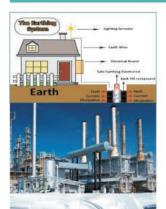


ABOUT US

Over the past decade and continue in present, "Ashima Electrotech (P) Ltd. (AEPL) has emerged as a leading manufacturer and solution provider in Electrical Protection field. Our custom built products and solutions are pride of company. Customers from solar to electrical distributions and Banking to Telecom are the backbone to the company's success and we are thankful to our esteemed customers. Always keeping the quality and service on first priority, our customers always get "VALUE FOR MONEY". The Growing list of new customers along with repeat orders from existing customers always keeps us on move. Certifications from CPRI, ERDA, NSIC and NABL accredited labs have proved the quality of our products. Continuous development is a part of company policy and everybody in AEPL is committed to achieve their goal.

We serve almost all the sectors in Electrical safety :-



Domestic or Residential

- ➤ Pipe Earthing & Copper clad rods. ➤ HDPE Pit Covers.
- Surge Protection Devices.

Industrial

- ➤ High current withstand capacity Earth Electrode >50KA.
- ➤ Industrial & Semi Conductor Fuses. ➤ High End Surge Protection Devices.
- ➤ Ground Resistance Monitors.



➤ Pure Copper Earth Electrode to provide best contact resistance for sensitive Electromagnetic Equipments like MRI, Linear Accelerator, Cathlab.



➤ Our highly conductive Earth Enhancement Material and Earth Electrode is very useful for 33kv / 132kv / 400kv substations and high voltage / MVA Transformers



➤ UL Listed Copper Bonded Rods, Perforated Pipe Earthing and Earth Discharge Rods are as per RDSO Compliance and are widely used in signal Earthing applications. ACME ground rod and premium earth enhancement compound is being used regularly by many Banks in India.

Airports and Data Center

- ➤ Copper Bonded Rods along with low resistivity Earth Enhancement Material
- Advance lightning protection system.
- ACME low resistance earthing solutions.

These are few......

➤ We also serve some custom required areas as per customer needs.
We are Committed for Our work, Our supplied goods and Our services. _ _ _ _ For no time limits.



ACME - COPPER EARTH ELECTRODE - Copper Strip in Copper Pipe (acme - CSCP)

- ➤ 99.9% pure copper strips is used as primary conductor along with Copper Pipe.
- ➤ Acme-CSCP electrodes are used mainly for heavy fault current requirements.
- Pressure filled conductive & heat absorbent materials are used inside the electrode to sustain heavy fault current.

→ Copper Strip in Copper Pipe (Wall Thickness - 1.0 mm)

Description	Length	Strip Size	Catalogue Code	Wall Thickness
ACME 50mm Copper Pipe with Copper Strip	2 Mtr.	25x3	A50CC25321	1.0 mm
ACME 50mm Copper Pipe with Copper Strip	2 Mtr.	32x5	A50CC32521	1.0 mm
ACME 50mm Copper Pipe with Copper Strip	3 Mtr.	25x3	A50CC25331	1.0 mm
ACME 50mm Copper Pipe with Copper Strip	3 Mtr.	32x5	A50CC32531	1.0 mm

→ Copper Strip in Copper Pipe (Wall Thickness - 1.5 mm)

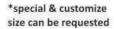
Description	Length	Strip Size	Catalogue Code	Wall Thickness
ACME 50mm Copper Pipe with Copper Strip	2 Mtr.	25x3	A50CC253215	1.5 mm
ACME 50mm Copper Pipe with Copper Strip	2 Mtr.	32x5	A50CC325215	1.5 mm
ACME 50mm Copper Pipe with Copper Strip	3 Mtr.	25x3	A50CC253315	1.5 mm
ACME 50mm Copper Pipe with Copper Strip	3 Mtr.	32x5	A50CC325315	1.5 mm

→ Copper Strip in Copper Pipe (Wall Thickness - 1.0 mm.)

