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## About us

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We would like to take this opportunity to introduce our company Matrix Incorporation is a totally global electrical integrated power advanced technology specialty components & systems manufacturers company that's producing a reliable, secure and efficient power equipments.

*Matrix Inc.* is one of the leading manufacturers and exporters of heavy electrical hardware accessories, Earthing-Grounding systems, Lightning protection systems, Cable Trays, solar power, Cable Lugs, Fasteners, HT LT Electrical Components, Made from high-quality Copper, Brass, Stainless steel, silicon bronze, Galvanized steel, phosphor bronze & Aluminium, these accessories come in various size to suit the application and withstand environment impact.

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## Highlights

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- **Manufacturing**
- **Installations**
- **Supply**
- **Testing**
- **Consulting**
- **Engineering**
- **Contracting**

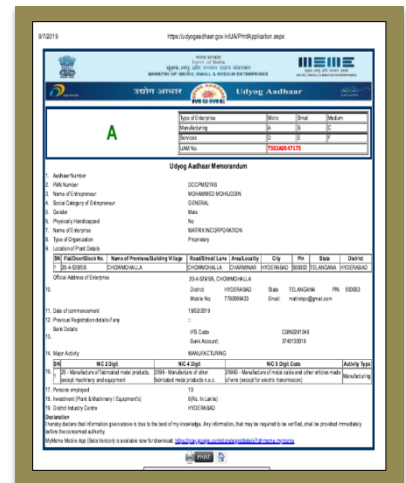
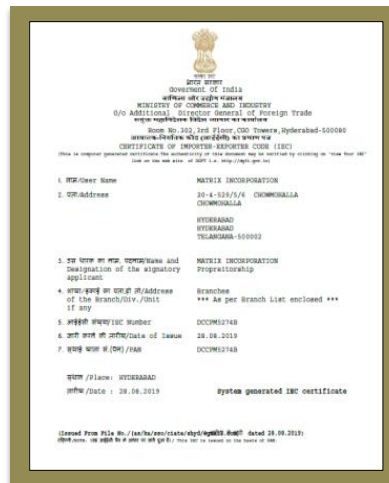
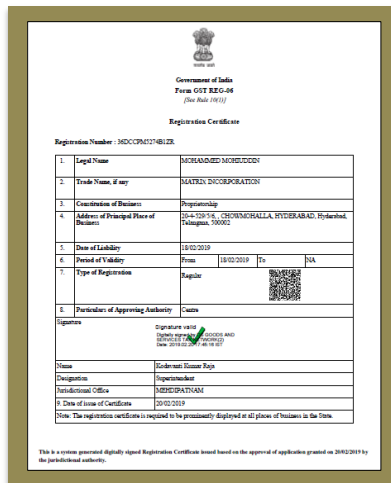
- A young and new-age Engineering company founded by Engineers and Technocrats
- Intense customer-focus and dedicated to customer satisfaction.
- Innovative, high-quality and reliable products.
- Indigenous Design and R&D teams, an indigenous assembly line, test labs
- A sophisticated Quality Management process
- Competitively priced and technically sound products
- Follow eco-sensitive procedures for manufacture, waste recycling, packaging etc.

## Company Profile

**Matrix Incorporation**, established our presence in 2014 as ISO 9001:2015 certified manufacturer, supplier and exporter of a comprehensive range of heavy electrical hardware accessories, Earthing-Grounding systems, Lightning protection systems, Cable Trays, solar power, Cable Lugs, Fasteners, HT LT Electrical Components, Made from high-quality Copper, Brass, Stainless steel, silicon bronze, Galvanized steel, phosphor bronze & Aluminium. These products are highly regarded for their durability, optimum finish and excellent resistance properties and are highly demanded in the market. In addition, we also offer lab testing, plating, branding, assembly, customization and supply chain management services as per the varied needs of the customers. Our services are highly reliable and are rendered within the predetermined time frame.

We have established with infrastructure It is equipped with advanced machinery and amenities that help us to function in a smooth manner. Our infrastructure is segregated into multiple divisions in order to gain maximum operational efficiency. These divisions are production, administration, quality assurance, services and logistics departments. All these units function in a harmonized manner in order to achieve the organizational objectives in a timely manner. Our facilities are efficiently managed by our team of dynamic professionals. These individuals have been chosen for their expertise and attitude and are proficient in their respective roles and responsibilities. We export our products globally.

## Company Licenses & Registrations





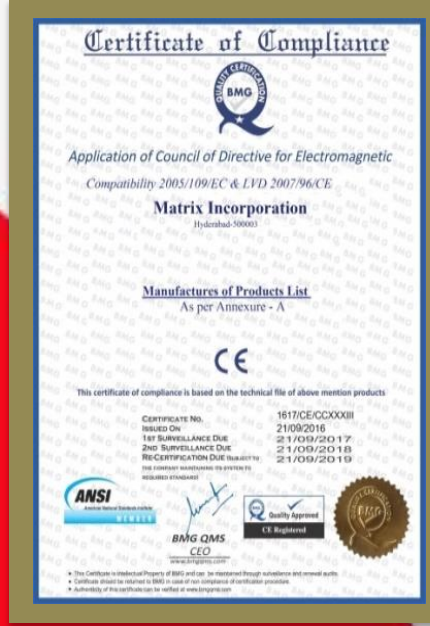
**Certificate**  
 This is to certify that  
 The Quality Management System of  
**Matrix Incorporation**  
 Hyderabad-500003

has been assessed and found to be in compliance  
 with the requirements of the standard  
**ISO 9001:2015**  
 for the following scope :  
 MANUFACTURER OF ACTIVE CARBON &  
 CHEMICAL EARTHING & LIGHTNING SYSTEMS

CERTIFICATE No. : 1817/QMS/LXXXX  
 ISSUED ON : 11/08/2018  
 VALIDITY DATE : 17/08/2021

ANSI Quality Management SYSTEMS  
 BMG QMS CEO  
 Quality Approved  
 CE Registered

- This Certificate is Intellectual Property of BMG and can be misused through surveillance and renewal audits.
- Certificate should be returned to BMG in case of non-compliance of certification provisions.
- Authenticity of this certificate can be verified at [www.bmgqms.com](http://www.bmgqms.com)



**Certificate of Compliance**

Application of Council of Directive for Electromagnetic  
 Compatibility 2005/109/EC & LVD 2007/96/CE

**Matrix Incorporation**  
 Hyderabad-500003

**Manufactures of Products List**  
 As per Annexure - A

**CE**

This certificate of compliance is based on the technical file of above mention products

CERTIFICATE No. : 1817/CE/CCXXXX  
 ISSUED ON : 21/09/2018  
 1st SURVEILLANCE DUE : 21/09/2019  
 2nd SURVEILLANCE DUE : 21/09/2020  
 RECERTIFICATION DUE (subject to  
 THE COMPANY MAINTAINING ITS PREVIOUS  
 RECORDS UNCHANGED) : 21/09/2021

ANSI Quality Management SYSTEMS  
 BMG QMS CEO  
 Quality Approved  
 CE Registered

- This Certificate is Intellectual Property of BMG and can be misused through surveillance and renewal audits.
- Certificate should be returned to BMG in case of non-compliance of certification provisions.
- Authenticity of this certificate can be verified at [www.bmgqms.com](http://www.bmgqms.com)



**Certificate of Compliance**

Annexure - I Certificate No- 1817/CI/COXXXX

**Matrix Incorporation**  
**CE**

This Certificate referred to above covers the following products like :

Active Carbon  
 Earthing & Lightning Systems

This certificate of compliance is based on the technical file of above mention products

CERTIFICATE No. : 1817/CE/CCXXXX  
 ISSUED ON : 21/09/2018  
 1st SURVEILLANCE DUE : 21/09/2019  
 2nd SURVEILLANCE DUE : 21/09/2020  
 RECERTIFICATION DUE (subject to  
 THE COMPANY MAINTAINING ITS PREVIOUS  
 RECORDS UNCHANGED) : 21/09/2021

ANSI Quality Management SYSTEMS  
 BMG QMS CEO  
 Quality Approved  
 CE Registered

- This Certificate is Intellectual Property of BMG and can be misused through surveillance and renewal audits.
- Certificate should be returned to BMG in case of non-compliance of certification provisions.
- Authenticity of this certificate can be verified at [www.bmgqms.com](http://www.bmgqms.com)



**Certificate of Conformity**  
 We hereby declare that the technical file of  
**Matrix Incorporation**  
 Hyderabad-500003

has been assessed for & found to be in conformance with the provisions set forth by  
**RoHS Directive (2011/66/EC)**  
 on use certain Hazardous Substances in Electrical and Electronic Equipments  
 Active Carbon & Earthing & Lightning Systems

This is to state that the above mentioned products in conformance with RoHS Directive (2011/66/EC) of the European Parliament and Commission Decision 2005/618/EC on the restriction of the use of certain Hazardous Substances (lead, mercury, poly-chlorinated biphenyls (PCBs), polychlorinated dibenzodioxins (PCDDs), polychlorinated dibenzofurans (PCDFs) and Poly-Brominated Diphenyl Ether (PBDEs) in Electrical and Electronic Equipments. This certificate is issued under the condition that the quality system implemented in the manufacture of above mentioned RoHS Products & related value and the manufacturing conformity of the quality systems are changed subject to continuous surveillance according to the EC Guidelines.

Certificate No. : ROHS/509  
 Issue Date : 16/09/2018  
 1<sup>st</sup> Surveillance on or before : 15/09/2019  
 2<sup>nd</sup> Surveillance on or before : 15/09/2020

ANSI Quality Management SYSTEMS  
 BMG QMS CEO  
 RoHS compliant  
 Quality Approved  
 CE Registered

- This Certificate is Intellectual Property of BMG and can be misused through surveillance and renewal audits.
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## Our Products Range

CATLALOGS	Catalog No.	Page No.
GROUNDING	1	1
LIGHTNING	2	
ELECTRICAL	3	
SOLAR	4	
CABLE TRAYS	6	
EXOTHERMIC	5	



**GROUNDING**



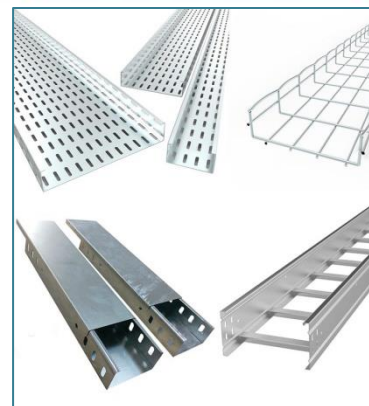
**LIGHTNING**



**ELECTRICAL**



**SOLAR**



**CABLE TRAYS**



**EXOTHERMIC**

# GROUNDINGS

GROUNDING

Catalog No.

1

# 1.

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# EARTHING SYSTEMS

## COPPER BONDED EARTH ROD Unthreaded



Copper Bonded Earth Rod Un-threaded pointed tip with coated pure molecularly bonding 99.9% electrolytic grades thickness min. 0.254mm coating Tensile Strength 552 mpa (min.) These rods made from high tensile low carbon steel with treaded high tensile strength low carbon steel earth rods.

- Dia 12.7-50mm available
- Copper Bonding 20-254 Microns
- Rod to cable clamp, rod to tape clamp, other clamps also suitable for connection.
- Suitable conductors like bare copper tape, galvanized steel tape, stainless steel tape and Aluminum tape.
- Highly corrosion resistance.
- High strength.
- Other sizes available as per client request.
- Permanent
- Long-lasting
- High conductivity

Part No. / Item Code	Rod	Rod	Units	Packing
	Dia	Length	Weight	No's of Rods
MCBU1212	12.7mm	1200mm	1.20 Kg	10
MCBU1215	12.7mm	1500mm	1.57 Kg	10
MCBU1218	12.7mm	1800mm	1.78 Kg	10
MCBU1220	12.7mm	2000mm	2.12 Kg	5
MCBU1224	12.7mm	2400mm	2.38 Kg	5
MCBU1230	12.7mm	3000mm	1.30 Kg	5
MCBU1412	14.2mm	1200mm	1.55 Kg	10
MCBU1415	14.2mm	1500mm	1.97 Kg	10
MCBU1418	14.2mm	1800mm	2.25 Kg	10
MCBU1420	14.2mm	2000mm	2.86 Kg	5
MCBU1424	14.2mm	2400mm	3.03 Kg	5
MCBU1430	14.2mm	3000mm	3.72 Kg	5
MCBU1512	15mm	1200mm	1.92 Kg	10
MCBU1515	15mm	1500mm	2.41 Kg	10
MCBU1520	15mm	2000mm	2.88 Kg	10
MCBU1518	15mm	1800mm	3.19 Kg	5
MCBU1524	15mm	2400mm	3.84 Kg	5
MCBU1530	15mm	3000mm	4.79 Kg	5
MCBU1612	16mm	1200mm	2.19 Kg	5
MCBU1615	16mm	1500mm	2.74 Kg	10
MCBU1618	16mm	1800mm	3.29 Kg	5
MCBU1620	16mm	2000mm	3.65 Kg	5
MCBU1524	16mm	2400mm	4.38 Kg	5
MCBU1530	16mm	3000mm	4.85 Kg	5
MCBU1712	17.2mm	1200mm	2.25 Kg	10
MCBU1715	17.2mm	1500mm	2.79 Kg	5
MCBU1718	17.2mm	1800mm	3.28 Kg	5
MCBU1720	17.2mm	2000mm	4.19 Kg	5
MCBU1724	17.2mm	2400mm	4.48 Kg	5
MCBU1730	17.2mm	3000mm	5.51 Kg	5
MCBU1912	19mm	1200mm	3.10 Kg	5
MCBU1915	19mm	1500mm	3.86 Kg	5
MCBU1918	19mm	1800mm	4.62 Kg	5
MCBU1924	19mm	2400mm	6.14 Kg	5
MCBU1930	19mm	3000mm	7.68 Kg	5
MCBU2012	20mm	1200mm	3.20 Kg	10
MCBU2015	20mm	1500mm	3.74 Kg	5
MCBU2018	20mm	1800mm	4.48 Kg	5
MCBU2020	20mm	2000mm	4.52 Kg	5
MCBU2024	20mm	2400mm	5.97 Kg	5
MCBU2030	20mm	3000mm	7.53 Kg	3
MCBU2512	25mm	1200mm	4.68 Kg	5
MCBU2515	25mm	1500mm	5.82 Kg	3
MCBU2518	25mm	1800mm	6.98 Kg	3
MCBU2520	25mm	2000mm	7.75 Kg	3
MCBU2524	25mm	2400mm	9.28 Kg	2

## COPPER BONDED EARTH ROD Threaded



Matrix Inc. offering wide ranges of earthing equipment our Copper Bonded Earth Rod with coated pure molecularly bonding 99.9% electrolytic grades thickness min. 0.254mm coating. These rods made from high tensile low carbon steel with treaded high tensile strength low carbon steel earth rods.

These copper bonded earth rods design externally threaded extensible as per required length of earth rods.

- Dia 12.7-50mm available
- Copper Bonding 20-254 Microns
- Suitable connection also bare cable or bare copper Tape, aluminum tape, stainless steel tape, copper bonded tape.
- Highly Corrosion Resistance.
- High Strength.
- Other sizes available as per client request.

Part No. / Item Code	Nominal Rod		Rod	Units	Packing
	Diameter		Length	Weight	No's of Rods
MCBE1212	1/2"	12.7mm	1200mm	1.18 Kg	5
MCBE1215	1/2"	12.7mm	1500mm	1.55 Kg	5
MCBE1218	1/2"	12.7mm	1800mm	1.76 Kg	5
MCBE1220	1/2"	12.7mm	2000mm	2.10 Kg	5
MCBE1224	1/2"	12.7mm	2400mm	2.36 Kg	5
MCBE1230	1/2"	12.7mm	3000mm	1.28 Kg	5
MCBE1412	5/8"	14.2mm	1200mm	1.53 Kg	5
MCBE1415	5/8"	14.2mm	1500mm	1.95 Kg	5
MCBE1418	5/8"	14.2mm	1800mm	2.23 Kg	5
MCBE1420	5/8"	14.2mm	2000mm	2.84 Kg	5
MCBE1424	5/8"	14.2mm	2400mm	3.01 Kg	5
MCBE1430	5/8"	14.2mm	3000mm	3.70 Kg	5
MCBE1512	5/8"	15mm	1200mm	1.90 Kg	5
MCBE1515	5/8"	15mm	1500mm	2.38 Kg	5
MCBE1518	5/8"	15mm	1800mm	2.85 Kg	5
MCBE1520	5/8"	15mm	2000mm	3.17 Kg	5
MCBE1524	5/8"	15mm	2400mm	3.80 Kg	5
MCBE1530	5/8"	15mm	3000mm	4.76 Kg	5
MCBE1612	5/8"	16mm	1200mm	2.16 Kg	5
MCBE1615	5/8"	16mm	1500mm	2.70 Kg	5
MCBE1618	5/8"	16mm	1800mm	3.25 Kg	5
MCBE1620	5/8"	16mm	2000mm	3.61 Kg	5
MCBE1624	5/8"	16mm	2400mm	4.33 Kg	5
MCBE1630	5/8"	16mm	3000mm	5.41 Kg	5
MCBE1712	3/4"	17.2mm	1200mm	2.20 Kg	5
MCBE1715	3/4"	17.2mm	1500mm	2.76 Kg	5
MCBE1718	3/4"	17.2mm	1800mm	3.26 Kg	5
MCBE1720	3/4"	17.2mm	2000mm	4.17 Kg	5
MCBE1724	3/4"	17.2mm	2400mm	4.45 Kg	5
MCBE1730	3/4"	17.2mm	3000mm	5.48 Kg	5
MCBE1912	3/4"	19mm	1200mm	3.05 Kg	5
MCBE1915	3/4"	19mm	1500mm	3.81 Kg	5
MCBE1918	3/4"	19mm	1800mm	4.58 Kg	5
MCBE1920	3/4"	19mm	2000mm	5.09 Kg	5
MCBE1924	3/4"	19mm	2400mm	6.11 Kg	3
MCBE1930	3/4"	19mm	3000mm	7.63 Kg	3
MCBE2012	1"	20mm	1200mm	3.00 Kg	5
MCBE2015	1"	20mm	1500mm	3.69 Kg	5
MCBE2018	1"	20mm	1800mm	4.43 Kg	3
MCBE2020	1"	20mm	2000mm	4.49 Kg	3
MCBE2024	1"	20mm	2400mm	5.91 Kg	3
MCBE2030	1"	20mm	3000mm	7.39 Kg	3
MCBE2512	1"	25mm	1200mm	4.62 Kg	5
MCBE2515	1"	25mm	1500mm	5.78 Kg	3
MCBE2518	1"	25mm	1800mm	6.93 Kg	3
MCBE2520	1"	25mm	2000mm	7.70 Kg	2
MCBE2524	1"	25mm	2400mm	9.24 Kg	2
MCBE2530	1"	25mm	3000mm	11.56 Kg	2

## COPPER BONDED EARTH ROD Internally Threaded



Matrix Inc. offering wide ranges of earthing equipment our Copper Bonded Earth Rod with coated pure molecularly bonding 99.9% electrolytic grades thickness min. 0.254mm microns coating tensile strength 580Nm/mm. These rods made from high tensile low carbon steel with internally threaded high tensile strength low carbon steel earth rods are internally threaded for jointing together as per required length of earth rods.

