

**Proprietary Engineer Specification - Light Tray / Non-metallic Ladder Tray**



**MonoSystems™**  
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**Contact Information**

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## **Section 1 - Acceptable Manufacturers**

A. Subject to compliance with these specifications, cable tray systems shall be supplied by MonoSystems, Inc.

## **Section 2 - Cable Tray Sections and Components**

### **A. General**

a. Provide non-metallic cable trays, of types, and sizes indicated; with straight side rails, rungs, and coupler set comprised of the coupler body and coupler pins. Cable tray to be installed and supported according to NEMA standards.

### **B. Materials and Finish**

- a. Rungs, coupler set, and fittings made with PC/ABS material.
- b. Straight side rails made in combination of PC/ABS material.

### **C. Sizes**

- a. Cable tray loading depth shall be 4" (100mm).
- b. Cable tray widths shall be 6" (150mm), 8" (200mm), 12" (300mm), 18" (450mm), 24" (600mm).
- c. Cable tray lengths shall be provided in 10' (3M) increments.
- d. Fittings shall be 6" (150mm), 8" (200mm), 12" (300mm), 18" (450mm), 24" (600mm) in width.
- e. Fittings radius 12" (300mm).

### **D. Installation**

- a. Ladder Cable Trays shall consist of two longitudinal straight side rails with rungs installed by securely snapping them into the side rail.
  - i. Rungs shall be spaced either 6" or 9" (150mm or 220mm) apart.
- b. A coupler set, composed of the coupler body, two side coupler pins, and one top coupler pin will be used to connect two straight side rails. A complete assembly will use a pair of couplers per straight tray and/or fitting connection.
- c. Cable tray support span should not exceed 5' (1.5M).
- d. Supports will be a Hanger Bracket, Stand-off Bracket, or Vertical Bracket with T-Bolt, Flat Washer, Spring Washer, M12 nut, and Cap Nut.

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

- A. Tray shall support up to 100 pounds per foot when supported on 5' (1.5M) span (@ 1.5 safety factor).
- B. Cable Trays shall meet NEMA class VE 1-2009.
- C. UL Chemical Certification (PC/ABS materials)
- D. RINA Certification