

COPPER STRIPS / TAPES

KIN COPPER ELECTRIC



PM / METROD COPPER COPPER STRIPS

Soft Rectangular Copper Strips/Tape as per
BS EN 13601:2013 (Supersedes BS 1432:1987)



No.	Stock Code	Size (mm)	Packing (kg/reel)	Price/Kg (RM)
1	MET01601900	1.60MM X 19.00MM (1/16" X 3/4")	± 60KGS	
2	MET01602500	1.60MM X 25.00MM (1/16" X 1")	± 60KGS	
3	MET03002500	3.00MM X 25.00MM (1/8" X 1")	± 60KGS	
4	MET05004000	5.00MM X 40.00MM (3/16" X 1 1/2")	± 60KGS	
5	MET05005000	5.00MM X 50.00MM (3/16" X 2")	± 60KGS	
6	MET06002500	6.00MM X 25.00MM (1/4" X 1")	± 60KGS	
7	MET06005000	6.00MM X 50.00MM (1/4" X 2")	± 60KGS	

* Copper Strips or Tape is a highly conductive material, mainly used as part of a lightning safety device in earthing electrical charges from lightning.

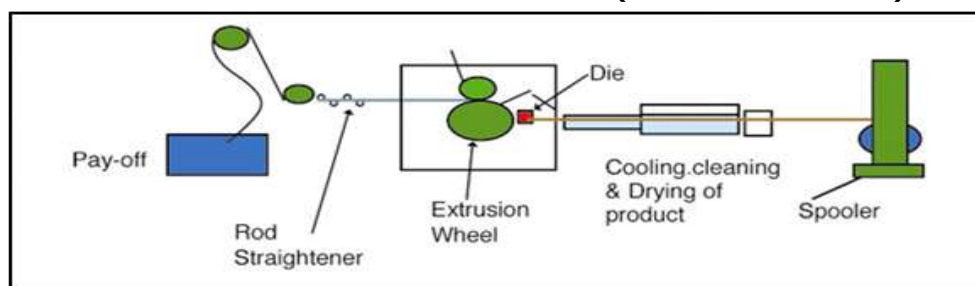
* Disclaimer: GAUGE Copper Strips is a brand owned by Kin Copper Electric, manufactured on OEM basis by readily established magnet wire manufacturer according to requirements as stipulated in BS EN 13601:2002 Standard.



COMMON SIZES INFORMATION CHART

Description	Sizes (Different Combinations of Thickness and Width)						
Nominal Thickness (mm)	1.6	1.6	1.6	3.0	4.0	6.0	6.0
Nominal Width (mm)	13.0	19.0	25.0	25.0	50.0	25.0	50.0
Thickness Tolerance (mm)	0.03	0.03	0.03	0.03	0.05	0.05	0.05
Width Tolerance (mm)	0.10	0.10	0.10	0.10	0.14	0.10	0.14
Corner radius (mm)	0.5	0.5	0.5	0.8	1.0	1.0	1.0
Nominal area (mm ²)	20.80	30.40	40.00	75.00	200.00	150.00	300.00
Minimum area (mm ²)	20.25	29.67	39.09	73.95	196.95	148.16	296.67
Maximum area (mm ²)	21.35	31.13	40.91	76.05	203.07	151.86	303.35
Nominal Weight / Meter	0.18	0.27	0.36	0.66	1.78	1.33	2.67
Minimum Weight / Meter	0.18	0.26	0.35	0.66	1.75	1.32	2.64
Maximum Weight / Meter	0.19	0.28	0.36	0.67	1.81	1.35	2.70
Nominal Length / 1 Kg	5.44	3.71	2.81	1.50	0.56	0.75	0.37
Minimum Length / 1 Kg	5.59	3.80	2.88	1.53	0.57	0.76	0.38
Maximum Length / 1 Kg	5.30	3.62	2.75	1.48	0.55	0.74	0.37

COPPER STRIP MANUFACTURING PROCESS ("CONFORM PROCESS")



- * When frictional energy is applied to a ductile metal like copper, its temperature increases to form a plastic mass which can be continuously extruded out of die into the desired shape.
- * Soft copper rod is fed to a rotating wheel and shoes assembly housing the extrusion die.
- * The extreme pressures created with this arrangement leads to rise in temperature of the mass of copper in the die chamber to the plastic working range.
- * This leads to continuous hot extrusion of a copper shape according to the die geometry.
- * The emerging hot copper shape is then quenched, dried and spooled.