Part No. / Item Code	Rod	Rod	Thread	Units	Packing
	Dia	Length	Size	Weight (Kgs)	No's of Rods
MCBI1212	12.7mm	1200mm	M8	1.19 Kg	10
MCBI1215	12.7mm	1500mm	M8	1.49 Kg	10
MCBI1218	12.7mm	1800mm	M8	1.78 Kg	10
MCBI1220	12.7mm	2000mm	M8	1.98 Kg	5
MCBI1224	12.7mm	2400mm	M8	2.38 Kg	5
MCBI1230	12.7mm	3000mm	M8	2.98 Kg	5
MCBI1412	14.2mm	1200mm	M10	1.49 Kg	10
MCBI1415	14.2mm	1500mm	M10	1.86 Kg	10
MCBI1418	14.2mm	1800mm	M10	2.23 Kg	10
MCBI1420	14.2mm	2000mm	M10	2.48 Kg	5
MCBI1424	14.2mm	2400mm	M10	2.98 Kg	5
MCBI1430	14.2mm	3000mm	M10	3.72 Kg	5
MCBI1512	15mm	1200mm	M10	1.66 Kg	10
MCBI1515	15mm	1500mm	M10	2.00 kg	10
MCBI1518	15mm	1800mm	M10	2.49 Kg	10
MCBI1520	15mm	2000mm	M10	2.77 Kg	5
MCBI1524	15mm	2400mm	M10	3.32 Kg	5
MCBI1530	15mm	3000mm	M10	4.16 Kg	5
MCBI1612	16mm	1200mm	M10	1.89 Kg	5
MCBI1615	16mm	1500mm	M10	2.36 Kg	10
MCBI1518	16mm	1800mm	M10	2.84 Kg	5
MCBI1620	16mm	2000mm	M10	3.15 Kg	5
MCBI1524	16mm	2400mm	M10	3.78 Kg	5
MCBI1530	16mm	3000mm	M10	4.73 Kg	5
MCBI1912	19mm	1200mm	M10	5.88 Kg	10
MCBI1915	19mm	1500mm	M10	3.33 Kg	5
MCBI1918	19mm	1800mm	M10	4.00 Kg	5
MCBI1920	19mm	2000mm	M10	4.45 Kg	5
MCBI1924	19mm	2400mm	M10	5.34 Kg	5
MCBI1930	19mm	3000mm	M10	6.67 Kg	5
MCBI2012	20mm	1200mm	M10	2.95 Kg	10
MCBI2015	20mm	1500mm	M10	3.69 Kg	5
MCBI2018	20mm	1800mm	M10	4.43 Kg	5
MCBI2020	20mm	2000mm	M10	4.93 Kg	5
MCBI2024	20mm	2400mm	M10	5.91 Kg	5
MCBI2030	20mm	3000mm	M10	7.39 Kg	3
MCBI2512	25mm	1200mm	M12	4.62 Kg	5
MCBI2515	25mm	1500mm	M12	5.77 Kg	3
MCBI2518	25mm	1800mm	M12	6.93 Kg	3
MCBI2520	25mm	2000mm	M12	7.70 Kg	3
MCBI2524	25mm	2400mm	M12	9.24 Kg	2
MCBI2530	25mm	3000mm	M12	11.55 Kg	2



## COPPER BONDED EARTH ROD Welded Clamp



Matrix Inc. offering wide ranges of earthing equipment our Copper Bonded Earth Rod with coated pure molecularly bonding 99.9% electrolytic grades thickness min. 0.254mm coating. These rods made from high tensile low carbon steel with treaded high tensile strength low carbon steel earth rods.

These copper bonded earth rods design welded square clamp. These rods does not required separate clamp for connection.

Part No. / Item Code	Rod	Rod	Units	Packing
	Length	Length	Weight	No's of Rods
MCWC1212	12.7mm	1200mm	1.18 Kg	5
MCWC1215	12.7mm	1500mm	1.55 Kg	5
MCWC1218	12.7mm	1800mm	1.76 Kg	5
MCWC1220	12.7mm	2000mm	2.10 Kg	5
MCWC1224	12.7mm	2400mm	2.36 Kg	5
MCWC1230	12.7mm	3000mm	1.28 Kg	5
MCWC1412	14.2mm	1200mm	1.53 Kg	5
MCWC1415	14.2mm	1500mm	1.95 Kg	5
MCWC1418	14.2mm	1800mm	2.23 Kg	5
MCWC1420	14.2mm	2000mm	2.84 Kg	5
MCWC1424	14.2mm	2400mm	3.01 Kg	5
MCWC1430	14.2mm	3000mm	3.70 Kg	5
MCWC1512	15mm	1200mm	1.90 Kg	5
MCWC1515	15mm	1500mm	2.38 Kg	5
MCWC1518	15mm	1800mm	2.85 Kg	5
MCWC1520	15mm	2000mm	3.17 Kg	5
MCWC1524	15mm	2400mm	3.80 Kg	5
MCWC1530	15mm	3000mm	4.76 Kg	5
MCWC1612	16mm	1200mm	2.16 Kg	5
MCWC1615	16mm	1500mm	2.70 Kg	5
MCWC1618	16mm	1800mm	3.25 Kg	5
MCWC1620	16mm	2000mm	3.61 Kg	5
MCWC1624	16mm	2400mm	4.33 Kg	5
MCWC1630	16mm	3000mm	5.41 Kg	5
MCWC1712	17.2mm	1200mm	2.20 Kg	5
MCWC1715	17.2mm	1500mm	2.76 Kg	5
MCWC1718	17.2mm	1800mm	3.26 Kg	5
MCWC1720	17.2mm	2000mm	4.17 Kg	5
MCWC1724	17.2mm	2400mm	4.45 Kg	5
MCWC1730	17.2mm	3000mm	5.48 Kg	5
MCWC1912	19mm	1200mm	3.05 Kg	5
MCWC1915	19mm	1500mm	3.81 Kg	5
MCWC1918	19mm	1800mm	4.58 Kg	5
MCWC1920	19mm	2000mm	5.09 Kg	5
MCWC1924	19mm	2400mm	6.11 Kg	3
MCWC1930	19mm	3000mm	7.63 Kg	3
MCWC2012	20mm	1200mm	3.00 Kg	5
MCWC2015	20mm	1500mm	3.69 Kg	5
MCWC2018	20mm	1800mm	4.43 Kg	3
MCWC2020	20mm	2000mm	4.49 Kg	3
MCWC2024	20mm	2400mm	5.91 Kg	3
MCWC2030	20mm	3000mm	7.39 Kg	3
MCWC2512	25mm	1200mm	4.62 Kg	5
MCWC2515	25mm	1500mm	5.78 Kg	3
MCWC2518	25mm	1800mm	6.93 Kg	3
MCWC2520	25mm	2000mm	7.70 Kg	2
MCWC2524	25mm	2400mm	9.24 Kg	2
MCWC2530	25mm	3000mm	11.16 Kg	2

## SOLID COPPER EARTH ROD Unthreaded



Solid Copper 96-99.5% pure copper earth rods use where extreme corrosion environment and toughest ground conditions. This solid hard drawn copper tinned coated earth electrode gives permanent corrosion resistance and long-lasting grounding problems.

These earth rods are designed for use where extremely high corrosion resistance and exceptionally long life are required.

Part No. / Item Code	Nominal Rod	Rod	Units	Packing
	Diameter	Length	Weight	No's of Rods
MCER1212	12.7mm	1200mm	1.36 Kg	5
MCER1215	12.7mm	1500mm	1.70 Kg	5
MCER1218	12.7mm	1800mm	2.04 Kg	5
MCER1220	12.7mm	2000mm	2.27 Kg	5
MCER1224	12.7mm	2400mm	2.73 Kg	5
MCER1230	12.7mm	3000mm	3.41 Kg	5
MCER1412	14.2mm	1200mm	1.70 Kg	5
MCER1415	14.2mm	1500mm	2.13 Kg	5
MCER1418	14.2mm	1800mm	2.56 Kg	5
MCER1420	14.2mm	2000mm	2.84 Kg	5
MCER1424	14.2mm	2400mm	3.41 Kg	5
MCER1430	14.2mm	3000mm	4.26 Kg	5
MCER1512	15mm	1200mm	1.90 Kg	5
MCER1515	15mm	1500mm	2.38 Kg	5
MCER1518	15mm	1800mm	2.85 Kg	5
MCER1520	15mm	2000mm	3.17 Kg	5
MCER1524	15mm	2400mm	3.80 Kg	5
MCER1530	15mm	3000mm	4.76 Kg	5
MCER1612	16mm	1200mm	2.16 Kg	5
MCER1615	16mm	1500mm	2.70 Kg	5
MCER1618	16mm	1800mm	3.25 Kg	5
MCER1620	16mm	2000mm	3.61 Kg	5
MCER1624	16mm	2400mm	4.33 Kg	5
MCER1630	16mm	3000mm	5.41 Kg	5
MCER1712	17.2mm	1200mm	2.50 Kg	5
MCER1715	17.2mm	1500mm	3.12 Kg	5
MCER1718	17.2mm	1800mm	3.75 Kg	5
MCER1720	17.2mm	2000mm	4.17 Kg	5
MCER1724	17.2mm	2400mm	5.00 Kg	5
MCER1730	17.2mm	3000mm	6.25 Kg	5
MCER1912	19mm	1200mm	3.05 Kg	5
MCER1915	19mm	1500mm	3.81 Kg	5
MCER1918	19mm	1800mm	4.58 Kg	5
MCER1920	19mm	2000mm	5.09 Kg	5
MCER1924	19mm	2400mm	6.11 Kg	3
MCER1930	19mm	3000mm	7.63 Kg	3
MCER2012	20mm	1200mm	3.38 Kg	5
MCER2015	20mm	1500mm	4.23 Kg	5
MCER2018	20mm	1800mm	5.07 Kg	3
MCER2020	20mm	2000mm	5.64 Kg	3
MCER2024	20mm	2400mm	6.77 Kg	3
MCER2030	20mm	3000mm	8.46 Kg	3
MCER2512	25mm	1200mm	5.28 Kg	5
MCER2515	25mm	1500mm	6.61 Kg	3
MCER2518	25mm	1800mm	7.93 Kg	3
MCER2520	25mm	2000mm	8.81 Kg	2
MCER2524	25mm	2400mm	10.57 Kg	2

## SOLID COPPER EARTH ROD Threaded



Solid copper ground rods 96-99.6% pure copper made of high conductive hard drawn bare copper Earth Rods pointed. These solid rods are highly corrosion resistance and gives permanent grounding solution.

These copper bonded earth rods design externally threaded extensible as per required length of earth rods.

Part No. / Item Code	Nominal Rod		Rod	Units	Packing
	Diameter		Length	Weight	No's of Rods
MCER1212	1/2"	12.7mm	1200mm	1.36 Kg	5
MCER1215	1/2"	12.7mm	1500mm	1.70 Kg	5
MCER1218	1/2"	12.7mm	1800mm	2.04 Kg	5
MCER1220	1/2"	12.7mm	2000mm	2.27 Kg	5
MCER1224	1/2"	12.7mm	2400mm	2.73 Kg	5
MCER1230	1/2"	12.7mm	3000mm	3.41 Kg	5
MCER1412	5/8"	14.2mm	1200mm	1.70 Kg	5
MCER1415	5/8"	14.2mm	1500mm	2.13 Kg	5
MCER1418	5/8"	14.2mm	1800mm	2.56 Kg	5
MCER1420	5/8"	14.2mm	2000mm	2.84 Kg	5
MCER1424	5/8"	14.2mm	2400mm	3.41 Kg	5
MCER1430	5/8"	14.2mm	3000mm	4.26 Kg	5
MCER1512	5/8"	15mm	1200mm	1.90 Kg	5
MCER1515	5/8"	15mm	1500mm	2.38 Kg	5
MCER1518	5/8"	15mm	1800mm	2.85 Kg	5
MCER1520	5/8"	15mm	2000mm	3.17 Kg	5
MCER1524	5/8"	15mm	2400mm	3.80 Kg	5
MCER1530	5/8"	15mm	3000mm	4.76 Kg	5
MCER1612	5/8"	16mm	1200mm	2.16 Kg	5
MCER1615	5/8"	16mm	1500mm	2.70 Kg	5
MCER1618	5/8"	16mm	1800mm	3.25 Kg	5
MCER1620	5/8"	16mm	2000mm	3.61 Kg	5
MCER1624	5/8"	16mm	2400mm	4.33 Kg	5
MCER1630	5/8"	16mm	3000mm	5.41 Kg	5
MCER1712	3/4"	17.2mm	1200mm	2.50 Kg	5
MCER1715	3/4"	17.2mm	1500mm	3.12 Kg	5
MCER1718	3/4"	17.2mm	1800mm	3.75 Kg	5
MCER1720	3/4"	17.2mm	2000mm	4.17 Kg	5
MCER1724	3/4"	17.2mm	2400mm	5.00 Kg	5
MCER1730	3/4"	17.2mm	3000mm	6.25 Kg	5
MCER1912	3/4"	19mm	1200mm	3.05 Kg	5
MCER1915	3/4"	19mm	1500mm	3.81 Kg	5
MCER1918	3/4"	19mm	1800mm	4.58 Kg	5
MCER1920	3/4"	19mm	2000mm	5.09 Kg	5
MCER1924	3/4"	19mm	2400mm	6.11 Kg	3
MCER1930	3/4"	19mm	3000mm	7.63 Kg	3
MCER2012	1"	20mm	1200mm	3.38 Kg	5
MCER2015	1"	20mm	1500mm	4.23 Kg	5
MCER2018	1"	20mm	1800mm	5.07 Kg	3
MCER2020	1"	20mm	2000mm	5.64 Kg	3
MCER2024	1"	20mm	2400mm	6.77 Kg	3
MCER2030	1"	20mm	3000mm	8.46 Kg	3
MCER2512	1"	25mm	1200mm	5.28 Kg	5
MCER2515	1"	25mm	1500mm	6.61 Kg	3
MCER2518	1"	25mm	1800mm	7.93 Kg	3
MCER2520	1"	25mm	2000mm	8.81 Kg	2
MCER2524	1"	25mm	2400mm	10.57 Kg	2

## SOLID COPPER EARTH ROD Internally Threaded



Solid Copper Earth Rods use where extreme corrosion environment and toughest ground conditions. These solid hard drawn copper earth electrodes give permanent corrosion resistance and long-lasting grounding problems. internally threaded for jointing rods for extend rod length when bore hole deep driving rod insert in the pit.

Part No. / Item Code	Rod	Rod	Thread	Units	Packing
	Dia	Length	Size	Weight	No's of Rods
MCIR1212	12.7mm	1200mm	M8	1.36	10
MCIR1215	12.7mm	1500mm	M8	1.70	10
MCIR1218	12.7mm	1800mm	M8	2.04	10
MCIR1220	12.7mm	2000mm	M8	2.27	5
MCIR1224	12.7mm	2400mm	M8	2.73	5
MCIR1230	12.7mm	3000mm	M8	3.41	5
MCIR1412	14mm	1200mm	M10	1.65	10
MCIR1415	14mm	1500mm	M10	2.07	10
MCIR1418	14mm	1800mm	M10	2.48	10
MCIR1420	14mm	2000mm	M10	2.76	5
MCIR1424	14mm	2400mm	M10	3.31	5
MCIR1430	14mm	3000mm	M10	4.14	5
MCIR1512	15mm	1200mm	M10	1.88	10
MCIR1515	15mm	1500mm	M10	1.90	10
MCIR1518	15mm	1800mm	M10	2.85	10
MCIR1524	15mm	2400mm	M10	3.80	5
MCIR1530	15mm	3000mm	M10	4.70	5
MCIR1612	16mm	1200mm	M10	2.16	5
MCIR1615	16mm	1500mm	M10	2.66	10
MCIR1618	16mm	1800mm	M10	3.20	5
MCIR1624	16mm	2400mm	M10	4.28	5
MCIR1630	16mm	3000mm	M10	5.36	5
MCIR1912	19mm	1200mm	M10	3.05	10
MCIR1915	19mm	1500mm	M10	3.81	5
MCIR1918	19mm	1800mm	M10	4.58	5
MCIR1924	19mm	2400mm	M10	6.11	5
MCIR1930	19mm	3000mm	M10	7.60	5
MCIR2012	20mm	1200mm	M10	3.34	10
MCIR2015	20mm	1500mm	M10	4.18	5
MCIR2018	20mm	1800mm	M10	5.03	5
MCIR2024	20mm	2400mm	M10	6.71	5
MCIR2030	20mm	3000mm	M10	8.40	3
MCIR2512	25mm	1200mm	M12	5.25	5
MCIR2515	25mm	1500mm	M12	6.54	3
MCIR2518	25mm	1800mm	M12	7.86	3
MCIR2520	25mm	2000mm	M12	8.73	3
MCIR2524	25mm	2400mm	M12	10.90	2
MCIR2530	25mm	3000mm	M12	13.10	2

## TINNED COPPER SOLID EARTH ROD - Unthreaded



Tinned Copper Solid earth rods un-threaded hard drawn copper use where extreme corrosion environment and toughest ground conditions. These solid hard drawn copper earth electrodes give permanent corrosion resistance and long-lasting grounding problems

Part No. / Item Code	Rod	Rod	Units	Packing
	Dia	Length	Weight	No's of Rods
MTUR1212	12.7mm	1200mm	1.36	10
MTUR1215	12.7mm	1500mm	1.70	10
MCIR1218U	12.7mm	1800mm	2.04	10
MTUR1220	12.7mm	2000mm	2.27	5
MTUR1224	12.7mm	2400mm	2.73	5
MTUR1230	12.7mm	3000mm	3.41	5
MTUR1412	14mm	1200mm	1.65	10
MTUR1415	14mm	1500mm	2.07	10
MTUR1418	14mm	1800mm	2.48	10
MTUR1420	14mm	2000mm	2.76	5
MTUR1424	14mm	2400mm	3.31	5
MTUR1430	14mm	3000mm	4.14	5
MTUR1512	15mm	1200mm	1.88	10
MTUR1515	15mm	1500mm	1.90	10
MTUR1518	15mm	1800mm	2.85	10
MTUR1524	15mm	2400mm	3.80	5
MTUR1530	15mm	3000mm	4.70	5
MTUR1612	16mm	1200mm	2.16	5
MTUR1615	16mm	1500mm	2.66	10
MTUR1518	16mm	1800mm	3.20	5
MTUR1524	16mm	2400mm	4.28	5
MTUR1530	16mm	3000mm	5.36	5
MTUR1912	19mm	1200mm	3.05	10
MTUR1915	19mm	1500mm	3.81	5
MTUR1918	19mm	1800mm	4.58	5
MTUR1924	19mm	2400mm	6.11	5
MTUR1930	19mm	3000mm	7.60	5
MTUR2012	20mm	1200mm	3.34	10
MTUR2015	20mm	1500mm	4.18	5
MTUR2018	20mm	1800mm	5.03	5
MTUR2024	20mm	2400mm	6.71	5
MTUR2030	20mm	3000mm	8.40	3
MTUR2512	25mm	1200mm	5.25	5
MTUR2515	25mm	1500mm	6.54	3
MTUR2518	25mm	1800mm	7.86	3
MTUR2520	25mm	2000mm	8.73	3
MTUR2524	25mm	2400mm	10.90	2
MTUR2530	25mm	3000mm	13.10	2

