Equipotential bonding of power cable trays

Preview

The equipotential bonding system is mounted on cable tray systems. All conductive system parts and electrical equipment are integrated in the Ex equipotential bonding by means of equipotential bonding plates and clamps as well as a closed ring equipotential bonding . In practice, however, conductive parts of the construction or cable tray system are often defined as "equipotential bonding conductors". These do not guarantee the required safe, consistent and permanently effective electrical connection. Screws are secured against self-loosening according to DIN EN 62305-3 Supplement 2 by means of a spring washer. Electrical continuity provides safety to people and property, and plays an essential role in the EMC.

A bare copper equipment grounding conductor should not be placed in an aluminum cable tray due to the potential for electrolytic corrosion of the aluminum cable tray in a moist environment. For such

Earthing and equipotential bond-ing: the basis for effective protec-tion Low-impedance earthing and equipo-tential bonding are essential for safe- ty and electromagnetic compatibility (EMC). EN 50310

Equipment Grounding Conductors for Cable Tray Systems Cable tray wiring systems have excellent safety and dependability records. These excellent records are the result of cable tray"s unique

The equipotential bonding system is mounted on cable tray systems. All conductive system parts and electrical equipment are integrated in the Ex equipotential bonding by means of equipotential

The connections on the devices for the functional equipotential bonding (FE) should be connected to the equipotential bonding system (CBN) as shortly as possible and with low-impedance!

Main equipotential bonding Regulation 413-02-02 requires main equipotential bonding to be carried out. Its importance is often underestimated (see Figure 1). An earth fault in the current-using equipment

More specifically, equipotential bonding in this article will involve cable shields and other conductive bodies through which unwanted currents are diverted from the cables, regardless of these bodies

This design note provides guidance on equipotential bonding for an electrical project according to local standards. It discusses bonding requirements to reduce touch

Equipotential bonding ensures that all metallic parts in and on a building are brought to an almost equal potential by electrically connecting them. This prevents dangerous touch voltages between two metal

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Cable tray manufacturers will be able to supply appropriate bonding links. Connect cable trays made out of metal as often as possible with the equipotential bonding

Protective Equipotential Bonding Regulation 411.1 states that automatic disconnection of supply is a protective measure in which basic protection is provided by basic insulation of live parts or by

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The system solution by DEHN serves to create a ring / radially connected equipotential bonding to be mounted on cable tray systems. It ensures consistent equipotential bonding.

Equipotential bonding must be consistently effective. In practice, however, conductive parts of the construction or cable tray system are often defined as

Conductive cable tray systems or parts of the structure alone often do not provide a safe, continuous electrical connection for equipotential

Unperforated cable tray with integrated quick fastening system. The usable length of the cable tray is 3,000 mm. Continuous equipotential bonding is guaranteed without additional components.

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