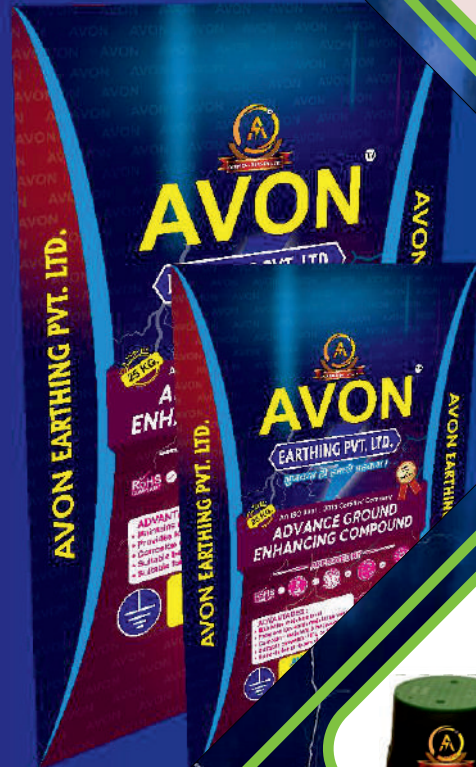
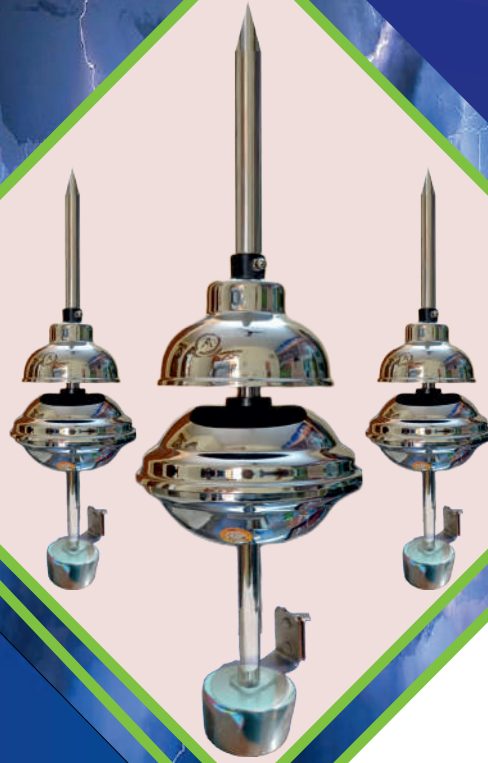




75
आज़ादी का
अमृत महोत्सव

आत्मनिर्भर भारत

गुणवत्ता ही हमारी
पहचान है!

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भारत के 16 बड़े शहरों के साथ साथ
नेपाल एवं भूटान में भी शाखाएं उपलब्ध

AVON EARTHING PVT. LTD.
EARTHING | LIGHTNING | BONDING





TRISHUL
MODEL NO. SPADR-5



Avon Earthing Pvt. Ltd. has developed a full range of earthing products and services to safe guard your assets & secures your infrastructure and life from lightning hazards. we owned by group of dedicated engineers and research & development team. we understand that the traditional system of earthing is unreliable and prone to problems we understand consumers requirement according that we always focusing to give best solutions to our customers. we thank you for choosing us. there has been developed chemical grounding rods for low impedance ground containing natural electrolytic salts.

Rajnish Maurya

Managing Director

AVON EARTHING PVT. LTD.

About Earthing-

Avon earthing is a necessity for all electrical equipments. its primary purpose to reduce the risk of serious electric shocks from current leaking into insulated metal part of an appliance and devices. over the years billions of dollars value of properties has been destroyed due to electrical system failures. grounding is the process of creating alternative path for the flow of excessive current safety in to the ground in the presence of minimum resistance. An earthing system or grounding system connects specific parts of an electric power system with the ground, typically the Earth's conductive surface, for safety and functional purposes.



