10-15	22-33	200	112	22	34	–	200	106	–

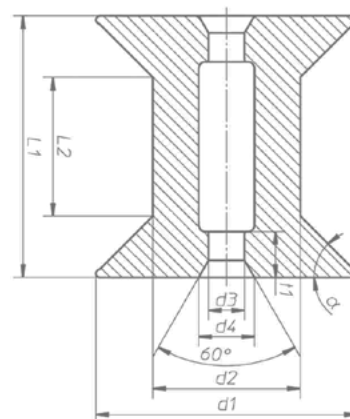
<b>Pt Reel</b>									
Reel Type	Tare of reel (gr)	Dimensions (mm)							Average Reel Capacity (AL) (kg)
			D2	d1	d2	w	h	a	
PT-4	340	124	140	74	86	170	26	15	1-2
PT-10	620	160	180	96	110	200	26	15	3-5
PT-15	740	180	200	96	110	200	30	15	5-8
PT-25	1000	215	230	110	130	250	30	15	10-12
PT-60	2000	270	300	150	180	350	45	25	24-26
PT-90	2800	300	315	180	200	425	100	38	35-40
PT-200	7300	375	400	225	250	530	100	50	70-80



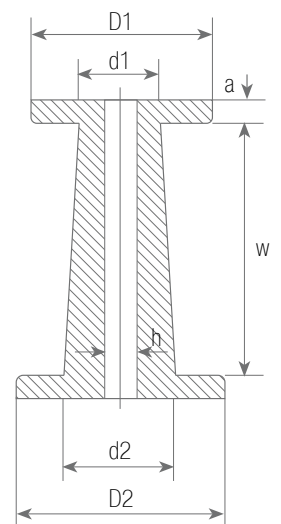
Cylindrical Reel



Conical Reel



Bi-Conical Reel



Pt Reel