AdvanceWay - AW33

2-channel, Metallic and Non-metallic Surface Raceway

Architect & Engineer Specifications

Contact Information

MonoSystems, Inc.

4 International Drive

Rye Brook, NY 10573

888.764.7681

www.monosystems.com

PART 1 – GENERAL

1.1 SUMMARY

A. Section Includes:

1. Aesthetic two-channel metallic and non-metallic surface raceway used for electrical wiring and cabling with flexible device locations and bend radius solution for data cables.

2. Fittings and boxes that maintain vertical division of divided raceway

B. Related Requirements:

1. Drawings

2. General and supplementary conditions

1.2 ACTION SUBMITTALS

A. Product Data:

1. For surface raceway, fittings, device brackets, boxes and appurtenances.

B. Shop Drawings:

1. Layout of complete system with raceway length, box locations and fittings identified.

C. Samples

1. 12” long raceway section with device box, power and communications outlets, faceplate, and wiring installed for each color and typical faceplate configuration.

1.3 INFORMATIONAL SUBMITTALS

A. Coordination drawings

1. Raceway 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 off 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. Surface raceway base and cover

1. Raceway shall be two-piece design with base and snap-on covers. Raceway base shall accept two individual covers, one for each compartment.

2.Raceway shall be capable of inserting and removing wires and cables from the top of the raceway after installation without disassembling channels.

3. Raceway shall allow for two wiring channels separated by a vertically oriented divider.

4. Total raceway width shall be 2.82” x 3.00” deep with approximate wall thickness of .080”. Base shall be available in 10' lengths.

5. Raceway shall have an anodized metallic finish (metallic) or a textured white color (non-metallic).

6. Manufacturer shall be MonoSystems

a. Base AW33BX-X
b. Cover AW33C5X
c. Decor Cover AW33DP5-W

B. Fiber Optic, UTP, and F/UTP Radius Full Capacity Corners and Fittings

1. Elbows and tee fittings shall maintain a controlled 2" [51mm] cable bend radius which meets the specifications for Fiber Optic, UTP and F/UTP cabling and exceeds the TIA / EIA 569-C requirements for communications pathways.

2. Continuous vertical division shall be fully maintained within each fitting.

3. Fittings available shall include

a. tee AW33SCX

b. entrance fitting AW33DBX

c. seam clip AW33SCX

d. end cap AW33ECX

e. flat elbow AW33FEX

f. inside elbow AW33IEX

g. outside elbow AW33OEX

4. Fittings shall have an anodized metallic finish (metallic) or a textured white color (non-metallic) to match the base and cover.

5. Transition fitting shall be available to adapt to other series raceways.

6. Fittings shall be manufactured of anodized aluminum (metallic) or rigid non-metallic, PVC compound (non-flammable, self-extinguishing UL94V-0).

C. Device and Fixture Boxes

1. Device boxes shall be available for mounting all standard power, data, and AV devices.

2. Device box shall be available in single-gang configuration. Box shall allow for a single-gang faceplate to be directly mounted, and positioned facing upward or downward with a 30-degree angle.

3. Device box shall be constructed of two 3-sided components which allow for fully integrated power and data cables and corresponding devices to be positioned into place without the need for a separate “punch-down” and connection efforts at a later time.

4. The lower component of the device box shall have clips on its underside to allow it to be secured onto the top of the base, at any point, with no cutting of the base necessary.

5. The lower component of the device box shall have concentric knock-outs which allow it to function as an entrance fitting for the system.

6. Device boxes shall have an anodized metallic finish (metallic) or a textured white color (non-metallic) to match the base, cover and fittings.

6. Manufacturer shall be MonoSystems

a. AW33

2.3 SOURCE OF QUALITY CONTROL

A. TESTS

1. Surface raceway and fittings shall be listed or labeled by a qualified testing agency for intended location and application.

2. Non-metallic product shall comply with UL 94 V-0 requirements for self-extinguishing characteristics.

3. Product shall comply with UL 5A.

PART 3 – EXECUTION

3.1 EXAMINATION

A. Verification of Conditions

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

3.2 INSTALLATION

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

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

C. Fasteners

1. Install surface raceway with anchors and screws.

2. Fasten raceway at two or more locations per raceway base section.

3. Fasten raceway at least every 20”.

4. Follow all manufacturer's support instructions.

D. Separate raceway from sources of high heat and steam by 8” or greater.

E. Install raceway system before installing wire and cable.

F. Coordinate installation with furniture and fixtures where height is not shown in elevation drawings.

G. Install horizontal base level with finished surface.

H. Install all appropriate fittings and device faceplates for a complete surface raceway system as indicated on drawings.

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

J. Color shall be as selected by architect.

3.3 CLEANING

A. Comply with manufacturer's instructions for solvents.