



Wiremaid Products Div.
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CSI Section 16139 Cable Tray Product Specification

1.0 GENERAL

1.1 APPLICATION

This specification covers the Cable-Mgr Wire Basket Cable Tray PRO-10 and M.E.2 product families, which are used to route, protect and manage communications and/or power cable distribution for commercial, residential, institutional, industrial and utility applications. The wire basket cable tray system shall consist of straight sections and junctions of tray, and appropriate connection hardware to complete installation.

1.2 CLASSIFICATION AND USE

Wire Basket Cable Tray is to be utilized in locations only as covered in Section 12-2200 through 12-2210 of the Canadian Electrical Code and Article 392 of the 2002 National Electrical Code, as adopted by the National Fire Protection Association and as approved by the American National Standards Institute. CM20 and CM30 Trays are UL Classified as an equipment ground conductor for use in the U.S. under file No. E238185. M.E.2 Trays are ETL Classified as an equipment ground conductor.

2.0 PRODUCT DESCRIPTION

2.1 MANUFACTURER

The Wiremaid Div. of Vutec Corporation has developed a versatile steel Wire Cable Tray System that is intended to meet the rigorous demands of today's ever growing and changing cable installation industry requirements. While providing the ultimate in conformance, performance and protection as required, 'aesthetics' and corrosion protection have not been compromised with a wide choice of colors through powder coating.

2.2 MATERIALS

The tray shall be constructed of high strength C1006 steel wire, with either an overall powder coating or zinc plating, except for the PRO-10 conductive interconnection surfaces, which are galvanized zinc coated finishes.

2.3 CONSTRUCTION

Cable tray shall be constructed of 0.120 in. dia., 0.187 in. dia., or .0.250 in. dia. wire configured in a 2 in. x 2 in. (51mm x 51mm), 2 in. x 4 in. (51mm x 102mm) or 3 in. x 6 in. (76mm x 152mm) grid pattern of wires welded at the intersection points. The wire mesh is formed into a 'U' in. shaped tray.

Straight sections of wire basket tray shall be provided in selected length increments of 1, 2,5, 8 &10 ft. (3m) standard lengths for PRO-10, and 7 ft. and 10 ft for M.E.2. Junctions shall be provided in lengths of 2 ft. for tray widths 12 in. or less, and 3 ft. for tray widths greater then 12 in. for PRO-10.

- Available tray widths for PRO-10 Series are 2, 4, 6, 8,12,18 & 24 in.
- Available tray depths for PRO-10 Series are 2, 4, or 6 in.
- Available tray widths for M.E.2 Series are 6, 8, 12, 18 & 24 in.

- Available tray depths for M.E.2 Series are 2 or 4 in..

2.4 INSTALLATION HARDWARE

Various connection hardware options are available for the cable trays. Hanging and mounting brackets, along with accessory hardware, and floor mount brackets for raised floor applications are available. Hardware for attachment of the tray sections to the building structure is not included.

3.0 USER GUIDELINES

3.1 INSTALLATION

The cable tray sections shall be installed per Wiremaid installation instructions supplied with each shipment, and associated documentation.

Wire basket cable trays shall be installed in accordance with all appropriate NEMA VE-2 2000, NEC, and NFPA standards, as well as NECA guidelines for general electrical installation practices.

3.1.1 Mechanical Support

Cable-Mgr wire basket tray shall be supported on 5 ft. (1.74m) centers with either a trapeze/center rod hanging bracket, floor mount bracket or wall brackets as manufactured by The Wiremaid Div. Trapeze/center rod brackets, will be hung with 1/4 in. or 3/8 in. [6.35mm or 9.53mm] diameter threaded rod. The threaded rod is to be supplied by customer or installer.

3.1.2 Electrical Ground Integrity

All connection hardware shall be checked to make sure they are properly tightened and to ensure that all tray sections are electrically continuous and/or electrically grounded to adjacent tray sections to building earth ground in accordance with the National Electrical Code for proper building equipment grounding. Test electrical continuity of grounding for compliance to maximum grounding resistance as specified in NFPA 70B, Chapter 18.

4.0 Warranty

Limited 1 year on materials.

5.0 Reference Documents:

- 4.1** APPLICABLE STANDARDS American Iron and Steel Institute
- 4.2** (AISI)/American Society for Testing and Materials (ASTM)
- 4.3** ASTM A123 - Zinc (Hot-Dip Galvanized) Coatings on Iron and Steel Products
- 4.4** ASTM A510 - General Requirements for Wire Rods and Coarse Round Wire, Carbon Steel
- 4.5** ASTM B633 - Electrodeposited Coatings of Zinc on Iron and Steel
- 4.6** ANSI/TIA/EIA – 569 Pathways and Spaces
- 4.7** ANSI/NFPA 70/250 – National Electrical Code – Grounding and Bonding
- 4.8** ANSI/NFPA 70/770 – National Electrical Code – Optical Fiber Cables and Raceways
- 4.9** ANSI/NFPA 70/318 – National Electrical Code – Cable Trays