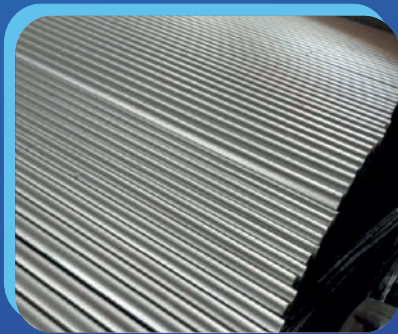
AE - GI

EARTHING ELECTRODE

SPECIAL MODEL NO.	GI PIPE OUTER DIAMETER IN (MM)	GI PIPE LENGTH (mm)	INTERNAL STRIP SIZE (MM)	TERMINAL SIZE IN MM
AE 482405 GIE	48	2000	25x03	40x5
AE 483405 GIE	48	3000	25x03	40x5
AE 582506 GIE	58	2000	25x03	50x6
AE 583506 GIE	58	3000	25x03	50x6
AE 882506 GIE	88	2000	25x03	50x6
AE 883506 GIE	88	3000	25x03	50x6
AE 1002506 GIE	100	2000	50x06	50x6
AE 1003506 GIE	100	3000	50X06	50x6

SPECIFICATION

- Most suitable for soil condition with pH value 5.0 to 8.0.
- Moisture booster chemical bags provided for low earth resistance.
- Low maintenance at installation site. Easy & Fast Installation.
- Hot dip galvanized for corrosion protection.



AE - COPPER

BONDED ROD

SPECIAL MODEL NO.	ROD LENGTH MM	ROD DIA MM
AE 121 CBR	1000	12
AE 122 CBR	2000	12
AE 141 CBR	1000	14
AE 142 CBR	2000	14
AE 171 CBR	1000	17
AE 172 CBR	2000	17
AE 173 CBR	3000	17
AE 202 CBR	2000	20
AE 203 CBR	3000	20
AE 252 CBR	2000	25
AE 253 CBR	3000	25

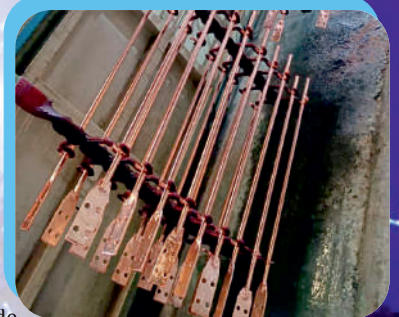
SPECIAL MODEL	ROD LENGTH MM	RODE DIA MM
AE 175 CBR	1524	17
AE 205 CBR	1524	20

BENEFITS

- Earth Enhancement Material Tested From NABL Accredited Lab.
- Due to conductive material improve the soil resistivity.
- Its also increase the conductivity of Earth Electrode.
- No maintenance.
- Long Life.
- Non Toxic contents.

SPECIFICATION

- Artificial treatment compound.
- no expansion factor.
- Environmentally friendly.
- Saves your electrical equipments form ground faults.
- High corrasion resistance enhance the life of earth electrode.



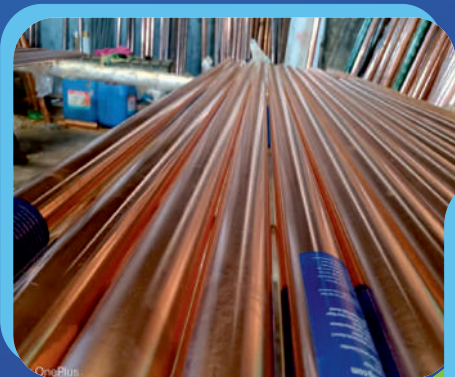
AE - PURE COPPER

EARTHING ELECTRODE

MODEL NO.	ELECTRODE DIA IN (MM)	ELECTRODE LENGHT IN (MM)	INNER STRIP IN MM	TERMINAL SIZE IN MM
AE 501405 PCE	50	1000	25X3	40X5
AE 502405 PCE	50	2000	25X3	40X5
AE 503405 PCE	50	3000	25X3	40X5
AE 802506 PCE	80	2000	25X3	50X6
AE 803506 PCE	80	3000	25X3	50X6

⚡ BENEFITS

- ⚡ Earth Enhancement Material Tested From NABL Accredited Lab.
- ⚡ Due to conductive material improve the soil resistivity.
- ⚡ Its also increase the conductivity of Earth Electrode.
- ⚡ No maintenance.
- ⚡ Long Life.
- ⚡ Automatically rechargeable.
- ⚡ No Need to pouring water time to time.