## TINNED COPPER SOLID EARTH ROD - Threaded

Tinned coated pure copper solid ground rods made of highly conductive hard drawn bare copper Earth Rods with threaded for extendable with the help of couplers as per required rod length



Part No. / Item Code	Nominal Rod		Rod	Units	Packing
	Diameter		Length	Weight	No's of Rods
MTER1212	1/2"	12.7mm	1200mm	1.36 Kg	10
MTER1215	1/2"	12.7mm	1500mm	1.70 Kg	10
MTER1218	1/2"	12.7mm	1800mm	2.04 Kg	10
MTER1220	1/2"	12.7mm	2000mm	2.27 Kg	5
MTER1224	1/2"	12.7mm	2400mm	2.73 Kg	5
MTER1230	1/2"	12.7mm	3000mm	3.41 Kg	5
MTER1412	5/8"	14.2mm	1200mm	1.70 Kg	10
MTER1415	5/8"	14.2mm	1500mm	2.13 Kg	5
MTER1418	5/8"	14.2mm	1800mm	2.56 Kg	5
MTER1420	5/8"	14.2mm	2000mm	2.84 Kg	5
MTER1424	5/8"	14.2mm	2400mm	3.41 Kg	5
MTER1430	5/8"	14.2mm	3000mm	4.26 Kg	5
MTER1512	5/8"	15mm	1200mm	1.90 Kg	10
MTER1515	5/8"	15mm	1500mm	2.38 Kg	5
MTER1518	5/8"	15mm	1800mm	2.85 Kg	5
MTER1520	5/8"	15mm	2000mm	3.17 Kg	5
MTER1524	5/8"	15mm	2400mm	3.80 Kg	5
MTER1530	5/8"	15mm	3000mm	4.76 Kg	5
MTER1612	5/8"	16mm	1200mm	2.16 Kg	5
MTER1615	5/8"	16mm	1500mm	2.70 Kg	5
MTER1618	5/8"	16mm	1800mm	3.25 Kg	5
MTER1620	5/8"	16mm	2000mm	3.61 Kg	5
MTER1624	5/8"	16mm	2400mm	4.33 Kg	5
MTER1630	5/8"	16mm	3000mm	5.41 Kg	5
MTER1712	3/4"	17.2mm	1200mm	2.50 Kg	5
MTER1715	3/4"	17.2mm	1500mm	3.12 Kg	5
MTER1718	3/4"	17.2mm	1800mm	3.75 Kg	5
MTER1720	3/4"	17.2mm	2000mm	4.17 Kg	5
MTER1724	3/4"	17.2mm	2400mm	5.00 Kg	5
MTER1730	3/4"	17.2mm	3000mm	6.25 Kg	5
MTER1912	3/4"	19mm	1200mm	3.05 Kg	5
MTER1915	3/4"	19mm	1500mm	3.81 Kg	5
MTER1918	3/4"	19mm	1800mm	4.58 Kg	5
MTER1920	3/4"	19mm	2000mm	5.09 Kg	5
MTER1924	3/4"	19mm	2400mm	6.11 Kg	3
MTER1930	3/4"	19mm	3000mm	7.63 Kg	3
MTER2012	1"	20mm	1200mm	3.38 Kg	5
MTER2015	1"	20mm	1500mm	4.23 Kg	5
MTER2018	1"	20mm	1800mm	5.07 Kg	3
MTER2020	1"	20mm	2000mm	5.64 Kg	3
MTER2024	1"	20mm	2400mm	6.77 Kg	3
MTER2030	1"	20mm	3000mm	8.46 Kg	3
MTER2512	1"	25mm	1200mm	5.28 Kg	5
MTER2515	1"	25mm	1500mm	6.61 Kg	3
MTER2518	1"	25mm	1800mm	7.93 Kg	3
MTER2520	1"	25mm	2000mm	8.81 Kg	2

## TINNED COPPER SOLID EARTH ROD Internally Threaded



Tinned coated pure copper solid ground rods made of highly conductive hard drawn bare copper Earth Rods with internally threaded for jointing rods for extend rod length when bore hole deep driving rod insert in the pit.

Part No. / Item Code	Rod	Rod	Thread	Units	Packing
	Dia	Length	Size	Weight	No's of Rods
MTIR1212	12.7mm	1200mm	M8	1.36	10
MTIR1215	12.7mm	1500mm	M8	1.70	10
MTIR1218	12.7mm	1800mm	M8	2.04	10
MTIR1220	12.7mm	2000mm	M8	2.27	5
MTIR1224	12.7mm	2400mm	M8	2.73	5
MTIR1230	12.7mm	3000mm	M8	3.41	5
MTIR1412	14mm	1200mm	M10	1.65	10
MTIR1415	14mm	1500mm	M10	2.07	10
MTIR1418	14mm	1800mm	M10	2.48	10
MTIR1420	14mm	2000mm	M10	2.76	5
MTIR1424	14mm	2400mm	M10	3.31	5
MTIR1430	14mm	3000mm	M10	4.14	5
MTIR1512	15mm	1200mm	M10	1.88	10
MTIR1515	15mm	1500mm	M10	1.90	10
MTIR1518	15mm	1800mm	M10	2.85	10
MTIR1524	15mm	2400mm	M10	3.80	5
MTIR1530	15mm	3000mm	M10	4.70	5
MTIR1612	16mm	1200mm	M10	2.16	5
MTIR1615	16mm	1500mm	M10	2.66	10
MTIR1518	16mm	1800mm	M10	3.20	5
MTIR1524	16mm	2400mm	M10	4.28	5
MTIR1530	16mm	3000mm	M10	5.36	5
MTIR1912	19mm	1200mm	M10	3.05	10
MTIR1915	19mm	1500mm	M10	3.81	5
MTIR1918	19mm	1800mm	M10	4.58	5
MTIR1924	19mm	2400mm	M10	6.11	5
MTIR1930	19mm	3000mm	M10	7.60	5
MTIR2012	20mm	1200mm	M10	3.34	10
MTIR2015	20mm	1500mm	M10	4.18	5
MTIR2018	20mm	1800mm	M10	5.03	5
MTIR2024	20mm	2400mm	M10	6.71	5
MTIR2030	20mm	3000mm	M10	8.40	3
MTIR2512	25mm	1200mm	M12	5.25	5
MTIR2515	25mm	1500mm	M12	6.54	3
MTIR2518	25mm	1800mm	M12	7.86	3
MTIR2520	25mm	2000mm	M12	8.73	3
MTIR2524	25mm	2400mm	M12	10.90	2
MTIR2530	25mm	3000mm	M12	13.10	2

## STAINLESS STEEL SOLID EARTH ROD Unthreaded



Solid Stainless Steel Earth Rods un-threaded are specialized design for corrosion problems earth rods these SS Rods high resistance anti-corrosion for very longtime without melts or corrosion.

Part No. / Item Code	Rod	Length	Units	Packing
	Length	(mm)	Weight	No's of Rods
MSUR1212	12.7mm	1200mm	1.20 Kg	10
MSUR1215	12.7mm	1500mm	1.50 Kg	10
MSUR1218	12.7mm	1800mm	1.81 Kg	10
MSUR1220	12.7mm	2000mm	2.01 Kg	10
MSUR1224	12.7mm	2400mm	2.41 Kg	10
MSUR1230	12.7mm	3000mm	3.01 Kg	5
MSUR1420	14.2mm	1200mm	1.61 Kg	10
MSUR1415	14.2mm	1500mm	2.02 Kg	10
MSUR1418	14.2mm	1800mm	2.42 Kg	10
MSUR1420	14.2mm	2000mm	2.69 Kg	10
MSUR1424	14.2mm	2400mm	3.23 Kg	5
MSUR1430	14.7mm	3000mm	4.03 Kg	5
MSUR1620	16mm	1200mm	1.87 Kg	10
MSUR1615	16mm	1500mm	2.35 Kg	10
MSUR1618	16mm	1800mm	2.83 Kg	10
MSUR1620	16mm	2000mm	3.18 Kg	5
MSUR2416	16mm	2400mm	3.74 Kg	5
MSUR1630	16mm	3000mm	4.75 Kg	5
MSUR1712	17.2mm	1200mm	2.21 Kg	10
MSUR1715	17.2mm	1500mm	2.76 Kg	10
MSUR1718	17.2mm	1800mm	3.31 Kg	5
MSUR1720	17.2mm	2000mm	3.68 Kg	5
MSUR1724	17.2mm	2400mm	4.42 Kg	5
MSUR1730	17.2mm	3000mm	5.52 Kg	5
MSUR1212	20mm	1200mm	2.95 Kg	5
MSUR2015	20mm	1500mm	3.79 Kg	5
MSUR2018	20mm	1800mm	4.46 Kg	5
MSUR2020	20mm	2000mm	4.98 Kg	5
MSUR2420	20mm	2400mm	6.10 Kg	3
MSUR2030	20mm	3000mm	7.57 Kg	5
MSUR2512	25mm	1200mm	4.89 Kg	5
MSUR2515	25mm	1500mm	6.12 Kg	5
MSUR2518	25mm	1800mm	7.34 Kg	3
MSUR2520	25mm	2000mm	7.78 Kg	3
MSUR2524	25mm	2400mm	9.79 Kg	3
MSUR2530	25mm	3000mm	12.24 Kg	3



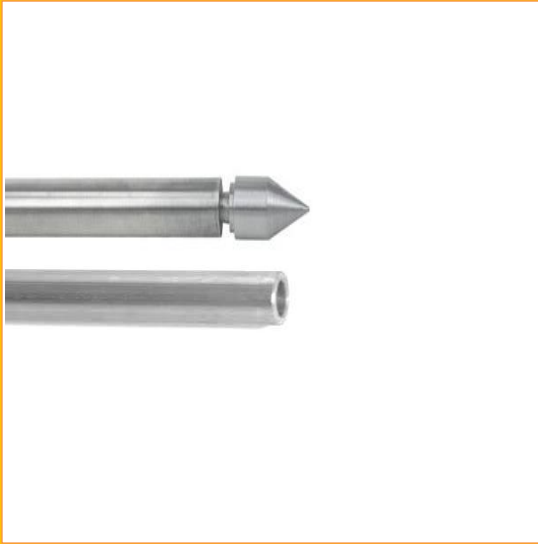
## STAINLESS STEEL SOLID EARTH ROD Threaded



Solid Stainless Steel Earth Rods externally threaded design for extensible earth rods length joining together with using threaded stainless steel coupler. These solid rods are highly corrosion resistance and gives permanent grounding solution

Part No. / Item Code	Nominal Rod		Length	Units	Packing
	Diameter		Size	Weight	No's of Rods
MSER1212	9/16"	12.7mm	1200mm	1.22 Kg	10
MSER1215	9/16"	12.7mm	1500mm	1.53 Kg	10
MSER1218	9/16"	12.7mm	1800mm	1.84 Kg	10
MSER1220	9/16"	12.7mm	2000mm	2.04 Kg	10
MSER1224	9/16"	12.7mm	2400mm	2.40 Kg	10
MSER1230	9/16"	12.7mm	3000mm	3.07 Kg	5
MSER1412	5/8"	14.2mm	1200mm	1.53 Kg	10
MSER1415	5/8"	14.2mm	1500mm	1.92 Kg	10
MSER1418	5/8"	14.2mm	1800mm	2.30 Kg	10
MSER1420	5/8"	14.2mm	2000mm	2.56 Kg	10
MSER1424	5/8"	14.2mm	2400mm	3.07 Kg	5
MSER1430	5/8"	14.2mm	3000mm	3.84 Kg	5
MSER1612	5/8"	16mm	1200mm	1.95 Kg	10
MSER1615	5/8"	16mm	1500mm	2.43 Kg	10
MSER1618	5/8"	16mm	1800mm	2.92 Kg	5
MSER1620	5/8"	16mm	2000mm	3.25 Kg	5
MSER1624	5/8"	16mm	2400mm	3.90 Kg	5
MSER1630	5/8"	16mm	3000mm	4.87 Kg	5
MSER1712	3/4"	17.2mm	1200mm	2.25 Kg	10
MSER1715	3/4"	17.2mm	1500mm	2.81 Kg	5
MSER1718	3/4"	17.2mm	1800mm	3.38 Kg	5
MSER1720	3/4"	17.2mm	2000mm	3.75 Kg	5
MSER1724	3/4"	17.2mm	2400mm	4.50 Kg	5
MSER1730	3/4"	17.2mm	3000mm	5.63 Kg	5
MSER2012	3/4"	20mm	1200mm	3.04 Kg	5
MSER2015	3/4"	20mm	1500mm	3.81 Kg	5
MSER2018	3/4"	20mm	1800mm	4.57 Kg	5
MSER2020	3/4"	20mm	2000mm	5.08 Kg	5
MSER2024	3/4"	20mm	2400mm	6.09 Kg	3
MSER2030	3/4"	20mm	3000mm	7.62 Kg	3
MSER2512	1"	25mm	1200mm	4.76 Kg	5
MSER2515	1"	25mm	1500mm	5.95 Kg	5
MSER2518	1"	25mm	1800mm	7.14 Kg	3
MSER2518	1"	25mm	2000mm	7.93 Kg	3
MSER2524	1"	25mm	2400mm	9.52 Kg	3
MSER2530	1"	25mm	3000mm	11.90 Kg	3

## STAINLESS STEEL SOLID EARTH ROD Internally Threaded



Solid Stainless Steel Earth Rods are specialized design for corrosion Problems in grounding systems. These SS Rods are high resistance anti-corrosion for very longtime without melts or corrosion. Internally threaded rods can extend length joining together with coupling dowels.

Part No. / Item Code	Nominal Rod	Units	Thread	Packing
	Diameter	Weight	Size	No's of Rods
MSIR1216	16mm	1.87 Kg	M10	10
MSIR1516	16mm	2.35 Kg	M10	10
MSIR1816	16mm	2.83 Kg	M10	10
MSIR2416	16mm	3.74 Kg	M10	5
MSIR3016	16mm	4.75 Kg	M10	5
MSIR1220	20mm	2.95 Kg	M10	10
MSIR1520	20mm	3.79 Kg	M10	5
MSIR1820	20mm	4.46 Kg	M10	5
MSIR2420	20mm	6.10 Kg	M10	5
MSIR3020	20mm	7.57 Kg	M10	5
MSIR1225	25mm	4.64 Kg	M12	5
MSIR1525	25mm	5.81 Kg	M12	5
MSIR1825	25mm	6.99 Kg	M12	3
MSIR2425	25mm	9.34 Kg	M12	3
MSIR3025	25mm	1.70 Kg	M12	3

## HOT DIP GALVANIZED STEEL SOLID EARTH ROD Unthreaded



Hot dip galvanized steel zinc coated electrodes provided by us is extensively used in electrical, Telecommunications & Automation Industries Solar renewable energy and other electrical applications. Hot Dipped Galvanized Iron Earth Rod silver zinc coated with 80-120 microns with conformity to BIS: 2629 & 4759. Galvanized solid earth rod Pointed chamfered tip Un-threaded

Part No. / Item Code	Nominal Rod	Rod	Units	Packing
	Diameter	Length	Weight	No's of Rods
MGUR1212	12.7mm	1200mm	1.18 Kg	10
MGUR1215	12.7mm	1500mm	1.55 Kg	5
MGUR1218	12.7mm	1800mm	1.76 Kg	5
MGUR1224	12.7mm	2400mm	2.36 Kg	5
MGUR1230	12.7mm	3000mm	2.85 Kg	5
MGUR1612	16mm	1200mm	1.87 Kg	10
MGUR1615	16mm	1500mm	2.35 Kg	5
MGUR1618	16mm	1800mm	2.83 Kg	5
MGUR1624	16mm	2400mm	3.74 Kg	5
MGUR1630	16mm	3000mm	4.75 Kg	5
MGUR2012	20mm	1200mm	2.95 Kg	10
MGUR2015	20mm	1500mm	3.79 Kg	5
MGUR2018	20mm	1800mm	4.46 Kg	5
MGUR2024	20mm	2400mm	6.10 Kg	5
MGUR2030	20mm	3000mm	7.57 Kg	5
MGUR2512	25mm	1200mm	4.89 Kg	5
MGUR2515	25mm	1500mm	6.12 Kg	5
MGUR2518	25mm	1800mm	7.34 Kg	3
MGUR2524	25mm	2400mm	9.79 Kg	3
MGUR2530	25mm	3000mm	12.24 Kg	3

## HOT DIP GALVANIZED STEEL SOLID EARTH ROD Threaded



Hot Dip Galvanized steel earth Rods the ideal for earthing and engineers choice for its long-lasting performance and low price electrodes provided by us is extensively used In electrical, Telecommunications & Automation Industries applications. Hot Dipped Galvanized Iron Earth Rod silver zinc coated with 80-120 microns with conformity to BIS: 2629 & 4759

Externally threaded earth rod s extendable required length with help of round couplers.

Part No. / Item Code	Nominal Rod		Rod	Units	Packing
	Diameter		Length	Weight	No's of Rods
MATGER1212	1/2"	12.7mm	1200mm	1.25 Kg	10
MATGER1215	1/2"	12.7mm	1500mm	1.55 Kg	10
MATGER1218	1/2"	12.7mm	1800mm	1.76 Kg	10
MATGER1224	1/2"	12.7mm	2400mm	2.76 Kg	10
MATGER1230	1/2"	12.7mm	3000mm	2.85 Kg	10
MATGER1216	5/8"	16mm	1200mm	1.87 Kg	10
MATGER1516	5/8"	16mm	1500mm	2.35 Kg	10
MATGER1816	5/8"	16mm	1800mm	2.83 Kg	10
MATGER2416	5/8"	16mm	2400mm	3.74 Kg	5
MATGER3016	5/8"	16mm	3000mm	4.75 Kg	5
MATGER1220	3/4"	20mm	1200mm	2.95 Kg	10
MATGER1520	3/4"	20mm	1500mm	3.79 Kg	5
MATGER1820	3/4"	20mm	1800mm	4.46 Kg	5
MATGER2420	3/4"	20mm	2400mm	6.10 Kg	5
MATGER3020	3/4"	20mm	3000mm	7.57 Kg	5
MATGER1225	1"	25mm	1200mm	4.89 Kg	5
MATGER1525	1"	25mm	1500mm	6.12 Kg	5
MATGER1825	1"	25mm	1800mm	7.34 Kg	3
MATGER2425	1"	25mm	2400mm	9.79 Kg	3
MATGER3025	1"	25mm	3000mm	12.24 Kg	3

## HOT DIP GALVANIZED STEEL SOLID EARTH ROD Internally Threaded



Hot dip galvanized steel zinc coated not less than 80-120 microns coating, galvanized solid earth rod Internally threaded for extensible rod length joining together with coupling dowel and driving spike pointed end.

