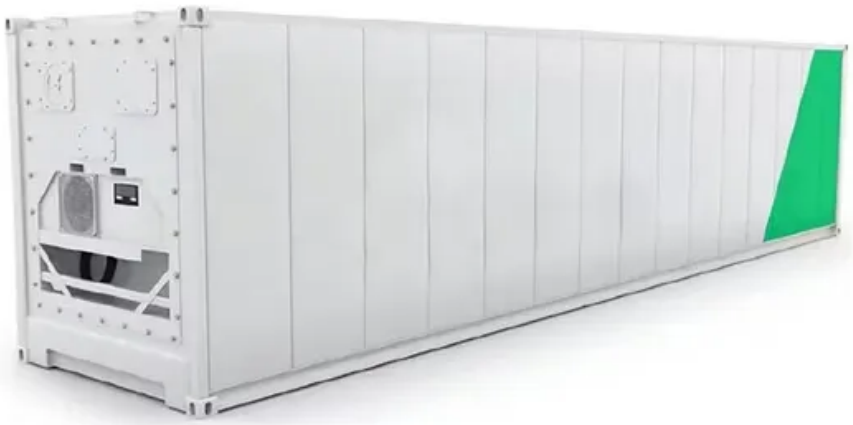
SOLAR PRO.

SolarInnovate Energy Solutions

Base station construction standards for the communications industry



Overview

What is a BS type 1 Nr base station?

BS type 1-C: NR base station operating at FR1 with requirements set consisting only of conducted requirements defined at individual antenna connectors. BS type 1-H: NR base station operating at FR1 with a requirement set consisting of conducted requirements defined at individual TAB connectors and OTA requirements defined at RIB.

What is the operating environment of a base station antenna?

The operating environment of base station antennas is classified as remote, stationary, outdoor, uncontrolled and not weather-protected. The electromagnetic environment includes close proximity to intentionally radiating devices and installation on structures prone to lightning strikes.

Is there a standard for a base station antenna?

The BSA’s influence on coverage, capacity, and QoS is extensive, and yet there exists no comprehensive, global, standard focusing on the base station antenna. The purpose of this whitepaper is to address this gap. In particular, the following topics will be covered in various degrees of detail:.

How many cables do you need to test a base station?

Up until this point, the methods used to specify, measure and regulate traditional base station transmission and reception had been fully conducted (i.e. taken at the antenna connector). This meant that activity of testing would in theory require up to 256 cables to be manually attached to the base station.

Which Nr test configurations should be used for other NR base stations?

For other NR base stations, the test configurations in table 4.5-1 and table 4.5-2 shall be used. The NR test configurations (NRTCx) are defined in TS 38.141-1 , subclause 4.7 for BS type 1-C and BS type 1-H and in TS 38.141-2 ,

subclause 4.7 for BS type 1-O and BS type 2-O.

What is a 4G LTE base station?

Traditional 4G LTE base stations contain one, two or possibly even four transmitters and usually operate on core band frequencies of up to 2.5 GHz, sometimes even 3.5 GHz and 5 GHz. This enables high-capacity and low-latency communication, enough for video streaming and optimal user experience of online services, among other use cases.

Base station construction standards for the communications industr

Construction Procedures and Standards of Cellular ...

Feb 15, 2019 · 3.5 The following goals and objectives shall be achieved through these Procedures and Standards in relation to the general construction principles to be applied to Cellular Mobile ...

Contact Us

For catalog requests, pricing, or partnerships, please visit: https://institut3i.fr