



SAMAY ELECTRIC

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COMPLETE LIGHTNING PROTECTION SYSTEM









SI No.	Products Name	Part Nos.	Page No.
1	Air Termination Rods	EL-IV-1111602 EL-IV-1111604 EL-IV-1111606	4
2	Spike rods	EL-IV-1110801	4
3	Side Wall Clamp for Air Termination Rod	EL-IV-1229001	4
4	Self supporting Concrete Base for Air Termination Rod	EL-IV-1269001 EL-IV-1269002	4
5	Tripod Stand	EL-IV-2229001	4
6	Fixture to hold ATR on the Ridge of a Metallic sloping Roof	EL-IV-2239001	4
7	Parallel Connector to clamp Spike, Parallel Conductors	EL-IV-1219003	4
8	ATR Clamp cum Connector	EL-IV-1119001	5
9	Al.Round Conductor	EL-IV-1210801	5
10	GI Flat Conductor	EL-IV-1232502	5
11	SS.Round Conductor	EL-IV-1221001	5
12	Copper cable Conductor	EL-IV-1240801	5
13	Steel Roof Conductor Holders with Plastic base	EL-IV-1209001	5
14	"Roof Conductor Holder Press to Fit" type without Plastic Base	EL-IV-1222201	5
15	"Roof Conductor Holder Press to Fit" type with Plastic Base	EL-IV-1202601	5
16	Snap Type Plastic Roof Conductor Holders	EL-IV-1289001	6
17	Snap Type Plastic Roof Conductor Holder without Round Base	EL-IV-1289002	6
18	1 Kg Concrete Roof Conductor Holders on Flat Roof	EL-IV-1269001	6
19	1 Kg Concrete Roof Conductor Holders on Flat Roof	EL-IV-1269002	6





SI No.	Products Name	Part Nos.	Page No.
20	Standing seam with Cleat on sloping Metallic Roof	EL-IV-1227003	6
21	Standing seam with Cross Connector on sloping Metallic Roof	EL-IV-1227004	6
22	Standing seam for sloping Metallic Roof vertical Joints	EL-IV-1227002	6
23	"Girder Clamp - Horizontal Flange" with Clamping Shoe	EL-IV-3233001	6
24	"Girder Clamp - Vertical Flange" with Clamping Shoe	EL-IV-3233002	7
25	Splicer/Straight Connector	EL-IV-1219002	7
26	Extension Piece	EL-IV-1219001	7
27	Fixed earth terminal	EL-IV-1329001	7
28	Strike Pad with stud	EL-IV-1329002	7
29	U-Clamp with conductor Holder	EL-IV-1329004	7
30	Multi Clamp	EL-IV-1229002	7
31	Saddle Clip with Pad for "Copper Cable with PVC Sleeve"	EL-IV-1329005	7
32	Shoe Clamp for Conductors	EL-IV-3222501	8
33	Epoxy Insulated Holder	EL-IV-1389001	8
34	Cross Connector Round to Flat	EL-IV-1329012	8
35	Cross Connector Round to Round	EL-IV-1329011	8
36	Cross Connector Flat to Flat	EL-IV-1329013	8
37	Disconnecting Clamp Round to Flat	EL-IV-1329006	8
38	Disconnecting Clamp Round to Round	EL-IV-1329008	8
39	Disconnecting Clamp Flat to Flat	EL-IV-1329007	8
40	Lightning Strike Counter	EL-IV-1309001	8







1. AIR TERMINATION ROD & ACCESSORIES

The length of ATR and No. of ATR to be selected in the lightning protection system. Material is AlMgSi. In Lightning protection system this is mounted vertically on the top most point of the structure.

General Tehnical Data

Material of Air Termination Rod		AlMgSi		
Standard		EN62561-2	EN62561-2	
Part No.	EL-IV-1111602	EL-IV-1111604	EL-IV-1111606	
ATR	1Mtr.	2Mtr.	3Mtr.	
O.D.	16mm	16mm	16mm	
Total Length	1 Mtr.	2 Mtr.	3 Mtr.	
No. of Clamps	1	2	2	
Max gust wind speed	186 Km /h	186 Km /h	188 Km /h	



2. SPIKE

The length of Spike is 0.5 Mtr. And it has additional fixing length of 0.5 Mtr. It will be fitted at 0.4Mtr. apart at two points in fixing length.

