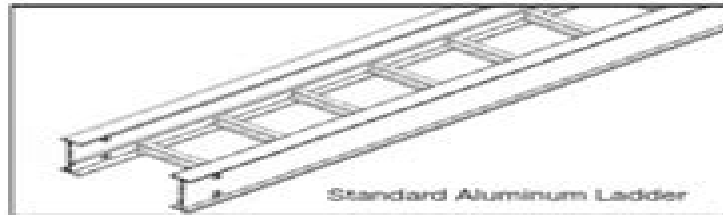


## AN IN-DEPTH LOOK AT 2011 NEC® ARTICLE 392 - CABLE TRAY

*(The following code explanations are to be used with a copy of the 2011 NEC®.)*

To obtain a copy of the NEC® contact:  
National Fire Protection Association®  
1 Batterymarch Park • P.O. Box 9101  
Quincy, Massachusetts 02269-9101  
1-800-344-3555

### 392.1. Scope.



Standard Aluminum Ladder

Of the types of cable trays listed in this section, ladder cable tray is the most widely used type of cable tray due to several very desirable features.

- The rungs provide a convenient anchor for tying down cables in vertical runs or where the positions of the cables must be maintained in horizontal runs.
- Cables may exit or enter through the top or the bottom of the tray.
- A ladder cable tray without covers provides for the maximum free flow of air, dissipating heat produced in current carrying conductors.
- Moisture cannot accumulate in ladder cable trays and be piped into electrical equipment as happens in conduit systems.
- Ladder cable tray cannot pipe hazardous or explosive gasses from one area to another as happens with conduit systems.
- In areas where there is the potential for dust to accumulate, ladder cable trays should be installed. The dust buildup in ladder cable trays will be less than the dust buildup in ventilated trough or solid bottom cable trays.

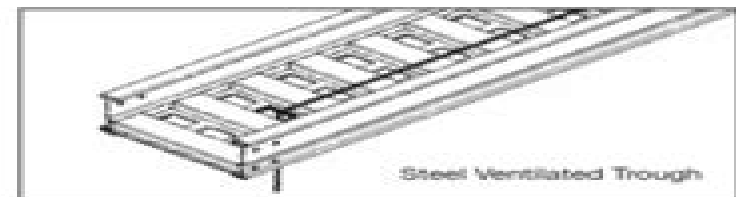
Ladder cable trays are available in widths of 6, 9, 12, 18, 24, 30, 36, and 42 inches with rung spacings of 6, 9, 12, or 18 inches. Wider rung spacings and wider cable tray widths decrease the overall strength of the cable tray. Specifiers should be aware that some cable tray manufacturers do not account for this load reduction in their published cable tray load charts. Cooper B-Line uses stronger rungs in wider cable trays to safely bear the loads published.

With one exception, the specifier selects the rung spacing that he or she feels is the most desirable for the installation. The exception is that 9 inches is the maximum allowable rung spacing for a ladder cable tray supporting any 1/0 through 4/0 single conductor cables [See Section 392.10(B)(1)(a)].

Where the ladder cable tray supports small diameter multiconductor control and instrumentation cables; 6, 9, or 12 inch rung spacings should be specified. Quality Type TC, Type PLTC, or Type ITC small diameter multiconductor control and instrumentation cables will not be damaged due to the cable tray rung spacing selected, but the installation may not appear neat if there is significant drooping of the cables between the rungs.

For ladder cable trays supporting large power cables, 9 inch or wider rung spacings should be selected. For many installations, the cable trays are routed over the top of a motor control center (MCC) or switchgear enclosure. Cables exit out the bottom of the cable trays and into the top of the MCC or switchgear enclosure. For these installations, the cable manufacturer's recommended minimum bending radii for the specific cables must not be violated. If the rung spacing is too close, it may be necessary to remove some rungs in order to maintain the proper cable bending radii. This construction site modification can usually be avoided by selecting a cable tray with 12 or 18 inch rung spacing.

If you are still uncertain as to which rung spacing to specify, 9 inch rung spacing is the most common and is used on 50% of the ladder cable tray sold.



Steel Ventilated Trough

The 1999 NEC® added the word "ventilated" in front of trough to clear up some confusion that solid trough is treated the same as ventilated trough. It is not. Solid trough is recognized as solid bottom cable tray.