Description	Length	Strip Size	Catalogue Code	Wall Thickness
ACME 80mm Copper Pipe with Copper Strip	2 Mtr.	25x3	A80CC25321	1.0 mm
ACME 80mm Copper Pipe with Copper Strip	2 Mtr.	32x5	A80CC32521	1.0 mm
ACME 80mm Copper Pipe with Copper Strip	3 Mtr.	25x3	A80CC25331	1.0 mm
ACME 80mm Copper Pipe with Copper Strip	3 Mtr.	32x5	A80CC32531	1.0 mm

→ Copper Strip in Copper Pipe (Wall Thickness - 1.5 mm)

Description	Length	Strip Size	Catalogue Code	Wall Thickness
ACME 80mm Copper Pipe with Copper Strip	2 Mtr.	25x3	A80CC253215	1.5 mm
ACME 80mm Copper Pipe with Copper Strip	2 Mtr.	32x5	A80CC325215	1.5 mm
ACME 80mm Copper Pipe with Copper Strip	3 Mtr.	25x3	A80CC253315	1.5 mm
ACME 80mm Copper Pipe with Copper Strip	3 Mtr.	32x5	A80CC325315	1.5 mm





ACME - G.I. EARTH ELECTRODE - G.I. Pipe with G.I. Strip (Geme - GIPGS)

- GI strip is used as primary conductor inside the GI pipe.
- > Availability of different size GI strips ensures the availability of plenty of models according to fault current requirement.
- Hot Dip Galvanization (HDG) of strips and pipe ensure the better anticorrosion resistance.

Description :-

Description	Length	Strip Size	Catalogue Code
ACME 50mm GI Pipe with GI strip Earth Electrode	2 Mtr.	25x3	A50G2532
ACME 50mm GI Pipe with GI strip Earth Electrode	2 Mtr.	32x6	A50G3262
ACME 50mm GI Pipe with GI strip Earth Electrode	3 Mtr.	25x3	A50G2533
ACME 80mm GI Pipe with GI strip Earth Electrode	3 Mtr.	25x3	A80G2533
ACME 80mm Gl Pipe with Gl strip Earth Electrode	3 Mtr.	32x6	A80G3263
ACME 80mm Gl Pipe with Gl strip Earth Electrode	3 Mtr.	50x6	A80G5063



special & customize size can be requested



ACME - G.I. EARTH ELECTRODE - PIPE IN PIPE (acme - GIPP)

- ➤ Acme-GIPP earth electrodes ensure longer life to equipment and safety of humans.
- Acme-EEC is used to make electrode surrounding moisture high and providing easy path to fault current.
- ➤ Circular path for fault current to spread in more uniformly in all directions.



Description :-

Description	Length	Inner Pipe Size	Catalogue Code
ACME 50mm GI Pipe in Pipe Earth Electrode	2 Mtr.	25 mm	AGP50252
ACME 50mm GI Pipe in Pipe Earth Electrode	3 Mtr.	25 mm	AGP50253
ACME 80mm Gl Pipe in Pipe Earth Electrode	2 Mtr.	40 mm	AGP80402
ACME 80mm Gl Pipe in Pipe Earth Electrode	3 Mtr.	40 mm	AGP80403



ACME - G.I.EARTH ELECTRODE - Copper Strip in G.I. Pipe (acme - GIPCS)

- ➤ 99.9% pure copper strips is used as primary conductor along with GI Pipe.
- ➤ Acme-GIPCS electrodes are used mainly for heavy fault current requirements.
- > Pressure filled conductive & heat absorbent materials are used inside the electrode to sustain heavy fault current.



