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ADVANCEWAY™ MULTI-COMPARTMENT NONMETALLIC RACEWAY

PART 1 GENERAL

1.1 SCOPE

This specification covers a surface nonmetallic raceway system used for branch circuit wiring and/or data, voice, video, and other low-voltage wiring. The nonmetallic raceway system shall consist of raceway, appropriate fittings, and device brackets to complete installation per electrical/communication drawings. Division within the raceway and fittings, and throughout all runs, is to be maintained vertically.

1.2 CLASSIFICATION AND USE

Surface nonmetallic raceway is to be utilized in dry interior locations only as defined in Article 388 of the National Electrical Code, as adopted by the National Fire Protection Association and approved by the American National Standards Institute. Mono-Systems, Inc. AdvanceWay is ETL Listed to U.S. and Canadian safety standards under File Nos. 3031824CRT-001. It complies with TIA / EIA 569-B Commercial Building Standards for Telecommunications. For pre-wired applications, AdvanceWay is ETL Listed under Surface Raceway Kits under File No. 3046489CRT-001. The AdvanceWay has a 600V rating for power applications.

1.3 SUBMITTALS

For pre-wired installations, submit drawings for approval showing the complete layout of all products that make up the complete system for each floor prior to installation with raceway lengths, device type (power and/or data), locations and circuits identified.

PART 2 PRODUCT

2.1 MANUFACTURER

The surface nonmetallic raceway system specified herein for branch circuit wiring, or data, voice, video, and/or other low-voltage wiring shall be the AdvanceWay as manufactured by Mono-Systems, Inc., 4 International Dr. Rye Brook, NY 10573.

Systems of the same attributes, by other manufacturers may be considered equal if, in the opinion, and the written approval of the engineer, they meet all the performance standards specified herein. Written request for approval must be submitted to the engineer at least ten days prior to bid date. Each request shall include the name of the manufacturer and a complete description of the proposed substitute.

2.2 MATERIALS

The raceway and all system components must be composed of ETL Listed materials and exhibit nonflammable self-extinguishing characteristics, tested to comparable specifications of UL94V-0. The raceway base and cover shall be manufactured of rigid PVC compound, available in ivory or white.

2.2.1 Raceway

The raceway shall be a two-piece design with a base and snap-on covers. The raceway base shall accept two individual covers, one for each compartment. Total raceway width shall be 2.82" [70mm] by 3.00" [75mm] deep with an approximate wall thickness of .080" [2mm]. The base shall be available in 10' [3m] lengths. The raceway shall allow for two or three wiring channels.

The AdvanceWay base shall have two wiring channels separated by a vertically-oriented divider. Horizontally-oriented dividers will not be accepted. A snap-in divider will allow for a third wiring channel, dividing the raceway by two vertical dividers forming 1/2, 1/4, and 1/4 compartments.

2.2.2 Fiber Optic/UTP/STP Radius Full Capacity Corners and Fittings

A complete line of full capacity corner elbows and tee fittings must be available to maintain a controlled 2" [51mm] cable bend radius which meets the specifications for Fiber Optic and UTP/STP cabling and exceeds the TIA / EIA 569-A requirements for communications pathways. They shall be manufactured of a rigid PVC compound. A full complement of fittings must be available including, but not limited to tees, entrance fittings, seam clips, and end caps. Continuous vertical division shall be fully maintained within each fitting. The fittings shall have a texture in ivory or white colors to match the base and cover. A transition fitting shall be available to adapt to other Mono-Systems series raceways.

2.2.3 Device and Fixture Boxes

Device boxes shall be available for mounting all standard power, data, and AV devices. A device box shall be available in single-gang configuration. The box shall allow for a single-gang faceplate to be directly mounted, and positioned facing upward with a 30-degree angle.

The 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.

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.

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

PART 3 EXECUTION

3.1 INSTALLATION

Prior to and during installation, refer to the system layout drawing or installation instructions containing all elements of the system.

3.1.1 Completeness

Work shall include furnishing all raceway and appropriate fittings and device plates to install a nonmetallic surface raceway system as indicated on the electrical and/or communication drawings and in the specification. Installer shall comply with detailed manufacturer's instruction sheets, which accompany the system.