

ENAMELLED COPPER WIRES

KIN COPPER ELECTRIC

**GAUGE****GAUGE 220/ESSEX (EI/AI)**

Polyester Imide-Polyamide Imide (EI/AI) Coated

Enamelled Copper Wire, Class H 200°C JIS C3053

No.	Stock Code	SWG	MM	Packing	Price/Kg (RM)
1	SGJAEI2000	14	2.00	PT25	
2	SGJAEI1900	14 ½	1.90	PT25	
3	SGJAEI1800	15	1.80	PT25	
4	SAIEI1700 SGJAEI1700	15 ½	1.70	PT25	
5	SAIEI1600 SGJAEI1600	16	1.60	PT25	
6	SAIEI1500 SGJAEI1500	16 ½	1.50	PT25	
7	SAIEI1450 SGJAEI1450	16 ½	1.45	PT25	
8	SAIEI1400 SGJAEI1400	17	1.40	PT25	
9	SAIEI1300 SGJAEI1300	17 ½	1.30	PT25	
10	SAIEI1250 SGJAEI1250	18	1.25	PT25	
11	SAIEI1200 SGJAEI1200	18	1.20	PT25	
12	SAIEI1150 SGJAEI1150	18 ½	1.15	PT25	
13	SAIEI1100 SGJAEI1100	18 ½	1.10	PT25	
14	SAIEI1050 SGJAEI1050	19	1.05	PT25	
15	SAIEI1000 SGJAEI1000	19	1.00	PT25	
16	SAIEI0950 SGJAEI0950	19 ½	0.95	PT25	
17	SAIEI0900 SGJAEI0900	20	0.90	PT25	
18	SAIEI0850 SGJAEI0850	20 ½	0.85	PT25	
19	SAIEI0800 SGJAEI0800	21	0.80	PT25	
20	SAIEI0750 SGJAEI0750	21 ½	0.75	PT25	
21	SAIEI0700 SGJAEI0700	22	0.70	PT25	
22	SAIEI0670	22 ½	0.67	PT25	
23	SAIEI0650 SGJAEI0650	22 ½	0.65	PT25	
24	SAIEI0600 SGJAEI0600	23	0.60	PT25	
25	SAIEI0550 SGJAEI0550	24	0.55	PT25	
26	SAIEI0500 SGJAEI0500	25	0.50	PT25	
27	SAIEI0450	26	0.45	PT25	
28	SAIEI0400	27	0.40	PT25	
29	SAIEI0370	28	0.37	PT25	
30	SAIEI0350	29	0.35	PT25	
31	SAIEI0320	30	0.32	PT25	
32	SAIEI0300	30 ½	0.30	PT25	
33	SAIEI0290	31	0.29	PT25	
34	SAIEI0270	32	0.27	PT25	
35	SAIEI0250	33	0.25	PT25	
36	SAIEI0230	34	0.23	PT25	
37	SAIEI0210	35	0.21	PT25	
38	SAIEI0200	35 ½	0.20	PT25	
39	SAIEI0190	36	0.19	PT25	
40	SAIEI0170	37	0.17	PT25	
41	SAIEI0150	38	0.15	PT25	

* This type of enamelled wire exhibits good solvent & abrasion resistance as well as high tolerance of overload.

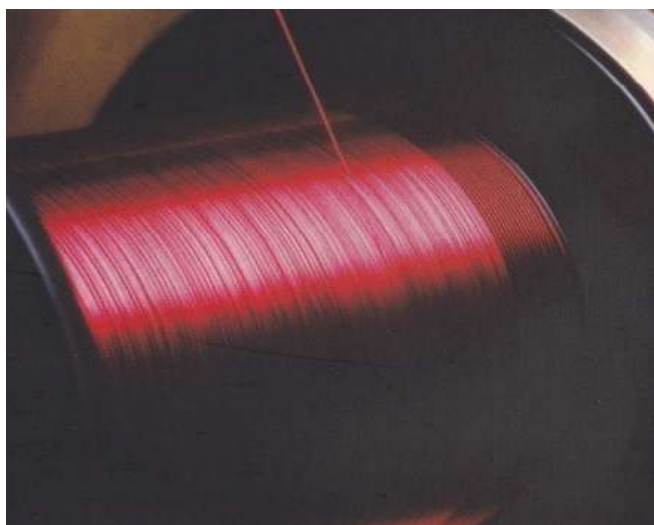
* Applications: HVT coil for transformer, motor for automobile, electric devices, transformers, motors used in Freon gas.

* Disclaimer: GAUGE JIS is a brand owned by Kin Copper Electric, manufactured on OEM basis by readily established magnet wire manufacturer according to requirements as stipulated in the JIS Standard.



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PRODUCT CHARACTERISTICS

The GAUGE 200 wire is coated with a dual film of insulation. The underlying film is composed primarily of a synthetic resin based on THEIC-Polyester or Modified Polyester which is heat resistant and the superimposed film is composed primarily of Polyamide-imide which is abrasion resistant.

