

**SECTION 16130**  
**RISER OPTICAL FIBER/COMMUNICATIONS RACEWAY**

**PART 1 GENERAL**

**1.1 SECTION INCLUDES**

- A. Riser Flexible Raceway
- B. Fittings

**1.2 REFERENCES**

- A. UL - Underwriter's 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 requirements.

**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) 3 CARLON (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. Orange polyvinyl chloride (PVC)

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**2.3 PRODUCTS**

- A. Riser rated Flexible Optical Fiber/Communication Raceway.
- B. Provides wire management for fiber optic and data and communications cabling in Riser applications and/or General Purpose applications within a building or for direct burial or concrete encasement.
- C. Recognized per NEC Articles, 770 and 800 for Plenum, Riser and General Purpose applications for optical fiber, and telecommunications cables.
- D. UL Listed
- E. Listed under UL 1666 - Standard for Riser Application for Optical Fiber Raceway.
- F. Provide all fittings to form a complete integrated raceway system.

**2.4 FABRICATION**

- A. Fabricate Raceway from precision extruded PVC resin.
- B. Kevlar-pull tape can be preinstalled in the 1" through 2" diameter.
- C. The footage shall be sequentially marked.
- D. Shall be available in 3/4" through 2" diameters.

**2.5 RACEWAY COMPONENTS**

- A. Riser 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 corrugated tubing to be quickly snapped together. Available only in 1/2"-1" diameter.
3. Quick-Connect Threaded Male Adapters: Molded fitting which quickly snaps onto a piece of corrugated tubing to produce a threaded end. Available only in 1/2"-1" diameter.
4. Quick-Connect Male Snap-In Adapters: Molded fitting which snaps onto a piece of corrugated tubing to connect to an outlet or switch box . Available only in 1/2"-1"
5. Metallic Terminal Adapters: Molded metal part which allows a piece of corrugated tubing to connect to metallic conduit and metallic boxes.
6. Schedule 40 Fittings: Molded fitting that is solvent cemented to the raceways. Schedule 40 fittings are commonly used with PVC Schedule 40 rigid conduit.

**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.

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3.2 INSTALLATION

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

END