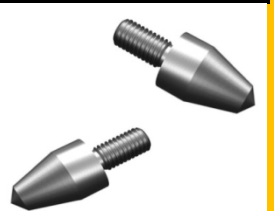
Part No. / Item Code	Nominal Rod		Rod	Units	Packing
	Diameter/Thread		Length	Weight	No's of Rods
MGIR1612	16mm	M10	1200mm	1.77 Kg	10
MGIR1615	16mm	M10	1500mm	2.25 Kg	10
MGIR1618	16mm	M10	1800mm	2.73 Kg	5
MGIR1624	16mm	M10	2400mm	3.64 Kg	5
MGIR1630	16mm	M10	3000mm	4.65 Kg	5
MGIR2012	20mm	M10	1200mm	2.85 Kg	10
MGIR2015	20mm	M10	1500mm	3.69 Kg	5
MGIR2018	20mm	M10	1800mm	4.36 Kg	5
MGIR2024	20mm	M10	2400mm	6.00 Kg	5
MGIR2030	20mm	M10	3000mm	7.47 Kg	3
MGIR2512	25mm	M12	1200mm	4.79 Kg	5
MGIR2515	25mm	M12	1500mm	6.02 Kg	3
MGIR2518	25mm	M12	1800mm	7.24 Kg	3
MGIR2524	25mm	M12	2400mm	9.69 Kg	3
MGIR2530	25mm	M12	3000mm	12.14 Kg	3

**OVER SPIKE**



Tread	Head Length	Dia
1/2"	50	49
5/8"	47	24
3/4"	47	24

**DRIVING SPIKE**



Dia	Head Length	Thread	Thread Length
16	42	M10	20
20	51	M10	20
25	60	M12	25

**DRIVING STUD HEADS**



Dia	Head Length	Thread	Thread Length
16	38	M10	20
20	41	M10	20
25	45	M12	25

**INTERNAL COUPLING DOWEL**



Thread Size	Head Length	Metal
M10	40	GI
M12	50	Copper

**THREADED COUPER**



Thread	Length	Dia
1/2"	68	18
5/8"	68	20
3/4"	78	25
1"	100	31

**THREADED DRIVING HEAD**



Thread	Length	Dia
1/2"	50	20
5/8"	55	22
3/4"	60	25
3/4"	120	22
3/4"	60	30

## Hot Dip GI Solid Earth Rod

### SPLIT CONNECTOR CLAMP



Rod Dia	Thread Size	L (mm)	W (mm)	H (mm)
5/8"	5/8"	42	24	26
3/4"	3/4"	51	31	30

### U-TYPE "E" CLAMP



Mechanical clamp to connect flat copper tape to earth rods or to steel reinforcing bars.

Rod Dia	Flat Conductor Size
14-25	25x3
25-40	25x3
50	25x3

### GUV-TYPE CLAMP



Mechanical clamp for connecting stranded copper cables or solid round copper conductor to earth rods or to steel reinforcing bars.

Rod Dia	Conductor (Sqmm)
14-20	70-150
25	150-300
14-20	150-300
25	16-70

### SPLIT BOLT CONNECTOR



Main Conductor mm2	Tap Conductor mm2	H (mm)	W (mm)
10	1.5-10	20	4
16	2.5-16	23	5
25	2.5-25	28	7
35	2.5-35	29	8

## A Type Clamp



Mechanical clamp for connecting flat copper tapes to earth rods.

Rod Dia	Flat Size
16-20	26x12 & 26x10
20	26x10
16	25x6 & 40x12
20	51x12
20-25	25x3 & 32x9

## G Type Clamp



Mechanical clamp for connecting stranded copper cables or solid round copper conductor to earth rods

Rod Dia	Conductor (Sqmm)
16-20	16-70
20	35-95



Main Conductor mm200tx	Tap Conductor mm2	L(mm)	H (mm)	W (mm)
10	4-10	13	9	12
10-16	10-16	19	12	17
16	4	19	12	17
16-25	1.5-10	20	13	12
25	10-16	21	12	19
35	1.5-16	24	15	20
50	4-16	27	15	20
70	1.5-25	27	17	20
50-70	4-35	33	21	28
70-95	95	41	26	30
95	4-35	41	26	30
120	35-120	45	28	30
120-185	95-185	54	33	35
150-185	70-150	54	33	35
240	10-70	-	-	-



**HOT DIP GALVANIZED STEEL  
Chemical Earth Electrode Vertical & Horizontal**



Item Code	Dia	Electrode Length	Pigtail (Up & Down)
MHDCV5020	50mm	2000mm	1000mm
MHDCV5030	50mm	3000mm	1000mm
MHDCV6520	65mm	2000mm	1000mm
MHDCV6530	65mm	3000mm	1000mm
MHDCV8020	80mm	2000mm	1000mm
MHDCV8030	80mm	3000mm	1000mm
MHDCV1020	100mm	2000mm	1000mm
MHDCV1030	100mm	3000mm	1000mm

**HOT DIP GALVANIZED STEEL  
Chemical Earth Electrode Vertical & Horizontal**



Item Code	Dia	Electrode Length	Pigtail (Up & Down)
MHDCH5020	50mm	2000mm	1000mm
MHDCH5030	50mm	3000mm	1000mm
MHDCH5040	50mm	4000mm	2000mm
MHDCH6520	65mm	2000mm	1000mm
MHDCH6530	65mm	3000mm	1000mm
MHDCH6540	65mm	4000mm	2000mm
MHDCH8020	80mm	2000mm	1000mm
MHDCH8030	80mm	3000mm	1000mm
MHDCH8040	80mm	4000mm	2000mm
MHDCH1020	100mm	2000mm	1000mm
MHDCH1030	100mm	3000mm	1000mm
MHDCH1040	100mm	4000mm	2000mm

Hot Dip Galvanized Steel Chemical Grounding rods Vertical & Horizontal is an efficient grounding system in locations of high soil resistivity. The electrode is pre-filled at the factory with electrolytic salts can releases water to the surrounding soil which the salts have absorbed when appropriate. Together with high efficient grounding enhancement material as backfill, the system dissipate lightning energy and other dangerous electrical fault currents, even in sandy or soil conditions.

**SOLID COPPER  
Chemical Earth Electrode Vertical**



Item Code	Dia	Electrode Length	Pigtail (Up & Down)
MCCEH5020	50mm	2000mm	1000mm
MCCEH5030	50mm	3000mm	1000mm
MCCEH6520	65mm	2000mm	1000mm
MCCEH6530	65mm	3000mm	1000mm
MCCEH8020	80mm	2000mm	1000mm
MCCEH8030	80mm	3000mm	1000mm
MCCEH1020	100mm	2000mm	1000mm
MCCEH1030	100mm	3000mm	1000mm

**SOLID COPPER  
Chemical Earth Electrode Horizontal**



Item Code	Dia	Electrode Length	Pigtail (Up & Down)
MCCEV5020	50mm	2000mm	1000mm
MCCEV5030	50mm	3000mm	1000mm
MCCEV5040	50mm	4000mm	2000mm
MCCEV6520	65mm	2000mm	1000mm
MCCEV6530	65mm	3000mm	1000mm
MCCEV6540	65mm	4000mm	2000mm
MCCEV8020	80mm	2000mm	1000mm
MCCEV8030	80mm	3000mm	1000mm
MCCEV8040	80mm	4000mm	2000mm
MCCEV1020	100mm	2000mm	1000mm
MCCEV1030	100mm	3000mm	1000mm
MCCEV1040	100mm	4000mm	2000mm

Solid Copper Chemical Grounding rods Vertical & Horizontal is an efficient grounding system in locations of high soil resistivity. The electrode is pre-filled at the factory with electrolytic salts can release water to the surrounding soil which the salts have absorbed when appropriate. Together with high efficient grounding enhancement material as backfill, the system dissipate lightning energy and other dangerous electrical fault currents, even in sandy or soil conditions.

**COPPER BONDED  
Chemical Earth Electrode Vertical**



Item Code	Dia	Electrode Length	Pigtail (Up & Down)
MCBEEV5020	50mm	2000mm	1000mm
MCBEEV5030	50mm	3000mm	1000mm
MCBEEV6520	65mm	2000mm	1000mm
MCBEEV6530	65mm	3000mm	1000mm
MCBEEV8020	80mm	2000mm	1000mm
MCBEEV8030	80mm	3000mm	1000mm
MCBEEV1020	100mm	2000mm	1000mm
MCBEEV1030	100mm	3000mm	1000mm

**COPPER BONDED  
Chemical Earth Electrode Horizontal**



Item Code	Dia	Electrode Length	Pigtail (Up & Down)
MCBEEH5020	50mm	2000mm	1000mm
MCBEEH5030	50mm	3000mm	1000mm
MCBEEH5040	50mm	4000mm	2000mm
MCBEEH6520	65mm	2000mm	1000mm
MCBEEH6530	65mm	3000mm	1000mm
MCBEEH6540	65mm	4000mm	2000mm
MCBEEH8020	80mm	2000mm	1000mm
MCBEEH8030	80mm	3000mm	1000mm
MCBEEH8040	80mm	4000mm	2000mm
MCBEEH1020	100mm	2000mm	1000mm
MCBEEH1030	100mm	3000mm	1000mm
MCBEEH1040	100mm	4000mm	2000mm

Copper Bonded Chemical Grounding rods 20-254 microns coated Vertical & Horizontal is an efficient grounding system in locations of high soil resistivity. The electrode is pre-filled at the factory with electrolytic salts can releases water to the surrounding soil which the salts have absorbed when appropriate. Together with high efficient grounding enhancement material as backfill, the system dissipate lightning energy and other dangerous electrical fault currents, even in sandy or soil conditions.

**STAINLESS STEEL  
Chemical Earth Electrode Vertical**



Item Code	Dia	Electrode Length	Pigtail (Up & Down)
MSCEEV5020	50mm	2000mm	1000mm
MSCEEV5030	50mm	3000mm	1000mm
MSCEEV6520	65mm	2000mm	1000mm
MSCEEV6530	65mm	3000mm	1000mm
MSCEEV8020	80mm	2000mm	1000mm
MSCEEV8030	80mm	3000mm	1000mm
MSCEEV1020	100mm	2000mm	1000mm
MSCEEV1030	100mm	3000mm	1000mm

**STAINLESS STEEL  
Chemical Earth Electrode Horizontal**



Item Code	Dia	Electrode Length	Pigtail (Up & Down)
MSCEEH5020	50mm	2000mm	1000mm
MSCEEH5030	50mm	3000mm	1000mm
MSCEEH5040	50mm	4000mm	2000mm
MSCEEH6520	65mm	2000mm	1000mm
MSCEEH6530	65mm	3000mm	1000mm
MSCEEH6540	65mm	4000mm	2000mm
MSCEEH8020	80mm	2000mm	1000mm
MSCEEH8030	80mm	3000mm	1000mm
MSCEEH8040	80mm	4000mm	2000mm
MSCEEH1020	100mm	2000mm	1000mm
MSCEEH1030	100mm	3000mm	1000mm
MSCEEH1040	100mm	4000mm	2000mm

Stainless Steel Chemical Grounding rods 304/304L / 316 standard grade material Vertical & Horizontal is an efficient grounding system in locations of high soil resistivity. The electrode is pre-filled at the factory with electrolytic salts can releases water to the surrounding soil which the salts have absorbed when appropriate. Together with high efficient grounding enhancement material as backfill, the system dissipate lightning energy and other dangerous electrical fault currents, even in sandy or soil conditions.

## CHEMICAL EARTHING ELECTRODES

### Hot Dip Galvanized Steel PIPE IN SRIP Chemical Earth Electrode



Item code	ROD DIA (mm)	ROD LENGTH in (mm)	STRIP LENGTH in (mm)	STRIP Dimension in (mm)
MGIEE4010	40	1000	1080	25x6
MGIEE4020	40	2000	2080	25x6
MGIEE4030	40	3000	3080	25x6
MGIEE5010	50	1000	1080	32x6
MGIEE5020	50	2000	2080	32x6
MGIEE5030	50	3000	3080	32x6
MGIEE7510	75	1000	1080	40x6
MGIEE7520	75	2000	2080	40x6
MGIEE7530	75	3000	3080	40x6
MGIEE1010	100	1000	1080	50x6
MGIEE1020	100	2000	2080	50x6
MGIEE1030	100	3000	3080	50x6

### Hot Dip Galvanized Steel DUAL Chemical Earth Electrode

Item code	ROD DIA (OD)	ROD DIA (ID)	ROD LENGTH in (mm)	STRIP LENGTH in (mm) (LXWXH)
MGPIP5010	50	40	1000	32x6x1080
MGPIP5020	50	40	2000	32x6x2080
MGPIP5030	50	40	3000	32x6x3080
MGPIP7510	75	65	1000	40x6x1080
MGPIP7520	75	54	2000	40x6x2080
MGPIP7530	75	65	3000	40x6x3080
MGPIP1010	100	80	1000	50x6x1080
MGPIP1020	100	80	2000	50x6x2080
MGPIP1030	100	80	3000	50x6x3080

### STAINLESS STEEL Chemical Earth Electrode



Item code	ROD DIA (mm)	ROD LENGTH in (mm)	STRIP LENGTH in (mm)	STRIP Dimension in (mm)
MSSEE4010	40	1000	1080	25x6
MSSEE4020	40	2000	2080	25x6
MSSEE4030	40	3000	3080	25x6
MSSEE5010	50	1000	1080	32x6
MSSEE5020	50	2000	2080	32x6
MSSEE5030	50	3000	3080	32x6
MSSEE7510	75	1000	1080	40x6
MSSEE7520	75	2000	2080	40x6
MSSEE7530	75	3000	3080	40x6
MSSEE1010	100	1000	1080	50x6
MSSEE1020	100	2000	2080	50x6
MSSEE1030	100	3000	3080	50x6

**SOLID COPPER  
CHEMICAL EARTHING ELECTRODES**



Item code	ROD DIA (mm)	ROD LENGTH in (mm)	STRIP LENGTH in (mm)	STRIP Dimension in (mm)
MSCEE4010	40	1000	1080	25x6
MSCEE4020	40	2000	2080	25x6
MSCEE4030	40	3000	3080	25x6
MSCEE5010	50	1000	1080	32x6
MSCEE5020	50	2000	2080	32x6
MSCEE5030	50	3000	3080	32x6
MSCEE7510	75	1000	1080	40x6
MSCEE7520	75	2000	2080	40x6
MSCEE7530	75	3000	3080	40x6
MSCEE1010	100	1000	1080	50x6
MSCEE1020	100	2000	2080	50x6
MSCEE1030	100	3000	3080	50x6

**COPPER BONDED  
CHEMICAL EARTHING ELECTRODES**



Item code	ROD DIA (mm)	ROD LENGTH in (mm)	STRIP LENGTH in (mm)	STRIP Dimension in (mm)
MCBEE4010	40	1000	1080	25x6
MCBEE4020	40	2000	2080	25x6
MCBEE4030	40	3000	3080	25x6
MCBEE5010	50	1000	1080	32x6
MCBEE5020	50	2000	2080	32x6
MCBEE5030	50	3000	3080	32x6
MCBEE7510	75	1000	1080	40x6
MCBEE7520	75	2000	2080	40x6
MCBEE7530	75	3000	3080	40x6
MCBEE1010	100	1000	1080	50x6
MCBEE1020	100	2000	2080	50x6
MCBEE1030	100	3000	3080	50x6

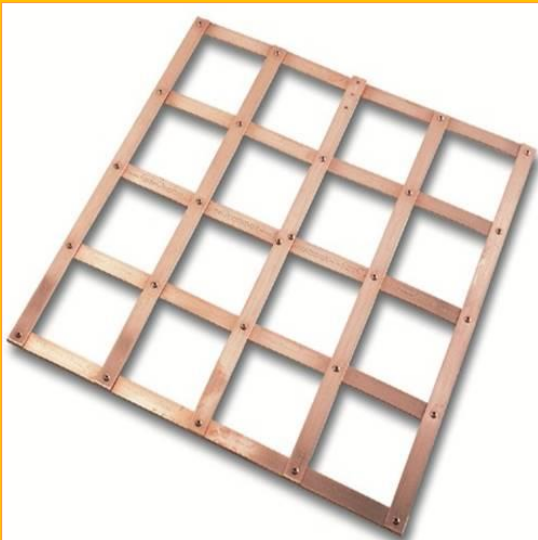
## HOT DIP GALVANIZED STEEL LATTICE EARTH MAT



Hot dip zinc galvanized coated steel solid flat bar conductor using in this earth mats that's gives for decades grounding solution. These solid copper bonded lattice mat design for telecommunication towers, lightning protection systems and renewable power grounding applications.

