



1.0 General

- 1.1 Cable Tray is NOT a ladder, platform or scaffold device. DO NOT SIT OR STAND ON CABLE TRAY.
- 1.2 Cable Tray is a system of components specified by engineers and installed by qualified personnel for the purpose of routing non-portable wires and cables throughout the structure.

2.0 Standards

- 2.1 Cable Trays from QPI are ABS certified for maritime application.
- 2.2 Cable Trays are NEMA VE 1 tested. The test data form part of this specification.
- 2.3 Cable Trays from QPI are NOT classified as an EGC, Equipment Grounding Conductor.

3.0 Marking

- 3.1 QPI marks each part with its logo.
- 3.2 Specifiers and Installers are directed to follow marking requirements per NEC National Electric Code Article 392.

4.0 Loading

- 4.1 Cable Tray loading, deflection and sizing shall be determined by qualified engineering or customer personnel. QPI does not specify load or sizing of the system.
 - 4.1.1 Including but not limited to dead, live and dynamic loads impacting the cable tray system.
 - 4.1.2 QPI Cable Tray shall meet or exceed NEMA VE 1 load classification

5.0 Cable Tray Design

- 5.1 Two side rails with cross rails consisting of the following component configurations.
 - 5.1.1 Straight sections 128" in length and ranging in width from 4" to 36".
 - 5.1.2 90 degree radius sections for horizontal curves ranging in width from 4" to 36".
 - 5.1.3 90 degree hard way radius sections for vertical up and down curves ranging in width from 4" to 36".
 - 5.1.4 Splice connectors. Designed for system expansion / contraction or welded in-place
 - 5.1.5 Floor / Wall / Tee connectors. May be bolted or welded.
 - 5.1.6 Mounting Hardware
 - 5.1.6.1 3/8-16 x 1-1/4" L Flanged Hex Bolt
 - 5.1.6.2 3/8-16 Flanged Steel Hex Nut
 - 5.1.6.3 18-8 Stainless Steel and Grade 5 Zinc / Steel.
 - 5.1.6.4 2 bolts and nuts per splice connector.
 - 5.1.6.5 2 splice connectors and 4 bolt / nut sets to join trays
 - 5.1.7 Cross Rails are available spaced on 6", 9", 12" or 16" intervals.
 - 5.1.8 Widths available: 4", 6", 8", 12", 16", 18", 20", 24", 30", 36".
 - 5.1.9 Components do not support collection of moisture or contaminants.

6.0 Cable Tray Construction

- 6.1 Side rails are 3/16 x 1-1/4" and perforated with 7/16 x 1.0" slots for mounting hangers and splicing sections together.
- 6.2 Cross Rails are 16 ga. steel perforated with slots to facilitate cable and wire fastening and formed into a Z shape for structural rigidity and having formed edges to eliminate sharp edges from contacting cable jacketing.



6.3 Assembly is performed using Manual and or Robotic MIG Welding processes.

7.0 Materials

7.1 All Cable Tray components are available in the following materials and finishes.

7.1.1 316L Stainless Steel plain no finish on stainless.

7.1.2 Carbon steel with Hot Dip Galvanize per ASTM A123.

7.1.3 Carbon steel with Polyester TGIC Powder coat finish.

8.0 Installation

8.1 Installation shall be per NEC National Electric Code Article 392 – Cable Trays.

8.2 Installation shall be per NEMA VE 2.

8.3 Cable Trays from QPI are NOT CLASSIFIED as an EGC, Equipment Grounding Conductor.

8.4 It is incumbent on the specifier and installer to comply with all NEC grounding requirements.

8.5 Straight sections and radii are NOT to be supported at splice connections.

8.6 Supports are mounted between splice connectors per specifiers load calculations and supporting the cable tray at a minimum of 2 places per tray section, straight or radius.

8.7 Installation shall be performed by qualified personnel only