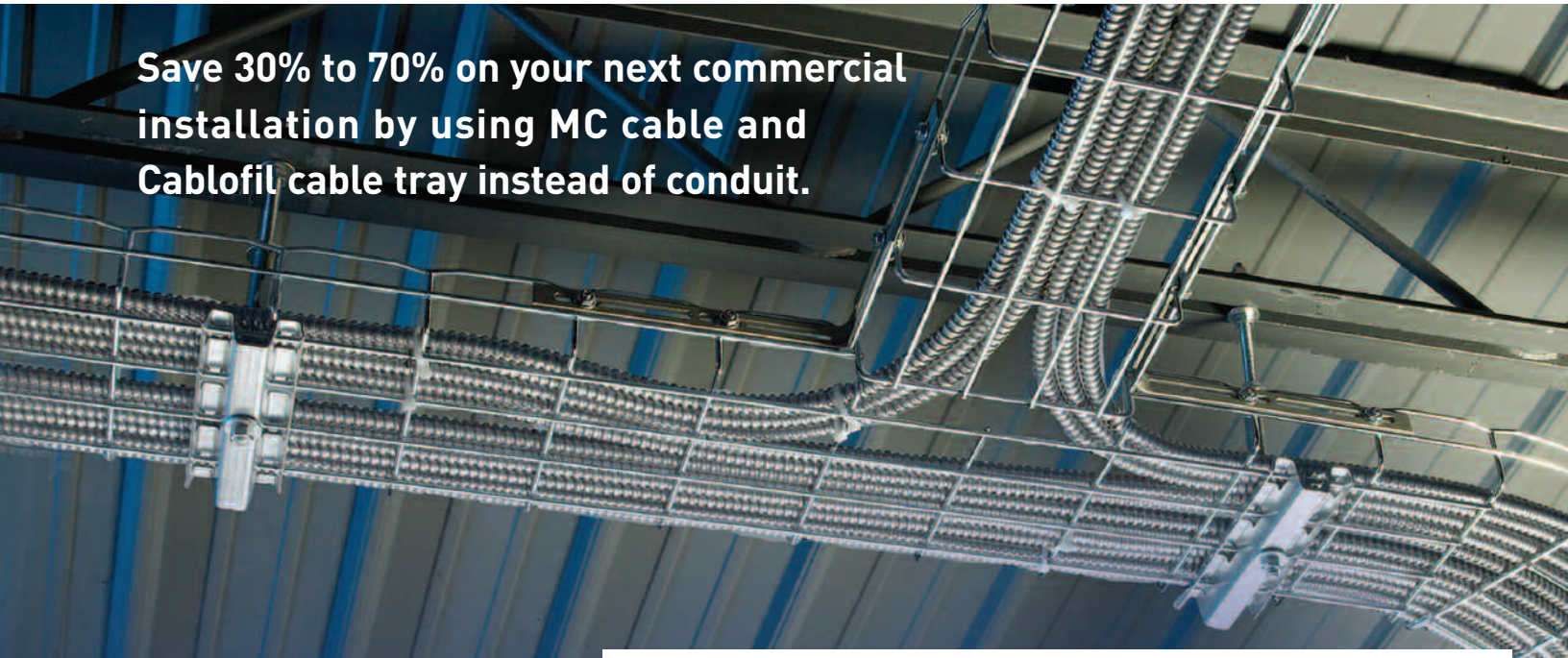
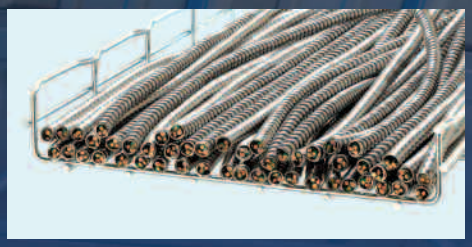
MC Cable in Cablofil Tray - Facts you should know.



Save 30% to 70% on your next commercial installation by using MC cable and Cablofil cable tray instead of conduit.



