



INOVATOR  
SPLITZEN  
TECHNOLOGY

EF-60

Home Edition

**Evo Franklin**<sup>TM</sup>  
lightning protection

Early Streamer Emission (ESE)



ESE Lightning Protection

Distributor :



**Evo Franklin**<sup>TM</sup>  
lightning protection

Early Streamer Emission (ESE)



EF-150



Futuristic Technology

Modern Design

No Power Supply or Solar Cells

No Radioactive

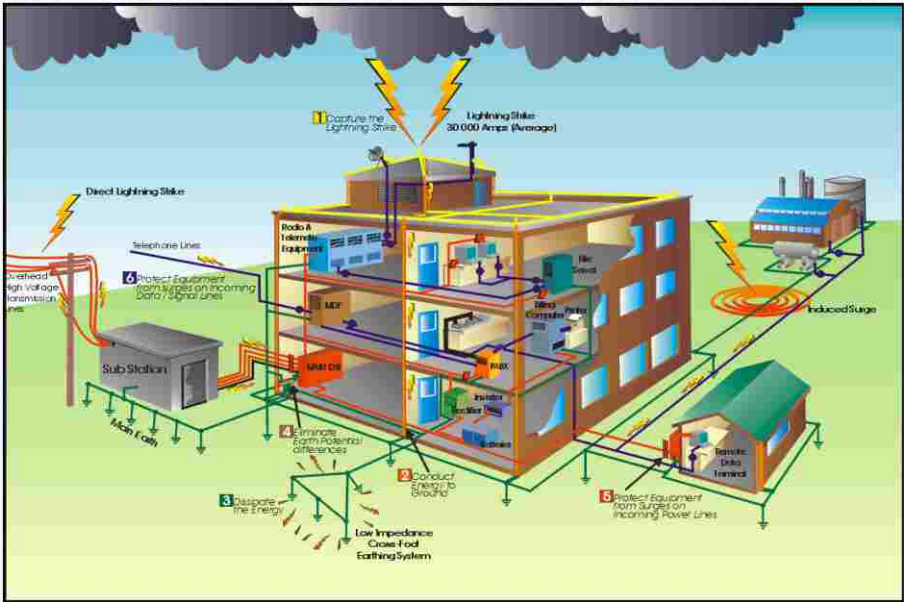
Discharge Current 300 kA

Protection Radius 60-150m



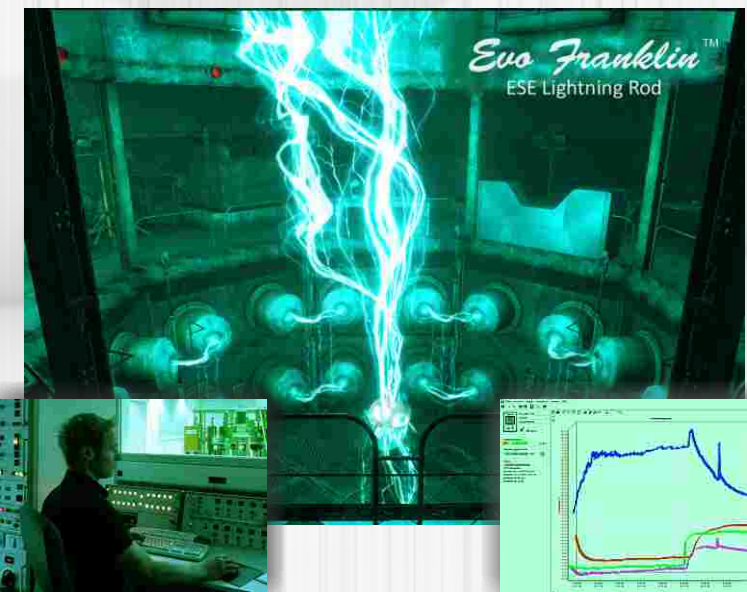
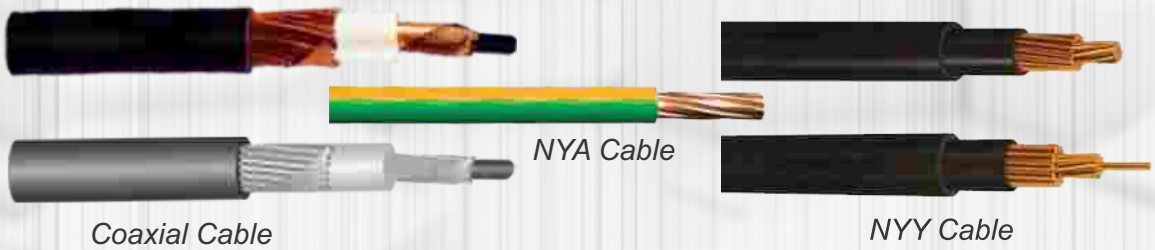
### How Evo Franklin Work ?

Lightning initiates from an electrical storm which usually generates within a cumulonimbus cloud. When electrical energy has built up within such a cloud a "leader" of energy leaves it and will try to attach it self to a point on the ground which contains the most particles of energy of reverse polarity. Some 90% of such "leaders" contain negative charges. It has long been the endeavour of lightning protection specialists such as to Evo Franklin create a preferred point of attachment as offered by the Evo Franklin and more recent times, to do so effectively so that large areas of protection can therefore be provided from a single lightning terminal.