General Tehnical Data

Material of Spike	AlMgSi	
Standard	EN62561-2	
Part No.	EL-IV-1110801	
ATR	0.5Mtr.	
O.D.	8mm	
Total Length	0.5 Mtr.	
No. of Clamps	2	
Max gust wind speed	186 Km./h	



3. SIDE WALL CLAMP

Side Wall Clamp is a vertical mounting bracket for Air Termination Rod. It maintains 50mm distance from mounted wall surface.

General Tehnical Data

Material of Side Wall Clamp	SS
Standard	EN62561-1
Part No.	EL-IV-1229001
Clamping range	15 - 20 mm
distance from wall	50mm
Dist. between 2 Fixing Screws	90mm



4. SELF SUPPORTING CONCRETE BASE

Concrete base provided to ATR is a self supporting base. This is used on flat roofs. This support to ATR, either as a single support or in multiples, as the case may be. The ATR will be fixed in the GI bush of Concrete Block with the glue.

General Tehnical Data

Material of Concrete Base		ncrete C45/55
Part No.	EL-IV-1269001	EL-IV-1269002
Weight	18 Kgs	9 Kgs
Base Diameter	340mm	240mm
Supporting Height	90mm	90mm
Compressive strength	28MPa	28MPa



5. TRIPOD STAND

To support ATR vertically on Flat roofs, Tripod Stands are used. It is having a SS Tube to hold ATR. ATR is fixed by gluing in the tube. There are three resting points, equally distributed on a circle of 1 Mtr.Dia. It is a rigid support to ATR

General Tehnical Data

GI/SS
EN62561-1
EL-IV-2229001
Dia.16mm
Circle of ø1Mtr.
20 Kgs.



6. Fixture on the Ridge of sloping Metallic Roof

Frame of GI Stip of size 25X6 mm, is fabricated keeping a moderate clearence over the ridge of sloping metallic roof. A base plate is fastened over the Frame. A GI bush is welded to Base Plate, so that the ATR can be mounted on it vertically. The length of Bush depends upon the length of ATR. The ATR is fixed by gluing in the Bush or can be fastened with 2 Nos of M8 Screws.

General Tehnical Data

Contoral Torrinoal Bata	
Material of Fixture	GI
Standard	EN62561-1
	1
Part No.	EL-IV-2239001
GI Strip for Frame	25X6mm
Restig Length on either side	0.5 Mtr.each side
No. of fastening on either side	2Nos on each side
Max Gust Wind Speed	186 Km./h



7. Parallel Connector

The Parallel connector is mainly used to connect two ends of parallely laid conductors. In the same way it can also be used to clamp Spike rods.

Material of Parallel Connector	SS
Standard	EN62561-1
Part No.	EL-IV-1219003
Material Sheet Thickness	2.8mm
Clamping Range round	ø8- ø10mm
No. of Screws	1
Size of Screw	M8-20L













8. ATR Clamp cum Connector

ATR Clamp cum connector is clamped on ATR. Maximum two conductors can be held in this connector to connect with ATR.

General Tehnical Data

Mat.: ATR Clamp cum connector	Al
Standard	EN62561-1
Part No.	EL-IV-1119001
Material Thickness	30mm
Clamping Range round	ø16mm
Holding Range of conuctors	2 X ø8-ø10mm
No. of Screws	4
Size of Bolt, Nut, Thrust Washer	Hex Hd.M8
No.of Cleats	2



9. Aluminium Round Conductor

Aluminium Round Conductor of ø8mm is used of Lightning Prtection System according to EN62561-2 as Roof and Down conductors.

General Tehnical Data

Material of Al.Round Conductor	AlMgSi
Standard	EN62561-2
Part No.	EL-IV-1210801
OD of Conuctor	ø8mm
Cross section	50mm2
Material condition	Semi Rigid
Coil Weight	App.21.5 Kgs.



10. GI Flat Conductor

GI Flat Conductor of size 25X6mm is used in Lightning Prtection System and in Earth Termination system, according to EN62561-2.

