

**SECTION 16130**  
**PLENUM OPTICAL FIBER/COMMUNICATION RACEWAY**

**PART 1 GENERAL**

**1.1 SECTION INCLUDES**

- A. Plenum Flexible Raceway
- B. Fittings

**1.2 REFERENCES**

- A. UL - Underwriters Laboratory Inc.
- B. NEC - National Electric Code

**1.3 SUBMITTALS**

- A. Submit under provisions of Section 01300
- B. Product Data - Provide standard details and installation instructions.

**PART 2 PRODUCTS**

**2.1 MANUFACTURERS**

- A. Provide products offered by Carlton, 25701 Science Park Drive, Cleveland, Ohio 44122. ASD. Tel: outside of Ohio; (800) 3CARLON (322-7566), within Ohio; (216) 464-3400, TDD: (216) 831-5918. Fax: (216) 766-6444
  - 1. Substitutions will not be acceptable.

**2.2 MATERIALS**

- A. White or orange PVDF Resin, a fluoropolymer compound.

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**2.3 PRODUCTS**

- A. Plenum rated flexible optical fiber/communication raceway.
- B. Provide wire management in a building for fiber optic and data and communications cabling.
- C. Recognized per NEC Articles, 770 and 800 for Plenum, Riser and General Purpose Raceway for optical fiber, and telecommunications cables.
- D. UL Listed
- E. Meets UL 910 standards for Plenum Optical Fiber/Communications raceways.
- F. Provide all fittings to form a complete integrated raceway system.

**2.4 FABRICATION**

- A. Extrude raceway from precision extruded PVDF resin
- B. 1"-2" diameter raceway shall have a 1/4" wide 1250 lb. tensile pull tape preinstalled.
- C. Shall be available in 3/4" through 2" diameters.
- D. Footage shall be sequentially marked.

**2.5 RACEWAY COMPONENTS**

- A. Plenum Adapters and Fittings.
  - 1. Threaded Aluminum Coupling: Molded Aluminum fitting which connect two pieces of corrugated tubing equipped with threaded ends.

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2. Quick-Connect Couplings: Molded Part which allows two pieces of 1" diameter corrugated tubing to be quickly snapped together. Available only in 1" diameter.
3. Quick-Connect Threaded Male Adapters: Molded fitting which quickly snaps onto a 1" diameter piece of corrugated tubing to produce a threaded end. Available only in 1" diameter.
4. Quick-Connect Male Snap-In Adapters: Molded fitting which snaps onto a 1" diameter piece of corrugated tubing to connect to an outlet or switch box. Available only in 1" diameter.
5. Metallic Terminal Adapters: Molded metal part which allows a piece of corrugated tubing to connect to metallic conduit and metallic boxes.

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**PART 3 INSTALLATION**

**3.1 EXAMINATION**

- A. Verify that dimensions are correct and site is in proper condition. Make sure that application of corrugated tubing is allowed by NEC, Articles 770 and 800. Do not proceed with installation until unsatisfactory conditions have been corrected.
- B. Verify that the product is listed and is properly marked.

**3.2 INSTALLATION**

- A. Store products in manufacturer's unopened package until installation.
- B. Install in accordance with manufacturers instruction, and the NEC, Articles 770 and 800.
- C. Install fittings, accessories, etc., as necessary for a complete system.

END