AE - COPPER

BONDED EARTHING ELECTRODE

MODEL NO.	ELECTRODE DIA IN (MM)	ELECTRODE LENGTH IN (MM)	INNER STRIP IN MM	TERMINAL SIZE IN MM
AE 481405 CBE	48	1000	25X3	40X5
AE 482405 CBE	48	2000	25X3	40X5
AE 483405 CBE	48	3000	25X3	40X5
AE 581506 CBE	58	1000	25X3	50X6
AE 582506 CBE	58	2000	25X3	50X6
AE 583506 CBE	58	3000	25X3	50X6
AE 761506 CBE	76	1000	25X3	50X6
AE 762506 CBE	76	2000	25X3	50X6
AE 763506 CBE	76	3000	25X3	50X6
AE 881506 CBE	88	1000	32X6	50X6
AE 882506 CBE	88	2000	32X6	50X6
AE 883506 CBE	88	3000	32X6	50X6
AE 1002506 CBE	100	2000	50X6	50X6
AE 1003506 CBE	100	3000	50X6	50X6

⚡ BENEFITS

- ⚡ Earth Enhancement Material Tested From NABL Accredited Lab.
- ⚡ Due to conductive material improve the soil resistivity.
- ⚡ Its also increase the conductivity of Earth Electrode.
- ⚡ No maintenance.
- ⚡ Long Life.
- ⚡ Automatically rechargeable.
- ⚡ No Need to pouring water time to time.

⚡ SPECIFICATION

- ⚡ High conductivity ,improves earth absorbing power and humidity retention capability.
- ⚡ Inner space is filled with highly conductive corrosion resistant crystalline.
- ⚡ Suitable for installation in dry form or in a slurry form.
- ⚡ Its provides low earth resistance during all seasons.
- ⚡ Its permanent & maintenance free and in it set form maintains constant earth resistance with time.
- ⚡ Shall be thermally stable between -100C to +600C ambient temperatures.
- ⚡ Shall not require periodic charging treatment nor replacement and maintenance.
- ⚡ Its suitable for any kind of electrode and all kind of soil of different resistivity.
- ⚡ Shall not cause burns, irritation to eye ,skin etc.

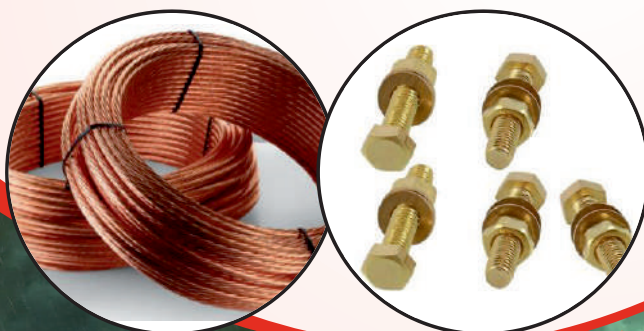


PINAK ESE LIGHTNING ARRESTER

⚡ PINAK ESE LIGHTNING ROD (MODEL : SBMSD07) →

The key purpose of using the ESE lightning arrester is to become the fast conductive point of discharge for the lightning bolt & ground current safely.

The ESE lightning arrester can cover a larger radius compared to a traditional lightning arrester. As per NFC 17-102, the ΔT for an ESE Lightning Arrester should be at least $10\mu s$. At Axis Electrical Components, we have a range of products from the ΔT of $10\mu s$ to $60\mu s$.