# Cable Tray Manual Cooper Industries Electrical Sector

**M Tight**



## **Cable Tray Manual Cooper Industries Electrical Sector:**

*Electrical and Instrumentation Safety for Chemical Processes* R.J. Buschart, 2012-12-06 This text is about electrical and instrumentation safety for chemical processes It covers a wide area of electrical and electronic phenomena and how they have and can significantly affect the safety of chemical processes The importance of the subject is well known to anyone involved in the operation of chemical processes Lightning strikes can explode storage tanks shut down electrical power systems and shut down or damage computer and instrument systems Static electricity can ignite flammable materials and damage sensitive electronic process control equipment Electrical power system failures or interruptions can produce unsafe process conditions Chemical processes use flammable and combustible vapors gases or dusts that can be exploded by electrical equipment and wiring Even low energy equipment like flashlights can ignite a flammable vapor Interlock and equipment protection systems can cause safety problems How important is electrical and process control safety A survey on How Safe is Your Plant in the April 1988 issue of Chemical Engineering magazine provided some answers Among the results of this survey of chemical processes it was found that over 800 respondents believed instrumentation and controls shutdown systems equipment interlocks and other protection systems to be the least safe aspect of chemical industries The survey also indicated that complying with OSHA and other regulations process control software security inspections audits and safety training are important safety issues

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## **Table of Contents Cable Tray Manual Cooper Industries Electrical Sector**

1. Understanding the eBook Cable Tray Manual Cooper Industries Electrical Sector
  - The Rise of Digital Reading Cable Tray Manual Cooper Industries Electrical Sector
  - Advantages of eBooks Over Traditional Books
2. Identifying Cable Tray Manual Cooper Industries Electrical Sector
  - Exploring Different Genres
  - Considering Fiction vs. Non-Fiction
  - Determining Your Reading Goals
3. Choosing the Right eBook Platform
  - Popular eBook Platforms
  - Features to Look for in an Cable Tray Manual Cooper Industries Electrical Sector
  - User-Friendly Interface
4. Exploring eBook Recommendations from Cable Tray Manual Cooper Industries Electrical Sector
  - Personalized Recommendations
  - Cable Tray Manual Cooper Industries Electrical Sector User Reviews and Ratings
  - Cable Tray Manual Cooper Industries Electrical Sector and Bestseller Lists
5. Accessing Cable Tray Manual Cooper Industries Electrical Sector Free and Paid eBooks
  - Cable Tray Manual Cooper Industries Electrical Sector Public Domain eBooks
  - Cable Tray Manual Cooper Industries Electrical Sector eBook Subscription Services
  - Cable Tray Manual Cooper Industries Electrical Sector Budget-Friendly Options

6. Navigating Cable Tray Manual Cooper Industries Electrical Sector eBook Formats
  - ePub, PDF, MOBI, and More
  - Cable Tray Manual Cooper Industries Electrical Sector Compatibility with Devices
  - Cable Tray Manual Cooper Industries Electrical Sector Enhanced eBook Features
7. Enhancing Your Reading Experience
  - Adjustable Fonts and Text Sizes of Cable Tray Manual Cooper Industries Electrical Sector
  - Highlighting and Note-Taking Cable Tray Manual Cooper Industries Electrical Sector
  - Interactive Elements Cable Tray Manual Cooper Industries Electrical Sector
8. Staying Engaged with Cable Tray Manual Cooper Industries Electrical Sector
  - Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers Cable Tray Manual Cooper Industries Electrical Sector
9. Balancing eBooks and Physical Books Cable Tray Manual Cooper Industries Electrical Sector
  - Benefits of a Digital Library
  - Creating a Diverse Reading Collection Cable Tray Manual Cooper Industries Electrical Sector
10. Overcoming Reading Challenges
  - Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
11. Cultivating a Reading Routine Cable Tray Manual Cooper Industries Electrical Sector
  - Setting Reading Goals Cable Tray Manual Cooper Industries Electrical Sector
  - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Cable Tray Manual Cooper Industries Electrical Sector
  - Fact-Checking eBook Content of Cable Tray Manual Cooper Industries Electrical Sector
  - Distinguishing Credible Sources
13. Promoting Lifelong Learning
  - Utilizing eBooks for Skill Development
  - Exploring Educational eBooks
14. Embracing eBook Trends
  - Integration of Multimedia Elements

- Interactive and Gamified eBooks

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