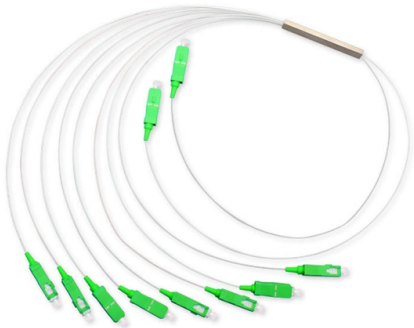
# Installation of Austrian Fire-Resistant Cable Trays



## Overview

Cable tray installation must comply with specific technical standards to ensure electrical safety, system reliability, and long-term maintainability.

## Key Takeaways

Fire protection cable trays in Austria must comply with MLAR guidelines, use fire-resistant materials, and ensure proper routing, support, and firestopping to maintain circuit integrity and safety.

### Regulatory Framework

In Austria, the Model Cable System Guidelines (MLAR) govern the installation of cable systems with fire protection requirements.

### MLA

R aims to prevent the spread of smoke and fire and maintain the circuit integrity of electrical wiring during a fire. Compliance is mandatory when federal states adopt MLAR into local law. Cables must be routed through fire-resistant walls and ceilings, and any remaining gaps must be sealed to avoid compromising fire resistance.

### Material Selection

Indoor trays: Painted steel or galvanized steel. Outdoor trays: Hot-dip galvanized or stainless steel. Corrosive or high-humidity environments: Aluminum alloy or fiberglass-reinforced plastic.

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Fire-resistant cables: Use FRHF (Fire-Resistant Halogen-Free) cables, typically marked with orange or red sheaths, which minimize smoke and maintain functionality during fire.

## Installation Guidelines

Route Planning: Align trays with the building structure, avoiding unnecessary detours or overlaps. Maintain the shortest and straightest path to reduce cable loss and simplify maintenance. Segregate power and signal cables using separate trays to minimize electromagnetic interference.

Supports and Fixing: Use threaded rod supports, 'L' angles, or slotted 'C' channels. Maximum distance between supports: 1. 2 meters to prevent sagging.

Provide additional support for bends, branches, and offsets. Firestopping at Penetrations: Seal all wall, slab, and shaft penetrations with fire-rated boards, firestop packs, mastic, or mineral wool. Ensure gaps around cables do not exceed 1 $cm^2$, and packing thickness is at least 24 cm.

Cover plates should be square, evenly painted, and properly installed. Cable Segregation and Protection: Fire-resistant cables should be installed on dedicated trays or separated by distance or protective plates. Maintain clearances for cable pulling and future maintenance.

## Testing and Certification

Cable trays and fire-resistant systems should be tested according to EN 1363-1 and other relevant standards. Fire tests involve current-carrying cables to ensure the system maintains circuit integrity under high temperatures. The fire resistance classification is determined by the time until circuit failure or tray collapse.

## Best Practices

Inspect all materials on-site for compliance with approved submittals. Store trays horizontally on flat surfaces with timber supports to prevent damage. Coordinate installation with other services to avoid clashes.

Ensure all civil and MEP clearances are completed before installation. By following these guidelines, fire protection cable trays in Austria will meet safety, regulatory, and functional requirements, ensuring reliable operation during normal conditions and fire events.

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## Article Content

Basor Electric

The standard studies the response of the installation of the set of fire-resistant cables subjected to tension with the supports and the trays inside an oven with a

Technical Guidelines for Cable Tray Installation and

Cable tray installation must comply with specific technical standards to ensure electrical safety, system reliability, and long-term maintainability. This document

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Cable tray length is selected based on the load to be supported, the distance between the supports (also referred to as the span), and handling and installation constraints.

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FIRE-RESISTANT

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OSHA Regulations and Industry Consensus Standards that Apply to Cable Trays The use and installation of cable trays is covered by legally enforceable OSHA regulations in 29 CFR

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The DIN cable tray standard specified that the entire cable tray system must be tested in an oven which is at least 3 metres long for a period of 30, 60 and 90 minutes at temperatures of up to 1000 Degrees

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Safety of a cable tray is not a matter of compliance with codes, but a matter of saving human life and billions of dollars'' worth of infrastructure. Poorly fitted trays may serve as a fuse in

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Fire Resistance Testing of Cable Trays ensures they don''t fuel fires or emit toxic smoke. Learn key standards, testing methods,

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Cable trays are intended for the construction of fire-resistant cable paths with surface cable laying. Cable paths are constructed as standard or lightweight

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