

## SECTION 16xxx

### CABLE RUNWAY SUPPORT SYSTEMS

#### PART 1 GENERAL

##### 1.01 SECTION INCLUDES

- A. Work covered under this section consists of the furnishing of all necessary labor, supervision, materials, equipment, and services to completely execute the cable runway system as described in this specification and as shown on the drawings.

##### 1.02 REFERENCES

- A. ASTM A36 – Specification for Carbon Structural Steel
- B. ASTM A1011 – Specification for Steel, Sheet and Strip, Hot-Rolled, Carbon, Structural, High-Strength Low-Alloy and High-Strength Low-Alloy with Improved Formability  
(Formerly ASTM A570)
- C. Aluminum Association Alloy 6063 & 5052
- D. ASTM B633 - Specification for Electro-deposited Coatings of Zinc on Iron and Steel
- E. ANSI/ TIA/ EIA 568A - Commercial Building Telecommunications Cabling Standard
- F. ANSI/ TIA/ EIA 569 - Commercial Building Standard for Telecommunications Pathways and Spaces
- G. NFPA 70, National Electrical Code

##### 1.03 DRAWINGS

- A. The drawings, which constitute a part of these specifications, indicate the general route of the cable runway systems. Data presented on these drawings is as accurate as preliminary surveys and planning can determine until final equipment selection is made. Accuracy is not guaranteed and field verification of all dimensions, routing, etc., is required.
- B. Specifications and drawings are for assistance and guidance, but exact routing, locations, distances and levels will be governed by actual field conditions. Contractor is directed to make field surveys as part of his work prior to submitting system layout drawings.

##### 1.04 QUALITY ASSURANCE

- A. Aluminum and painted cable runway shall be classified by Underwriters Laboratories (UL).
- B. Cable runway shall be of uniform quality and appearance.

##### 1.05 SUBMITTALS

- A. Submit product data on cable runway and supports. Product data to include, but not limited to materials, finishes, approvals, load ratings, and dimensional information.

#### 1.06 DELIVERY, STORAGE AND HANDLING

- A. Deliver cable runway systems and components carefully to avoid breakage, bending and scoring finishes. Do not install damaged equipment.
- B. Store cable runways and accessories in original cartons and in clean dry space; protect from weather and construction traffic.

### **PART 2 PRODUCTS**

#### 2.01 ACCEPTABLE MANUFACTURERS

- A. Manufacturer: Subject to compliance with these specifications, cable runway, fittings, and supports shall be as manufactured by Cooper B-Line Inc. [or engineer approved equal].

#### 2.02 CABLE RUNWAY SYSTEMS

- A. General: Except as otherwise indicated, provide metal cable runways, of types, classes and sizes indicated with splice connectors, bolts, nuts and washers for connecting units.
- B. Runway Type: Material specifications for runway are as follows:
  - 1. C-Channel style runway: Runway shall be ladder type with [1-1/2 inch][2 inch] stringer height with mechanically fastened rungs. Stringer siderail shall be extruded from Aluminum Association Alloy 6063. All fabricated parts shall be made from Aluminum Association Alloy 5052.
  - 2. Rungs shall be spaced 9 inches on center. Rungs shall be mechanically fastened for easy removal, reinstallation, or replacement if necessary.
  - 5. Runway shall be [6][9][12][15][18][20][24][30][36] inches wide and 120 inches long, or as shown on drawings.

Or

- 6. [B-Line Catalog Number]

- A. Finishes

- 1. Cable runway shall be [bare aluminum] [Flat Black powder coat]

#### 2.03 FITTINGS AND ACCESSORIES

- A. General: All fittings, supports, splices, etc. for the runway system shall be installed to provide a complete assembly- including fasteners, hardware, and other items required to complete the installation as indicated on the drawings.

#### 2.04 LOADING CAPACITIES

- A. Cable runway shall be capable of carrying a uniformly distributed load of \_\_\_\_\_ lbs./ft. on a \_\_\_\_\_ foot support span with a safety factor of 1.5 when supported as a simple span. Load and safety factors specified are applicable to both side rails and rung capacities.

### **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 every [4][5][6][8] feet on center with 5/8 inch diameter threaded rod, or applicable support brackets or racks.

**END OF SECTION**