Description :-

Description	Length	Strip Size	Catalogue Code
ACME 50mm GI Pipe with copper strip	2 Mtr.	25x3	A50C2532
ACME 50mm GI Pipe with copper strip	2 Mtr.	32x5	A50C3252
ACME 50mm GI Pipe with copper strip	3 Mtr.	25x3	A50C2533
ACME 50mm GI Pipe with copper strip	3 Mtr.	32x5	A50C3253



*special & customize size can be requested



Description :-

Description	Length	Strip Size	Catalogue Code
ACME 50mm GI Pipe with copper strip	3 Mtr.	40x6	A50C4063
ACME 80mm GI Pipe with copper strip	2 Mtr.	25x3	A80C2532
ACME 80mm GI Pipe with copper strip	3 Mtr.	25x3	A80C2533
ACME 80mm GI Pipe with copper strip	3 Mtr.	32x5	A80C3253
ACME 80mm GI Pipe with copper strip	3 Mtr.	50x6	A80C5063

ACME - Copper Bonded Ground Rod (acme - CBGR)

- ➤ Acme-CBGR made by molecularly bonding pure electrolytic copper into a low carbon high tensile steel core.
- > The copper bonded grounding rods have characters of anti-corrosion and ductility, which is superior then common copper bonded steel rod and easy to install deeply.
- ➤ Made with low carbon steel core bonded 99.9% pure electrolytic copper.



Description :-

Description	Length	Micron Coating	Catalogue Code
Copper Bonded Rod	1 Mtr.	40 - 50	ACBR040M1
Copper Bonded Rod	2 Mtr.	40 - 50	ACBR040M2
Copper Bonded Rod	3 Mtr.	40 - 50	ACBR040M3
Copper Bonded Rod	2 Mtr.	250 - 270	ACBR250M2
Copper Bonded Rod	3 Mtr.	250 - 270	ACBR250M3



*special & customize size can be requested



EARTHING ACCESSORIES



A Clamp



U Bolt Type E



U Bolt Type E 2



U Bolt Type GUV



Earth Rod Clamp



Coupler



ACME - Earth Enhancement Backfill Compound (acme - EEC)

- > Acme-EEC is developed to enhance the conductivity, it reduces the earthing resistance in all kind of soil (Rocky, Sandy and any low moisture areas).
- > The Characteristic of the earthing system is dependent on the nature of the soil. In an ideal earthing system, the earthing resistance must be kept as low as possible to provide safe way for fault current.
- Acme-EEC-Major element contains mainly: Ti, Na, Mg, Ca, C and so on. This is mixture of natural minerals which in non hazardous for human being.
- ➤ Applied to high earth resistivity rainy soil loss area.
- ➤ Corrosion free and average life span: 20-30 yrs.



Description :-

Compliance	IEC 62651-7	
Certification	NABL, CE, ROHS	
Colour	Dark Grey	
PH Value	7-10	
Electric Resistivity	Less than 0.12 ∩ m	
Conductivity Rate	High	
Water Solubility	Less than 5%	
Bag Size	10kg / 20kg / 25kg	
Moisture Content at 105°C(%)	10.05%	
Sulphur Content	Less than 2%	



*Datasheet available on request



ACME - BENTONITE - EARTH BACKFILL

> Bentonite is a natural mineral extracted from mines. It is a clay and sodium activated montmorillonite. When this clay is mixed with water swells many time its dry volume. This clay has the ability to retain moisture for a long duration. It also absorb the moisture from surrounding soil and thus keeps the earthing system more effective.



*Datasheet available on request



ACME - Conductive Cement

➤ Acme conductive cement is a powerful low resistivity grounding material. It is prepared to provide conductive property along with setteling properties of cement. The ratio of hardering material with that of conductive material like graphite or carbon, plays a vital role in defining the properties of conductive cement. A corrosion Inhibitor material is also mixed to prevent the corrosion.



Features :-

- Positive low contact resistance.
- > No hazerdous chemicals.
- > Does not leach or wash away.
- Corrosion Inhibitor properties.
- No expansion or shrinkage.



