



SOLUTION PROVIDERS FOR AN ENERGIZED WORLD™

Grounding / Bonding Solutions • Surge Protection • Lightning Protection

Lightning Protection Equipment Catalog

Alltec Traditional/Conventional Lightning Protection System

ALLTEC is a leader in applying global engineered solutions that reduce risks associated with direct and indirect lightning strikes, as well as diminishing hidden effects of surge events. We focus continuously on innovating new technology, improving solutions, refining product quality, and enhancing customer service. As *Solution Providers for an Energized World*, our comprehensive approach to facility protection is used to solve the world's most difficult lightning, grounding, and power quality problems. ALLTEC has the knowledge, experience, and products to provide the optimal protection solution.

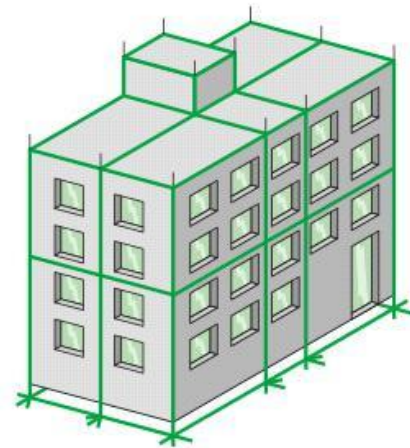
All of our products are made from high-quality materials with strict quality assurance procedures to ensure that all of our parts will perform to specification and provide many years of worry-free service. The products includes are:

- 1) Air Terminal and Terminal Bases
- 2) Down Conductor Holder at roof terrace, and down conductor holder at wall surface
And parapet,
- 3) Clamps, Connectors, Fasteners, and Hardware
- 4) Saddle Rod Brackets & Coupling Metric System

Standards & Code Specification Compliance

ALLTEC is accredited and certified by numerous standards authorities. As an expert in the latest approved standards and code specifications for grounding and lightning protection systems, ALLTEC is a sought-after member of standards committees. When your company enlists our complete turn-key services, you ensure compliance with these organizations.

NBC - 2016
IEEE 80 & 81
UL 96A & UL 1449
NFPA 780
LPI 780
API 2003 & API 545
IEC 62305 & IEC 61643



Alltec Experties:

1. Designing of Lightning protection system as per NBC-2016
2. Structure Lightning Protection
3. Lightning Risk assessment.
4. Technical support
5. Earthing design and Termination.
6. Site Surveys and analysis
7. Soil Resistivity tests and surveys.

Table as per NBC-2016 Clause 11.5.1.2: Maximum values of mesh size and protection angle corresponding to class of LPS

SI No	Class of LPS	Mesh Size (m)	Rolling Sphere Radius(m)	Protection angle with respect to height (m)				
				10m	20m	30m	45m	60m
	I	5x5	20	45	23	-----can not be used-----		
	II	10x10	30	54	38	23	-----can not be used-----	
	III	15x15	45	62	48	36	3	--can not be used-
	IV	20x20	60	65	54	45	34	23

Vertical Air Terminals

Alltec Air Terminals meet or exceed the material specifications and requirements of Underwriters Laboratories, Inc., (UL®) and the Lightning Protection Institute (LPI). Air Terminal (**1148A**) 1/2 – 48” UNC Threads – Standard

Part No	Description	Weight	
1112A	Air Terminal, Aluminium, 1/2" dia., 12"	0.10 kg	
1116A	Air Terminal, Aluminium, 1/2" dia., 16"	0.14 kg	
1118A	Air Terminal, Aluminium, 1/2" dia., 18"	0.16 kg	
1124A	Air Terminal, Aluminium, 1/2" dia., 24"	0.20 kg	
1136A	Air Terminal, Aluminium, 1/2" dia., 36"	0.30 kg	
1148A	Air Terminal, Aluminium, 1/2" dia., 48"	0.40 kg	


Cross Connector: cross connector for 8mm Aluminum conductor

Part No	Description	Weight
 3231A	Clamp, Aluminium, for Cross Runs, Mechanical	113.2 g


Universal Connector: T/L/Straight connector for 8mm Aluminum conductor

Part No	Description	Weight
 3232A	Clamp, Aluminium, for Straight/U Runs, Mechanical	86.0g


Downn Conductor: 8mm Aluminum down conductor

Part No	Description	Weight
 4321A	8mm Aluminum Conductor	140g/m


Conductor Holder: Poly plastic Conductor holder for Terrace surface

Part No	Description	Weight
 5321A	Conductor Holder for Terrace/Flat Surface	900kg


Conductor Holder: Conductor holder for Wall/parapet surface

Part No	Description	Weight
 5322A	Conductor Holder for wall/Parapet	8.8 g


Conductor Holder: Metal Conductor holder for metal roof/wall

Part No	Description	Weight
 5323A	Metal Conductor holder for metal roof/wall	26.9g


Expansion Piece: Joint for expansion and contraction of conductor

Part No	Description	Weight
 6321A	Aluminum, compensate the expansion and contraction of conductor	74g


Test Link Joint: Connects round and flat conductor

Part No	Description	Weight
 7321A	Aluminum link ,connects round and flat conductor	87.5g


Folding Conductor Holder: Metal Conductor holder for metal roof

Part No	Description	Weight
 8321A	Metal Conductor holder for metal roof/wall	95g


Aluminum Ferrule : Aluminum ferrule to connect 8 mm Al Conductor

Part No	Description	Weight
 9321A	Aluminum ferrule to connect 8 mm Al Conductor	11g


Earthing: UL Listed CU Bonded Earthing System

Part No	Description	Weight
	UL Listed & CPRI Tested maintenance free ,Low carbon copper coated earth rod of 3 metre electrode having diameter of 17.2 mm with copper coating thickness of 250micro with 25 KG of Alltec Terafill Backfill compound	31.6Kg


U Clamp : U Bolt Clamp

Part No	Description	Weight
 9322A	U Bolt Clamp to connect vertical conductor up to 32mm	169 g

U Clamp : U Bolt Conductor Clamp

Part No	Description	Weight
 9323A	U Bolt Clamp to connect vertical conductor up to 32mm with horizontal conductor 12mm	282 g

Straight Connector: Straight Connector Clamp

Part No	Description	Weight
 9324A	Straight Connector for 10mm Conductor	150 g

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