Part No. / Item Code	Solid Flat Bar			Conductor	Grids
	(LXWXH)			Size	No. of Flat Bars
MLG5253	500	500	3	25x3	5x5
MLG5326	500	500	6	32x6	5x5
MLG6253	600	600	3	25x3	5x5
MLG6326	600	600	6	32x6	5x5
MLG6406	600	600	6	40x6	5x5
MLG9253	900	900	3	25x3	5x5
MLG9326	900	900	6	32x6	5x5
MLG9406	900	900	6	40x6	5x5
MLG9506	900	900	6	50x6	7x7
MLG1253	1000	1000	3	25x3	5x5
MLG1326	1000	1000	6	32x6	5x5
MLG1406	1000	1000	6	40x6	6x6
MLG1506	1000	1000	6	50x6	7x7

## SOLID COPPER LATTICE EARTH MAT



Solid copper lattice mats gives long-life grounding protection specially design for telecommunication towers, lightning protection systems and renewable power grounding applications. These solid mats can easily installation

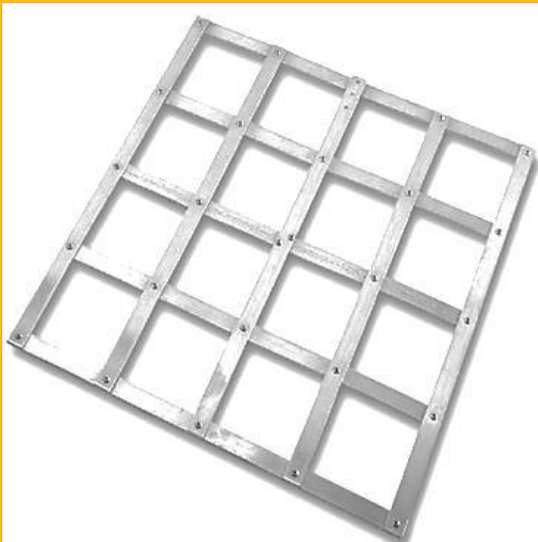
Part No. / Item Code	Solid Flat Bar			Conductor	Grids
	(LXWXH)			Size	No. of Flat Bars
MLC5253	500	500	3	25x3	5x5
MLC5326	500	500	6	32x6	5x5
MLC6253	600	600	3	25x3	5x5
MLC6326	600	600	6	32x6	5x5
MLC6406	600	600	6	40x6	5x5
MLC9253	900	900	3	25x3	5x5
MLC9326	900	900	6	32x6	5x5
MLC9406	900	900	6	40x6	5x5
MLC9506	900	900	6	50x6	7x7
MLC1253	1000	1000	3	25x3	5x5
MLC1326	1000	1000	6	32x6	5x5
MLC1406	1000	1000	6	40x6	6x6
MLC1506	1000	1000	6	50x6	7x7

## TINNED COPPER LATTICE EARTH MAT



Part No. / Item Code	Solid Flat Bar			Conductor	Grids
	(LXWXH)			Size	No. of Flat Bars
MLT5253	500	500	3	25x3	5x5
MLT5326	500	500	6	32x6	5x5
MLT6253	600	600	3	25x3	5x5
MLT6326	600	600	6	32x6	5x5
MLT6406	600	600	6	40x6	5x5
MLT9253	900	900	3	25x3	5x5
MLT9326	900	900	6	32x6	5x5
MLT9406	900	900	6	40x6	5x5
MLT9506	900	900	6	50x6	7x7
MLT1253	1000	1000	3	25x3	5x5
MLT1326	1000	1000	6	32x6	5x5
MLT1406	1000	1000	6	40x6	6x6
MLT1506	1000	1000	6	50x6	7x7

## STAINLESS STEEL LATTICE EARTH MAT



Part No. / Item Code	Solid Flat Bar			Conductor	Grids
	(LXWXH)			Size	No. of Flat Bars
MLS5253	500	500	3	25x3	5x5
MLS5326	500	500	6	32x6	5x5
MLS6253	600	600	3	25x3	5x5
MLS6326	600	600	6	32x6	5x5
MLS6406	600	600	6	40x6	5x5
MLS9253	900	900	3	25x3	5x5
MLS9326	900	900	6	32x6	5x5
MLS9406	900	900	6	40x6	5x5
MLS9506	900	900	6	50x6	7x7
MLS1253	1000	1000	3	25x3	5x5
MLS1326	1000	1000	6	32x6	5x5
MLS1406	1000	1000	6	40x6	6x6
MLS1506	1000	1000	6	50x6	7x7

Matrix Inc. offers high grade stainless steel specially design for high corrosive environment and acidic soil conditions. High grade stainless steel solid flat bar conductor using in this earth mats that's gives for permanent grounding solution. These solid copper bonded lattice mat design for telecommunication towers, lightning protection systems and renewable power grounding applications



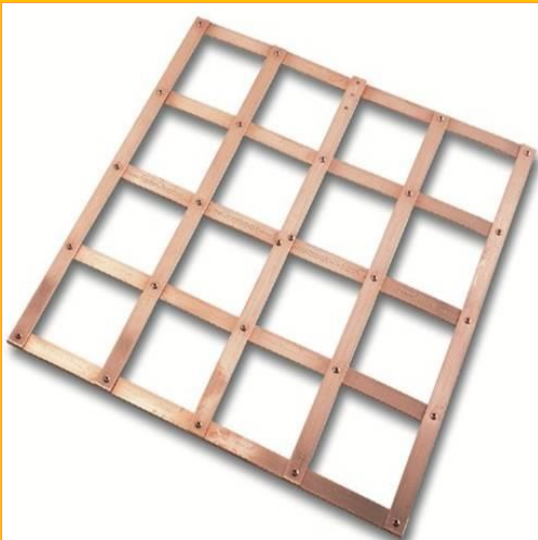
## ALUMINIUM LATTICE EARTH MAT



Part No. / Item Code	Solid Flat Bar			Conductor	Grids
	(LXLXW)			Size	No. of Flat Bars
MLG5253	500	500	3	25x3	5x5
MLG5326	500	500	6	32x6	5x5
MLG6253	600	600	3	25x3	5x5
MLG6326	600	600	6	32x6	5x5
MLG6406	600	600	6	40x6	5x5
MLG9253	900	900	3	25x3	5x5
MLG9326	900	900	6	32x6	5x5
MLG9406	900	900	6	40x6	5x5
MLG9506	900	900	6	50x6	7x7
MLG1253	1000	1000	3	25x3	5x5
MLG1326	1000	1000	6	32x6	5x5
MLG1406	1000	1000	6	40x6	6x6
MLG1506	1000	1000	6	50x6	7x7

## Copper Bonded Lattice Earth Mat

## COPPER BONDED LATTICE EARTH MAT



Part No. / Item Code	Solid Flat Bar			Conductor	Grids
	(LXWXH)			Size	No. of Flat Bars
MLCB5253	500	500	3	25x3	5x5
MLCB5326	500	500	6	32x6	5x5
MLCB6253	600	600	3	25x3	5x5
MLCB6326	600	600	6	32x6	5x5
MLCB6406	600	600	6	40x6	5x5
MLCB9253	900	900	3	25x3	5x5
MLCB9326	900	900	6	32x6	5x5
MLCB9406	900	900	6	40x6	5x5
MLCB9506	900	900	6	50x6	7x7
MLCB1253	1000	1000	3	25x3	5x5
MLCB1326	1000	1000	6	32x6	5x5
MLCB1406	1000	1000	6	40x6	6x6
MLCB1506	1000	1000	6	50x6	7x7

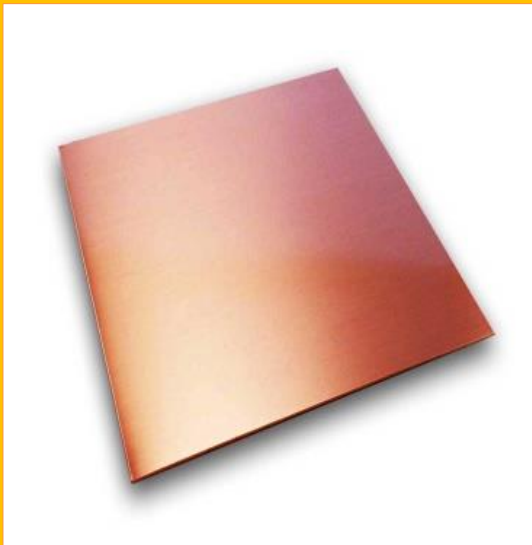
## HOT DIP GALVANIZED STEEL EARTH PLATE



Hot Dip Galvanized Iron Earthing Plate with microns coatings 80-120 microns as per IS: 2629 & 4759 Standards. These types of GI plates give shock resistance and high durability. Extensively used for domestic & industrial grounding purposes

Part No. / Item Code	Plate Size		
	Length	Width	Height
MGPE4415	450	450	3.0
MGPE4430	450	450	4.0
MGPE5515	500	500	3.0
MGPE5530	500	500	4.0
MGPE6615	600	600	3.0
MGPE6630	600	600	4.0
MGPE6650	600	600	5.0
MGPE6660	600	600	6.0
MGPE6612	600	600	12
MGPE9915	900	900	3.0
MGPE9930	900	900	4.0
MGPE1115	1000	1000	3.0
MGPE1130	1000	1000	4.0
MGPE1215	1200	1200	6.0
MGPE1230	1200	1200	12

## COPPER BONDED LATTICE EARTH MAT



Solid copper earthing Plate gives permanent grounding solutions where driving earth rods might be impractical. These Copper plates are preferred for its capability to provide superior heat transfer, thermal management and high strength in the involved processes with highly conductive metal.

Part No. / Item Code	Plate Size		
	Length	Width	Height
MGCBP4415	450	450	3.0
MGCBP4430	450	450	4.0
MGCBP5515	500	500	3.0
MGCBP5530	500	500	4.0
MGCBP6615	600	600	3.0
MGCBP6630	600	600	4.0
MGCBP6650	600	600	5.0
MGCBP6660	600	600	6.0
MGCBP6612	600	600	12
MGCBP9915	900	900	3.0
MGCBP9930	900	900	4.0
MGCBP1115	1000	1000	3.0
MGCBP1130	1000	1000	4.0
MGCBP1215	1200	1200	6.0
MGCBP1230	1200	1200	12

**SOLID COPPER EARTH PLATE**



Solid copper earthing Plate gives permanent grounding solutions where driving earth rods might be impractical. These Copper plates are preferred for its capability to provide superior heat transfer, thermal management and high strength in the involved processes with highly conductive metal.

Part No. / Item Code	Plate Size		
	Length	Width	Height
MGPE4415	450	450	3.0
MGPE4430	450	450	4.0
MGPE5515	500	500	3.0
MGPE5530	500	500	4.0
MGPE6615	600	600	3.0
MGPE6630	600	600	4.0
MGPE6650	600	600	5.0
MGPE6660	600	600	6.0
MGPE6612	600	600	12
MGPE9915	900	900	3.0
MGPE9930	900	900	4.0
MGPE1115	1000	1000	3.0
MGPE1130	1000	1000	4.0
MGPE1215	1200	1200	6.0
MGPE1230	1200	1200	12

## GI FLAT BAR



Hot dip galvanized Flat tape conductor zinc microns coating 60-120 gsm min, corrosion resistance and extra long-lasting used in Substations, control panels, earthing, lightning protection systems, Automation & renewable energy applications.

Part No. / Item Code	in mm	Average Weight
		KG/MTR
MGIF204	20 x 4	0.79
MGIF205	20 x 5	0.79
MGIF216	21 x 6	1.00
MGIF253	25 x 3	0.59
MGIF254	25 x 4	0.79
MGIF255	25 x 5	0.98
MGIF256	25 x 6	1.18
MGIF258	25 x 8	1.57
MGIF2510	25 x 10	1.9
MGIF2512	25 x 12	2.36
MGIF286	28 x 6	1.30
MGIF303	30 x 3	0.71
MGIF304	30 x 4.7	1.11
MGIF305	30 x 5	1.18
MGIF325	32 x 5	1.26
MGIF326	32 x 6	1.50
MGIF326	32 x 8	2
MGIF3210	32 x 10	2.50
MGIF3212	32 x 12	3
MGIF383	38 x 3	0.90
MGIF385	38 x 5	1.50
MGIF3812	38 x 12	3.60
MGIF404	40 x 4	1.26
MGIF405	40 x 5	1.57
MGIF406	40 x 6	1.90
MGIF408	40 x 8	2.50
MGIF4010	40 x 10	3.10
MGIF4012	40 x 12	3.77
MGIF4512	45 x 12	4.20
MGIF505	50 x 5	1.96
MGIF506	50 x 6	2.36
MGIF508	50 x 8	3.14
MGIF5010	50 x 10	3.90
MGIF5012	50 x 12	4.7

Part No. / Item Code	in mm	Average Weight
		KG/MTR
MGIF606	60 x 6	2.83
MGIF636	63 x 6	3
MGIF656	65 x 5	2.55
MGIF656	65 x 6	3.06
MGIF658	65 x 8	4.08
MGIF6510	65 x 10	5.1
MGIF6512	65 x 12	6.10
MGIF755	75 x 5	5.7
MGIF756	75 x 6	3.53
MGIF758	75 x 8	4.71
MGIF7510	75 x 10	5.89
MGIF7512	75 x 12	7.70
MGIF808	80 x 8	5.02
MGIF1005	100 x 5	3.93
MGIF1006	100 x 6	4.71

## GI FLAT STRIP PVC COVERED INSULATED



Hot dip galvanized Flat tape tape insulated with PVC Covered conductor zinc microns coating 60-120 gsm min, corrosion resistance and extra long-lasting used in Substations, control panels, earthing, lightning protection systems, Automation & renewable energy applications.

Part No. / Item Code	in mm	Average Weight	
		KG/M TR	KG/FT
MGP204	20 x 4	0.79	0.24
MGP205	20 x 5	0.79	0.24
MGP216	21 x 6	1.00	0.30
MGP253	25 x 3	0.59	0.19
MGP254	25 x 4	0.79	0.24
MGP255	25 x 5	0.98	0.30
MGP256	25 x 6	1.18	0.40
MGP258	25 x 8	1.57	0.50
MGP2510	25 x 10	1.9	0.6
MGP2512	25 x 12	2.36	0.70
MGP286	28 x 6	1.30	0.40
MGP303	30 x 3	0.71	0.22
MGP304	30 x 4.7	1.11	0.34
MGP305	30 x 5	1.18	0.40
MGP325	32 x 5	1.26	0.40
MGP326	32 x 6	1.50	0.50
MGP328	32 x 8	2	0.60
MGP3212	32 x 12	3	0.90
MGP383	38 x 3	0.90	0.30
MGP385	38 x 5	1.50	0.50
MGP3812	38 x 12	3.60	1.10
MGP404	40 x 4	1.26	0.38
MGP405	40 x 5	1.57	0.50
MGP406	40 x 6	1.90	0.60
MGP408	40 x 8	2.50	0.80
MGP4010	40 x 10	3.10	1.00
MGP1012	40 x 12	3.77	1.20
MGP4016	40 x 16	5.00	1.50
MGP4512	45 x 12	4.20	1.30
MGP505	50 x 5	1.96	0.60
MGP506	50 x 6	2.36	0.70
MGP508	50 x 8	3.14	1.00
MGP5010	50 x 10	3.90	1.20
MGP5012	50 x 12	4.7	1.40

# Matrix

High performance Electric Components

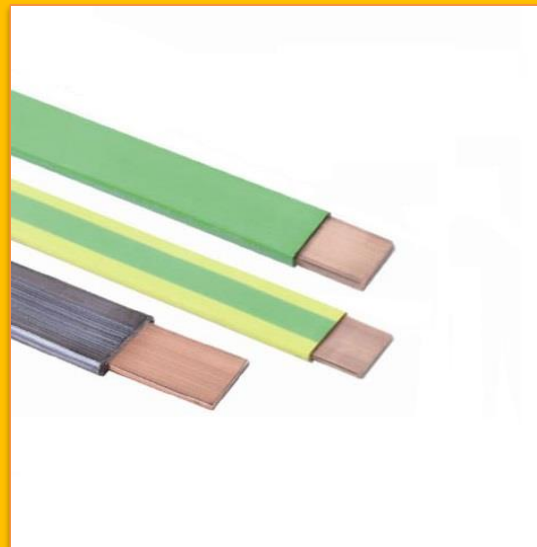
Part No. / Item Code	in mm	Average Weight	
		KG/MTR	KG/FT
MGP606	60 x 6	2.83	0.87
MGP636	63 x 6	3	0.9
MGP655	65 x 5	2.55	0.78
MGP656	65 x 6	3.06	0.93
MGP658	65 x 8	4.08	1.2
MGP6510	65 x 10	5.1	1.6
MGP6512	65 x 12	6.10	1.90
MGP6516	65 x 16	8.16	2.5
MGP755	75 x 5	5.7	1.7
MGP756	75 x 6	3.53	1.10
MGP758	75 x 8	4.71	1.4
MGP7510	75 x 10	5.89	1.8
MGP7512	75 x 12	7.70	2.10
MGP7516	75 x 16	9.42	2.90
MGP808	80 x 8	5.02	1.53
MGP8010	80 x 10	6.28	1.97
MGP1005	100 x 5	3.93	1.2
MGP1006	100 x 6	4.71	1.4

## COPPER BONDED FLAT STRIP



Part No. / Item Code	in mm	Average Weight	
		KG/MTR	KG/FT
MCBF253	25 x 3	0.59	0.64
MCBF256	25 x 6	1.18	1.26
MCBF303	30 x 3	0.71	0.84
MCBF326	32 x 6	1.50	1.61

## COPPER BONDED FLAT STRIP PVC COVERED INSULATED



Part No. / Item Code	in mm	Average Weight	
		KG/MTR	KG/FT
MCPF253	25 x 3	0.59	0.64
MCPF256	25 x 6	1.18	1.26
MCPF303	30 x 3	0.71	0.84
MCPF326	32 x 6	1.50	1.61

## COPPER FLAT STRIP PVC COVERED INSULATED



Copper Flat Tape PVC covered conductors are best conductor & high conductive, corrosion resistance and extra long-lasting used in grounding / earthing, lightning protection systems, Automation & renewable energy applications. These tapes high conductivity PVC covered copper tapes are used in both lightning protection and earthing applications for aesthetic purposes and additional protection.

Material: 96% High Conductivity Annealed Copper Tape; PVC UV Stabilised; Colours to BS 5252

Standards: IEC/BS EN 62561-2, BS EN 13601

# Matrix

High performance Electric Components

Part No. / Item Code	Flat	Weight	Meters
	(Weight X Height)	Metre / Per Kg	Each Coil
MCPV12515	12.5x1.5	0.17	100
MCPV1253	12.5x3	0.33	100
MCPV2015	20x1.5	0.27	100
MCPV203	20x3	0.53	100
MCPV2515	25x1.5	0.33	100
MCPV253	25x3	0.67	50
MCPV254	25x4	0.89	50
MCPV256	25x6	1.33	40
MCPV302	30x2	0.53	50
MCPV303	30x3	0.80	50
MCPV304	30x4	1.07	40
MCPV305	30x5	1.33	40
MCPV306	30x6	1.61	40
MCPV313	31x3	0.83	50
MCPV3154	31.5x4	1.13	40
MCPV316	31x6	1.65	30
MCPV383	38x3	1.01	50
MCPV385	38x5	1.69	30
MCPV386	38x6	2.02	25
MCPV403	40x3	1.06	40
MCPV404	40x4	1.42	30
MCPV405	40x5	1.78	25
MCPV406	40x6	2.16	25
MCPV4063	40x6.3	2.24	25
MCPV504	50x4	1.78	30
MCPV505	50x5	2.22	20
MCPV506	50x6	2.68	20

## Bare Aluminium Flat Bar



Aluminum Tapes are best conductor & anti-corrosion and long-lasting used in grounding / earthing, lightning protection systems, Automation & renewable energy applications

**Material : Aluminum**

**Grade:BS2898-1350 / 6000 Series**

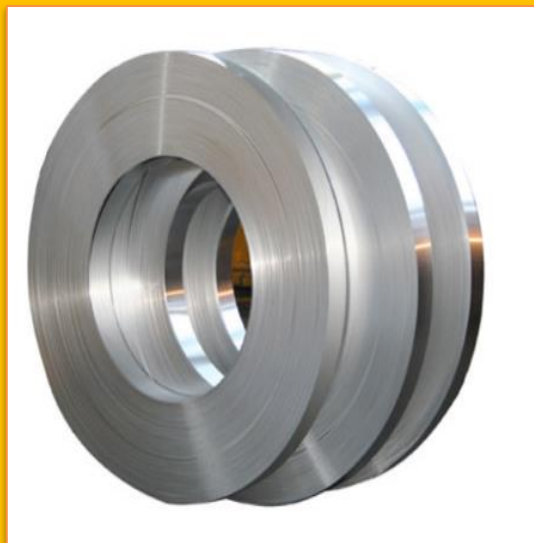
**Strength :27K**

**Finished : Mill**

- Suitable conductor for earthing and lightning Protection systems.
- Highly corrosion resistance.
- High strength.
- Permanent.
- Long-lasting.
- High conductivity.