### Downconductors

HVSC is a high integrity low impedance cable which is particularly effective on structures containing high density human occupancy and those which contain sensitive electronic equipment, volatile liquids and other sensitive applications.





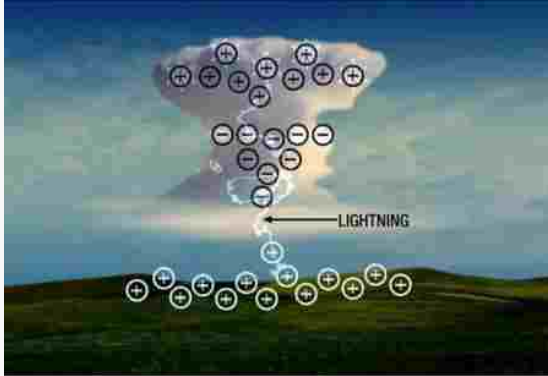
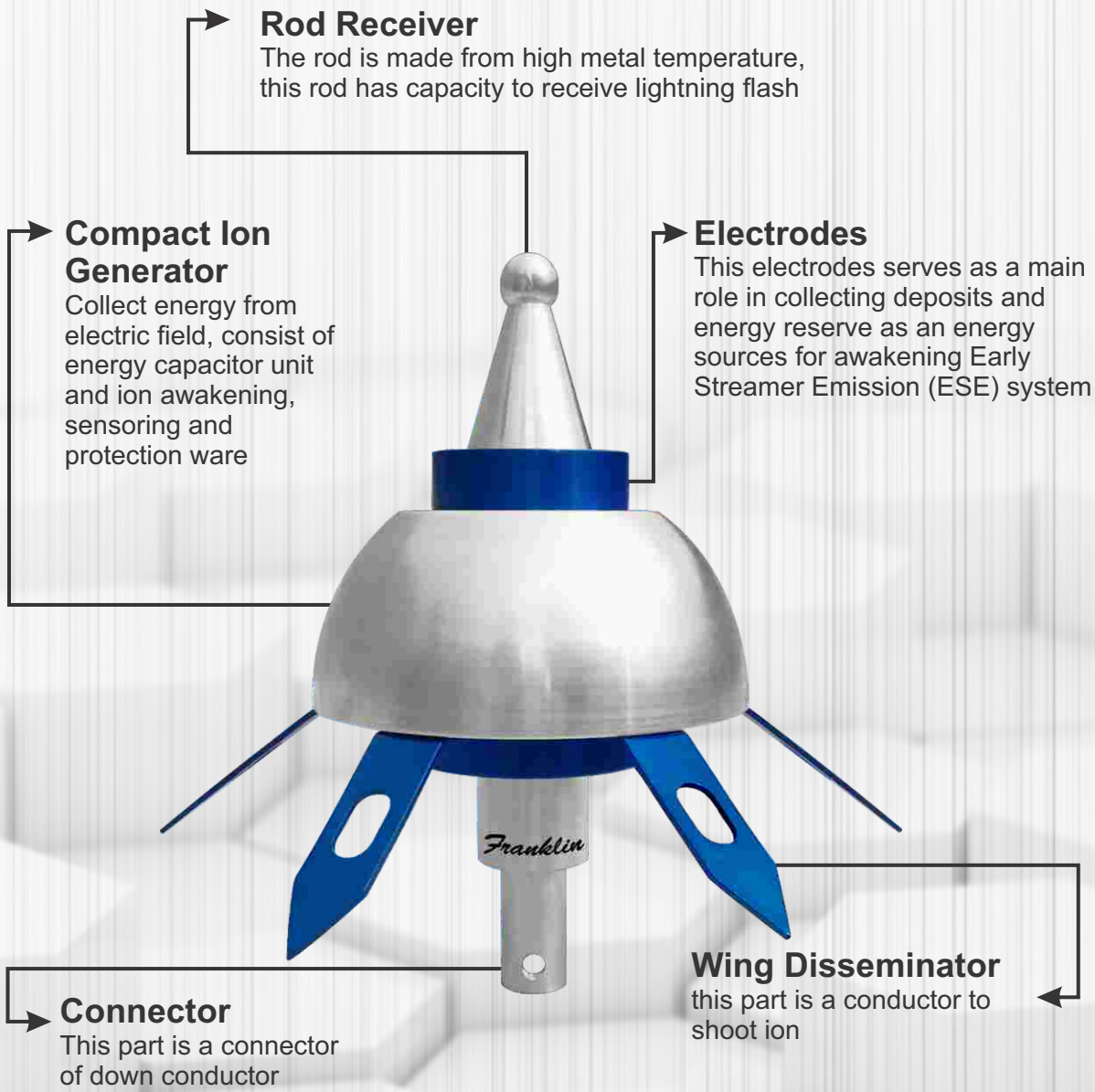
### Research and Development

The company has an on going commitment to Research and development. Evo Franklin personnel and their associates have been involved in a number of field trials throughout lightning prone regions of the world. This experience has extended throughout such countries as Thailand, Indonesian, USA and Africa.



