



**MonoSystems**<sup>™</sup>  
wire management. **managed.**<sup>SM</sup>

## **RaceTray**<sup>™</sup>

### Architect & Engineer Specifications

#### **Contact Information**

MonoSystems, Inc.

4 International Drive

Rye Brook, NY 10573

888.764.7681

[www.monosystems.com](http://www.monosystems.com)

## **Section 1 - Acceptable Manufacturers**

### 1.01 Manufacturer:

Subject to compliance with these specifications, cable tray systems shall be manufactured by MonoSystems, Inc., 4 International Dr., Rye Brook, NY 10573, Tel: 914-934-2075, [www.monosystems.com](http://www.monosystems.com)

### 1.02 References:

- A. ANSI/NFPA70 – NEC
- B. NEMA VE1
- C. NEMA VE2

### 1.03 Quality assurance:

- A. Manufacturer engaged in the fabrication of cable trays and fittings for not less than 5 years.
- B. UL Compliance: Products are UL classified and labeled
- C. Cable tray must be listed by Underwriters Laboratories as an equipment grounding conductor.
- D. NEMA Compliance: Comply with NEMA Standard VE1-2
- E. NEC Compliance: Comply with NEC Article 392
- F. NFPA Compliance: Comply with NFPA 70B.

## **Section 2 - Selection and Components**

### 2.01 General:

Provide metal cable trays, of types, and sizes indicated; with splice connectors, bolts and, nuts for connecting straight lengths and fittings. Cable tray to be constructed with rounded edges free of burrs. Cable tray to be installed and supported according to NEMA standards.

### 2.02 Materials and Finish:

- A. Pre-Galvanized Steel - Straight sections, fabricated fittings, and associated steel parts shall be constructed of mill-galvanized steel with a G90 coating.
- B. Painted finish - Straight sections, fabricated fittings, and associated steel parts shall be constructed of mill galvanized steel with a G90 coating, to which a coating of epoxy powder-coated paint shall be applied.

### 2.03 Wall-Mounted RaceTray

- A. A wall-mounted RaceTray shall be constructed of an inner wall, which provides two functions: the upper portion of the wall for anchoring the tray section, and the lower portion of the wall is designed to carry the tensile and compressive loads coming from the tray floor section to the hanger points.
- B. A tray floor section extends out from the inner wall. Below this floor section, and inclining upward from the inner wall to the end of the floor section, is another wall that forms a stiffening truss-like shape.
- C. An outer wall extends up from the end of the floor section, completing the U-shape of the tray.
- D. Wall-mounted RaceTray dimensions shall be shall be: Straight section lengths [5 feet] [10 feet] (1.5, 3.0 M) ; Loading height of [2] [3] [4] [6] inches (50, 75, 100, 150 mm) ; Widths shall be [6] [9] [12] inches (150, 220, 300 mm).

### 2.04 Center-Hung RaceTray

- A. Center-hung RaceTray shall be constructed of an inner wall, which provides two functions: the upper portion of the wall for anchoring the tray section, and the lower portion of the wall is designed to carry the tensile and compressive loads coming from the tray floor section to the hanger points.
- B. A tray floor section extends equally from the center of the tray. Below this floor section, and inclining upward from the center of the tray to the end of the floor section, is another wall that forms a stiffening truss-like shape.
- C. An outer wall extends up equally from the ends of the floor section, completing the U-shape of the tray.
- D. Center-hung RaceTray dimensions shall be shall be: Straight section lengths [5 feet] [10 feet] (1.5, 3.0 M) ; Loading height of [2] [3] [4] [6] inches (50, 75, 100, 150 mm) ; Widths shall be [6] [9] [12] [18] [24] inches (150, 220, 300, 450, 600 mm).

2.05 Splice connectors shall be furnished with each section of tray and fitting. The resistance of fixed splice connections between an adjacent section of tray shall not exceed 0.00033 ohm.

2.06 All fittings must be constructed with a minimum radius of [6] [12] inches (150, 300 mm).

2.07 Divider/barrier: A field-installed divider is available in heights of [2] [3] [4] [6] inches (50, 75, 100, 150 mm) for use within straight tray sections and fittings.

### **Part 3 - Loading Capacities and Testing**

3.01 Cable Trays shall meet NEMA 12C class designations with a minimum 1.5 safety factor.