

A-Core Container

Samoa Communication Green Base Station Lightning Protection



Overview

What is a hybrid lightning protection package?

A hybrid lightning protection package that offers a robust and cost-effective solution for communication towers. Provides a total Lightning Protection System (LPS) which includes direct strike protection, surge protection and grounding. Why is this solution more efficient?

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Is a telecommunication tower impacted by lightning?

If the antenna is installed on the top of telecommunication tower, e.g., antenna positions 1 of Figure 29, it is considered to be impacted by or exposed to direct lightning strikes. Refer to [IEC 62305-3] for detail information about the protection angles and volume protected by an air termination system.

What is LEC lightning protection?

With this in mind, LEC has created a solution which makes it easy to implement a complete lightning protection system specifically designed with a tower's safety and operations in mind. A hybrid lightning protection package that offers a robust and cost-effective solution for communication towers.

How does a lightning protection system work?

Reduces the risk of a direct strike by lowering the electric field to below lightning-collection levels within the protected area. Safely collects any strikes it cannot prevent from virtually any direction, creating a larger area of protection. Designed specifically for structures that require lightweight protection with a low wind profile.

How to protect the navigation light system in the equipment room?

Figure 12 shows protection of the navigation light system in the equipment

room. If the NL has internal control circuits or it is based on LED technology, then an SPD is required on the top of the tower to protect the lamp. This SPD can be integrated into the lamp box.

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Contact Us

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