*Datasheet available on request



ACME - PVC Earthing Chamber Cover (ocme - PVCECC)

Earth Pit Cover is manufactured with the use of quality polypropylene material which is reliable to use. They are used in order to secure protection for all earthing terminations. They ensure easy access for routine testing of electrical earths. They provide secure and user friendly accesses.

Dimensions (approx.)	Features
Top - 265 mm	Construction material PVC for extra durability.
Bottom - 300 mm	Factory- built long holes for accessing pipes strip.
Height - 265 mm	Resistant materials, assuring long use-life.
Thickness - 5.5 mm	Light weight.
	Maximum safe working load.
	Easy to install





ACME - MS Pit Cover (acme)

MS Earth Pit Cover is manufactured with the use of quality steel sheet. They are used in order to secure protection for all earthing terminations. They are available in different MS sheel thickness (2mm, 4mm, 6mm,). They ensure easy access to routine testing of the electrical earth. They provide secure and userfriendly accesses.

Features	Size	Thickness
Light Weight	300x300	2 mm
Maximum safe working load	450x450	4 mm
Easy to install	600x600	6 mm





ACME - Cast Iron Pit Cover (ocme)

Cast Iron Pit Covers are heavy duty pit covers. They are mainly used where movement of persons is more. These pit covers are made by dye casting techniques. These are available in various sizes.





ACME - RCC Pit Cover (acme)

These pit covers are mainly used where a masonry work is not tough to do. At remote sites of Petrol Pumps and Substations where empty land is not a problem for brick work. Various sizes are available as per requirement.

Sizes	available in :
	300x300
	450x450
	600x600





ACME - TELESCOPIC EARTH DISCHARGE ROD (acme - TEDR)

ACME - Highly insulated FRP Telescopic Earth Discharge Rod manufactured In automatic pultrusion plant having strong electrical & mechanical strength.



Technical Specification :-

Material	FRP Pultruded	
Process	Automatic Pultrusion Plant	
Surface	Smooth and Glossy	
Design	Telescopic Type	
Locking	Push Button type Locking System	
Total Section	03 Section	
Assembled Lenght	18 Feet Lenght	
One Minute dry Power Frequency Voltage with stand	11 KV rms, 33 KV rms, 132 KV rms,	
Glass Content	65%	
Top Section Dia	25 mm.	
Bottom Section Dia	45mm.	
Earthing	Die cast aluminium earthing instrument for 30mm. Die	
Cable (For 11KV)	4 sq. mm. copper cable 06 mtr. long	
Cable (For 33KV)	10 sq. mm. copper cable 09 mtr. long	
Cable (For 132KV)	35 sq. mm. copper cable 15 mtr. long	
Clamp	Crocodile grounding clamp	
Cover	Cover including	



Discharge Rod



MERSEN Surge Protection Device (Basic guide to selection of SPDs)

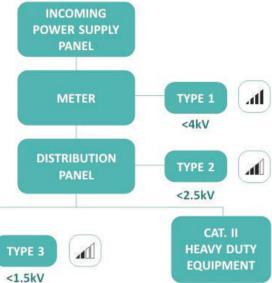
Protection using the 3-stage method:-

- > Technical features differ from SPD to SPD.
- The SPDs of a protection system must be able to withstand the discharged current and provide a Ures level (residual voltage) lower than the Ue peak voltage that the equipment can withstand.