← AVON - COPPER ARRESTER

⚡ FEATURES OF SPIKE LIGHTNING ARRESTER

- ⚡ Conventional Lightning Arrester
- ⚡ Durable
- ⚡ Sturdy Housing
- ⚡ Latest Design
- ⚡ 1 Mtr. Length
- ⚡ 25 MM Dia
- ⚡ 60x60x3MM Base Plate

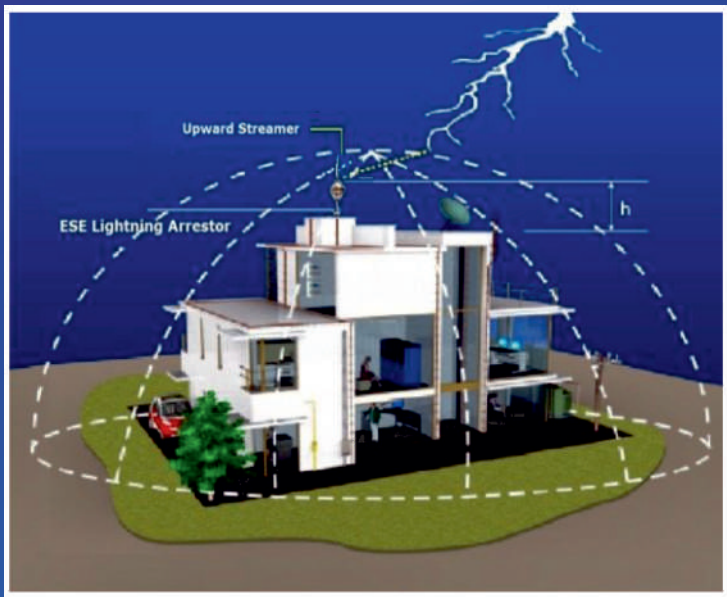


AVON - C.B. LIGHTNING ARRESTER →

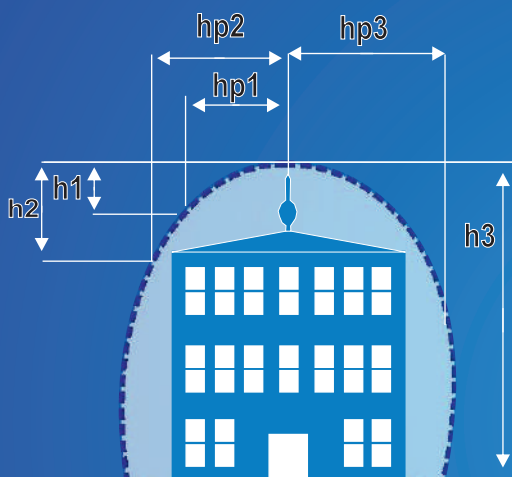
⚡ FEATURES OF SPIKE LIGHTNING ARRESTER

- ⚡ Conventional Lightning Arrester
- ⚡ Durable
- ⚡ Sturdy Housing
- ⚡ Latest Design
- ⚡ 1 Mtr. Length
- ⚡ 14.2 MM Dia
- ⚡ 75x75x6MM Base Plate
- ⚡ Spike Dia 8mm





Protection radius as per NF C 17-102 (2011)				
Mast Hight in (mm)	Level I (Very High)	Level II (High)	Level III (Medium)	Level IV (Standard)
2	31	35	39	43
3	47	52	58	63
4	63	69	78	85
5	79	86	97	107
6	79	87	97	107
8	79	88	98	108
10	79	88	99	109
15	80	89	101	111
20	80	89	102	113
45	80	89	105	119
50	80	89	105	120
80	80	89	105	120
100	80	89	105	120



ESE Lightning Arrester Protection Radius Calculation as per New Standard NFC 17 102 2011 Sept. Annexure C.3

Protection Calculation

The protection radius of Protector is calculated by the standard formula given in the French Standard NFC 17-102(Sept. 2011) The formulation is based on the lightning conductor triggering advance (AT), installation height (h) and the triggering distance (AL).