General Tehnical Data

Material of GI Flat Conductor	low carbon steel
Standard	EN62561-2
Part No.	EL-IV-1232502
Size of Flat Conuctor	25X6mm
Cross section	150mm2
GI Coating	80 microns



11. SS Round Conductor

SS Round Conductor of ø10mm is used in Lightning Prtection System and in Earth Termination system, according to EN62561-2.

General Tehnical Data

Material of SS Round Conductor	SS
Standard	EN62561-2
Part No.	EL-IV-1221001
Size of SS Round Conuctor	10mm
Cross section	78.5mm2



12. Copper Cable Round Conductor

Copper Cable Round Conductor of ø8mm is used in Lightning Prtection System and in Earth Termination system, according to EN62561-2.

General Tehnical Data

Mat.: Copper Round Conductor	Copper
Standard	EN62561-2
Part No.	EL-IV-1240801
Size of Copper Round Conuctor	8mm
Cross section	50mm2
Outer Dia. With PVC Sleeve	13mm
No.of Strands X Wire Dia.	19NosXø1.8 mm



13. Steel Roof Conductor Holder with Plastic Base

Roof Conductor Holder with Plastic Base is used in LPS system to hold conductors of size ranging from ø8 to ø10mm. It is used to hold horizontal & vertical conductors.

General Tehnical Data

Material of Steel RCH	SS316L
Standard	EN62561-2
Part No.	EL-IV-1209001
Holding Range	ø8 to ø10mm
Height of Conductor	(20 + 20)mm
Holder Fixing Screws	2 X M8 Screw



14. "Roof Conductor Holder Press to Fit" type without Plastic Base

"Roof Conductor Holder Press to Fit" type without Plastic Base is used in LPS system to hold conductors of size ranging from ø8 to ø10mm. It is used to hold horizontal & vertical conductors.

General Tehnical Data

Material	SS	
Standard	EN62561-1	
Part No.	EL-IV-1222201	
Base Size of RCH	34 X 30 mm	
Height of Conductor	22mm	
Holding Range	ø8 to ø10mm	



15. "Roof Conductor Holder Press to Fit" type with Plastic Base

"Roof Conductor Holder Press to Fit" type with Plastic Base is used in LPS system to hold conductors of size ranging from ø8 to ø10mm. It is used to hold horizontal & vertical conductors.

Material	SS	
Standard	EN62561-1	
Part No.	EL-IV-1202601	
Height of Conductor	26mm	
Holding Range	ø8 to ø10mm	













16. Plastic Roof Conductor Holder with Round Base

Plastic Roof Conductor Holder with round base is used in LPS system to hold conductors of size ranging from Ø8 to Ø10mm. It is used to hold horizontal & vertical conductors.

General Tehnical Data

Material of Plasic RCH	Plastic
Standard	EN62561-2
Part No.	EL-IV-1289001
Base Size of RCH	ø65mm
Height of Conductor	37mm
Holding Range	ø8 to ø10mm



17. Plastic Roof Conductor Holder without Round Base

Plastic Roof Conductor Holder without round base is used in LPS system to hold conductors of size ranging from Ø8 to Ø10mm. It is used to hold horizontal & vertical conductors.

General Tehnical Data

Material of Plasic RCH	Plastic
Standard	EN62561-2
Part No.	EL-IV-1289002
Height of Conductor	37mm
Holding Range	ø8 to ø10mm



18. 1 Kg Concrete Roof Conductor Holder-Snap type

Concrete Roof Conductor Holders are used in LPS system to hold conductors on Flat roof only. The holding range is from Ø8 to Ø10mm. It is used to hold horizontal conductors.

General Tehnical Data

Material of Concrete RCH	C35/55
Part No.	EL-IV-1269001
Holding Material	Plastic
Holding Range	ø8 to ø10mm
Height of Conductor	70mm



19. 1 Kg Concrete Roof Conductor Holder Cleat type

Concrete Roof Conductor Holders are used in LPS system to hold conductors on Flat roof only, by fixing with cleat. The holding range is from Ø8 to Ø10mm. It is used to hold horizontal conductors.

General Tehnical Data

Material of Concrete RCH	C35/55
Part No.	EL-IV-1269002
Holding Material	Plastic
Holding Range	ø8 to ø10mm
Height of Conductor	60mm



20. Standing Seam with Cleat

Standing Seam with Cleat is used in LPS system on sloping metallic roof where this can be clamped to one of the elements on or near the roof sheet. The roof conductor will be held in Cleat.

