WIREMOLD

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Isoduct™
Prewired Systems
Product Specifications

ISODUCT SINGLE AND MULTIPLE CHANNEL PREWIRED RACEWAY

PART 1 GENERAL

1.1 SCOPE

This specification covers a power wiring system with a factory wired multioutlet assembly used for branch circuit wiring and/or voice, data, video and other low voltage wiring. Multiple outlet raceway system shall consist of raceway, appropriate fittings, receptacle harness and receptacle identification to complete the installation as shown on the building plans.

1.2 CLASSIFICATION AND USE

The multioutlet assembly is to be utilized in dry interior locations, and UL Listed as a Multioutlet Assembly and Surface Metal Raceway as covered in Articles 386 and 380 of the National Electrical Code, as adopted by the National Fire Protection Association and as approved by the American National Standards Institute. The Isoduct Prewired Raceway Systems are listed by Underwriters Laboratories under File Nos. E68073 Guide PVGT and E77734 Guide RJBT.

1.3 SUBMITTALS

1.3.1 Shop Drawings

Submit drawings for approval, show 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 communications), locations and circuit identification.

1.3.2 Record Drawings

Three (3) copies of record drawings and two (2) copies of electrical drawings, showing each raceway section, shall be provided upon delivery of the system.

PART 2 PRODUCT

2.1 MANUFACTURER

The multioutlet assembly specified herein shall be the Isoduct Prewired Systems Series (insert Series #), as manufactured by Wiremold. Manufacturers requesting consideration as an alternative to the Isoduct Prewired Systems shall submit documentation establishing their product equality at least 10 days prior to bid date. Request shall include documentation of UL listings as both a Multioutlet Assembly and a Surface Metal Raceway and include a sample of the prewired components. A list of similar installations in service for two years or longer must be provided. 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

2.2.1 Raceway

Raceway shall have (insert # of compartments) wiring compartments with field removable cover(s). Raceway shall have a nominal wall thickness of (insert wall thickness from series specification). Multiple compartment raceway shall have (an) integral dividing barrier(s) isolating wiring compartments and provided with fittings that maintain the separation of compartments.
Raceway covers shall be 12" [304.8mm] in length to facilitate future modification or shall be provided in other specified lengths. Covers must be removable with a standard straight blade screwdriver without

marring. Raceways having two covers must allow each cover to be removed separately without allowing access into the compartment(s) enclosed by the other cover.

Raceway shall be manufactured of extruded #6063-T5 aluminum with a heavy etched Architectural Class II clear anodized finish (AA-C22A31). Dimensions of the raceway shall be (insert series dimension H&W) and each length of raceway shall be cut to specified job requirements. Field cutting of raceway will not be permitted.

2.2.2 Wiring Devices

Wiring devices and other connectors shall be factory installed, electrically wired, and covers labeled with (insert labeling choice) as identified in the building plans. Each receptacle shall be identified noting the panel number and circuit number from which it is fed. Receptacles rated higher than a NEMA 5-20R configuration shall also be provided with voltage, phase and amperage identified in the same manner. Raceway sections shall be provided with 12" [304.8mm] pigtails at feed locations for ease of installation. Grounding shall be maintained by means of factory installed NEC sized grounding conductor(s) and utilize insulation displacement connectors as required.

2.2.3 Communication Outlets

Raceway covers shall have either holecut provision for communications outlets, if Wiremold Interlink Cabling System data connectors are used, or the voice and data/LAN outlets shall be factory mounted to the cover plates. The raceway must be capable of containing, but not limited to, snap-in modular jacks (3-pair, 4-pair, 4-pair keyed and MMJ), coaxial and F-connectors and communication grommets. Wiring connections of these devices shall be completed at the jobsite by the appointed contractor.

2.2.4 Fittings

The multioutlet assembly is to consist of factory assembled product with a full complement of fittings including, but not limited to, elbows (90º, internal and external), slide couplings for joining raceway sections, blank end caps for closing open ends of the raceway, and flat tees.

2.2.5 Communication Devices and Accessories

The raceway manufacturer will provide a complete line of connectivity outlets and modular inserts for UTP (including Category 5), STP (150 ohm) Fiber Optic, Coaxial and other cabling types with face plates and bezels to facilitate mounting. A complete line of preprinted station and port identification labels, snap-in icon buttons as well as write-on station identification labels shall be available.

PART 3 EXECUTION

3.1 INSTALLATION

3.1.1 Completeness

Raceway shall be installed with all appropriate fittings in accordance with the manufacturer's installation instructions and in compliance with all appropriate codes. Raceway is to be plumb, square, level and in alignment with casework or furniture as required.

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