



SG POWER
PRODUCTS PRIVATE LIMITED
EVOLUTION THROUGH TECHNOLOGY



CONVENTIONAL LIGHTNING ARRESTER SYSTEM

AIR TERMINAL

The Primary function of an air terminal is to capture the lightning strike to a preferred point, so as to ensure that the discharge current can be safely directed through the down conductor to the dedicated earthing.

DOWN CONDUCTORS

The purpose of a down conductor is to provide a lowest impedance path from the air terminal to the earthing so that the lightning current can be safely conducted to ground. Down conductor routes should be as direct as possible to earth, avoiding sharp bends or turns so as to minimize the risk of side flashing where impedance/inductance is increased under impulse conditions.

EARTHING SYSTEM

Each down conductor must have a separate earthing. It is recommended that all individual lightning earths should be bonded together to minimize earth voltage in turn all lightning earths should be bonded to surrounding facility earths.



COPPER BONDED CONVENTIONAL LIGHTNING ARRESTER



**MULTI SPIKE CONVENTIONAL
COPPER BONDED
LIGHTNING ARRESTER WITH
METALLIC SQUARE BASE PLATE**



**MULTI SPIKE CONVENTIONAL
COPPER BONDED
LIGHTNING ARRESTER WITH
HDPE SQUARE BASE PLATE**



**THREE SPIKE CONVENTIONAL
COPPER BONDED
LIGHTNING ARRESTER WITH
METALLIC SQUARE BASE PLATE**



**SINGLE SPIKE CONVENTIONAL
COPPER BONDED
LIGHTNING ARRESTER WITH
METALLIC SQUARE BASE PLATE**

GI CONVENTIONAL LIGHTNING ARRESTER



**MULTI SPIKE
CONVENTIONAL GI
LIGHTNING ARRESTER WITH
METALLIC SQUARE BASE PLATE**



**MULTI SPIKE
CONVENTIONAL GI
LIGHTNING ARRESTER WITH
HDPE SQUARE BASE PLATE**



**THREE SPIKE
CONVENTIONAL GI
LIGHTNING ARRESTER WITH
METALLIC SQUARE BASE PLATE**



**SINGLE SPIKE
CONVENTIONAL GI
LIGHTNING ARRESTER WITH
METALLIC SQUARE BASE PLATE**



TECHNICAL SHEET FOR COPPER BONDED & GI CONVENTIONAL LIGHTNING ARRESTERS

Sr No	MATERIAL	Length (mm)	Rod Dia (mm)	Spikes	Base Plate Material	Bonding Type
1	HIGH TENSILE LOW CARBON STEEL	500	10	1 Spike / 3 spike / 5 Spike	MS	Cu Bonded / GI
2	HIGH TENSILE LOW CARBON STEEL	1000	10	1 Spike / 3 spike / 5 Spike	MS	Cu Bonded / GI
3	HIGH TENSILE LOW CARBON STEEL	1200	10	1 Spike / 3 spike / 5 Spike	MS	Cu Bonded / GI
4	HIGH TENSILE LOW CARBON STEEL	1500	10	1 Spike / 3 spike / 5 Spike	MS	Cu Bonded / GI
5	HIGH TENSILE LOW CARBON STEEL	500	12	1 Spike / 3 spike / 5 Spike	MS	Cu Bonded / GI
6	HIGH TENSILE LOW CARBON STEEL	1000	12	1 Spike / 3 spike / 5 Spike	MS	Cu Bonded / GI
7	HIGH TENSILE LOW CARBON STEEL	1200	12	1 Spike / 3 spike / 5 Spike	MS	Cu Bonded / GI
8	HIGH TENSILE LOW CARBON STEEL	1500	12	1 Spike / 3 spike / 5 Spike	MS	Cu Bonded / GI
