

Cable trays in the elevator machine room



Overview

Cable trays are sized with a 30–40% growth factor and routed for easy access to termination points. I maintain minimum bend radii for power and control, separate high-power from data, and leave slack for future equipment. Penetrations are sleeved and sealed. All trays and conduits are labeled, with. Each car, machine room and hoistway pit must have separate dedicated branch circuits for lighting, receptacles and HVAC, with car and machine-room lighting exempt from GFCI while required for receptacles. Overcurrent devices and disconnects must be located in machine or control spaces, be lockable. Cable trays support cable across open spans in the same manner that roadway bridges support traffic. Cable trays are a part of a planned cable management system to support, route, protect and. The Cable Tray system is installed in electrical rooms, plant rooms, and service corridors. This section will guide you through the necessary steps to ensure a successful installation. All materials received at the site. This is a new install with the wires on the floor is this acceptable?

Flextrician I think a state inspector would consider this a trip hazard for your disconnect, they should have run conduit from the top of the disconnect to the ceiling and down to the controller and then changed over to flex or. maintain spacing or to keep cables in place when the tray is ect the minimum bend ra-dius for cables as they exit the bottom of the cable tray.



Article Content

Hot

Restrictions on Circuits in stairways and elevator rooms

For elevator shafts and machine rooms we do not have look further then the NEC.
620.37 Wiring in Hoistways, Machine Rooms, Control Rooms, Machinery Spaces, and Control Spaces. (A)

Sep 21, 2025 Hot

California Code of Regulations, Title 8, Section 3011. Machine Rooms ...

(1) Elevator driving machines, motor generator sets, controllers, and auxiliary control equipment shall be installed in a room or enclosure set aside for that purpose.
Exception to subsection 3011 (A) (1):

Jan 30, 2026 Hot

Elevator Installation Manual for MRL Systems

This document provides instructions for installing elevators with machine rooms. It discusses organizing installation workers, allocating tools, inspecting civil

Sep 29, 2025 Hot

Cal. Code Regs. Tit. 8, § 3012

Article 7 - Hoistways, Hoistway Enclosures, and Related Construction for Power Cable-Driven Passenger and Freight Elevators Cal. Code Regs. Tit. 8, § 3012 - Electrical Wiring, Pipes, and Ducts

May 20, 2026 Hot

Cable Tray Technical Guide A practical guide to product selection and ...

Cable tray is considered to be a system. It must provide continuous support for cables, and the electrical continuity of the cable tray system must be maintained.

May 07, 2026 Hot

etal aceay in Elevator or

earnin bective After reading this article, you should have learned about: ♦ The role of the NEC in electrical installations for elevators ♦ The relationship between the NEC and the ASME A17.1-2007/

Sep 08, 2025 Hot

Cable Tray Technical Guide A practical guide to product selection and ...

Cable Tray Technical Guide A practical guide to product selection and installation This guide for engineers and installers has been developed by ABB as a practical reference regarding cable tray

Feb 23, 2026 Hot

FactSheet

If visual observation reveals a cable tray that is completely full and/or over-flowing with cables, chances are that the cable tray is in violation of both the National Electrical Code and OSHA requirements.

Nov 13, 2025 Hot

NEC Article 0: Elevator art 1

art III, iring, looks at the types of wiring that may be installed in hoistways, cars, machine rooms and related spaces The basic wiring methods are rigidmetal, rigid nonmetallic or intermediatemetal

Sep 06, 2025 Hot

620.21 Wiring Methods.

2011 Code Language: 620.21 Wiring Methods. Conductors and optical fibers located in hoistways, in escalator and moving walk wellways, in platform lifts, stairway

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Inspecting Elevator Power Wiring

An important point to note, no matter what wiring method is used, only wiring associated with the elevator or required by another code (i.e., fire

Jul 16, 2025 Hot

Best practices for underfloor cable management

Modern data center designs must develop cable organization plans with considerations to account for day-to-day operation, operational efficiency of equipment, optimal performance, and the facility"s

Aug 10, 2025 Hot

OESC 620.37 Wiring in Hoistways, Machine Rooms, Control Rooms ...

In Oregon, Raceways and conduits for the connection of elevator devices shall only enter the machine room to the extent necessary to connect the devices attached thereto. NEC 620.37 covers wiring in

Feb 01, 2026 Hot

Prohibited Equipment in Elevator Machine Room or Control Room

Electrical devices related to the elevator's power supply are not allowed in the machine or control rooms without special authorization. However, transformers up to 30 kVA that serve these areas may be

Oct 23, 2025 Hot

What are the Parts of Elevators: A Guide to Mechanical

Focusing on the mechanical subsystems within an elevator system, such as the elevator cabin, automatic doors, machine room-less (MRL) solutions,

Nov 17, 2025 Hot

Low voltage question in elevator machine room : r/electricians

620.37 Wiring in Hoistways, Machine Rooms, Control Rooms, Machinery Spaces, and Control Spaces. (A) Uses Permitted. Only such electrical wiring, raceways, and cables used directly in connection

Jun 05, 2026 Hot

NEC Article 620: Elevators, Part 2

Section 620.37 re-emphasizes that only wiring used in connection with the elevator is permitted within the hoistway, machine room, control

Apr 10, 2026 Hot

MC cable in elevator hoistway

Informational Note: When an elevator is classified as a fire service access elevator or occupant evacuation operation elevator, some building codes require additional protection for

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Residential Elevator Machine Rooms | HomeElevators

A machine room is an area where the elevator drive unit, controller, and main disconnect switches are located. Typically, for residential elevators, a machine

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Core Principles for Electrical and Instrumentation Cable

By adhering to these principles, E&I cable tray layouts can achieve the essential balance of safety, efficiency, and durability. A well-planned layout not only meets

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(3) Elevator machine rooms or enclosed areas shall be kept free of all materials except those used for repair or maintenance of the elevator. Exception: Existing installations of cabinet-type machines. (4)

Mar 04, 2026 Hot

Cable tray

In the electrical wiring of buildings, a cable tray system is used to support insulated electrical cables used for power distribution, control, and communication. Cable

Aug 25, 2025 Hot

Heavy Duty Machine Room Less

The newest trend in elevator technology is the Machine-Room-Less elevator (MRL). This technology is being developed by all of the major elevator manufacturers and is installed in thousands of locations

Mar 03, 2026 Hot

Elevator Machine Room Layout Wrong? Fix Clearance

Plan an elevator machine room layout with correct panel clearance, cooling load, cable trays, and 300–500 lux lighting for safe maintenance.

May 10, 2026 Hot

Method Statement installation of Cable Trays and Ladders

This method statement covers the site installation of the cable tray & ladders and the requirements of checks to be carried out.

Nov 21, 2025 Hot

Best Practice Guide to Cable Ladder and Cable Tray Systems

This publication is intended as a practical guide for the proper and safe* installation of cable ladder systems, cable tray systems, channel support systems and associated supports.

Nov 27, 2025 Hot

OESC 620.37 Wiring in Hoistways, Machine Rooms,

In Oregon, Raceways and conduits for the connection of elevator devices shall only enter the machine room to the extent necessary to connect the devices attached

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Cable trays & Electric | Prysmian

All products are of the highest quality and fit perfectly on our cable ducts. In addition to our cable ducts in all shapes and sizes, we offer other guidance systems for

Dec 05, 2025 Hot

Code requirements for elevator machine room wires? This is a

I think a state inspector would consider this a trip hazard for your disconnect, they should have run conduit from the top of the disconnect to the ceiling and down to the controller and then changed

Apr 13, 2026

Contact Us

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