Copper Strips

Copper strips are mainly used in the electrical industry due to their high electrical and thermal conductivity. Its ability to conduct electricity makes it a vital component of any earthing equipment or structural lightning protection system, allowing it to effectively shield homes, buildings or isolated structures from lightning strikes.

Our brand of copper strips, PM Copper, are manufactured by the continuous extrusion process using LME Grade A Copper Cathodes with a minimum copper content of 99.99% in accordance with IEC 62561-2 standards.

Standard	IEC 62561-2
Copper Composition	99.99% (Min)
Size Tolerance	Thickness - +/- 0.03mm, Width - +/-0.07mm
Condition	Soft
Electric Conductivity	100 % Minimum
Resistivity	0.017241 mΩ.mm2/m (Max)
Elongation	35% Minimum
Surface Condition	Clean, smooth and bright
Coil Weight	Standard packing of 55kg per coil and also weights according to customer requirement
Packaging	1 Ton packed & stacked on wooden pallets securely covered with anti-corrosive wrapping paper & plastic



Copper Busbars

Busbars are mainly used in electric panels. The application however falls within various categories. Our prime focus has always remained on quality and delivery schedules.

We serve our customers for their customised requirements in sizing, accuracy and quality requirements for their intended applications, while making them available based on their required delivery schedules and batch sizes, either bare copper or tin coated copper bus bars.

Copper Busbar Specification

Standard	C10200 CW005A (ASTM / TS)
Material	Cu-OF
Copper content	Cu + Ag - 99.95 % (Minimum), Pb, Sb, Oxy. & Ti: <0.0010
Tolerance on dimensions & Corner radius	As per BS EN 13601:2018. Corner radii, however can be customized to the customer's requirements. (Full Round edges can be provided in case required by the customer)
Conductivity (IACS% 20°C)	100 % Minimum
Vol. Resistivity n mm2/m	100 % Minimum
Hardness In HV	Soft - 35 to 65 Half Hard - 70 to 95 Full Hard - 90 to 115
Elongation at breaking in %	Soft - 38 to 42 Half Hard - 15 to 12 Full Hard - 7 to 5
Tensile strength in in N/Sq.mm	Soft - 200 to 225 Half Hard - 245 to 355 Full Hard - 275 to 400
Surface condition	Clean, smooth and bright
Packaging	Sea Worthy packing in length of 6 meters as standard

Common sizes of 6 Meters long (Width and Thickness as specified by the customers from the ranges specified here)		
Width (MM)	Thick(MM)	Condition
10-20	2-5	Half Hard/ Hard
20-40	3-6	Half Hard/ Hard
40-70	3-6	Half Hard/ Hard
70 -90	3-8	Half Hard/ Hard
90-130	6-10	Half Hard/ Hard
130-160	6-10	Half Hard/ Hard

CERTIFICATE

Management system as per
ISO 9001 : 2015

The Certification Body TÜV NORD CERT GmbH hereby confirms as a result of the audit, assessment and certification decision according to ISO/IEC 17021-1:2015, that the organization

PM Copper Wire & Cables Sdn Bhd
201301014701 (1044540-D)
No. 15, Jalan Bestari 2A/KU7,
Taman Perindustrian Kapar,
42200 Klang, Selangor,
Malaysia



operates a management system in accordance with the requirements of ISO 9001 : 2015 and will be assessed for conformity within the 3 year term of validity of the certificate.

Scope

Manufacturing and Supply of Copper Busbar, Wires, Rods, Strips and Tapes

Certificate Registration No. 44 100 24 92 0009
Audit Report No. SEATH-Q902785/2024

Valid from 2024-04-20
Valid until 2027-04-19
Initial Certification 2024


Certification Body
at TÜV NORD CERT GmbH

TÜV NORD (Thailand) Ltd.
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Debaratna Road, Bangna Tai,
Bangna, Bangkok 10260, Thailand
2024-04-20

TÜV NORD CERT GmbH

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