

Anti-rust measures for outdoor base stations



Overview

What is a radio base station (RBS) earthing network?

The most important objective of the radio base station (RBS) earthing network is to minimize the differences in potential between the conductive parts within the RBS site (equipotential bonding), which is beneficial for the safety, lightning protection and electromagnetic compatibility (EMC) performance of the equipment.

How do you measure earthing resistance in a wireless base station?

In the earthing system for a single wireless base station, the earthing network, down-conductors and metal conductors make a test loop. By using a clamp meter, the earthing resistance of the entire loop can be measured, but not the earthing resistance of the earthing network.

Are mobile radio masts vulnerable to lightning?

New cell site locations are being developed constantly for this purpose, with existing infrastructure being modified and expanded. These cell sites must obviously be reliable, but the exposed location of mobile radio masts makes them vulnerable to direct lightning strikes, which could cause severe damage to the systems.

What type of earthing bar should be used in the equipment room?

It is recommended to use copper bars with a minimum cross-sectional area of 300 mm² and a minimum thickness of 5 mm as indoor earthing bars. The bonding configuration B in the equipment room is illustrated in Figures 10 and 11. The bonding configuration B uses a bonding ring instead of an indoor earthing bar.

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If a down-conductor is partially inserted into the earth, anti-corrosion and anti-rust measures must be taken for the part 50 cm above the earth surface and the part 50 cm below the earth ...

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An anti-rust oil composition patented for cutting tools by Mao includes anti-rust agent, base oil, corrosion inhibitor, antioxidant, and corrosion inhibitor auxiliary agent [115].

Anti-rust oil forms a protective barrier, shielding metal surfaces from the elements and preventing the formation of rust.

Hong Kong - J- Shenzhen Xingshengdi New Materials Co., Ltd, a manufacturer of communication equipment, electronics and electrical appliances in China, has used BASF's ...

Summary Recommendation ITU-T K.119 provides the technical requirements and measurement methods to assess the validity and reliability of the lightning protection and earthing system of ...

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Introduction Steel structures are widely used in industrial and commercial construction due to their strength, durability, and cost-effectiveness. However, exposure to ...

The technical brochure is a reduced version of the International Telecommunication Union (ITU-T) Recommendation regarding the installation of Radio Base Stations on Power line Towers, ...

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Let's take a look at the effects of different climates on metal items, and outdoor rust prevention strategies for any climate, including the use of Vapor Corrosion Inhibitors ...

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Made of high-quality materials, The antenna base is an RF coaxial antenna base with a 5/8-11unc connector. This antenna is suitable for low-frequency communication. Suitable for outdoor use, ...

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