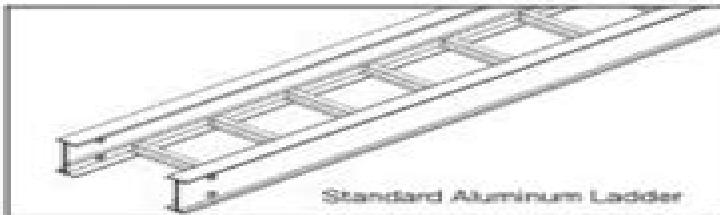


## AN IN-DEPTH LOOK AT 2011 NEC® ARTICLE 392 - CABLE TRAY

(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.

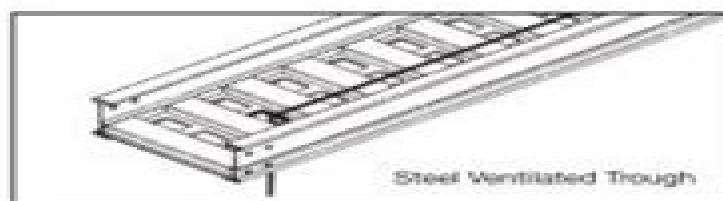
Ladder cable trays are available in widths of 6, 9, 12, 18, 24, 30, 36, and 42 inches with rung spacings of 6, 9, 12, or 18 inches. Wider rung spacings and wider cable tray widths decrease the overall strength of the cable tray. Specifiers should be aware that some cable tray manufacturers do not account 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 80% 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.

# B Line Cable Tray Installation Manual

**Lucius Claude Dunn**

## **B Line Cable Tray Installation Manual:**

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information

## Enjoying the Tune of Term: An Mental Symphony within **B Line Cable Tray Installation Manual**

In a world consumed by screens and the ceaseless chatter of immediate interaction, the melodic elegance and mental symphony developed by the written term frequently fade in to the back ground, eclipsed by the persistent noise and disruptions that permeate our lives. However, nestled within the pages of **B Line Cable Tray Installation Manual** an enchanting literary prize brimming with raw emotions, lies an immersive symphony waiting to be embraced. Constructed by an outstanding musician of language, this interesting masterpiece conducts viewers on an emotional journey, well unraveling the concealed songs and profound impact resonating within each carefully crafted phrase. Within the depths with this moving examination, we will examine the book is key harmonies, analyze their enthralling writing fashion, and surrender ourselves to the profound resonance that echoes in the depths of readers souls.

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## **Table of Contents B Line Cable Tray Installation Manual**

1. Understanding the eBook B Line Cable Tray Installation Manual
  - The Rise of Digital Reading B Line Cable Tray Installation Manual
  - Advantages of eBooks Over Traditional Books
2. Identifying B Line Cable Tray Installation Manual
  - 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 B Line Cable Tray Installation Manual
  - User-Friendly Interface
4. Exploring eBook Recommendations from B Line Cable Tray Installation Manual
  - Personalized Recommendations

- B Line Cable Tray Installation Manual User Reviews and Ratings
- B Line Cable Tray Installation Manual and Bestseller Lists

5. Accessing B Line Cable Tray Installation Manual Free and Paid eBooks

- B Line Cable Tray Installation Manual Public Domain eBooks
- B Line Cable Tray Installation Manual eBook Subscription Services
- B Line Cable Tray Installation Manual Budget-Friendly Options

6. Navigating B Line Cable Tray Installation Manual eBook Formats

- ePUB, PDF, MOBI, and More
- B Line Cable Tray Installation Manual Compatibility with Devices
- B Line Cable Tray Installation Manual Enhanced eBook Features

7. Enhancing Your Reading Experience

- Adjustable Fonts and Text Sizes of B Line Cable Tray Installation Manual
- Highlighting and Note-Taking B Line Cable Tray Installation Manual
- Interactive Elements B Line Cable Tray Installation Manual

8. Staying Engaged with B Line Cable Tray Installation Manual

- Joining Online Reading Communities
- Participating in Virtual Book Clubs
- Following Authors and Publishers B Line Cable Tray Installation Manual

9. Balancing eBooks and Physical Books B Line Cable Tray Installation Manual

- Benefits of a Digital Library
- Creating a Diverse Reading Collection B Line Cable Tray Installation Manual

10. Overcoming Reading Challenges

- Dealing with Digital Eye Strain
- Minimizing Distractions
- Managing Screen Time

11. Cultivating a Reading Routine B Line Cable Tray Installation Manual

- Setting Reading Goals B Line Cable Tray Installation Manual
- Carving Out Dedicated Reading Time

12. Sourcing Reliable Information of B Line Cable Tray Installation Manual

- Fact-Checking eBook Content of B Line Cable Tray Installation Manual

- 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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