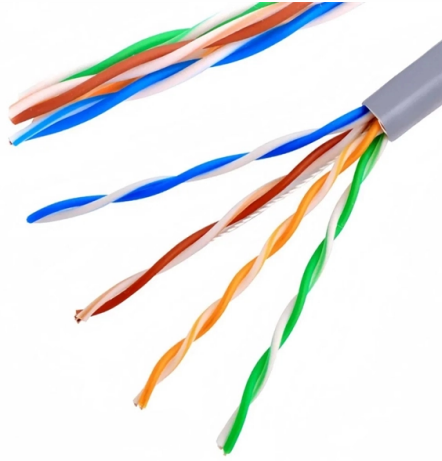


Cable tray Atex certification



Overview

Fire Resistant Cable Tray for ATEX Zones 21 & 22 How to choose fire protection for cable trays in ATEX Zones 21/22—dust retention risks, inspection practic.

Key Takeaways

Cable trays themselves do not require ATEX certification, but all equipment and components within hazardous areas must comply with ATEX standards. ATEX Certification Overview

ATEX certification applies to equipment that can act as a potential ignition source in explosive atmospheres. Cable trays are considered passive components and are not classified as ignition-capable equipment, so they do not fall under the ATEX directive and do not require certification . The responsibility for safe installation and compliance lies with the plant designer or installer, who must ensure that all cables, glands, and connected devices meet the relevant safety standards .

Key Considerations for Cable Trays in Hazardous Areas

- Cables: While cables themselves are not ATEX-certified, they must meet IEC/EN standards for flame resistance, mechanical strength, chemical resistance, and UV protection. For intrinsically safe (IS) circuits, shielded cables must be used and kept separate from non-IS circuits .
- Cable Glands: Any cable entering or exiting a hazardous area must use ATEX-certified cable glands, as these form part of the explosion protection system. The type of gland (Ex e, Ex d, or Ex t) depends on the enclosure and zone classification .

- **Zone Classification:** Hazardous areas are divided into zones (0, 1, 2 for gases; 20, 21, 22 for dust). The selection of cables, glands, and enclosures must match the zone rating to ensure safety .
 - **Material Selection:** Cable trays should be made of materials that are non-sparking, corrosion-resistant, and flame-retardant to maintain safety in explosive atmospheres.
- Best Practices**
- **Segregation:** Keep IS and non-IS circuits separate within the tray to prevent energy transfer that could compromise safety .
 - **Proper Grounding:** Ensure cable trays are properly grounded to avoid static discharge.
 - **Inspection and Maintenance:** Regularly inspect trays, cables, and glands for wear, corrosion, or damage that could compromise explosion protection.
 - **Documentation:** Maintain records of cable types, tray materials, and ATEX-certified components for compliance audits.

Summary

While cable trays themselves do not require ATEX certification, they must be installed in a way that supports the overall explosion protection strategy. All active components, cable glands, and enclosures must be ATEX-certified, and cables must meet IEC/EN standards for hazardous areas. Following proper installation practices ensures compliance and safety in explosive atmospheres .

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This paper is a new approach following the IEC ATEX standards to consider the second way to analyze the use of cable trays in Ex

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This document is for preliminary research. Verify specifications against current standards, product documentation and project requirements.

