

**SPECIFICATION
MONO-RACK CABLE SUPPORT SYSTEM**

PART 1 GENERAL

1.01 1.01 SECTION INCLUDES

- A. This section is comprised of the furnishing of all labor, materials, equipment, services, and supervision for the complete and functioning installation of the cable support system as represented on prints and in this specification.

1.02 REFERENCES

- A. ASTM A36 – Specification for Carbon Structural Steel
- B. ASTM A570 – Specification for Steel, Sheet and Strip, Carbon, Hot-Rolled, Structural Quality
- C. ASTM A513 – Specification for Electric-Resistance-Welded Carbon and Alloy Steel Mechanical Tubing
- D. ASTM B633 - Specification for Electro-deposited Coatings of Zinc on Iron and Steel.
- G. NFPA 70, National Electrical Code

1.03 CLASSIFICATIONS AND QUALITY

- A. Cable support system shall be classified by Underwriters Laboratories (UL) and recognized as cable and conduit hardware.
- B. Cable support system shall be of a consistency and appearance, which is uniform.

1.05 SUBMITTALS

- A. Submit product data on cable support system. Product information shall be complete in providing adequate data as is relevant to specific installation.

PART 2: PRODUCT

2.01 ACCEPTABLE MANUFACTURERS

- A. Manufacturer: All cable support system rack, fittings, and associated accessories to be manufactured by Mono-Systems, Inc.

2.02 CABLE RUNWAY SYSTEMS

- A. General: Provide metal cable support systems as designated, having dimensional, material, and loading requirements indicated including splice attachment hardware, bolts, nuts and washers for a complete and functioning system.

- B. Runway Types: Each style and class of runway material shall conform to one of the following:
1. C-Channel stringer type: Cable support rack sections are to be ladder type with (1-1/2") (2") stringer height with rungs welded in a perpendicular fashion. Stringer shall be constructed of ASTM A570 steel or equal.
 2. Tubular stringer type: Cable support rack sections are to be ladder type with (1-1/2") (2") stringer height with rungs welded in a perpendicular fashion. Stringer shall be constructed of a seam welded ASTM A513 steel or equal.
 3. Solid Bar stringer type: Cable support rack sections are to be ladder type with (1-1/2 inch) (2 inch) stringer height with rungs welded in a perpendicular fashion. Stringer shall be of a ASTM A36 steel bar or equal.
 4. Cable support rack rungs shall be of an ASTM A570 (or equal) structural steel C-channel design with smooth radius edges, or of an ASTM A513 (or equal) tubular, seam welded design. Rung dimensions shall be 1/2" X 1", or of an acceptable cross section and structural design.
 5. Cable support rack sections shall be _____ (4" to 36") inches wide and _____ (60" or 119.5") inches in length, or as shown on drawings.
 6. (Mono-Systems, Inc. Catalog Number)
- C. Finishes:
1. Cable support rack is to be (YZD: Yellow zinc Dichromate) (Powder Coat – Telco Gray) (_____ Color Powder Coat)

2.03 FITTINGS AND ACCESSORIES

- A. General: All fittings and required hardware, including but not limited to, splices, hangers, nuts, bolts, washers, and accessories shall be provided for a complete and functioning system.
1. Radiused horizontal fittings shall be constructed from stringer material, or equal. Each shall provide a minimum 12 inch inside radius and 3 inch straight tangents at ends for simplified attachment to straight sections. Rung spacing shall be appropriate to accommodate maximum loading and cable support as required for project.

2.04 LOADING CAPACITIES

- A. Cable support rack shall be _____ lbs./ft. uniform load on a _____ foot support span with a safety factor of 1.5 when supported as a simple beam span.

PART 3 EXECUTION

3.01 INSTALLATION

- A. Installation and configuration shall conform to the requirements of the ANSI/ EIA/TIA Standards 568A & 569, NFPA 70 (National Electrical Code), and applicable local codes.
- B. Runway should be supported not more than 8 feet on center with 5/8 inch diameter threaded rod, or appropriate mounting brackets.