

COPPER STRIPS / TAPES



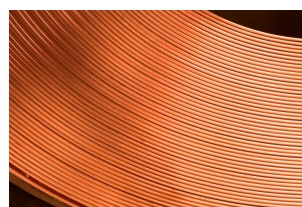
METROD / PM COPPER COPPER STRIPS
Soft Rectangular Copper Strips/Tape as per
BS EN 13601:2013 (Supersedes BS 1432:1987)



No.	Stock Code	Size (mm)	Packing (kg/reel)	Price/Kg (RM)
1	MET01601900	1.60MM X 19.00MM ($\frac{1}{16}$ " X $\frac{3}{4}$ ")	± 60KGS	
2	MET01602500	1.60MM X 25.00MM ($\frac{1}{16}$ " X 1")	± 60KGS	
3	MET03002500	3.00MM X 25.00MM ($\frac{1}{8}$ " X 1")	± 60KGS	
4	MET05004000	5.00MM X 40.00MM ($\frac{3}{16}$ " X 1½")	± 60KGS	
5	MET05005000	5.00MM X 50.00MM ($\frac{3}{16}$ " X 2")	± 60KGS	
6	MET06002500	6.00MM X 25.00MM ($\frac{1}{4}$ " X 1")	± 60KGS	
7	MET06005000	6.00MM X 50.00MM ($\frac{1}{4}$ " 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.

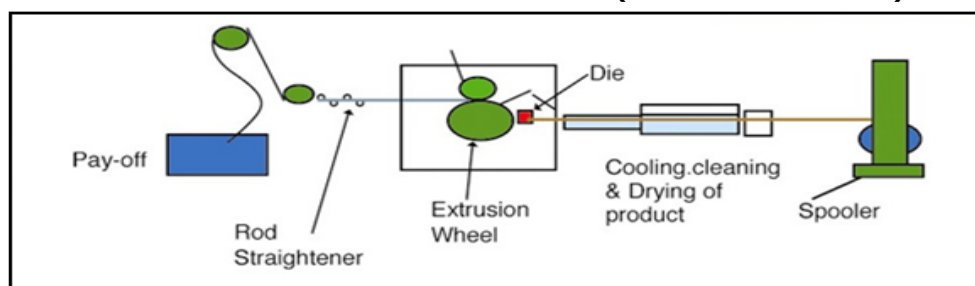
* Disclaimer: GAUGE Copper Strips is a brand owned by Kin Copper Electric, manufactured on OEM basis by readily established magnet wire manufacturer according to requirements as stipulated in BS EN 13601:2002 Standard.



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.

A photograph of the Metrod building and its entrance. The building is a modern structure with a large glass facade and a prominent glass pyramid roof. In the foreground, there is a green metal gate with the Metrod logo on it. To the left of the gate is a grey stone wall with the Metrod logo and name. The area is surrounded by lush greenery, including palm trees and flowering bushes. An orange rectangular box is overlaid on the left side of the image, containing the text 'About Metrod' in white.

About Metrod

Metrod is a leading manufacturer of Copper rod, wire, strip, profile & insulated conductors. Metrod started its operation in 1981 which was promoted by visionary industrialist, the Late Lord Bagri, Ex-Chairman of London Metal Exchange and Metdist group of companies. Metrod was listed on the main market of Bursa Malaysia in 1996.



Since its inception in 1981, as an independent copper fabrication plant, it has been a successful journey for Metrod. Today it has emerged as a leading global supplier with customers located across the world. During this journey it has built an enviable reputation of providing excellent quality products & reliable service, and building partnerships that extend beyond decades.

Earthing Strip

Attributes	Specified values
Copper Grade	C10200(ASTM)/C1020(JIS)
Copper content	99.95 % Minimum
Common sizes	25.0 x 3.0 mm, 50.0 x 6.0 mm & 25 X 1.6 mm
Condition	Soft
Tolerance on dimensions & Corner radius	As per BS EN 13601:2013 or equivalent
Electrical conductivity (IACS @ 20° C)	100 % Minimum
Elongation at fracture (50 mm gauge length)	35 % Minimum
Surface condition	Clean, smooth and bright
Brand / Stamping on surface	Metrod
Packaging	In pancake form, duly stretch filmed and palletised on wooden pallet
Coil weight	45 - 70 kgs/ pancake and 1 MT per pallet
Special requirements / other sizes	As per mutual agreement

Metrod Holdings Berhad

3, Lengkok Keluli 2, Bukit Raja Prime Industrial Park, 41720 Klang, Selangor Darul Ehsan, Malaysia.
Tel : 603 - 3361 3422 | Fax : 603 - 3341 5318 | email : marketing@metrod.com | website : www.metrod.com

Lightning Protection



Metrod's continuously extruded bare copper tape is the brand of choice by the electrical installers & contractors as an earthing conductor for lightning protection of building & electrical substations.