General Tehnical Data

Material	SS / GI
Standard	EN62561-2
Part No.	EL-IV-1227003
Clearence below Condctor	70 mm
Holding range	ø8 - ø10 mm



21. Standing Seam with Crooss Connector

Standing Seam with Cross Connector is used in LPS system on sloping metallic roof where this can be clamped to one of the elements on or near the roof sheet. The roof conductor as well as Down Conductor will be held in Cross Connector.

General Tehnical Data

Material	SS / GI
Standard	EN62561-1
Part No.	EL-IV-1227004
Clearence below Condctor	70 mm
Holding Range	ø8 to ø10mm



22. Standing Seam on vertical Roof JOINT

Standing Seam on vertical Roof Joints is used in LPS system on sloping metallic roof where this can get clamped to the roof sheet vertial joint. With a set of 2 or 4 Nos ATR Base Plate can be mounted on it. It can also be used as a single clamp with cleat to hold roof conductors

General Tehnical Data

Material	SS / GI
Standard	EN62561-1
Part No.	EL-IV-1227002
Clearence below Condctor	70 mm
Holding Range	ø8 to ø10mm



23. Girder Clamp - Horizontal Flange with Clamping Shoe

This combination is used in LPS system on sloping metallic roof where this can be clamped to Girder and the roof conductor will be held in Shoe clamp.

Material	GI
Standard	EN62561-2
Part No.	EL-IV-3233001
out side Size	30 X 25 X 75 mm
Holding range	3 - 18 mm











24. Girder Clamp - Vertical Flange with Clamping Shoe

This combination is used in LPS system on sloping metallic roof where this can be clamped to Girder and the roof conductor will be held in Shoe clamp.

General Tehnical Data

Material	GI
Standard	EN62561-2
Part No.	EL-IV-3233002
out side Size	30 X 25 X 75 mm
Holding Range	3 - 18 mm



25. Splicer / Straight Connector

Splicer / Straight Connector is used in LPS system to connect and clamp two ends of Conductors which are laid in a line. Holding range is from Ø8 to Ø10mm.

General Tehnical Data

Material of Straight Connector	Al
Standard	EN62561-1
Part No.	EL-IV-1219002
Holding Range	ø8 to ø10mm



26. Extension Piece

Extension Piece is used in LPS system to accommodate expansion/ Contraction of conductors, on roof, depending upon the seasons. It is fitted in conductors on roof after every 20 Mtrs. with Splicer / straight connectors

General Tehnical Data

Material of Expansion Piece	Al (AlMgSi)
Standard	EN62561-2
Part No.	EL-IV-1269001
Size	ø8 X 395mm L



27. Fixed Earth Terminal

Fixed Earth Terminals are used in LPS system to enable to connect, concealed conductor either in Columns or in walls with the conductors which are laid on the surface of columns and walls.

General Tehnical Data

Mat.: Fixed earth terminal	SS
Part No.	EL-IV-1329001
Connecting Thread Sze	M10 / M12
Connection Round Plate	ø80mm



28. Strike Pad with Stud

Strike Pads, in LPS system, are used to arrest Flash currents if any exist, above 60 Mtrs. Of Structure. And its Stud connects the flash current to down conductors. They are mounted on a conductor ring laid around outer surface of the structure.

General Tehnical Data

Jonoral Torringal Data	
Material of Strike Pad	Al
Standard	EN62561-1
Part No.	EL-IV-1329002
Size	Base ø80 X 35 ht
Fixing provision	M8 Tapped Hole



29. U-Clamp with Cleat

In Lightning protection system, when the conductors are cocealed in columns, U-Clamps will be clamped to reinforcement bars and the conductor will be held in its cleat. Similar application can also be done on Metallic roof.

General Tehnical Data

Material of U Clamp	SS /GI
Standard	EN62561-1
Part No.	EL-IV-1329004
Clamping & Holding Range	ø32 MM / ø8mm



30. MV Clamp

To Clamp and connect two conductors in parallel or across, Vertically or Horizontally, this clamp is used in LPS System.

