



# Enamelled Rectangular Copper Winding Wire

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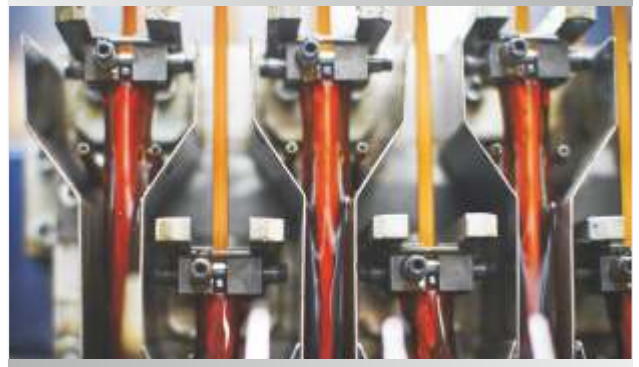


## Typical Applications

- ✘ Electric Motors and Generators
- ✘ Transformers
- ✘ Alternating Current (AC) Coils
- ✘ Direct Current (DC) Coils
- ✘ Wind Mill Generators

# Insulation Options

- ✘ Polyvinyl Acetal Enamel (120° C)
- ✘ Polyester Enamel (Class F 155° C)
- ✘ Polyesterimide (Class H 180° C)
- ✘ Dual Coated Polyester (imide) +Polyamideimide (Overcoat)(Class C 200° C)



## Enamel Increase in Dimension

- ✘ Grade 1: Maximum 0.11mm
- ✘ Grade 2: Maximum 0.16mm

## Testing

Our Quality Assurance Laboratory is equipped with testing facilities to assess:

- ✘ Mechanical Properties
- ✘ Thermal Properties
- ✘ Electrical Properties
- ✘ Chemical Properties

## Reference Specifications

Standard and customised products are designed to meet international norms such as International Electrotechnical Commission (IEC), International Standards Organization (ISO), Deutsch Industrie Norm (DIN) and respective national standards.

Size Range		
Specifications	Minimum	Maximum
Thickness	0.8 mm (0.032 in)	5 mm (0.200 in)
Width	3 mm (0.118 in)	16 mm (0.63 in)
Cross Sectional Area	3.2 mm <sup>2</sup>	80 mm <sup>2</sup>

Technical Data			
Temperatures Index	155°C	180°C	200°C
Characteristic of enamelled wire	For Mechanical Stress	For Increased Heat Stress	For Thermal & Mechanical Stress
Pencil Hardness (Solvent Resistance)	3H	3H	5H
Edgewise Bend	3 x Width-Ok	3 x Width-Ok	3 x Width-Ok
Breakdown Voltage at Elevated Temperature	75%	75%	75%
Heat Shock of Bent Strip	4 x Width at 180°C	4 x Width at 200°C	4 x Width at 220°C

\*\*Please refer Following Enamelled conductor Nominal Preferred Sizes

		Preferred Nominal Sizes																									
		Thickness																									
		1.12	1.25	1.40	1.50	1.60	1.70	1.80	1.90	2.00	2.12	2.24	2.36	2.50	2.65	2.80	3.00	3.15	3.55	3.75	4.00	4.50	5.00	5.60			
		mm	in	0.044	0.049	0.055	0.059	0.063	0.067	0.071	0.075	0.079	0.084	0.088	0.093	0.099	0.104	0.110	0.118	0.124	0.140	0.148	0.158	0.177	0.197	0.221	
Width	mm	in																									
	2.00	0.08																									
	2.24	0.09																									
	2.50	0.10																									
	3.15	0.12																									
	3.55	0.14																									
	4.00	0.16																									
	4.50	0.18																									
	5.00	0.20																									
	5.60	0.22																									
	6.30	0.25																									
	7.10	0.28																									
	8.00	0.32																									
	9.00	0.35																									
	10.00	0.39																									
	11.20	0.44																									
11.80	0.46																										
12.50	0.49																										
13.20	0.52																										
14.00	0.55																										
15.00	0.59																										
16.00	0.63																										
18.00	0.71																										
20.00	0.79																										
		R = 0.5 mm (0.0197 in)						R = 0.65 mm (0.0256 in)						R = 0.80 mm (0.0315 in)				R = 1.0 mm (0.0394 in)									

## Packaging Details

Sr. No.	Flange Diameter D1 (mm)	Traverse Width B2 (mm)	Barrel Thickness D2 (mm)	Flange Thickness T (mm)	Overall Width B1 (mm)	Bore Diameter D3 (mm)	Capacity in Kgs
1	460 ± 10	230 ± 5	270 ± 5	20 ± 3	270	45 -0/+1	90
2	510 ± 10	250 ± 5	270 ± 5	22 ± 3	294	45 -0/+1	160
3	560 ± 10	250 ± 5	270 ± 5	22 ± 3	294	45 -0/+1	190
4	760 ± 10	330 ± 5	560 ± 5	30 ± 3	360	45 -0/+1	260

\*\* Drum sizes shown are as per KSH standard. Other sizes as per requirement can be provided.

