



Enamelled Rectangular Copper Winding Wire

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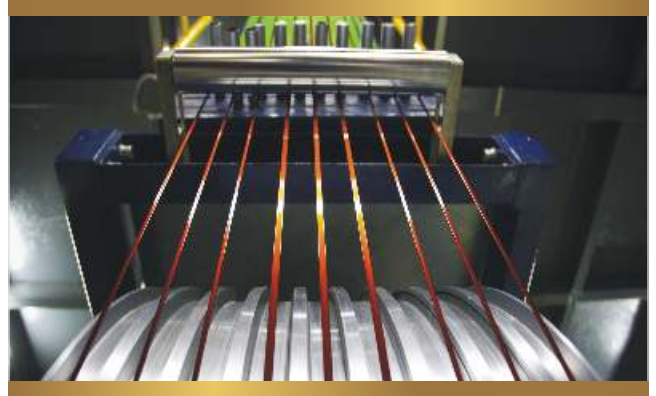


Typical Applications

- ✕ 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 0.17mm

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 ²	80 mm ²

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)	H	H	H
Edgewise Bend	Up to 10 mm - 4 x Width		Over 10 mm - 5 x Width
Breakdown Voltage at Elevated Temperature	75%	75%	75%
Heat Shock of Bent Strip	6 x Thickness at 180°C	6 x Thickness at 200°C	6 x Thickness at 220°C

**Please refer Following Enamelled conductor Nominal Preferred Sizes

		Preferred Nominal Sizes																												
		Thickness																												
		0.9	1	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	2.66	2.80	3.00	3.15	3.55	3.75	4.00	4.50	5.00	5.60				
		mm	in	0.035	0.039	0.044	0.049	0.055	0.059	0.063	0.067	0.071	0.075	0.079	0.084	0.088	0.093	0.098	0.105	0.110	0.118	0.124	0.140	0.148	0.157	0.177	0.197	0.220		
Width	mm	in																												
	2.00	0.79																												
	2.24	0.88																												
	2.50	0.98																												
	3.15	0.124																												
	3.55	0.140																												
	4.00	0.157																												
	4.50	0.177																												
	5.00	0.197																												
	5.60	0.220																												
	6.30	0.248																												
	7.10	0.280																												
	8.00	0.315																												
	9.00	0.354																												
	10.00	0.394																												
	11.20	0.441																												
	11.80	0.465																												
12.50	0.492																													
13.20	0.520																													
14.00	0.551																													
15.00	0.591																													
16.00	0.630																													
18.00	0.709																													
20.00	0.787																													
		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 Diameter 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	390	45 -0/+1	260

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