$R_p(h) = \sqrt{2th - h^2} + A(2r + A)$ for $h \geq 5$ m
and

$R_p = h \times R_{p5/5}$ for $2 \leq h < 5$ m

where h = ESE height relative

to the area being protected (m)

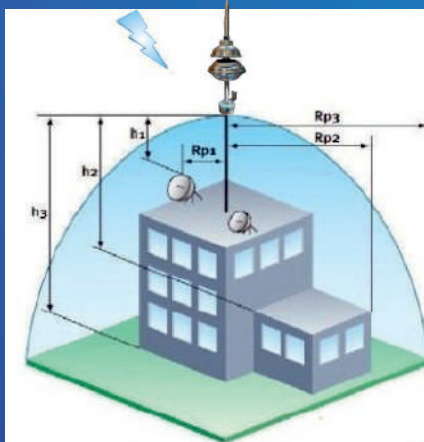
$R_{p5} =$ value of R_p from Eqn. (1) when $h = 5$ m

$r = 20$ m for protection level I (Very High protection)

30 m for protection level II (High protection)

45 m for protection level III (Medium protection)

60 m for protection level IV (Standard protection)



TRISHUL
MODEL NO. SPADR-5



ESE Lightning Protection System Early Streamer Emission Air Terminal

Operating Principal of ESE Lightning Arrester

- ◆ Active Lightning Rods are based on Early Streamer Emission (ESE) Principle.
- ◆ The theory of operation of ESE LA is to create upward propagating streamer earlier than conventional air terminals, thereby offering larger zones of protection.
- ◆ There is no use of battery or any external power supply.
- ◆ Designed on 304L stainless steel material reliable performance in all weather conditions.
- ◆ The time difference AT is the ESE advantage. called" early emission" (microseconds). AT = 60 usec.
- ◆ Suitable for use with variety of down conductors either insulated cable, strip/tape etc.
- ◆ Standard that governs these devices are NFC 17 102 (2011) Sept. and UNE 21 186 2011

Lightning strike counters are very useful tools in lightning protection installations, since they provide first-hand information on whether the installation has suffered a lightning strike and therefore if there is a need for any subsequent verification or extra maintenance beyond the periodical inspections. The Digital Lightning Strike is a recorder of electrical activity in the lightning rod's down-conductor which, in addition to counting the number of strikes. The Digital lightning Strike counter is a device designed to detect lightning strikes upon any external lightning protection system (lightning rods, ESE, faraday cages, etc...). Detection of impulses from:

- Intensity min: 1kA (8/20μs according to 62.561-6:2011).
- Intensity max: 100kA (10/350μs according to 62.561-6:2011).



AVON SOLAR EARTHING KIT

With an extensive Experience in the grounding & bonding system, we have designed a Solar Earthing Kit specifically for Photovoltaic Systems. Based on internationally appreciated Solid Rod Technology, solar earthing is made up of low carbon steel rod with a 250 micron coating of 99.99% pure copper for doing hassle free, reliable and economical grounding. Solar Earthing Kit is a complete solution consist RoHS compliant eco friendly, non corrosive carbon based earth enhancement compound complying IEC 62651-7 standard, which retains soil moisture results in long life to the rod. The solar Earthing kit is available in 14.2mm diameter, 4 feet (1.2 mtr.) customization is possible as per the requirement.



Avon BFC

BACKFILL COMPOUND

Product Code- AE 1 BFC

QUANTITY	NO.OF BAGS
25kg.	1
15kg.	1
5kg.	1

⚡ BENEFITS

- ⚡ Earth Enhancement Material Tested From NABL Accredited Lab.
- ⚡ Due to conductive material improve the soil resistivity.
- ⚡ Its also increase the conductivity of Earth Electrode.
- ⚡ No maintenance.
- ⚡ Long Life.
- ⚡ Non Toxic contents.

⚡ SPECIFICATION

- ⚡ Artificial treatment compound.
- ⚡ no expansion factor.
- ⚡ Environmentally friendly.
- ⚡ Saves your electrical equipments form ground faults.
- ⚡ High corrosion resistance enhance the life of earth electrode.

⚡ PACKING SIZE

- ⚡ Its comes in 25kg , 15kg and 5kg Bags are available.



AE - PIT COVER

No Any Maintenance Require after Installation.
No Brick Work Require at side.
3.ton Loading Capacity.

Earth Pit Cover Specifications

At Top. (180 mm)
At Bottom. (260mm)
Height (242MM)
Environment Friendly Rust Proof
Heavy Duty Weather Proof Poly
Plastic Earth Pit Cover



AVON EARTHING PVT. LTD.

AN ISO 9001 : 2015 Certified Co. CPRI TESTED - UPPWD - APPROVED

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