Part No. / Item Code	Flat	Weight	Length	Packing
	(Weight X Height)	Meter / Per Kg	Flats	No's of Flats
MAFT1215	12X1.5	0.05	6 Meters Bare Flats	20 Nos
MAFT1253	12.5X3	1.10		20 Nos
MAFT192	19X2	0.11		20 Nos
MAFT201	20X1	0.05		20 Nos
MAFT2015	20X1.5	0.08		20 Nos
MAFT203	20X3	0.17		20 Nos
MAFT2515	25X1.5	0.10		20 Nos
MAFT253	25X3	0.21		20 Nos
MAFT254	25X4	0.28		20 Nos
MAFT256	25X6	0.42		20 Nos
MAFT303	30X3	0.25		20 Nos
MAFT306	30X6	0.50		20 Nos
MAFT383	38X3	0.32		20 Nos
MAFT385	38X5	0.53		20 Nos
MAFT386	38X6	0.63		20 Nos
MAFT403	40X3	0.34		20 Nos
MAFT404	40X4	0.44		20 Nos
MAFT406	40X6	0.68		20 Nos
MAFT503	50X3	0.42		20 Nos
MAFT504	50X4	0.56		20 Nos
MAFT506	50X6	0.85	20 Nos	
MAFT508	50X8	1.13	20 Nos	
MAFT603	60X3	0.51	20 Nos	
MAFT604	60X4	0.68	20 Nos	
MAFT606	60X6	1.02	20 Nos	
MAFT806	80X6	1.36	20 Nos	

## Bare Aluminium Flat Strip



Part No. / Item Code	Flat	Weight	Length	Packing
	(Weight X Height)	Meter / Per Kg	Flats	No's of Coils
MAFTC203	20X3	0.17	25-30 Meters Coil	5 Nos
MAFTC2515	25X1.5	0.10		5 Nos
MAFTC253	25X3	0.21		5 Nos
MAFTC254	25X4	0.28		5 Nos
MAFTC256	25X6	0.42		5 Nos
MAFTC303	30X3	0.25		5 Nos
MAFTC306	30X6	0.50		5 Nos
MAFTC403	40X3	0.34		5 Nos
MAFTC404	40X4	0.44		5 Nos
MAFTC406	40X6	0.68		5 Nos
MAFTC503	50X3	0.42		5 Nos
MAFTC504	50X4	0.56		5 Nos



## Aluminium Flat Tape PVC Covered Insulated



Aluminum Tapes PVC sleeves of 1mm thick covered is best conductor & anti-corrosion and long-lasting used in grounding / earthing, lightning protection systems, Automation & renewable energy applications

Part No. / Item Code	Flat	Weight	Length	Packing
	(Weight X Height)	Meter / Per Kg	Flats	No's of Flats
MAPV1215	12X1.5	0.05	6 Meters Flats	20 Nos
MAPV1253	12.5X3	1.10		20 Nos
MAPV192	19X2	0.11		20 Nos
MAPV201	20X1	0.05		20 Nos
MAPV2015	20X1.5	0.08		20 Nos
MAPV203	20X3	0.17		20 Nos
MAPV2515	25X1.5	0.10		20 Nos
MAPV253	25X3	0.21		20 Nos
MAPV254	25X4	0.28		20 Nos
MAPV256	25X6	0.42		20 Nos
MAPV303	30X3	0.25		20 Nos
MAPV306	30X6	0.50		20 Nos
MAPV383	38X3	0.32		20 Nos
MAPV385	38X5	0.53		20 Nos
MAPV386	38X6	0.63		20 Nos
MAPV403	40X3	0.34		20 Nos
MAPV404	40X4	0.44		20 Nos
MAPV406	40X6	0.68		20 Nos
MAPV503	50X3	0.42		20 Nos
MAPV504	50X4	0.56		20 Nos
MAPV506	50X6	0.85	20 Nos	

## Aluminium Strip Coil PVC Covered Insulated



Part No. / Item Code	Flat	Weight	Length	Packing
	(Weight X Height)	Meter / Per Kg	Flats	No's of Coils
MAFTC203	20X3	0.17	25-30 Meters Coil	5 Nos
MAFTC2515	25X1.5	0.10		5 Nos
MAFTC253	25X3	0.21		5 Nos
MAFTC254	25X4	0.28		5 Nos
MAFTC256	25X6	0.42		5 Nos
MAFTC303	30X3	0.25		5 Nos
MAFTC306	30X6	0.50		5 Nos
MAFTC403	40X3	0.34		5 Nos
MAFTC404	40X4	0.44		5 Nos
MAFTC406	40X6	0.68		5 Nos
MAFTC503	50X3	0.42		5 Nos
MAFTC504	50X4	0.56		5 Nos



Bare copper Tapes are best conductor & high conductive, corrosion resistance and long-lasting used in grounding / earthing, lightning protection systems, Automation & renewable energy applications

Part No. / Item Code	Flat	Weight	Meters
	(Weight X Height)	Meter / Per Kg	Each Coil
MBCT12515	12.5x1.5	0.17	100
MBCT1253	12.5x3	0.38	100
MBCT2015	20x1.5	0.27	100
MBCT203	20x3	0.53	100
MBCT2515	25x1.5	0.33	100
MBCT253	25x3	0.76	50
MBCT254	25x4	0.89	50
MBCT256	25x6	1.52	40
MBCT302	30x2	0.53	50
MBCT303	30x3	0.80	50
MBCT304	30x4	1.07	40
MBCT305	30x5	1.33	40
MBCT306	30x6	1.61	40
MBCT313	31x3	0.83	50
MBCT3154	31.5x4	1.13	40
MBCT316	31x6	1.65	30
MBCT383	38x3	1.14	50
MBCT385	38x5	1.71	30
MBCT386	38x6	2.28	25
MBCT403	40x3	1.06	40
MBCT404	40x4	1.42	30
MBCT405	40x5	1.78	25
MBCT406	40x6	2.16	25
MBCT4063	40x6.3	2.24	25
MBCT504	50x4	1.78	30
MBCT505	50x5	2.26	20
MBCT506	50x6	3.04	20
MBCT5063	50x6.3	2.80	20
MBCT507	50x7	3.12	20
MBCT508	50x8	3.57	20
MBCT5010	50x10	4.46	20
MBCT5012	50x12	5.35	20
MBCT605	60x5	2.68	20
MBCT606	60x6	3.21	15
MBCT608	60x8	4.28	15
MBCT6310	63x10	5.62	15
MBCT656	65x6	3.48	15
MBCT706	70x6	4.01	12
MBCT756	75x6	4.56	12
MBCT7512	75x12	9.13	12
MBCT806	80x6	9.78	12

## HARD DRAWN COPPER FLAT



Can be used for bespoke earth bars used with Omega channel base, insulators, setscrews, nuts, washers, etc.

Material: 96.% High Conductivity Copper Tape  
Standards: IEC/BS EN 12163

Part No. / Item Code	Flat	Weight	Meters	Packing
	(Weight X Height)	Meter / Per Kg	Length	Flat Bars
MHDC12515	12.5x1.5	0.17	3-6 Meters	5-10 Flats Bars Packing
MHDC1253	12.5x3	0.33		
MHDC2015	20x1.5	0.27		
MHDC203	20x3	0.53		
MHDC2515	25x1.5	0.33		
MHDC253	25x3	0.67		
MHDC254	25x4	0.89		
MHDC256	25x6	1.33		
MHDC302	30x2	0.53		
MHDC303	30x3	0.80		
MHDC304	30x4	1.07		
MHDC305	30x5	1.33		
MHDC306	30x6	1.61		
MHDC313	31x3	0.83		
MHDC3154	31.5x4	1.13		
MHDC316	31x6	1.65		
MHDC383	38x3	1.01		
MHDC385	38x5	1.69		
MHDC386	38x6	2.02		
MHDC403	40x3	1.06		
MHDC404	40x4	1.42		
MHDC405	40x5	1.78		
MHDC406	40x6	2.16		
MHDC4063	40x6.3	2.24		
MHDC504	50x4	1.78		
MHDC505	50x5	2.22		
MHDC506	50x6	2.68		

## BARE COPPER STRIP



Part No. / Item Code	Flat	Weight	Meters	Packing
	(Weight X Height)	Metre / Per Kg	Each Coil	No's of Coils
MCFT203	20x3	0.53	100	5 Coils
MCFT253	25x3	0.72	50	5 Coils
MCFT254	25x4	0.89	50	5 Coils
MCFT256	25x6	1.33	40	5 Coils
MCFT302	30x2	0.53	50	5 Coils
MCFT303	30x3	0.80	50	5 Coils
MCFT304	30x4	1.07	40	5 Coils
MCFT305	30x5	1.33	40	5 Coils
MCFT306	30x6	1.61	40	5 Coils
MCFT316	31x6	1.65	30	5 Coils
MCFT383	38x3	1.01	50	5 Coils
MCFT385	38x5	1.69	30	5 Coils
MCFT386	38x6	2.02	25	5 Coils
MCFT403	40x3	1.06	40	5 Coils
MCFT404	40x4	1.42	30	5 Coils

## Tinned Copper Flat



High conductivity annealed tinned copper tapes are used in both lightning protection and earthing applications as the primary conductor.

Material: 96.% High Conductivity Copper Tape  
Standards: IEC/BS EN 62561-2, BS EN 13601

Part No. / Item Code	Flat	Weight	Length	Packing
	(Weight X Height)	Meter / Per Kg	Flats	No's of Flats
MCTF105	10x5	0.45	3-6 Meters Bare Flats	20 Nos
MCTF155	15x5	0.67		20 Nos
MCTF166	16x6	0.86		20 Nos
MCTF203	20x3	0.54		20 Nos
MCTF204	20x4	0.71		20 Nos
MCTF205	20x5	0.89		20 Nos
MCTF2010	20x10	1.78		20 Nos
MCTF253	25x3	0.67		20 Nos
MCTF254	25x4	0.89		20 Nos
MCTF255	25x5	1.11		20 Nos
MCTF256	25x6	1.34		20 Nos
MCTF305	30x5	1.33		20 Nos
MCTF306	30x6	1.61		20 Nos
MCTF3010	30x10	2.67		5 Nos
MCTF326	32x6	1.61		5 Nos
MCTF403	40x3	1.07		5 Nos
MCTF405	40x5	1.78		5 Nos
MCTF406	40x6	2.16		5 Nos
MCTF4010	40x10	3.56		5 Nos
MCTF504	50x4	1.78		5 Nos
MCTF505	50x5	2.24		5 Nos
MCTF506	50x6	2.68		5 Nos
MCTF508	50x8	3.57		5 Nos
MCTF5010	50x10	4.48		5 Nos
MCTF605	60x5	2.67		5 Nos
MCTF6010	60x10	5.36		5 Nos
MCTF755	75x5	3.35		5 Nos
MCTF756	75x6	4.01		5 Nos
MCTF806	80x6	4.29		5 Nos
MCTF808	80x8	5.71		5 Nos
MCTF8010	80x10	7.12		5 Nos
MCTF104	100x4	3.57		5 Nos
MCTF105	100x5	4.46	5 Nos	
MCTF106	100x6	5.35	5 Nos	
MCTF1010	100x10	8.94	5 Nos	
MCTF1012	100x12	10.70	5 Nos	



Stainless Steel Tapes PVC Covered are best conductor & anti-corrosion and long-lasting used in grounding / earthing, lightning protection systems, Automation, Constructions, Infrastructures & renewable energy applications

**Grades:**

202/302/304/304L/316

Part No. / Item Code	Flat	Weight	Length	Packing
	(Weight X Height)	Metre / Per Kg	Flats	No's of Flats
MSPV203	20 X 3	0.47	3/6m	5 Nos
MSPV205	20 X 5	0.79	3/6m	5 Nos
MSPV206	20 X 6	0.94	3/6m	5 Nos
MSPV208	20 X 8	1.26	3/6m	5 Nos
MSPV2010	20 X 10	1.57	3/6m	5 Nos
MSPV253	25 X 3	0.59	3/6m	5 Nos
MSPV254	25 X 4	0.79	3/6m	5 Nos
MSPV255	25 X 5	0.98	3/6m	5 Nos
MSPV256	25 X 6	1.30	3/6m	5 Nos
MSPV258	25 X 8	1.57	3/6m	5 Nos
MSPV303	30 X 3	0.71	3/6m	5 Nos
MSPV304	30 X 4	0.94	3/6m	5 Nos
MSPV305	30 X 5	1.18	3/6m	5 Nos
MSPV306	30 X 6	1.50	3/6m	5 Nos
MSPV308	30 X 8	1.88	3/6m	5 Nos
MSPV403	40 X 3	0.95	3/6m	5 Nos
MSPV405	40 X 5	1.57	3/6m	5 Nos
MSPV406	40 X 6	1.90	3/6m	5 Nos
MSPV408	40 X 8	2.51	3/6m	5 Nos
MSPV4010	40 X 10	3.20	3/6m	5 Nos
MSPV503	50 X 3	1.18	3/6m	5 Nos
MSPV504	50 X 4	1.57	3/6m	5 Nos
MSPV505	50 X 5	1.96	3/6m	5 Nos
MSPV506	50 X 6	2.50	3/6m	5 Nos
MSPV508	50 X 8	3.14	3/6m	5 Nos
MSPV756	75 X 6	3.54	3/6m	5 Nos
MSPV758	75 X 8	4.71	3/6m	5 Nos
MSPV1006	100 X 6	4.71	3/6m	5 Nos



### Ground enhancing material:

- 1) As it has low resistivity, high water absorption and water holding performance, Earthing Compound (Ground Enhancing Material, earth improving powder) is good and stable in resistance reduction
- 2) As it is good in corrosion resistance and stability, it is well in protection of grounding network, so it can be working effectively for a long time
- 3) As it is good in impact and uniform pressure, it will not only reduce the working frequency grounding resistance, it also reduce the impact grounding resistance. It not only works well in small and medium size grounding network, it also can work well in large grounding network. It can function as reducing resistance, but also it can be good in corrosion resistance and uniform pressure
- 4) High efficient Bentonite resistance reduction agent is verified as no pollution in the process of reducing resistance and no harm to human body after checked strictly by environmental department for manufacturing process, operations, sample and applications
- 5) After agent is applied around the grounding units, it is equal to increase the effective cross section of grounding units for resistance reduction, so it functions well in the aspect of pressure reduction and reduce the step voltage and contact voltage from equipment

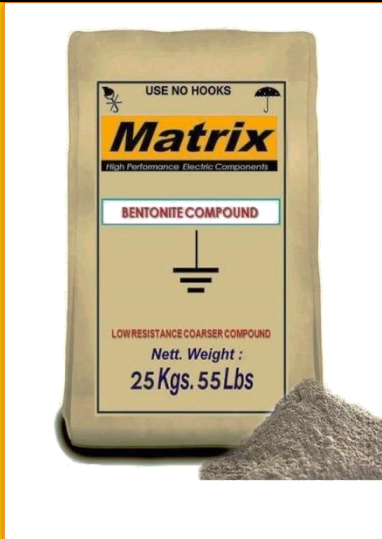
## Low Resistance Backfill Material



### Ground enhancing material:

- 1) As it has low resistivity, high water absorption and water holding performance, Earthing Compound (Ground Enhancing Material, earth improving powder) is good and stable in resistance reduction
- 2) As it is good in corrosion resistance and stability, it is well in protection of grounding network, so it can be working effectively for a long time
- 3) As it is good in impact and uniform pressure, it will not only reduce the working frequency grounding resistance, it also reduce the impact grounding resistance
- 4) It not only works well in small and medium size grounding network, it also can work well in large grounding network. It can function as reducing resistance, but also it can be good in corrosion resistance and uniform pressure
- 5) High efficient Bentonite resistance reduction agent is verified as no pollution in the process of reducing resistance and no harm to human body after checked strictly by environmental department for manufacturing process, operations, sample and applications
- 6) After agent is applied around the grounding units, it is equal to increase the effective cross section of grounding units for resistance reduction, so it functions well in the aspect of pressure reduction and reduce the step voltage and contact voltage from equipment

## BENTONITE COMPOUND



These high grade Bentonite material mostly using for electrical earthing worldwide because excellent properties of swelling also makes sodium Bentonite useful as a sealant, since it provides a self-sealing, low permeability barrier. absorbing as much as several times its dry mass gives best result of backfilling applications.

## BENTONITE GRANULES



High quality low resistance Bentonite granules specialized and ideal for poor soil condition high resistivity ground areas.

## RCC Pit Chamber

### EARTH PIT INSPECTION CHAMBER

### RCC CHAMBER

Matrix incorporation design concrete inspection housing chambers for higher load capabilities we tested internally as per the test procedure for concrete earth pits in BS EN 50164-5-2009. The required load is 40kN but our test passed 84 kN without any defection, breaks, deformation or failure. We could test only to 84 kN as our hydraulic power pack is limited to that load. with such a superior product which far exceeds the specification for heavy weight capable of 45 kN by about 1.8 times due to loading limitations. Its also easy lifting available with a central hook, its suitable for all earthing and lightning protection installations.