9	HIGH TENSILE LOW CARBON STEEL	500	14	1 Spike / 3 spike / 5 Spike	MS / HDPE	Cu Bonded / GI
10	HIGH TENSILE LOW CARBON STEEL	1000	14	1 Spike / 3 spike / 5 Spike	MS / HDPE	Cu Bonded / GI
11	HIGH TENSILE LOW CARBON STEEL	1200	14	1 Spike / 3 spike / 5 Spike	MS / HDPE	Cu Bonded / GI
12	HIGH TENSILE LOW CARBON STEEL	1500	14	1 Spike / 3 spike / 5 Spike	MS / HDPE	Cu Bonded / GI
13	HIGH TENSILE LOW CARBON STEEL	2000	14	1 Spike / 3 spike / 5 Spike	MS / HDPE	Cu Bonded / GI
14	HIGH TENSILE LOW CARBON STEEL	3000	14	1 Spike / 3 spike / 5 Spike	MS / HDPE	Cu Bonded / GI
15	HIGH TENSILE LOW CARBON STEEL	500	16	1 Spike / 3 spike / 5 Spike	MS / HDPE	Cu Bonded / GI
16	HIGH TENSILE LOW CARBON STEEL	1000	16	1 Spike / 3 spike / 5 Spike	MS / HDPE	Cu Bonded / GI
17	HIGH TENSILE LOW CARBON STEEL	1200	16	1 Spike / 3 spike / 5 Spike	MS / HDPE	Cu Bonded / GI
18	HIGH TENSILE LOW CARBON STEEL	1500	16	1 Spike / 3 spike / 5 Spike	MS / HDPE	Cu Bonded / GI
19	HIGH TENSILE LOW CARBON STEEL	2000	16	1 Spike / 3 spike / 5 Spike	MS / HDPE	Cu Bonded / GI
20	HIGH TENSILE LOW CARBON STEEL	3000	16	1 Spike / 3 spike / 5 Spike	MS / HDPE	Cu Bonded / GI
21	HIGH TENSILE LOW CARBON STEEL	500	17	1 Spike / 3 spike / 5 Spike	MS / HDPE	Cu Bonded / GI
22	HIGH TENSILE LOW CARBON STEEL	1000	17	1 Spike / 3 spike / 5 Spike	MS / HDPE	Cu Bonded / GI
23	HIGH TENSILE LOW CARBON STEEL	1200	17	1 Spike / 3 spike / 5 Spike	MS / HDPE	Cu Bonded / GI
24	HIGH TENSILE LOW CARBON STEEL	1500	17	1 Spike / 3 spike / 5 Spike	MS / HDPE	Cu Bonded / GI
25	HIGH TENSILE LOW CARBON STEEL	2000	17	1 Spike / 3 spike / 5 Spike	MS / HDPE	Cu Bonded / GI
26	HIGH TENSILE LOW CARBON STEEL	3000	17	1 Spike / 3 spike / 5 Spike	MS / HDPE	Cu Bonded / GI
27	HIGH TENSILE LOW CARBON STEEL	500	20	1 Spike / 3 spike / 5 Spike	MS	Cu Bonded / GI
28	HIGH TENSILE LOW CARBON STEEL	1000	20	1 Spike / 3 spike / 5 Spike	MS	Cu Bonded / GI
29	HIGH TENSILE LOW CARBON STEEL	1200	20	1 Spike / 3 spike / 5 Spike	MS	Cu Bonded / GI
30	HIGH TENSILE LOW CARBON STEEL	1500	20	1 Spike / 3 spike / 5 Spike	MS	Cu Bonded / GI
31	HIGH TENSILE LOW CARBON STEEL	2000	20	1 Spike / 3 spike / 5 Spike	MS	Cu Bonded / GI
32	HIGH TENSILE LOW CARBON STEEL	3000	20	1 Spike / 3 spike / 5 Spike	MS	Cu Bonded / GI

PURE COPPER CONVENTIONAL LIGHTNING ARRESTER



MULTI SPIKE PURE COPPER LIGHTNING ARRESTER WITH METALLIC SQUARE BASE PLATE

Sr No	MATERIAL	Length (mm)	Rod Dia (mm)	Spikes	Base Plate Type
1	Pure Copper	1000	20	5 Spike	Copper
2	Pure Copper	1200	20	5 Spike	Copper
3	Pure Copper	1500	20	5 Spike	Copper
4	Pure Copper	2000	20	5 Spike	Copper
5	Pure Copper	1500	30	5 Spike	Copper
6	Pure Copper	2000	30	5 Spike	Copper



...many more

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