

Mobile communication green base station lightning protection specification

TYPE JSYJ-45SJ-AE		MANUFACTURER'S NO. OF THE CONTAINER YJ24-1217	
OWNER'S NO. YJCU 241217 8		NO EXPOSED TIMBER	
CSC SAFETY APPROVAL			
GB-LR 28704-12/2024		FIRST MAINTENANCE EXAMINATION DATE	
DATE MANUFACTURED	12/2024		
IDENTIFICATION NO.	YJ24-1217		



Overview

What is a type 1 Lightning current arrester?

This is why the standard DIN EN 62305 (IEC 62305) mandates a type 1 lightning current arrester at the boundary between lightning protection zone 0 B and 1. In mobile communication stations, this boundary typically aligns with the base station's outlet.

Do mobile communication components need protection against lightning and overvoltage damage?

Mobile communication components, with their sensitivity and costliness in terms of procurement and upkeep, demand robust protection against lightning and overvoltage damage. A meticulously designed protection strategy is thus essential and advantageous in this context.

How should a lightning protection System (RBS) be formed?

The earthing network of an RBS should be formed by a ring loop surrounding the tower, equipment room and fence, at a minimum. The mean radius r_e of this ring loop should be not less than l_1 , as indicated in Figure 1 and this value depends on the lightning protection system (LPS) class and on the soil resistivity.

Why do cell sites need to be protected from lightning strikes?

Cell sites are essential for communication infrastructure and need to be shielded from power surges caused by lightning hits. A major concern for telecom operators is towers going offline due to lightning strikes, which often target the tallest structures in a region.



Mobile communication green base station lightning protection spec



[ITU-T Rec. K.112 \(07/2019\) Lightning protection.](#)
[...](#)

Lightning protection, earthing and bonding:
Practical procedures for radio base stations
Summary Recommendation ITU-T K.112 provides
a set of practical procedures related to the
lightning ...

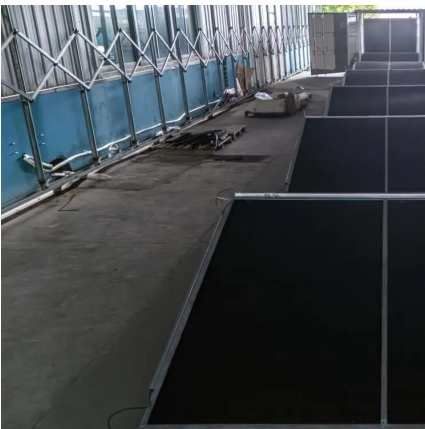
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Our solutions for lightning and surge protection
in the telecommunications sector not only
protect equipment, power and data supply, but
also - critically - your employees. And with the
broad ...



[Lightning protection, earthing and surge
protection of base](#)

Dec 22, 2011 · An effective lightning protection
design for a telecommunication facility requires
an integrated approach to a number of key
factors: Protection against direct lightning
strikes; ...



[Communication Network GSM-Base Stations and
Lightning ...](#)

The protection of GSM and base station towers
from lightning and overvoltage is provided by
integrating external lightning systems, internal
lightning systems, earthing, equipotential ...



[Lightning Protection for Mobile Phone Base ...](#)

Feb 1, 2021 · Abstract and Figures This paper describes lightning protection for mobile phone base stations by combining quarter wave short and ...



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Our solutions for lightning and surge protection in the telecommunications sector not only protect equipment, power and data supply, but also - ...



[Surge Protection for Cell Sites](#)

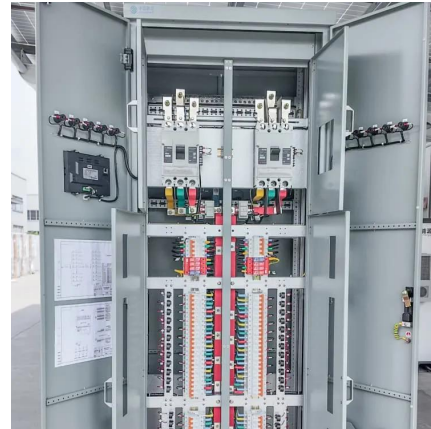
Jun 23, 2025 · This is why the standard DIN EN 62305 (IEC 62305) mandates a type 1 lightning current arrester at the boundary between lightning protection zone 0 B and 1. In mobile ...





Lightning protection and grounding design specifications for mobile

The lightning protection and grounding design of mobile communication base stations located in comprehensive communication buildings should be implemented in accordance with YDJ26 ...



[Communication Network GSM-Base Stations ...](#)

The protection of GSM and base station towers from lightning and overvoltage is provided by integrating external lightning systems, internal ...



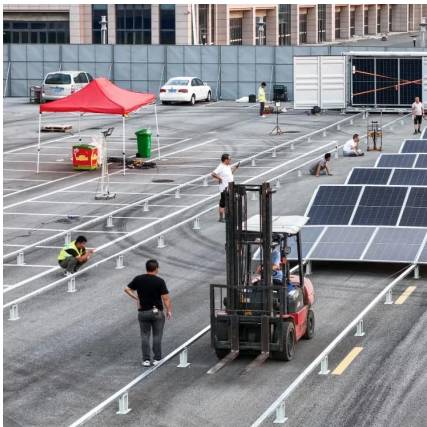
[Communication green base station carries out lightning ...](#)

Nov 18, 2025 · A communication base station and lightning protection technology, which is applied in the installation of lightning conductors, corona discharge devices, cables, etc., can ...



Lightning Protection and Earthing of the Mobile Communication Base Station

Lightning protection is a complex and systematic project. Lightning protection measures at the communication base station should be based on comprehensive management, joint earthing ...





[research on lightning protection and grounding safety ...](#)

May 29, 2022 · Building 5g base station on power tower is an effective way to realize resource integration and save national resources. However, the voltage level and installed capacity of ...



[Lightning Protection for Mobile Phone Base Stations by ...](#)

Feb 1, 2021 · Abstract and Figures This paper describes lightning protection for mobile phone base stations by combining quarter wave short and open stubs.

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