

## New National Standard Thickness Table for Cable Trays



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267 For cable tray installers: NEMA BI-50016-2024 (hereinafter referred to as NEMA BI-50016) is intended 268 as a practical guide for the proper installation of cable tray systems.



Specifies requirements for metal cable trays and associated fittings designed for use in accordance with the rules of Canadian Electrical Code, Part I and the National Electrical Code®



Explore standard sizes by tray type, understand width and depth limits, and see how to calculate and choose compliant cable tray sizes for real projects.



It provides rules for acceptable wiring methods that can be installed in cable trays, including conditions for use. It addresses uses permitted and not permitted for cable trays.



Conductors used in cable tray must be specified in Table 19 of the CEC and, except where permitted under paragraphs [12-2202(2)] and [(3)], covered by a continuous metal sheath or an interlocking ...

Cable Type	Area (sq. in.)	Number of Cables	Total Area (sq. in.)
1/2" x 1/2" (1 conductor)	0.196	100	19.6
1/2" x 1/2" (2 conductors)	0.392	50	19.6
3/4" x 3/4" (1 conductor)	0.441	45	19.845
3/4" x 3/4" (2 conductors)	0.882	22	19.404
1" x 1" (1 conductor)	0.785	24	18.84
1" x 1" (2 conductors)	1.57	12	18.84

Referencing the table above, which is part of Table 392.9 from the National Electrical Code, a 30-inch cable tray with an allowable cable fill area of 35 sq. in. must be used.



In this installment of our Code Corner series, Ryan Mayfield focuses on the 2023 National Electrical Code (NEC) changes concerning cable trays, particularly section 690.31 (C).



Many electrical systems employ cable trays. They route cables safely & efficiently. NEC defines minimum cable tray size & electrical installation specifications. These guidelines protect ...



This article provides a comprehensive framework that governs various aspects of cable tray installations, including the types of cables that are deemed acceptable for use, requirements for ...



This is best exhibited by cable tray width calculations for three different examples of single conductor cables in ladder or ventilated trough cable tray that are permitted by NEC Article 318.



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