



## **The Hook™**

**H-233 / H-433 / H-CSE-12**

**Architect & Engineer Specifications**

### **Contact Information**

MonoSystems, Inc.

4 International Drive

Rye Brook, NY 10573

888.764.7681

[monosystems.com](http://monosystems.com)

## **PART 1 – GENERAL**

### **1.1 SUMMARY**

#### **A. Section Includes:**

1. Non-continuous open top cable support designed to support cables, optical fiber raceway and communications raceway with flexible mounting options.
2. Fittings and hardware to fasten and hang non-continuous open top cable supports.

#### **B. Related Requirements:**

1. Drawings
2. General and supplementary conditions

### **1.2 ACTION SUBMITTALS**

#### **A. Product Data:**

1. For non-continuous open top cable supports, brackets, and appurtenances product data to include, but not limited to cable fill quantities, materials, finishes, approvals, load ratings, and dimensional information.

#### **B. Shop Drawings:**

1. Layout of pathway system with length, and locations identified.

#### **C. Samples**

1. One non-continuous open top cable support for each color and typical mounting configuration.

### **1.3 INFORMATIONAL SUBMITTALS**

#### **A. Coordination Drawings**

1. Pathway routing plans coordinated with other trades showing elevation, architectural elements and obstacles in pathway.

## 1.4 DELIVERY, STORAGE AND HANDLING

### A. Delivery and Acceptance Requirements

1. All products shall be delivered new in original manufacturers containers.

### B. Packaging Waste Management

1. All packaging shall be disposed of in accordance with project manual requirements to obtain LEED Credit 2.2. Construction Waste Management.

## 1.5 FIELD CONDITIONS

### A. Existing Conditions

1. Notify Architect immediately of unforeseen conditions exposed during demolition that reveal structural or support deviations requiring installation different from submittal drawings.

## **PART 2 – PRODUCTS**

### 2.1 MANUFACTURERS

A. Subject to compliance with requirements provide products by the following manufacturer:

1. MonoSystems, Inc., 4 International Dr., Rye Brook, NY 10573 Phone 888.764.7681

### 2.2 DESCRIPTION

#### A. Non-Continuous Open Top Cable Support

1. One piece design with integrated wire retainer clip.
2. Radiused edges to prevent damage to cable contents.
3. Steel capable of supporting maximum 70 pounds (H-433) and 60 pounds (H-233) with a safety factor of 1.5.
4. Galvanized or stainless steel finish.

5. Infinitely linkable with zero associated hardware. Shall be capable of linking one-to-the-next without supports, brackets, or additional materials. Tiered in a single column, or back-to-back (J-hook Trees).
6. Accept 3/8" (or 10mm) threaded rod, 12 gauge – 1/4" hanger wire, for attachment to building structure or sub-structure.
7. Holes for attachment to wall surfaces, beams, trusses, and direct attachment to cable trays.
8. J-hook dimensions: H-433, nominally 4" high x 3" deep ; H-233, nominally 2" high x 3" deep.
9. White, red, green, yellow or blue color identifiers for content designation of segregated cables.
  - a. Colored identifiers H-433-CB-WH (white), H-433-CB-RD (red), H-433-CB-GR (green), H-433-CB-YE (yellow), H-433-CB-BL (blue)
10. Manufacturer shall be MonoSystems, Inc.
  - a. H-433-S (galvanized steel) or H-433-SS (304 stainless steel)
  - b. H-233-S (galvanized steel) or H-233-SS (304 stainless steel)

B. Center Hanger Connector Plate

1. Bracket that allows for back-to-back open top cable support mounting. J-hook Tree construction.
2. Continuous cable division shall be fully maintained within each open top cable support.
3. Fittings shall be manufactured of galvanized steel or stainless steel.
3. Manufacturer shall be MonoSystems, Inc.
  - a. H-433-H (galvanized steel) or H-433-HSS (stainless steel)

C. Multi-tier Assembly

1. Bracket that allows for top-to-bottom non-continuous open top cable support mounting.
2. Continuous cable division shall be fully maintained within each non-continuous open top cable support.

3. Fittings shall be manufactured of galvanized steel or stainless steel
  4. Manufacturer shall be MonoSystems, Inc.
    - a. H-433-S (galvanized steel) or H-433-SS (stainless steel)
    - b. H-233-S (galvanized steel) or H-233-SS (stainless steel)
- D. Cable Support Extender (H-CSE-12)
1. 12” long cable support extender
  2. For the purpose of extending the support platform for cables and wires. Eliminating point loads.
  3. Attaches directly to the H-233 and H-433 without additional hardware.
  4. Does not interfere with J-hook linkability.
  5. Plenum rated, UL listed.
  6. Material: RTP199X127145F (glass filled polypropylene). Listed to UL 2043 and UL94 flame rated.
- E. Beam Clamp Assembly
1. Beam clamp assembly may attach to top or back of non-continuous open top cable support.
  2. Mounts to standard “H” or “I” beam construction
    - a. H-4333-BC beam clamp
    - b. H-2333-BC beam clamp

## 2.3 SOURCE OF QUALITY CONTROL

### A. Tests

1. Non-continuous open top cable support and fittings shall be listed or labeled by a qualified testing agency for intended location and application.
2. UL listed

## B. Finishes

1. ASTM B633 Standard Specification for Electro-deposited Coatings of Zinc on Iron and Steel
2. ASTM B 695 Standard Specification for Coatings of Zinc Mechanically Deposited on Iron and Steel
3. ASTM A123 Standard Specification for Zinc (Hot-Dip Galvanized) Coatings on Iron and Steel Products
4. ASTM A924/A924M Standard Specification for General Requirements for Steel Sheet, Metallic-Coated by the Hot-Dip Process

## **PART 3 – EXECUTION**

### 3.1 EXAMINATION

#### A. Verification of Conditions

1. Prior to installation examine field conditions to verify suitability of surface area for attachment.

### 3.2 INSTALLATION

A. Comply with NFPA 70 requirements for type of support allowed in specific occupancy.

B. Comply with ANSI/NECA 1-2010 Standard Practice of Good Workmanship in Electrical Construction.

#### C. Fasteners

1. Follow all manufacturer's support instructions.
2. Installer is responsible for the integrity of the structures to which the system is attached, including their capability of safely accepting the loads imposed as evaluated by a qualified engineer.

D. Separate non-continuous open top cable support from sources of high heat and steam by 8" or greater.

E. Follow manufacturer's recommended wire fill for communications cables.

F. Color identifier shall be placed over each retaining cage. Color of sleeve shall be per system as selected by owner and engineer.

G. Place non-continuous open top cable supports 48 - 60 inches (1220-1525 mm) on center.

### 3.3 CLEANING

A. Comply with manufacturer's instructions for solvents.