DESCRIPTION	DETAILS
Material	Concrete Cement
Color	Grey
Height (H)	152 mm
Length (L)	392 mm
Width (W)	392 mm
Unit Weight	29.5 kg Approx
Standard Packaging Quantity	Dry husk with paper cartoon box Shrink wrapped packed  Wooden Box packing for export consignments
Shape	Square



### Dimension

Width (W) : 320 mm

Length (L) : 320 mm

Height (H) : 192 mm

Weight : 33 Kgs

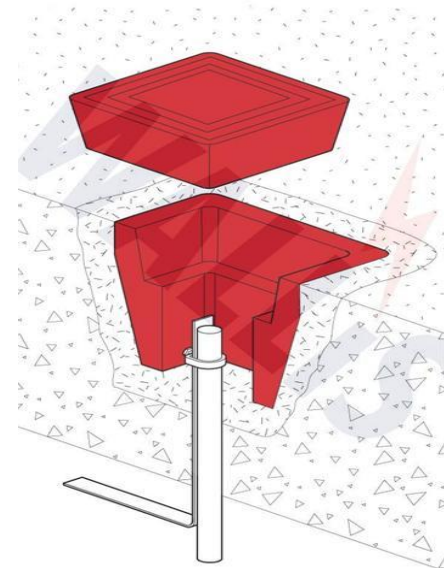
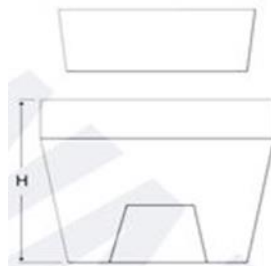
### **Busbar Supports Sizes :**

- 25mmX3mm
- 32mmX6mm
- 35mmX6mm
- 40mmX6mm

### **Features :**

- Bus Bar Support
- Pit Cover Iron Handle
- Handle housing
- Foot Gripping Pattern

**Item Code:** MRCC100





### HEAVY DUTY EARTH PIT INSPECTION HOUSINGS FRP /POLYPLASTIC CHAMBER

The 'lightweight' (10kg) but heavy duty earth housing has the best safe working load performance in the industry. It has been designed, shaped and sized to fit easily into Crushed Gravels aggregates / brick paved walkways. The lip of the base makes a flush fit with standard-sized bricks, making the housing blend in without the need for a cement surround. The housing will withstand loads of up to 6,000 kgs and is suitable for most commercial and industrial applications. The lid locks into the base and can be opened with a standard flat screwdriver. The base has three built-in slots for locating earth bars.

Description	Details
Material	FRP
Color	Black / Green
Load Rating	0.17 kg/cm <sup>2</sup>
Diameter, Grade Level (DG)	260 mm
Outer Diameter (OD)	392 mm
Height (H)	254 mm
Unit Weight	3.5 kg
Shape	Round / Square
Standard Packaging Quantity	Cartoon Box packing

#### Dimension

Top Dia (R) : 254mm  
Bottom Dia (R) : 330 mm  
Height (H) : 320 mm  
Weight : 10 Kgs

#### **Busbar Supports Sizes :**

- 25mmX3mm
- 32mmX6mm
- 40mmX6mm

#### **Features :**

- Bus Bar Support
- Self Locking
- Handle housing
- Foot Gripping Pattern

**Item Code: MAT-FRP300**



**HEAVY DUTY EARTH PIT INSPECTION HOUSINGS**  
**POLYPROPYLENE HARD MATERIAL CHAMBER**

We are offering a wide range of Earth Pit Cover Hi Grade Polypropylene, HD PVC Chamber to our clients. These products are manufactured using superior quality of raw material. These products are in huge demand and are widely appreciated for their durability, efficiency and good quality. Environment friendly, rust proof, heavy duty, weather proof Poly plastic earth pit chamber. heavy duty earth housing with cover. The lip of the base makes a flush fit with standard-sized bricks / Natural gravels / Crushed Gravels 20-50mm, making the housing blend in without the need for a cement surround. The housing will withstand loads of up to 6-10 MT and is suitable for most commercial and industrial applications. The lid locks into the base and can be opened with a standard flat screwdriver. The base has three built-in slots for locating earth bars.

DESCRIPTION	DETAILS
Material	High-Impact Polypropylene
Height (H)	220 mm
Length (L)	245 mm
Width (W)	210 mm
Unit Weight	3.5 kg
Packaging	Cartoon Box Packing

**Dimension**

Top Dia (R) : 245mm  
Bottom Dia (R) : 210 mm  
Height (H) : 220mm  
Weight : 3.5 Kgs

**Busbar Supports Sizes :**

- 25mmX3mm
- 32mmX6mm
- 35mmX6mm
- 40mmX6mm

**Features :**

- Bus Bar Support
- Pit Cover Handle
- Handle housing
- Foot Gripping Pattern



**Item Code: MPPC500**

**HEAVY DUTY EARTH PIT INSPECTION**

**CAST IRON / DUCTILE IRON CHAMBERS**

we are providing a high-quality range of Cast Iron Spheroid Graphite' or 'Ductile Iron' is a unique form of Iron. which prior to the metal casting process receives crucial mineral additives to produce an exceptionally strong resistance and durable metal, the molecular structure of 'Ductile Iron' gives rise to excellent additional strength and shock load resistance, within structure carbon steel, without steel inheriting corrosion. In today's roads, Covers & Gratings are required to carry increasingly heavy and fast moving traffic, yet the need to keep the roads in service, places free from accidents and theft, additional demands on those Covers and Gratings in terms of speed and ease of access for maintenance of services is essential. 'Ductile Iron' Manhole Covers.

DESCRIPTION	DETAILS
Material	Cast Iron / Ductile Iron
Height (H)	36mm
Length (L)	450 mm
Width (W)	450 mm
Unit Weight	4.5 kg
Packaging	Jute Bag Packing

**Busbar Supports Sizes :**

- Any Size Suitable

**Features :**

- Pit Cover Handle
- Foot Gripping Pattern
- Fine finish
- Rugged design
- Optimal durability
- Light Weight, More
- Strength Very Easy to Handle More Load
- Bearing Capacity

**Cover Dimension**

- 450x450
- 450x600
- 450x900
- 600x900
- Supplying with bottom supporting frames.

**Item Code:** MCIP500

Material : Iron/Ductile Iron

Coating : Black Bitumen



Note: Square / Rectangle & Round Shape Available as per Client Requirement.

# 1.

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## CONVENTIONAL & ESE TYPE LIGHTNING PROTECTION SYSTEM

# **Matrix**

High performance Electric Components

## ***Lightning Protection Systems***

***ESE Lightning Protection System***

***Conventional Lightning Protection System***



Lightning Protection

### **MATRIX INCORPORATION**

(Quality Management System ISO 9001 : 2015, ANSI, CE, RoHS, NABL Certified Company)

Manufacturing | Installations | Supply | Testing | Consulting | Engineering | Contracting

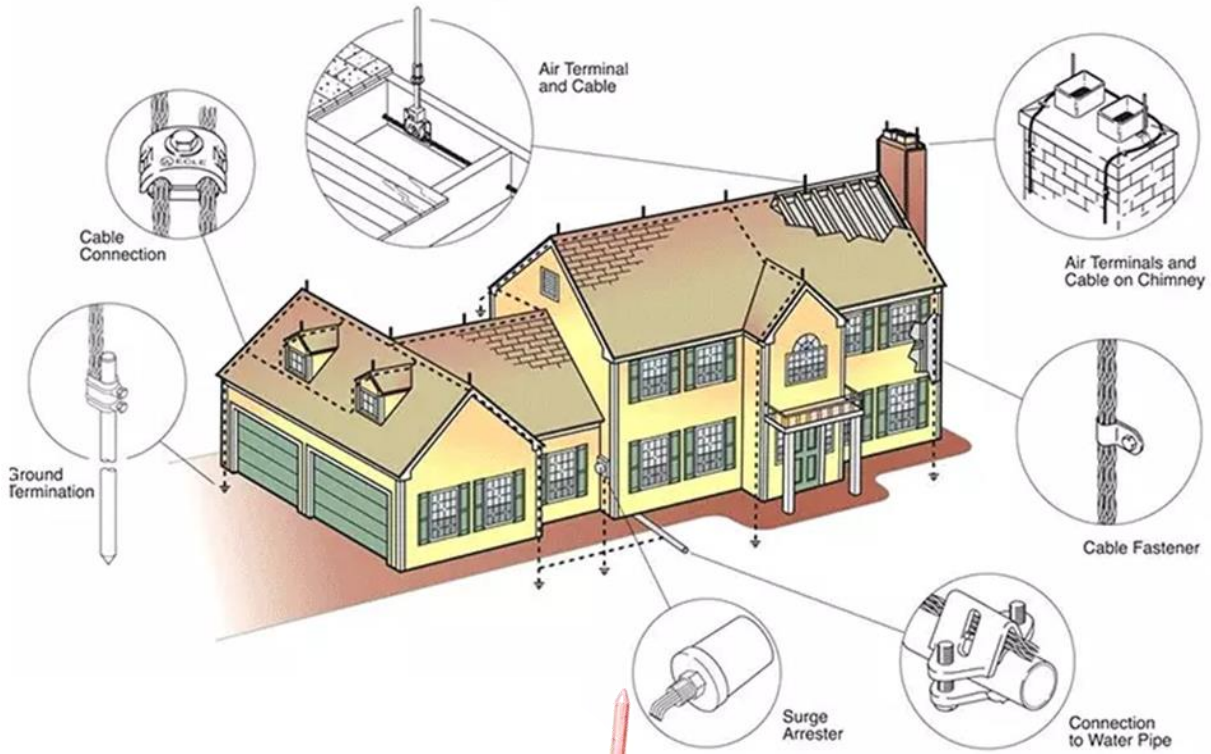
# Matrix

High performance Electric Components

# MATRIX INCORPORATION

(Quality Management System ISO 9001 : 2015, ANSI, CE, RoHS, NABL Certified Company)

Manufacturing | Installations | Supply | Testing | Consulting | Engineering | Contracting



Lightning Arrester is used for protecting the buildings to avoid lightning strike. Lightning Rod plays an important part of the air termination network of a lightning protection system. We are professional lightning rod manufacturer.

Lightning arrester, alternate named lightning protection devices, used for protecting the building when raining and lightning .The lightning rod installed on the building and transfer the electric to earthing metal to protect the building . Our SLE lightning rod comply with GB standard . Customized lightning rod available.



Material	Copper or Brass or Copper Clad Steel or Stainless Steel
Size	according to customer's requirement
Characters	Easy installation, long life

Description	Size	Material
Lightning rod	Dia7mmxL250mm	copper clad steel or stainless steel
Three point needle	Dia7mmxL9mm	
Ball	Dia18mm	
Holder	Dia85mmxH60mm	
Base	100mmx100mmx2mm	
Total Height	370m	

A)The installation of lightning rod

Matters need attention during installation:

- (1)The lightning rod and other metal part on the building should connected together;
- (2)No low voltage cable or communication cable installed on the rod

(B)Installation of earthing tape and earthing grid

1. Installation of exposed earthing tape (grid) :Installed at the ridge ,eave(abat-vent) or edge of roof

(1)Installation at the concrete base of roof :The base can be made with the roof together ,and fixed to the roof.

(2) Installation on the parapet wall or gutter bracket

Installed along parapet wall and fixed with bracket ,and the bracket should be installed earlier .The working height of bracket should be less than 150mm . The bracket for direct line should be first and then for the middle .The bracket should be 0.25-0.5m away to the turning point if turning needed . The horizontal spacing of bracket is 1-1.5m ,and vertical interval is 1.5-2m and even distribution

(3) Installation at ridge ,eave or edge of roof

Use concrete base or bracken

If make the base on site , please remove the corner of ridge tile first ,and make the bracket and ridge tile together;

The bracket should be 0.25-0.5m away to the turning point if turning needed . The horizontal spacing of bracket is 1-1.5m ,and vertical interval is 1.5-2m and even distribution.

## LIGHTNING ARRESTORS



Lightning And Surge Protection is used for protecting the buildings to avoid lightning strike. Lightning rod grounding plays an important part of the air termination network of a lightning protection system. We are professional lightning rod manufacturer.

Building Lightning Rod, alternate named lightning protection devices, used for protecting the building when raining and lightning .The lightning rod installed on the building and transfer the electric to earthing metal to protect the building . Our SLE lightning rod comply with GB standard . Customized lightning rod available.

**1. Winding: There** is a large protection area without winding. For example, when the winding rate less than 0.001%, (Apparently at such circumstance, the object protected has little opportunity to be winded.) and the protection up to 55 ° angle, compared to the traditional real lightning rod, controllable discharging lightning rod almost has no opportunity to be winded.

**2. Scope of protection:** When the protected object attacked by around 0.1%, (currently a point of order under the allowable value), controllable discharging lightning rod up to 66.4 ° angle, but traditional lightning rod is much more smaller than that. (Take the traditional lightning rod is more economical at strong intensive thunder area, while there still has opportunity that be struck by lightning).

**3. Efficiency and application prospects:** Controllable lightning rod is a widely used protection device with wide application prospects, with a high using value.

Rod Length	Rod diameter	Thread	Material
500mm	15mm	M16	Brass,copper
1000mm	15mm	M16	Brass,copper
1500mm	15mm	M16	Brass,copperl
Avaible Dia:8mm-25mm; Length:300mm-2000mm			
Base	Conductor size	Rod diamter	Material
1	50-95mm <sup>2</sup> wire	15mm	Brass
2	25mmx3mm copper tape	15mm	Brass
Three Point Needle	Nos	Rod	Material
1	3	15mm	Brass,copper

A)The installation of lightning rod

Matters need attention during installation:

(1)The lightning rod and other metal part on the building should connected together;

(2)No low voltage cable or communication cable installed on the rod

(B)Installation of earthing tape and earthing grid

1. Installation of exposed earthing tape (grid) :Installed at the ridge ,eave(abat-vent) or edge of roof

(1)Installation at the concrete base of roof :The base can be made with the roof together ,and fixed to the roof.

(2) Installation on the parapet wall or gutter bracket

Installed along parapet wall and fixed with bracket ,and the bracket should be installed earlier .The working height of bracket should be less than 150mm . The bracket for direct line should be first and then for the middle .The bracket should be 0.25-0.5m away to the turning point if turning needed . The horizontal spacing of bracket is 1-1.5m ,and vertical interval is 1.5-2m and even distribution

(3) Installation at ridge ,eave or edge of roof

Use concrete base or bracke

If make the base on site , please remove the corner of ridge tile first ,and make the bracket and ridge tile together;

The bracket should be 0.25-0.5m away to the turning point if turning needed . The horizontal spacing of bracket is 1-1.5m ,and vertical interval is 1.5-2m and even distribution.



## ESE LIGHTNING SYSTEM



Lightning rods are used to protect power plants, substation electrical installations, individual sections of transmission lines, and industrial and civil high-rise buildings. The lightning rod is directly grounded. The height of the needle is higher than that of the line. During the process of the lightning pilot circuit extending to the ground, due to the impact of the lightning rod power plant, it will gradually turn to and hit the lightning rod, thus avoiding the development of lightning directed to the protected equipment. Ideal equipment for direct lightning strikes.

### Main technical parameters

MODEL	3.1	3.3	4.3	5.3
LEVEL I	25M	45M	54M	63M
LEVEL II	43M	65M	74M	84M
LEVEL III	50M	75M	85M	95M

#### Technical data:

- Electronic ESE (Early Streamer Emission) lightning air terminal
- Tested and certified to NF C 17-102:2011 by accredited independent laboratory Early streamer emission time: 45  $\mu$ s
- Radius of protection (h=5 m, Level IV of protection): 89 m
- Maximum withstand lightning discharge current, Iimp (10/350  $\mu$ s): 200 kA
- Material: stainless steel grade 316
- Enclosure rate: IP 67

#### Characteristics And Advantages:

1. 100% effective in dealing with discharge
2. Electrical continuity guaranteed. Carries lightning current without resistance
3. NON- Electronic lightning rod ensuring its long life.
4. Technical qualities remain unaffected after each strike
5. With NO Electronics, so there is no risk of melting
6. NO External Power supply is required
7. Ensuring its effective operation after each lightning strike.
8. NO special MAINTENANCE is needed.

#### Materials:

1. Main structure made of stainless steel AISI 316
  2. Deflector set made of EPOXY resin
- Ensuring its effective operation whatever conditions are.

## Hot Dip Galvanized Steel Solid Round Conductor



Type	Dia	PACKING
Round	8mm	Coil
Round	10mm	Coil

## Hot Dip Galvanized Steel Bare Flat Tape



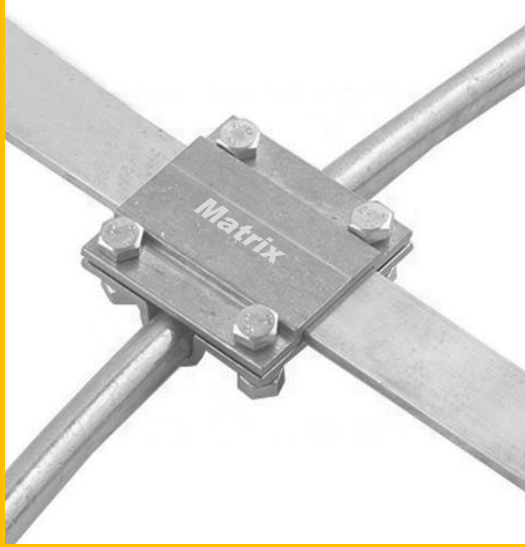
WIDTH	HEIGHT	PACKING
25mm	3mm	Coil
30mm	4mm	Coil

## Earth Fixed Terminal Clamp



Top Conductor	Bottom conductor	PACKING
8-20mm	12-25mm	Box

## Hot Dip Galvanized Steel Tape Conductor Square Clamp



Conductor	Tape	PACKING
6-12mm	25x3mm	Box
10-15mm	25x6mm	Box
15-20mm	30x4mm	Box
15-20mm	32x3mm	Box

## Hot Dip Galvanized Steel Tape to Tape Conductor Square Clamp



Tape	Tape	PACKING
25x3mm	25x3mm	Box
25x6mm	25x6mm	Box
30x4mm	30x4mm	Box
32x3mm	32x3mm	Box
32x6mm	32x6mm	Box

## Hot Dip Galvanized Steel Round Conductor To Conductor Fixed Clamp



Conductor mm2	Tape	PACKING
8-50mm	Aluminium / GI / Copper	Box

## Hot Dip Galvanized Steel Tape Rebar Clamp



Rebar	Tape	PACKING
16-25mm	25x3mm	Box
16-25mm	30x4mm	Box

## Hot Dip Galvanized Steel GI Tape Saddle



Suitable Tape	PACKING
25x3mm	Box
30x4mm	Box

# 4.

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# EXOTHERMIC

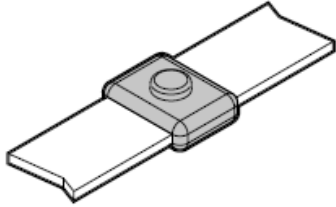
# Exothermic

Exothermic welds are available for almost every type and orientation of joint or connection.

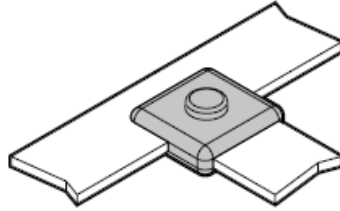
Examples of popular types are shown below.

