

# Evolutionary Invention That Puts an End to Lightning Accidents

We have taken lightning avoidance technology to its limit. Rather than preventing lightning strikes altogether, this device simply makes it more difficult for strikes to occur at that location. Patented in the United States of America, homeland of the inventor of the original lightning rod, Benjamin Franklin.

It's not just a sphere. This device employs a two-layer structure with the lower electrode integrated inside an exterior consisting of the upper electrode of the conventional PDCE, improving performance by making it more difficult for electrical discharge to occur even in strong electrical fields.

## It's called the Anti Lightning Ball®

We have trademarked the English name: "ALB (Anti Lightning Ball)".

Patented in Japan and the USA



	Diameter	Height	Weight	Material
Large	200 mm	390 mm	5.5 kg	SUS316L
Small	120 mm	235 mm	2.2 kg	SUS316L



## MBS BUSINESS SOLUTIONS®

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# The Final Form of Lightning Protection Systems

Prevents lightning accidents by not inviting lightning strikes

To that end, the device prevents “upward streamers” from generating from the ground

## Older lightning protection systems

Actively invites lightning strikes via upward streamers

The invited lightning currents run along the rain-soaked ground, causing damage

## Anti Lightning Ball

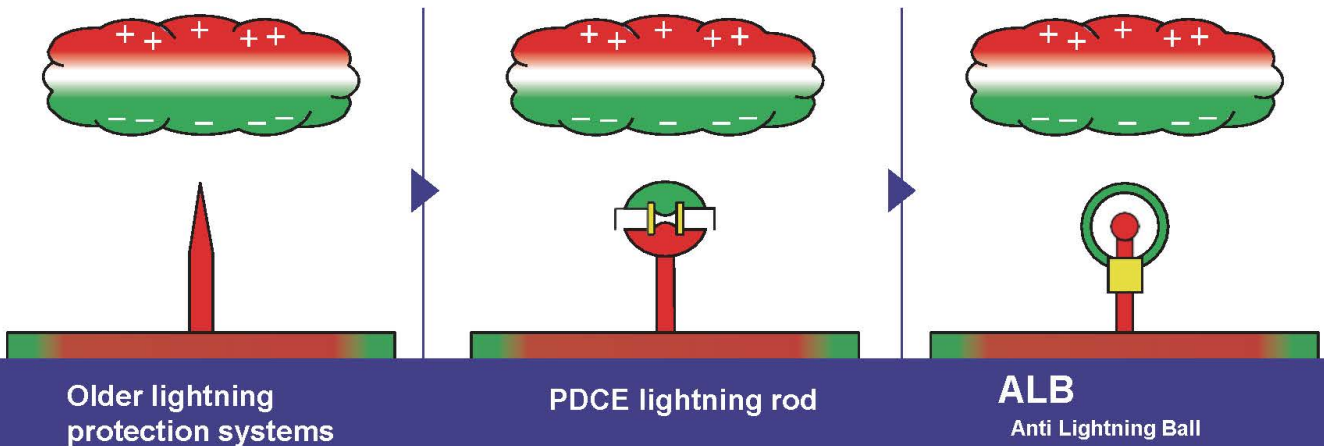
Two-layer solid capacitor makes it difficult for upward streamers to form

Avoids inviting lightning strikes as much as possible so there's no damage caused by lightning currents

**Q.** If lightning doesn't strike, where does it go?

**A.** Discharge in the air (within and between clouds) accounts for 80%. The remaining 20% strikes the earth as lightning.

## Structural evolution towards increasing discharge voltage, culminating in the Anti Lightning Ball



Green Negative charge Red Positive charge

Proven performance in discharge voltage testing under the French NF C17 standard  
Patented in both Japan and the USA



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