SENSITIVE

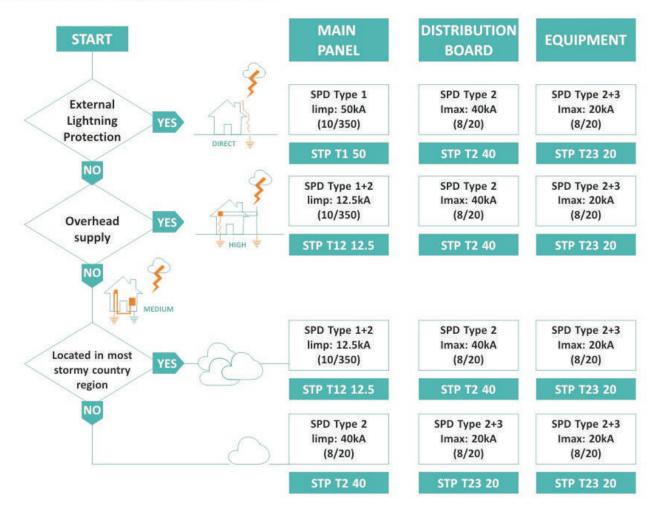
EQUIPMENT

Most of the times it is not possible to achieve this with just one SPD. The optimal system of protection is the CASCADE type, in which successive stages are combined in the performance of high discharge capacity devices and devices with an optimal voltage protection level (low).



Basic Guide to selection of SPDs

• Industrial or large applications :



MERSEN OVERVIEW









STM T1

STM T12

STM T2

STM T2 PV



50kA

12.5kA 50kA

40kA

40kA

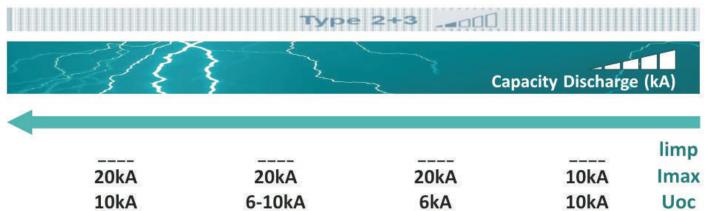




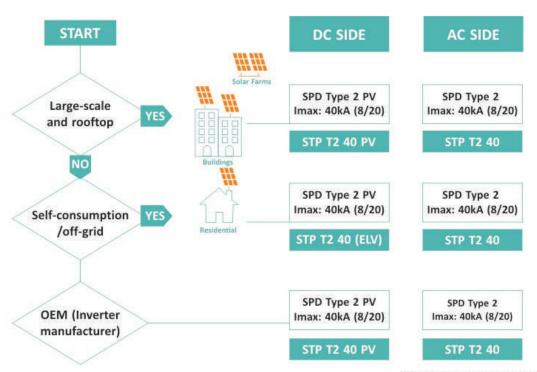




STE T23 STL T23



Basic guide to selection of SPDs (Photovoltaic)



*MERSEN is Registered Trademark of MERSEN INDIA



MERSEN PV FUSES AND FUSE HOLDER

S.R. No.	Description	
1.	1000VDC 5A MIDGET PV FUSE	
2.	1000VDC 10A MIDGET PV FUSE	
3.	1000VDC 12A MIDGET PV FUSE	
4.	1000VDC 15A MIDGET PV FUSE	
5.	1000VDC 20A MIDGET PV FUSE	
6.	1000VDC 25A MIDGET PV FUSE	
7.	1000VDC 30A MIDGET PV FUSE	

S.R. No.	Description
1.	1500VDC 5A 10X85 ROBUST PV FUSE
2.	1500VDC 15A 10X85 ROBUST PV FUSE
3.	1500VDC 20A 10X85 ROBUST PV FUSE
4.	1500VDC 25A 10X85 ROBUST PV FUSE
5.	1500VDC 30A 10X85 ROBUST PV FUSE
6.	1500VDC 32A 10X85 ROBUST PV FUSE

S.R. No.	Description
1.	1000VDC CUS101HEL SINGLE POLE FUSE HOLDER
2.	1000VDC USM1HEL SINGLE POLE FUSE HOLDER
3.	1000VDC FUSE HOLDER FOR 10X38 PV FUSES
4.	1500VDC HELIOPROTECTION FUSE HOLDER









ACME - Direct Current Distribution Box (acme - DCDB)

- ➤ DC Distribution Box is used to collect output of solar cells and supply it to inverter to get AC output.
- ➤ Main parts used in any DCDB are DC MCB, DC Fuses, Connectors, DC SPDs etc.
- ➤ Specification of DCDB are usually defined in terms of Input & Output like 2 IN 2 OUT.
- ➤ DCDB may be defined a disconnectors unit to disconnect the solar output from inverter section.