The insulating film of the wire is made by baking insulating varnish on the conductor uniformly. The film is harmless to the conductor and also have sufficient durability.

Other characteristics of the GAUGE 200 wire are as shown below:

STANDARDS	IEC 60317-13 NEMA MW 73-C, MW 35-C JIS C3053
Symbol	EIAIW
Insulation Coating	Polyesterimide with Polyamide-Imide Overcoat
Mechanical Properties*	*properties stated are for sample at size 1.00mm
Elongation	>25%
Adherence - Flexibility	Film free from cracks such as expose the conductor
Resistance to Abrasion	>7.0N
Electrical Properties	
Braskdown Voltage	10KV
Thermal Properties	
Temperature Index	200°C
Cut Through	Min 300°C
Heat Shock	Film free from cracks such as to expose the conductor
Chemical Propertie	
Solvent Test	Film free from blister and peeling off by 2H pencil lead or finger nail
Resistance to Refrigerants	HFC134 - 404 - 407 FREON R12 R22 R134-a

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MAGNET WIRE PROCESS FLOWCHART



Spool
Incoming
Inspection

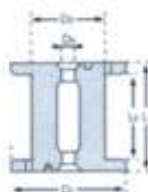
Varnish
Incoming
Inspection

Copper
Incoming
Inspection



PACKAGING AND DELIVERY

The standard packing of GAUGE 200 wire is in Cylindrical Spools according to the DIN 46399 and IEC 264-2 Standards.



TYPE OF REEL	WIRE RANGE (mm)	AVERAGE CONTENT (kg)	DIMENSIONS (mm)				
			Flange (D1)	Barrel (D2)	Bore (D3)	Width (L1)	Traverse (L2)
200	0.16-0.56	11	200	125	22	200	160
250	0.63-1.90	25	250	160	22	250	160
355	2.00-5.00	40	355	224	30	250	160
500	3.00-9.00	100	500	315	30	250	160

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GAUGE

GAUGE IEC

Polyester-Polyamide Imide (EI/AI) Coated Enamelled Copper Wire
Class H 200°C IEC 60317-13, NEMA MW 73-C, MW 35-C

No.	Stock Code	SWG	MM	Packing	Price/Kg (RM)
1	SGAIEI4000	8	4.00	D355	
2	SGAIEI3750	8 ½	3.75	D355	
3	SGAIEI3650	8 ½	3.65	D355	
4	SGAIEI3550	9	3.55	D355	
5	SGAIEI3350	9 ½	3.35	D355	
6	SGAIEI3250	9 ½	3.25	D355	
7	SGAIEI3150	10	3.15	D355	
8	SGAIEI3000	10 ½	3.00	D355	
9	SGAIEI2900	11	2.90	D355	
10	SGAIEI2800	11 ½	2.80	D355	
11	SGAIEI2650	12	2.65	D355	
12	SGAIEI2500	12 ½	2.50	D355	
13	SGAIEI2360	13	2.36	D355	
14	SGAIEI2120	13 ½	2.12	D355	
15	SGAIEI2000	14	2.00	D250	
16	SGAIEI1900	14 ½	1.90	D250	
17	SGAIEI1800	15	1.80	D250	
18	SGAIEI1700	15 ½	1.70	D250	
19	SGAIEI1600	16	1.60	D250	
20	SGAIEI1500	16 ½	1.50	D250	
21	SGAIEI1450	16 ½	1.45	D250	
22	SGAIEI1400	17	1.40	D250	
23	SGAIEI1320	17 ½	1.32	D250	
24	SGAIEI1300	17 ½	1.30	D250	
25	SGAIEI1250	18	1.25	D250	
26	SGAIEI1200	18	1.20	D250	
27	SGAIEI1180	18 ½	1.18	D250	
28	SGAIEI1120	18 ½	1.12	D250	
29	SGAIEI1100	18 ½	1.10	D250	
30	SGAIEI1060	19	1.06	D250	
31	SGAIEI1050	19	1.05	D250	
32	SGAIEI1000	19	1.00	D250	
33	SGAIEI0950	19 ½	0.95	D250	
34	SGAIEI0900	20	0.90	D250	
35	SGAIEI0850	20 ½	0.85	D250	
36	SGAIEI0800	21	0.80	D250	
37	SGAIEI0750	21 ½	0.75	D250	
38	SGAIEI0710	22	0.71	D250	
39	SGAIEI0700	22	0.70	D250	
40	SGAIEI0670	22 ½	0.67	D250	
41	SGAIEI0650	22 ½	0.65	D250	
42	SGAIEI0630	22 ½	0.63	D250	
43	SGAIEI0600	23	0.60	D250	
44	SGAIEI0560	24	0.56	D200	
45	SGAIEI0550	24	0.55	D200	
46	SGAIEI0500	25	0.50	D200	

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