

Section 1- Acceptable Manufacturers

- 1.01 Manufacturer: Subject to compliance with these specifications, cable tray system shall be as manufactured by Cooper B-Line, Inc.

Section 2- Cable Tray Sections and Components

- 2.01 General: Except as otherwise indicated, provide metal cable trays, of types, classes and sizes indicated with splice hangers and all other necessary accessories. Provide cable trays with rounded edges and smooth surfaces in compliance with applicable standards, and with the following additional construction features.
- 2.02 Materials and Finish: Aluminum: Center rails and rungs shall be extruded from Aluminum Association Alloy 6063. All fabricated parts shall be made from Aluminum Association Alloy 5052 and all cast parts from Aluminum Association Alloy 319. All hardware and fasteners shall be zinc plated steel in accordance with ASTM B633.
- 2.03 Cable trays shall be constructed of a center rail 1.625" x 3.250" with minimum section properties of $S_x = 0.701 \text{ in}^3$ and $I_x = 1.174 \text{ in}^4$. Rungs shall be a single continuous square tube 0.54" x 0.54" with radiused corners and minimum section properties of $S_x = 0.019 \text{ in}^3$ and $I_x = 0.005 \text{ in}^4$. Rungs shall be mechanically connected to the center rail in at least two places, symmetrical about the center rail, with ends finished to protect installers and cables.
- 2.04 Rungs shall be spaced every [6] [9] [12] inches.
- 2.05 Straight sections shall be supplied in [10] [12] foot lengths.
- 2.06 Cable tray width shall be [6] [9] [12] [18] [24] inches.
- 2.07 Splice hangers must also be capable of acting as the support points for all thread rod.
- 2.08 Cable tray loading depth shall be [3] [4] [6] inches.
- 2.09 All splices and connectors must protect cables from the edges of the center rail and act as a barrier to prevent the center rail from transmitting hazardous gases or smoke; hardware must be installed vertically, so as not to interfere with the cables in the cable fill area.
- 2.10 Where required, expansion splices shall allow for 1" of thermal expansion and contraction.
- 2.11 When required, and to provide an area free of center rails for cable transitions, contractor shall install a universal hub fitting. The universal hub fitting must be a cast aluminum structural member, B-Line CAU Series (flat sheets of steel or aluminum are not acceptable), which can be used with cable ties and allows the center rails to be connected so they may be pivoted at connection points.

Section 3- Loading Capacities and Testing

- 3.01 Cable tray shall meet the loading requirements of NEMA 12C.
- 3.02 Upon request, manufacturer shall provide test reports in accordance with the latest revision of NEMA VE-1 or CSA C22.2 No. 126-M91.
- 3.03 UL Compliance: Provide products which are UL classified and labeled.

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- 2.03 Cable trays shall be constructed of a center rail 1.625" x 3.900" with minimum section properties of $S_x = 0.558 \text{ in}^3$ and $I_x = 1.272 \text{ in}^4$. Rungs shall be a single continuous rectangular tube 0.54" x 0.31" with radiused corners and minimum section properties of $S_x = 0.007 \text{ in}^3$ and $I_x = 0.001 \text{ in}^4$. Rungs shall be mechanically connected to square trunks 0.71" x 0.71", symmetrical about the trunk, with ends finished to protect installers and cables. Trunks shall be mechanically connected to the center rail.
- 2.04 Rungs shall be spaced every [6] [9] [12] inches.
- 2.05 Straight sections shall be supplied in [10] [12] foot lengths.
- 2.06 Cable tray width shall be [3] [6] [9] [12] inches.
- 2.07 Splice hangers must also be capable of acting as the support points for all thread rod.
- 2.08 Cable tray loading depth shall be 2 inches.
- 2.09 Cable tray shall have [2] [3] [4] [5] [6] tiers.
- 2.10 All splices and connectors must protect cables from the edges of the center rail and act as a barrier to prevent the center rail from transmitting hazardous gases or smoke; hardware must be installed vertically, so as not to interfere with the cables in the cable fill area.
- 2.11 Where required, expansion splices shall allow for 1" of thermal expansion and contraction.
- 2.12 When required, cable tray system shall be expandable after installation, up to two additional tiers.

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- 2.05 Straight sections shall be supplied in [10] [12] foot lengths.
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- 2.07 Splice hangers must also be capable of acting as the support points for all thread rod.
- 2.08 Cable tray loading depth shall be [3] [4] [6] inches.
- 2.09 All splices and connectors must protect cables from the edges of the center rail and act as a barrier to prevent the center rail from transmitting hazardous gases or smoke; hardware must be installed vertically, so as not to interfere with the cables in the cable fill area.
- 2.10 Cable tray shall be capable of being installed flush against a flat surface without the use of spacers or brackets.
- 2.11 Where required, expansion splices shall allow for 1" of thermal expansion and contraction.

Section 3- Loading Capacities and Testing

- 3.01 Upon request, manufacturer shall provide test reports in accordance with the latest revision of NEMA VE-1 / CSA C22.2 No. 126.1-98.
- 3.02 UL Classified: Provide products which are UL classified and labeled.

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- 3.02 UL Compliance: Provide products which are UL classified and labeled.