➤ ACME DCDB are designed to withstand tough conditions of operation hence provides maximum output to the user





EXOTHERMIC WELDING TOOLS



Graphite Mould

➤ Graphite mould is made of high quality graphite, and can be used for serveral times. The exothermic welding reaction takes place in a specially designed and manufactured with a specific weld cavity and in this cavity the molten metal is allowed to flow to all sections of the required connection creating the permanent connection.



Mould Handle Clamp

> Suitable for maximum exothermic moulds.



Steel Metal Disk

➤ Steel Discs are very important. The disc act as timing device to allow the welding powder to heat to proper temperature.



Exothermic Weld Powder

➤ Exothermic weld powder is the main part of any exothermic process. Upon weld powder is specially packaged in moisture-resistant plastic tubes. Standards size packing are 25 grams, 90 grams, 150 grams, 200 grams, 250 grams.



Ignite Powder

➤ Ignite Powder also known as starting powder is required to start the reaction. Starting powder on the mould followed by the exothermic weld powder and again pour little on the top side of mould. Then Ignite starting powder with a spark gun. Ignite powder of 5 grams is sufficient for this process.



Hand Gloves

➤ Gloves are required for safety purpose as the Exothermic weld powder melts at more than 1500 °C. One Hand Gloves pair is good for 250 joints.



Flint Gun

➤ It is designed with the advantages of safety and convenience. It is used to ignite starting powder in order to result in exothermic reaction.



Soft And Hard Brush

➤ Soft Brush :- Its used to clean mould weld cavity because its shape is very sensitive and cavity should not be any damage while using brush. Hard Brush :- Its used to clean other section of mould.



Slag Removal Tool

➤ It is used to remove the metal scrap and dust from the mould.



File Card

➤ It is used to clean the objects to be welded to remove rust and dirt.



Sealing Compound

➤ Sealing Compound is used to fill the gap on the mould where the conductor is passing.



Flame Torch

➤ Flame Torch can be used for 200+ joints.



Safety Eye Glasses

➤ Safety Eye Glass should be wear to protect eyes.



Cirprotec - Nimbus 60 (Early Streamer Emission Lightning Rod. Stainless steel AISI 316. Early streamer emission: 60 µs. NFC 17-102:2011)

Technical Data	Value	
Product height	528,5 [mm]	
Product width	85 [mm]	
Product weight	3235 [gr]	
Product standards	NF C 17-102:2011	
Certifications	CE; BUREAUVERITAS	
Housing color	Silver	
Insulating material & flammability class	Stainless steel 316	
Enclosure	IP 67	
Temperature range	-20 «C +80 SC	
Certifications (early streamer emission time)	LRIC	
Early streamer emission time	60 [μs]	
Max. withstood current (10/350)	200 [kA]	
Min. cable section	50 [mm2]	
Max. flat tape width	30 [mm]	
Min. flat tape width	25 [mm]	
Max. flat tape thickness	6 [mm]	
Min. flat tape thickness	2 [mm]	





Description :-

 Electronic ESE lightning air terminal (rod, conductor, arrester) that provides 60 μs Early Streamer Emission time according to the NFC17102:2011. The capture device is mounted on a mast to protect structures and people from direct external lightning impact.

The electronic Early Streamer Emission technology captures and stores energy by making use of the electrical field created by the atmospheric gradient. No external power supplies are required for the device to operate. High frequency pulses are emitted to provide a low-impedance ionized path for discharge onto the lightning rod and then to earth.