Typical Branch Cable Fill

Typical Feeder Cable Fill

MC Cable Fill Data

MC Cable Size	Cable Diameter	Cablofil Tray Size	No. of Cables Allowed	Cable Ampacity Allowed*
(Copper, 90ºC, THHN/PVC w/Alum.Armor)	(Inches)	(EZ Zinc plated)	(Per NEC 392.9)	(Per NEC 392.11 & 310.16)
#12 - 3 conductor	.51	CF54-150 (2" x 6") CF54-300 (2" x 12") CF54-600 (2" x 24")	24 49 99	25 Amps
#12 - 4 conductor	.56	CF54-150 (2" x 6") CF54-300 (2" x 12") CF54-600 (2" x 24")	21 43 86	20 Amps
#1 - 3 conductor	1.2	CF54-150 (2" x 6") CF54-300 (2" x 12") CF54-600 (2" x 24")	4 9 19	130 Amps
3/0 - 3 conductor	1.5	CF54-150 (2" x 6") CF54-300 (2" x 12") CF54-600 (2" x 24")	3 6 12	200 Amps

*No need to Derate cables if following NEC Fill rules, for multiconductor power cables section 392.9 applies. Due to device rating of 75ºC the full ampacity of the 90ºC cable could not be used per 392.9 and 310.16. For cables with 4 or more current carrying conductors, the cable is derated per Table 310.15(B)(2)(a) percentable applied to 90ºC column of Table 310.16.

MC cable in Cablofil creates an installation that is neat and orderly in appearance. It is capable of supporting a large number of cables in a single run, while its ventilated design keeps cables cool - no derating of cables is needed.

For more information on how to save using MC cable and Cablofil, go to www.cablofil.com or email techsupport@cablofil.com.

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The use of cable tray in North America has been growing for the past 40 years. It has been embraced by the data market and is widely used in industrial applications. Both Markets agree Wire cable tray is safe and easy to install. Electrical contractors have discovered its potential as an alternative to labor intensive conduit.

Here are some of the codes that cover its use:

392.2 Definition

Cable Tray System. A unit or assembly of units or sections and associated fittings forming a structural system used to securely fasten or support cables and raceways.

392.3 Uses Permitted

Cable Tray shall be permitted to be used as a support system for service conductors, feeders, branch circuits, communication circuits, control circuits, and signaling circuits. *Cable tray installations shall **not** be limited to industrial establishments.* Where exposed to direct rays of the sun, insulated conductors and jacketed cables shall be identified as being sunlight resistant. Cable trays and their associated fittings shall be identified for the intended use.

Cablofil cable tray is the most widely used wiring support method in the world. It has been tried and tested in some of the world's harshest environments.

Do not be concerned about Ampacity, the code is clear.

Cablofil cable tray is not a raceway so raceway rules do not apply. Table 310.16 should be used if you follow the fill guidelines per 392.9.

No derating unless there are more than 3 current carrying conductors.

There is no need for covers with MC.

This not a limitation as this provision allows a *higher* ampacity than 310.16 if you install conductors in a single layer and space them. It is not a code requirement to place multi-conductors in a single layer spaced one diameter apart.

392.11 Ampacity of Cables, Rated 2000 Volts or Less, in Cable Trays.

(A) Multiconductor Cables. The allowable ampacity of multiconductor cables, nominally rated 2000 volts or less, installed according to the requirements of 392.9 shall be given in Table 310.16 and Table 310.18, subject to the provisions of (1), (2), (3), and 310.15 (A) (2).

1. The derating factors of 310.15 (B) (2) (a) shall apply only to multiconductor cables with more than three current-carrying conductors. Derating shall be limited to the number of current-carrying conductors in the cable and not to the number of conductors in the cable tray.

2. Where cable trays are continuously covered for more than 1.8 m (6 ft) with solid unventilated covers, not over 95 percent of the allowable ampacities of Table 310.16 and Table 310.18 shall be permitted for multiconductor cables.

3. Where multiconductor cables are installed in a single layer in uncovered trays, with a maintained spacing of not less than one cable diameter between cables, with not more than three insulated conductors rated 0 through 2000 volts in free air, in accordance with 310.15.

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8319 State Route 4
Mascoutah, IL 62258 USA
Phone: 618-566-3230
800-658-4641
Fax: 618-566-3250
www.cablofil.com

Need to find fill capacity of other sizes of MC cable? Go to www.cablofil.com and click on Interactive Load Table. Choose these settings and locate the cable size you need.