High conductivity of high purity copper from Metrod provides the security & safety to every homeowner in case the lightning strikes.

ISO 9001 Certificate

The Company was awarded ISO certification by Lloyd's Register Quality Assurance for the Quality Management System to the standards **ISO 9001:2015**. The Quality Management System is applicable to Manufacture and Marketing of Copper Products for Electrical Applications.

Lloyd's Register

Certificate of Approval

This is to certify that the Management System of
Metrod (Malaysia) Sdn. Bhd. (66954-H)
 Lot 3, Lengkok Keluli 2, Bukit Raja Industrial Estate, 41720 Klang, Selangor, Malaysia

has been approved by LRQA to the following standards:
 ISO 9001:2015

Basem Obaid
 Basem Obaid - Global Head of Training and Improvement Services
 Issued by: Lloyd's Register of Shipping (M) Bhd
 for and on behalf of: Lloyd's Register Quality Assurance Limited

This certificate is valid only in association with the certificate schedule bearing the same number on which the locations applicable to this approval are listed.

Current issue date: 30 January 2019
 Expiry date: 13 February 2022
 Certificate identity number: 10169223

Original approval(s):
 ISO 9001 - 14 February 2001

Approval number(s): ISO 9001 - 0050065

The scope of this approval is applicable to:
 Manufacture and marketing of copper products for electrical applications.

UKAS
 MANAGEMENT SYSTEMS
 001

Lloyd's Register

Certificate Schedule

Certificate identity number: 10169223

Location	Activities
Lot 3, Lengkok Keluli 2, Bukit Raja Industrial Estate, 41720 Klang, Selangor, Malaysia	ISO 9001:2015 Manufacture and marketing of copper products for electrical applications.
Metrod (OFHC) Sdn. Bhd. (198472-W) Lot 3, Lengkok Keluli 2, Bukit Raja Industrial Estate, 41720 Klang, Selangor, Malaysia	ISO 9001:2015 Manufacture and marketing of copper products for electrical applications.
Metrod Copper Products Sdn. Bhd. (747439-X) Lot 2, Solok Waja Satu, Bukit Raja Industrial Estate, 41720 Klang, Selangor, Malaysia	ISO 9001:2015 Manufacture and marketing of copper products for electrical applications.

UKAS
 MANAGEMENT SYSTEMS
 001

Registration Certificate

This is to certify that the Management Systems of
Metrod (OFHC) Sdn. Bhd.
Metrod Copper Products Sdn Bhd

have been assessed by AJA Registrars Ltd and registered against the requirements of
ISO 14001:2015

Certificate No.: AJA11/AN1511
 Date of Original Registration: 15th April 2011
 Expiry Date: 14th April 2020
 Date of Re-Registration: 14th April 2017

Rajiv K. Jha
 Chief Executive - AJA Registrars Ltd

ANAB
 ACCREDITED
 MANAGEMENT SYSTEMS

IAF
 REGISTRARS ASSOCIATION

AJA
 REGISTRARS

This certificate is issued in respect of the locations & scope of registration detailed in the Associated Registration Schedule.
 This certificate is the property of AJA Registrars Ltd and must be returned on request. A member of the AJA Group of Companies.

Registration Certificate

This is to certify that the Management System of
METROD (MALAYSIA) SDN BHD
METROD (OFHC) SDN BHD
METROD COPPER PRODUCTS SDN BHD

have been assessed by AGM Certification Sdn Bhd and registered against the requirements of
OHSAS 18001:2007

Certificate No.: AGM11/10007
 Date of Original Registration: 21/03/2011
 Date of Expiry: 21/03/2020
 Date of Re-Registration: 14/04/2017

Chinta Srinivas
 PRESIDENT, AGM CERTIFICATION

AGM
 CERTIFIED

This certificate is issued in respect of the locations & scope of registration.
 This certificate is the property of AGM Certification Sdn Bhd and must be returned on request to AGM Certification Sdn Bhd at Suite 11.0, Level 11, Top Glove Tower, No. 16, Persiaran Setia Dagang, Setia Alam, Seksyen 11.5, 40170 Shah Alam, Selangor Darul Ehsan, Malaysia.

Metrod Holdings Berhad

3, Lengkok Keluli 2, Bukit Raja Prime Industrial Park, 41720 Klang, Selangor Darul Ehsan, Malaysia.

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