

Connectrac Floor-Mounted U Series Raceway System Product Specifications

PART 1 GENERAL

1.1 Scope

This specification covers a floor-mounted raceway system made of a combination of aluminum and extruded PVC. The raceway system mounts to a concrete floor slab and is substantially covered by floor covering, leaving only the linear raceway cap exposed. The system shall be used for branch circuit wiring and / or data, communications, video and other low-voltage wiring. The complete raceway system shall consist of an aluminum base track, mating aluminum cap, PVC side ramps, device boxes, appropriate fittings, and power wires enclosed in a low-profile flexible conduit, to complete installation per electrical drawings.

1.2 Classification and Use

The floor-mounted raceway system is to be utilized in dry, interior locations only as covered in Article 386 of the National Electrical Code, as adopted by the National Fire Protection Association and as approved by the American National Standards Institute. The electrical power components of the connectrac floor-mounted I Series raceway system are listed by Underwriters Laboratories under File No. E117464, Volume 1, Section 2, page 70, Issued 1994-02-01, Revised 2007-11-21). Connectrac systems shall not be installed in any jurisdiction where local Codes or regulations forbid its use without specific written authorization of the governing Code official.

PART 2 PRODUCT

2.1 Manufacturer

The floor-mounted raceway system specified herein for branch circuit wiring and / or data, communications, video and other low-voltage wiring shall be the connectrac floor-mounted I Series raceway system as manufactured by Strong Products Group, Ltd. Systems of other manufacturers may be considered equal if, in the opinion and written approval of the specifier, they meet all of the performance standards specified herein.

2.2 Materials

2.2.1 The metal device box and flexible low-profile flexible conduit which will house the supplied power wires must be UL listed. Other system components include extruded aluminum base track, extruded aluminum snap-on cap, and extruded PVC side ramps along the entire length of the raceway system.

2.2.2 Raceway. The raceway shall be comprised of an aluminum base track and mating aluminum top cap. PVC side ramps which associate with the base track and extend the length of the system shall complete the raceway system. Power and communications wiring shall be installed within the mated aluminum top cap and base track. Components shall be available in 4' and 8' lengths, which shall be field-cut to the length required.

- 2.2.3 Other Components. Other connect**rac** system components shall include, but not be limited to, molded plastic end transition ramps, rubber top finish strip to be installed on the top face of the aluminum cap, plastic receptacle box cover and painted steel receptacle box(es). The metal receptacle box components shall have separate chambers to accommodate power wires and low-voltage communications. The system shall include a plastic bezel with various voice / data ports designed to accept voice / data, and other jacks manufactured and supplied by others.

PART 3 EXECUTION

3.1 Installation

- 3.1.1 The installer shall thoroughly review and comply with the detailed manufacturer's instruction sheets which accompany the system components.
- 3.1.2 Floor Surface. The floor surface on which the connect**rac** is to be installed shall be flat and true with no noticeable defects. If required, floor slab leveling shall be done prior to installation of the connect**rac** system.
- 3.1.3 Mechanical Security. The aluminum base track, PVC side ramps and molded plastic end transition ramps shall be mechanically fastened to the floor slab in accordance with the manufacturer's instructions.
- 3.1.4 Electrical Security. Metal device boxes shall be mechanically fastened to the floor slab in accordance with the manufacturer's instructions. Flexible conduit connections shall be installed with the provided conduit end fitting in accordance with the National Electric Code for proper grounding.
- 3.1.5 Completeness. All connect**rac** systems shall be installed complete, including insulating bushings and inserts where required by the manufacturer's installation instructions. Any openings in system components shall be closed. Complete installation of the connect**rac** system includes installation of floor covering over the PVC side ramp and end transition ramps along with installation of the textured rubber strip or carpet on the top surface of the aluminum raceway top cap.