General Tehnical Data

Material of MV Clamp	SS
Standard	EN62561-1
Part No.	EL-IV-1229002
Holding Range	ø8 to ø10mm
Hex Head / Truss Head Screw	M8 -25L



31. Saddle Clamp with Pad

This is used in LPS system to hold conductors of cable with PVC Sleeve.

Material	SS
Standard	EN62561-1
Part No.	EL-IV-1329005
Holding Range	ø10 - 13 mm











LPS COMPONENTS



32. Shoe Clamp

Shoe Clamps are used in LPS system to hold conductors at various locations.

General Tehnical Data

Mat.: Shoe Clamp	SS
Standard	EN62561-1
Part No.	EL-IV-3222501
Holding Range	ø10mm
Size	25x30 mm



33. Epoxy Insulating Holder

These are used in LPS system to hold Flat Conductors Vertically / Horizontally.

General Tehnical Data

Mat.:Epoxy Insulating Holder	Red Epoxy
Part No.	EL-IV-1389001
Clamping Screws	2 X M8-12 L
Flat Size to Accommodate	25X3 / 25X6
Dist_from surface	10mm



34. Cross Connector round to Flat

To Clamp and connect two conductors round & Flat across, this clamp is being used.

General Tehnical Data

Material of cross connector	SS
Standard	EN62561-1
Part No.	EL-IV-1329012
Holding Range	ø8-ø10mm/30mm
Screw Size	4XHex Hd M8 Sc.



35. Cross Connector round to round

To Clamp and connect two conductors round & round across, this clamp is being used.

General Tehnical Data

Control of the Control of the Control	
Material of cross connector	SS
Standard	EN62561-1
Part No.	EL-IV-1329011
Holding Range	ø8-ø10mm
Scrow Size	AYHey Hd M8 Sc



36. Cross Connector Flat to Flat

To Clamp and connect two conductors Flat & Flat across, this clamp is being used.

General Tehnical Data

Material of cross connector	SS
Standard	EN62561-1
	=- 11
Part No.	EL-IV-1329013
Holding Range	30 / 30 mm
Screw Size	4XHex Hd M8 Sc



37. Disconnecting Clamp Round to Flat

This is used to connect/diconnect down conductors with the link leadig to earth grid ring

General Tehnical Data

Material of disconnecting clamp	SS
Standard	EN62561-1
Part No.	EL-IV-1329006
Holding Range	ø10mm / 30mm



38. Disconnecting Clamp Round to Round

This is used to connect/diconnect down conductors with the link leadig to earth grid ring

General Tehnical Data

Material of disconnecting clamp	SS
Standard	EN62561-1
Part No.	EL-IV-1329008
Holding Range	ø8 - ø10mm



39. Test Clamp / Disconnecting Clamp Flat to Flat

This is used to connect/diconnect down conductors with the link leadig to earth grid ring

General Tehnical Data

Material of disconnecting clamp	SS
Standard	EN62561-1
Part No.	EL-IV-1329007
Holding Range	30mm



40. Lightning Strike Counter

This is used to count the impulse current occurred between equipotential bonding busbar and earths termination system.

Material of LSC	Plastic Body	
Part No.	EL-IV-1309001	
Digits displayed in counter	6 Digits	
Size of Counter	45X60X55Ht.	













Incorporated in the year 2021 our companies involved in following activities -

Sale & servicing of Electricals safety - Mainly Design, Supply, Installation, Testing & Commissioning of Lightning Protection System, Maintenance Free Earthing Systems, Surge Protection Devices, Under the name of "IVANAH".

We have register Head office in Mumbai, a branch office at Pune. Serving Area all Over India & supply of the materials throughout India.

Balkrishna Bapu Chavan

B.E. (Mech), MDBA

Certified profession by Siemens for 3D Modeling in Solid Edge Software. 30 Years experience in manufacturing field in various industries like Automobile, Foundry and Compressor for Railways & Ships, Sugar Plant Equipment Manufacturing etc. 18 Years experience in Design & Drafting

Mr. Pradeep Lahot Electrical Engineer

Pradeep Lahot is an Electrical Engineer. He has work experience with French multinationals for 10 years before entering in to own business. He has traveled all over the country & to leading countries abroad on occasions & his exposed to the global developments & technologies. From the beginning of his career he dedicatedly involve only in the field of Lightning. He has vast knowledge in the field of Lightning Protection System Globally.











