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LD Non-Metallic Surface Raceway

LP-SPEC-LD-2

1. GENERAL

1.1 Scope

This specification covers a surface nonmetallic raceway system used for data network, voice, video, and other low-voltage cabling. The nonmetallic raceway system shall consist of raceway, appropriate fittings, and accessories to complete installation per electrical drawings.

1.2 Classification and Use.

Surface nonmetallic raceway is to be utilized in dry interior locations only as covered in Article 388 of the National Electrical Code, as adopted by the National Fire Protection Association and as approved by the American National Standards Institute.

1.3 Submittals

1.3.1 Shop Drawings

Submit drawings for approval showing the complete layout of all products that make up the complete system for each floor prior to installations with device type (data), locations.

1.3.2 As Built Drawings

If variations from the approved shop drawings occur during the installation of the system, final, as built drawings, shall be submitted for each floor that has been altered.

2. PRODUCT

2.1 Manufacturer

The surface nonmetallic raceway system specified herein for data network, voice, video, and other low-voltage cabling shall be the LD System as manufactured by the Panduit Corporation. Systems of 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.

2.2 Materials

The raceway and all system components must be exhibit nonflammable self-extinguishing characteristics, tested to comparable specifications of UL94V-0.

2.2.1 Raceway

The raceway shall be a one-piece design. Total width shall be .77” by .46” deep for LD3, 1.00” by .60” deep for LD5, and 1.51” by 0.94” deep for LD10 with all having an approximate wall thickness of .055”. The raceway shall be available in 6’, 8’ and 10’ lengths.

The raceway (LD) shall have an integral hinge attaching the cover to the base. The raceway shall be manufactured of rigid PVC compound. The raceway shall have a smooth texture, and be available in four colors, off-white, electrical ivory, white, and light gray.

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2.2.2 Fittings

A full complement of fittings (LD series) must be available including but not limited to flat, internal and external elbows, divided tees and entrance fittings, couplers, and end caps. Applicable fittings shall be of either cover only design or cover & base design if required to provide bend radius control. The fittings shall be manufactured from high impact polystyrene (HIPS). The fittings shall have a matte texture and be available in four colors, off-white, electrical ivory, white, and light gray to match the raceway. They shall overlap the raceway to hide uneven cuts.

2.2.3 Accessories

Junction boxes and faceplates shall be available for mounting standard devices. The junction boxes shall be available in standard, deep, and extra deep versions. The faceplates shall be designed to accept Panduit communications modules for data terminations. The faceplates may accommodate up to 6 jacks and shall be modular in design to accept UTP, Coax, ST, SC, and Fiber-Jack type of connectors. They shall be available in off-white, electrical ivory, white, and light gray to match the raceway.

3. Execution

3.1 Installation

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

3.1.2 Work shall include furnishing all raceway and appropriate fittings and device plates to install a nonmetallic surface raceway system as indicated in the electrical drawings and in the specification. The installer shall comply with detailed manufacturer's instruction sheets, which accompany system components as well as system instruction sheets.

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