Should you require any further information or wish to discuss your immediate

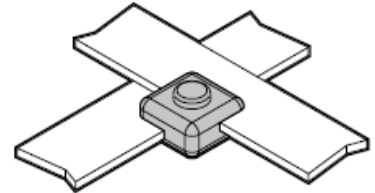
**METW7**



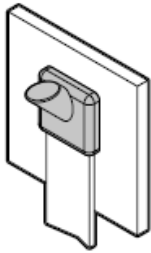
**METW8**



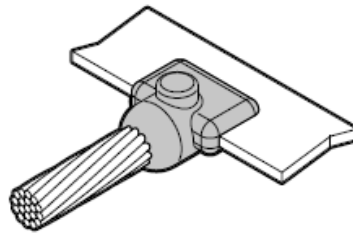
**METW9**



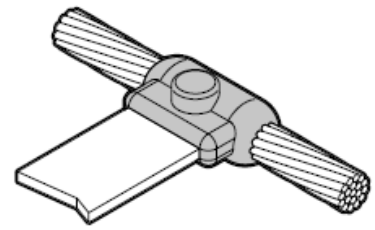
**METW10**



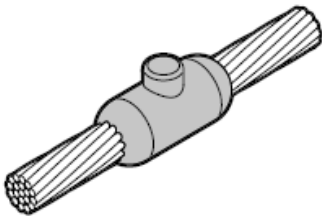
**METW11**



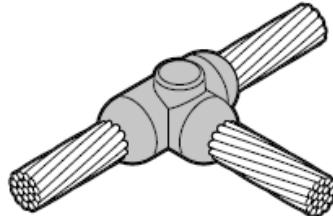
**METW12**



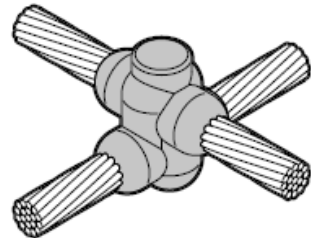
**METW13**



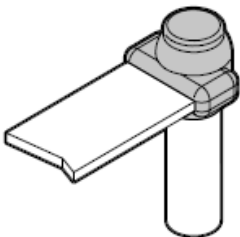
**METW14**



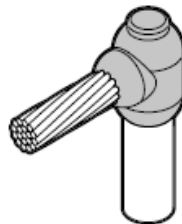
**METW15**



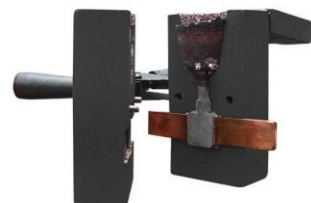
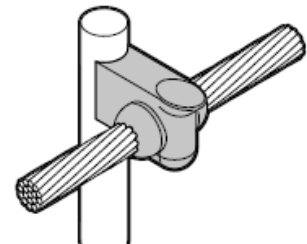
**METW16**



**METW17**



**METW18**



# Cable Management System

## Cable Trays

### PRODUCTS

- **Perforated Cable Tray**
- **Ladder Cable Tray**
- **Solid Bottom Cable Tray**
- **Heavy Angular Ladder Cable Tray**
- **Grating Assemblies**
- **Solar Panels Mounting Structures**
- **High Mast**
- **Cable Support Accessories & Fasteners**
- **Customized Cable Systems**



Our company mainly mfrs. in electric solution and cable support management system, we providing to our clients the world class quality products. Our cable trays, cable ladders, wire mesh trays, and structure channels customized and standardized cable systems.

- **M.S Powder Coated Cable Trays**
- **G.I Perforated Cable Trays**
- **Hot Dip Perforated Cable Trays**
- **G.I Ladder Cable Trays**
- **Hot Dip Ladder Cable Trays**
- **Runways**
- **Heavy Angular Ladder Cable Tray**





Perforated type cable trays (PTCT) heavy duty cable support system .

PTCT Trays available in below material.

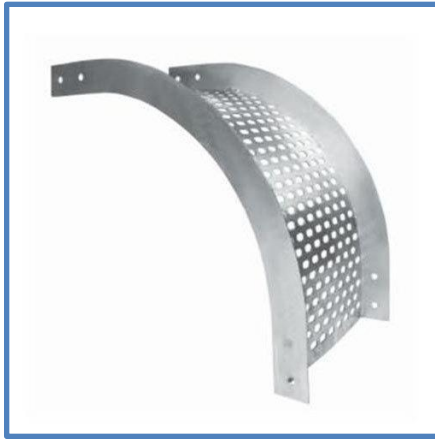
- Pre Coated
- Hot Dip Galvanized Steel
- Stainless Steel
- Powder Coated
- Enamel Spray coated.

These cable trays provide ventilation to fixing cable to provide clamping, ties and fastening to ensure cables uniformly management.

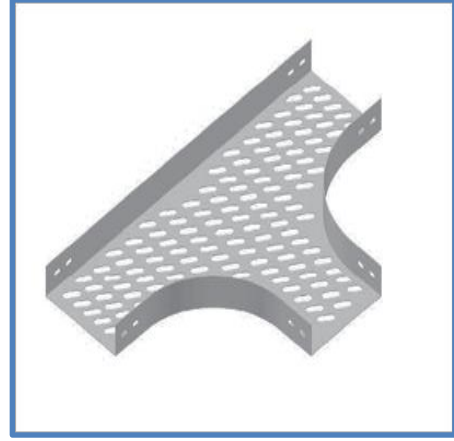
# PERFORATED TYPE CABLE TRAYS



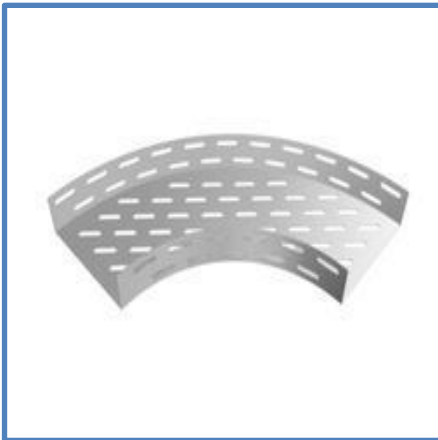
**VERTICAL BEND INSIDE**



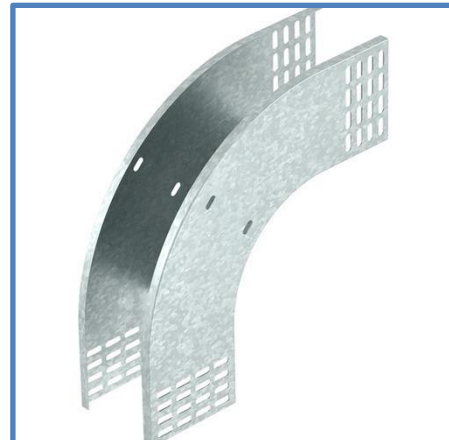
**VERTICLE BEND OUTSIDE**



**TEE HORIZONTAL**



**HORIZONTAL BEND**



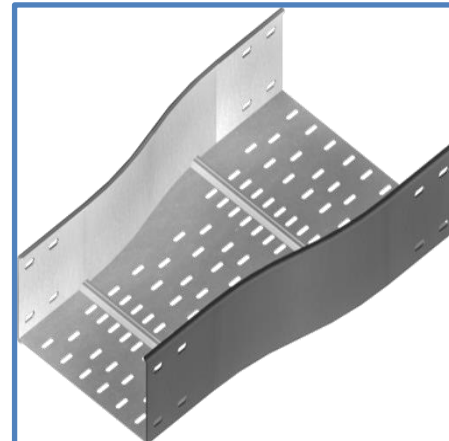
**VERTICLE BEND**



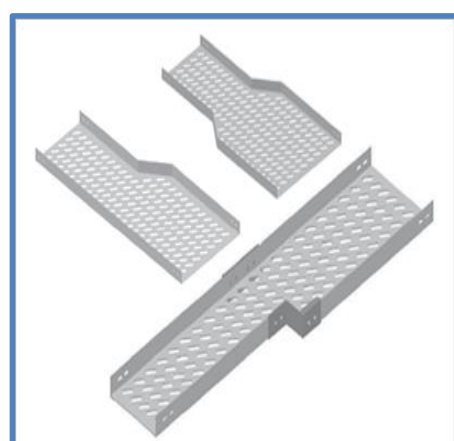
**TRAY COVER**



**CROSS**



**REDUCER**



**ONE SIDE REDUCER**



Ladder type (LTCT) heavy duty cable support system .

PTCT Trays available in below material.

- Pre coated
- Hot Dip Galvanized Steel
- Stainless Steel
- Powder Coated
- Enamel Spray coated.

These cable trays provide easily to fixing cable to provide clamping, ties and fastening to ensure cables uniformly management.

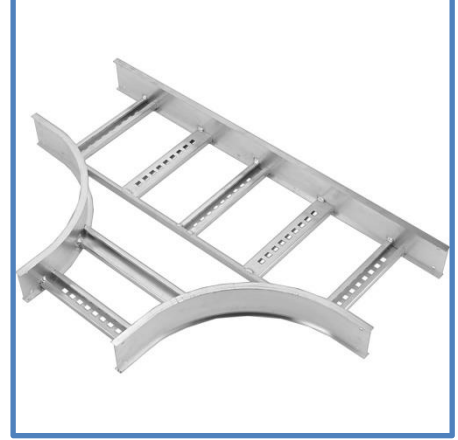
# LADDER TYPE CABLE TRAYS



**VERTICAL BEND INSIDE**



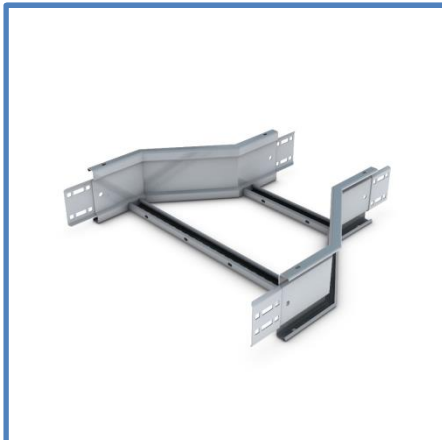
**VERTICLE BEND OUTSIDE**



**TEE HORIZONTAL**



**HORIZONTAL BEND**



**EQUAL REDUCER**



**ONE SIDE REDUCER**



# ANGULAR LADDER TYPE CABLE TRAYS



Angular Ladder type (LTCT) heavy duty cable support system .

PTCT Trays available in below material.

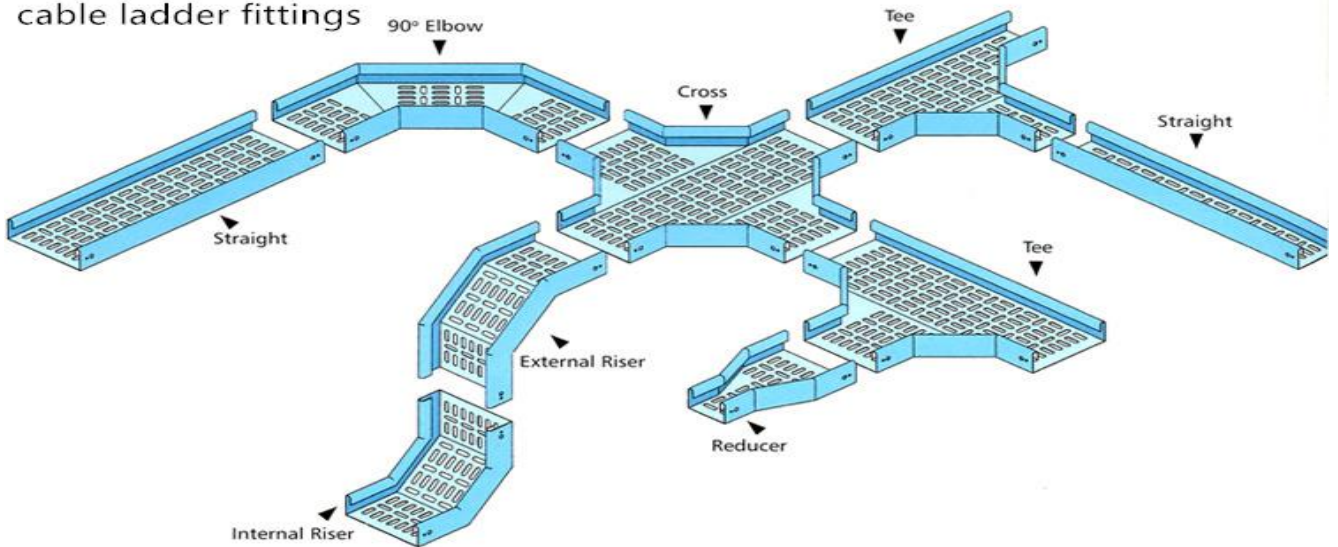
- Pre coated
- Hot Dip Galvanized Steel
- Stainless Steel
- Powder Coated
- Enamel Spray coated.

These cable trays specially for heavy weight cables.

## PRODUCT APPLICATIONS

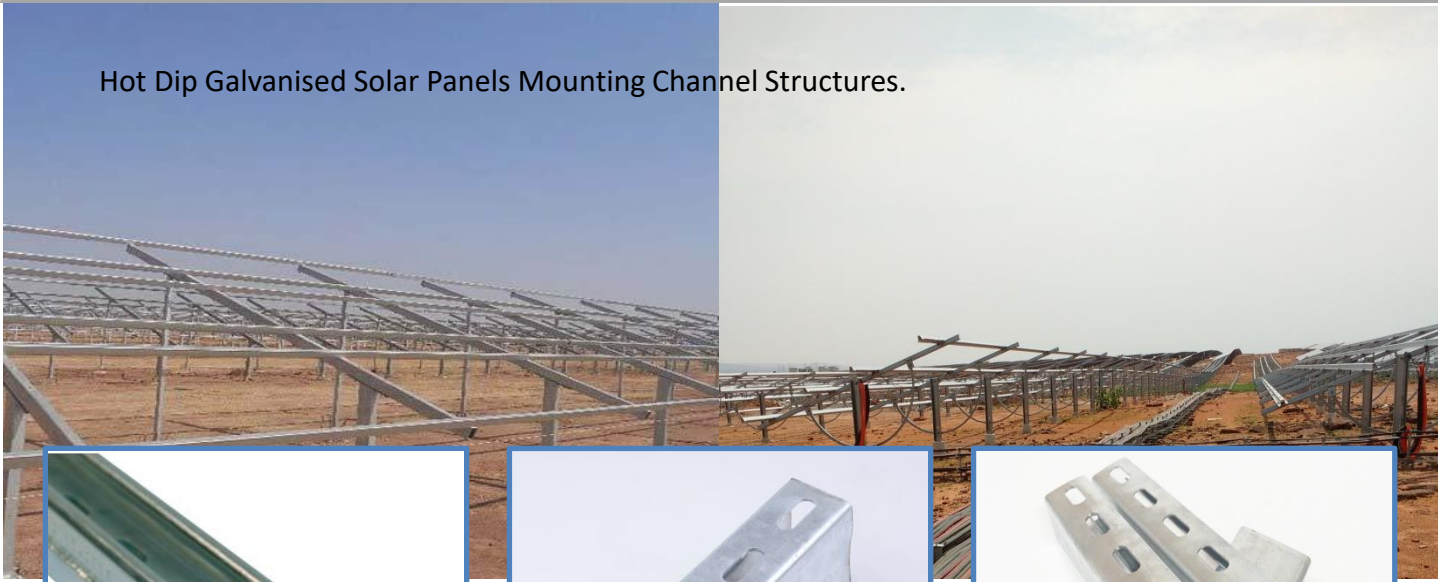


cable ladder fittings



# SOLAR PANEL MOUNTING STRUCTURES

Hot Dip Galvanised Solar Panels Mounting Channel Structures.



Customized cable support system produce from hot dip heavy galvanised steel channel & angular bars .

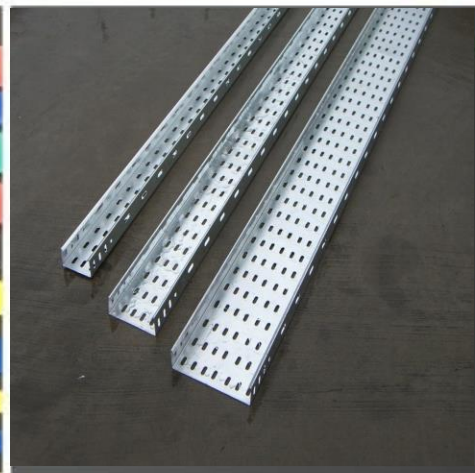
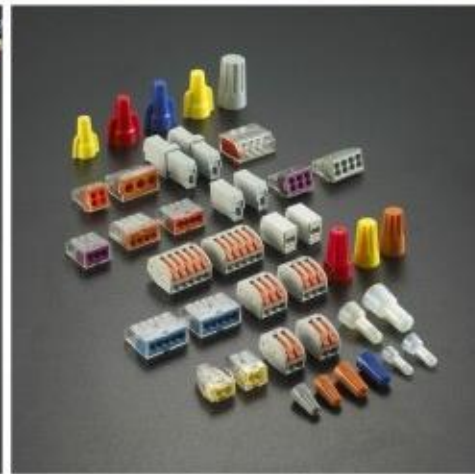
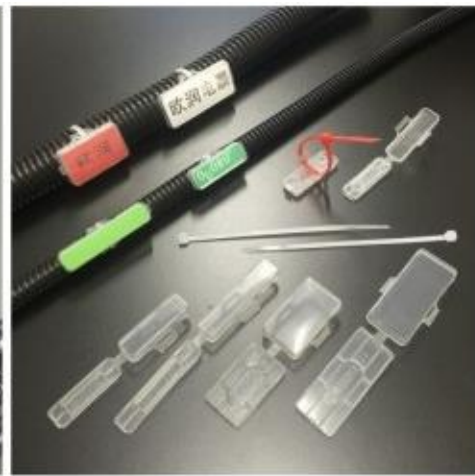
These cable system supporting system mounting on RCC foundation for provide strong basement to manage heavy weight and control cable runways



We provide customized Cable management support system specially for heavy armored cables indoor & out-door areas.



# CABLE SYSTEM ACCESSORIES



# Matrix

High performance Electric Components

## CLIENTS



KEEC INDIA



BHARAT PETROLEUM CORP. LTD.

# Matrix

High performance Electric Components



## MANUFACTURER

A wide range of products that can be customized according to customer requirement



## EXPORTING

Exporting 52 countries, gained positive feedbacks and praises. Owning professional technical and sales team



## QUALITY

Strict inspection of product quality before shipment and track the life of the product



## SERVICE

Any small problem happening in our products will be solved at the most prompt time

## INDUSTRIES WE SERVE



POWER INDUSTRY



PETROCHEMICAL INDUSTRY



RAIL INDUSTRY



PHARMACEUTICALS INDUSTRY



SOLAR INDUSTRY



WIND INDUSTRY



OIL AND GAS



WATER INDUSTRY



MINING &



FOOD & BEVERAGE



CONSTRUCTION



MANUFACTURING

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GROUNDING

LIGHTNING

ELECTRICAL

SOLAR

EXOTHERMIC

CABLE TRAYS

COATINGS