	Product Specification (Copper)	
Spikes	5 Nos	¥
Length of Spike	90 mm	
Mounting bar height	500 mm - 1500 mm	Franklin
Mounting bar dia	14 mm -17 mm	Lightning Arrester
Mounting Base	85 mm	
Sphere Dia	53 mm	



ACME - Supporting Mast (acme)

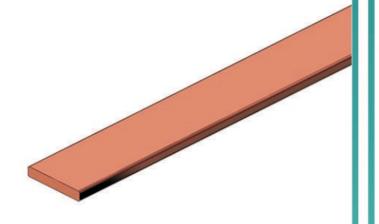
Acme Support Mast are made out of quality steel with galvanization. These mast are available in different sizes of 40mm/ 58mm. Dia and height of mast 2 mtr./ 3 mtr./ 5 mtr./ 9 mtr. Support mast is fixed with a insulating material on top this insulation prevents any under flow of current.





▲ CONDUCTORS - BARE CONDUCTORS (BARE COPPER TAPE)

20x1.5 mm 20x3 mm 20x3 mm	0.27 0.53 0.53	
NOTE AND CONTINUES OF A CONTINUES OF TAXABLE	0.53	
20x3 mm	7-04-00-04-00-00	
	0.45	
25x2 mm	0.45	
25x3 mm	0.67	
25x3 mm	0.67	
1"x1/8" mm	0.67	
25x4 mm	0.89	
25x6 mm	1.33	
30x3 mm	0.80	
30x4 mm	1.07	
30x5 mm	1.33	
31x3 mm	0.83	
31.5x4 mm	1.13	
31x6 mm	1.65	
38x3 mm	1.01	
38x5 mm	1.69	
38x6 mm	2.02	
40x3 mm	1.06	
40x4 mm	1.42	
40x5 mm	1.78	
40x6 mm	2.16	
50x3 mm	1.33	
50x4 mm	1.78	
50x5 mm	2.22	
50x6 mm	2.68	
50x7 mm	3.08	
50x8 mm	3.56	
75x6 mm	4.00	
50x10 mm	4.44	
60x10 mm	5.32	
80x6 mm	4.32	
100x6 mm	5.36	



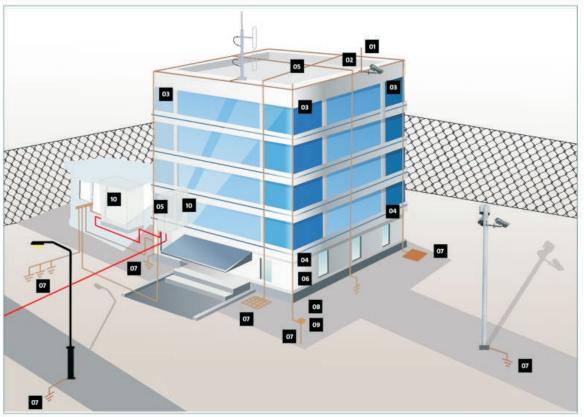


▲ CONDUCTORS - BARE SOLID CIRCULAR & STRANDED CONDUCTOR

Name	Diameter	Cross-Sectional Area	Weight per mtr. (Kg.)
Copper Conductor	08 mm	50.27 mm	0.44
Aluminum Conductor	08 mm	50.27 mm	0.12



LIGHTNING PROTECTION SYSTEM





10.

Lightning Protection System Parts:

No. Type	
1.	Air Terminals
2.	Air Rod Bases
3.	Conductors
4.	Conductor Fixing
5.	Conductor Jointing Clamps
6.	Test Clamps
7.	Earth Electrodes
8.	Earth Rod Clamps
9.	Earth Pit Cover
10.	Surge Protection Device (SPD)

Few of our esteemed customers :-



For Technical / Sales / Installation related queries,

Visit our website : www.ashimaelectrotech.com E-mail : sales@ashimaelectrotech.com Call us : +91 95300 27222 / +91 86909 72754