### Product Specification

	Name Evo Franklin		Name Evo Franklin
Model / Type EF-60 (Home)	Model / Type EF-150	Model / Type EF-150	Model / Type EF-150
Color Available Silver Blue	Color Available Silver Blue	Color Available Silver Blue	Color Available Silver Blue
Rate Radius 60 m	Rate Radius 60 m	Rate Radius 150 m	Rate Radius 150 m
Weight 1,5 kg	Weight 1,5 kg	Weight 3,5 kg	Weight 3,5 kg
Total Length 30 cm	Total Length 30 cm	Total Length 30 cm	Total Length 30 cm
Outer Diameter 2 inches	Outer Diameter 2 inches	Outer Diameter 6 inches	Outer Diameter 6 inches
Resistance Available 2 - 5 ohm	Resistance Available 2 - 5 ohm	Resistance Available 0,2 - 2,5 ohm	Resistance Available 0,2 - 2,5 ohm

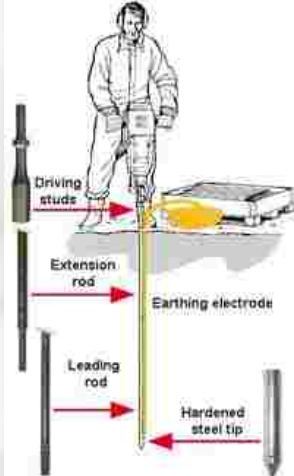
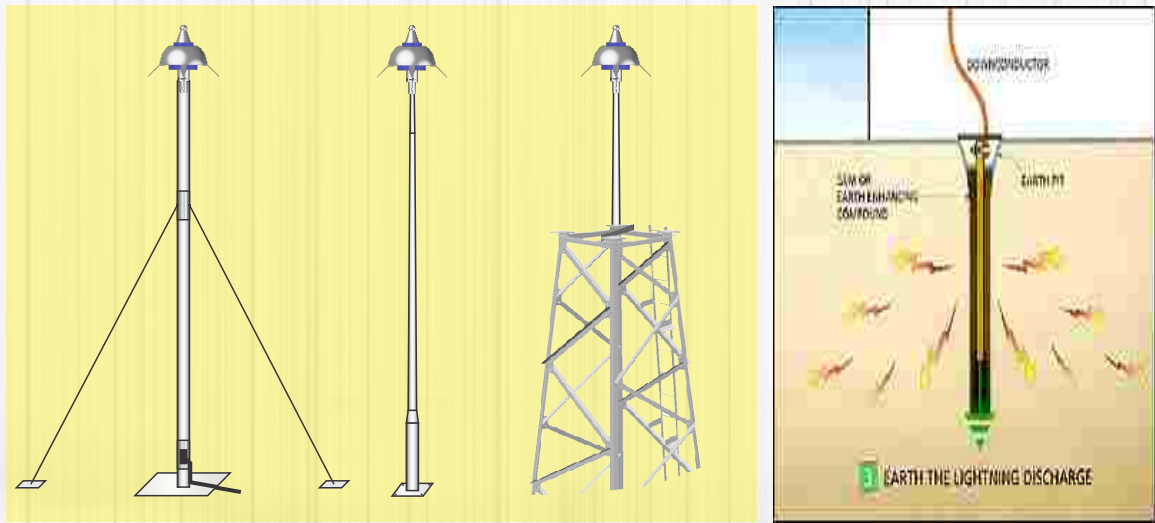


### What is lightning ?

Lightning is one of the most beautiful displays in nature. It is also one of the most deadly natural phenomena known to man. With bolt temperatures hotter than the surface of the sun and shockwaves beaming out in all directions, lightning is a lesson in physical science and humility. Beyond its powerful beauty, lightning presents science with one of its greatest local mysteries: How does it work? It is common

knowledge that lightning is generated in electrically charged storm systems, but the method of cloud charging still remains elusive. Lightning begins with a process that's less mysterious: the water cycle. To fully understand how the water cycle works, we must first understand the principles of evaporation and condensation.

### Monopole Instalation



### EF Earthing System

In electricity supply systems, an earthing system or grounding system is circuitry which connects parts of the electric circuit with the ground, thus defining the electric potential of the conductors relative to the Earth's conductive surface. The choice of earthing system can affect the safety and electromagnetic compatibility of the power supply. In particular, it affects the magnitude and distribution of short circuit currents through the system, and the effects it creates on equipment and people in the proximity of the circuit. If a fault within an electrical device connects a live supply conductor to an exposed conductive surface, anyone touching it while electrically connected to the earth will complete a circuit back to the earthed supply conductor and receive an electric shock.

Structure Height Installed EF terminal (typical 5m above structure)	Protection Level High		Protection Level Standart		Protection Level Low	
	EF-60	EF-150	EF-60	EF-150	EF-60	EF-150
10	45	110	60	130	70	140
20	60	130	75	150	85	160
25	70	140	85	160	95	170
30	80	150	95	170	105	180
35	90	160	105	180	115	190