

Section 27 11 00

COMMUNICATION EQUIPMENT ROOM FITTINGS

Section 27 11 16

Communications Cabinets, Racks, Frames and Enclosures

PART 1 – GENERAL

1.1 WORK INCLUDED

- A. Provide all labor, materials, and equipment for the complete installation of work called for in the Contract Documents.

1.2 SCOPE OF WORK

- A. This section includes the minimum requirements for wall-mounted racks for use in communications equipment rooms.
- B. Included in this section are the minimum composition requirements and installation methods for the following:
 - 1. Racks, wall-mounted.

1.3 QUALITY ASSURANCE

- A. All cable and equipment shall be installed in a neat and workmanlike manner. All methods of construction that are not specifically described or indicated in the contract documents shall be subject to the control and approval of the Owner or Owner Representative. Equipment and materials shall be of the quality and manufacture indicated. The equipment specified is based upon the acceptable manufacturers listed. Where “approved equal” is stated, equipment shall be equivalent in every way to that of the equipment specified and subject to approval.
- B. Strictly adhere to all Building Industry Consulting Service International (BICSI), Electronic Industries Alliance (EIA) and Telecommunications Industry Association (TIA) recommended installation practices when installing communications/data cabling.
- C. Material and work specified herein shall comply with the applicable requirements of:
 - 1. ANSI/TIA/EIA – 568-B *Commercial Building Telecommunications Cabling Standard*, 2000-2004
 - 2. TIA – 569-B *Commercial Building Standard for Telecommunications Pathways and Spaces*, 2004
 - 3. ANSI/TIA/EIA – 606-A *Administration Standard for the Telecommunications Infrastructure of Commercial Buildings*, 2002
 - 4. ANSI-J-STD – 607-A *Joint Standard for Commercial Building Grounding (Earthing) and Bonding Requirements for Telecommunications*, 2002

5. NFPA 70 – *National Electric Code*, 2005
6. BICSI – *Telecommunications Distribution Methods Manual*, 10th Edition, 2003

1.4 SUBMITTALS

- A. Provide product data for the following:
 1. Manufacturers data sheets/cut sheets, specifications and installation instructions for all products (submit with bid).

PART 2 – PRODUCTS

1.0 Racks, Wall-Mounted

A. Wall-Mounted Swing Gate Equipment Rack (Universal Swing Gate Rack)

1. Wall-mounted racks shall be manufactured from sheet aluminum and aluminum extrusion.
2. The rack will consist of a wall-mount frame and a swing gate. The swing gate will support 19" EIA or 23" wide equipment, as specified below, and will pivot open to provide easy access to the back of equipment.
3. The swing gate will be connected to the wall-mount frame on one side at the top and the bottom of the swing gate with pivot bolts. The swing gate will swing open to 180°.
4. The swing gate will be secured in the closed position with a strap at the top and at the bottom of the swing gate. To open the swing gate, both the top and bottom straps must be loosed.
5. The rack will be EIA-310-D compliant. Rack-mount spaces/units (RMU) will be 1-3/4" high. The swing gate will have a single pair of C-shaped equipment mounting rails. The front and back of the mounting rails will be punched with the Universal hole pattern. Mounting holes will be spaced vertically on alternating 5/8"-5/8"-1/2" centers and will be roll-formed with #12-24 threads. Mounting rails will provide 20 rack-mount spaces (RMU) for equipment.
6. The rack will be 12" or 18" deep as specified below.
7. The rack will be rated to support 150 pounds of equipment. Load rating will be stated in the manufacturer's product literature.
8. Finish shall be clear (brushed/grained aluminum) or epoxy-polyester hybrid powder coat (paint) in the color(s) specified below.
9. Each rack will include 50 each #12-24 equipment mounting screws and installation hardware (1/4" x 2" hex lag screws for wood stud walls).

05/25/05

Chatsworth Products Inc.

10. Design Make:
Chatsworth Products, Inc. (CPI),
Universal Swing Gate Rack

Part Number **11347-119**, Universal Swing Gate Rack, 19" EIA x 35"
High x 12" Deep, 20 RMU, Gray.

Part Number **11347-219**, Universal Swing Gate Rack, 19" EIA x 35"
High x 12" Deep, 20 RMU, Computer White.

Part Number **11347-519**, Universal Swing Gate Rack, 19" EIA x 35"
High x 12" Deep, 20 RMU, Clear (Brushed Aluminum).

Part Number **11347-719**, Universal Swing Gate Rack, 19" EIA x 35"
High x 12" Deep, 20 RMU, Black.

Part Number **11348-119**, Universal Swing Gate Rack, 19" EIA x 35"
High x 18" Deep, 20 RMU, Gray.

Part Number **11348-219**, Universal Swing Gate Rack, 19" EIA x 35"
High x 18" Deep, 20 RMU, Computer White.

Part Number **11348-519**, Universal Swing Gate Rack, 19" EIA x 35"
High x 18" Deep, 20 RMU, Clear (Brushed Aluminum).

Part Number **11348-719**, Universal Swing Gate Rack, 19" EIA x 35"
High x 18" Deep, 20 RMU, Black.

Part Number **11347-123**, Universal Swing Gate Rack, 23" Wide x 35"
High x 12" Deep, 20 RMU, Gray.

Part Number **11347-223**, Universal Swing Gate Rack, 23" Wide x 35"
High x 12" Deep, 20 RMU, Computer White.

Part Number **11347-523**, Universal Swing Gate Rack, 23" Wide x 35"
High x 12" Deep, 20 RMU, Clear (Brushed Aluminum).

Part Number **11347-723**, Universal Swing Gate Rack, 23" Wide x 35"
High x 12" Deep, 20 RMU, Black.

Part Number **11348-123**, Universal Swing Gate Rack, 23" Wide x 35"
High x 18" Deep Exterior, 20 RMU, Gray.

Part Number **11348-223**, Universal Swing Gate Rack, 23" Wide x 35"
High x 18" Deep, 20 RMU, Computer White.

Part Number **11348-523**, Universal Swing Gate Rack, 23" Wide x 35"
High x 18" Deep, 20 RMU, Clear (Brushed Aluminum).

Part Number **11348-723**, Universal Swing Gate Rack, 23" Wide x 35"
High x 18" Deep, 20 RMU, Black.

B. Equipment-Mounting Hardware for Universal Swing Gate Rack:

1. Provide additional equipment-mounting hardware if required to attach equipment to the rack.
2. Equipment mounting hardware will be combination pan head, pilot point mounting screws, threaded #12-24 and 5/8" long.
3. Design Make:
Chatsworth Products, Inc. (CPI),
Equipment Mounting Hardware

Part Number **40605-001**, Hardware Kit For Threaded Mounting Rails,
12-24 Screws, Package Of 50, Zinc.

Part Number **40605-005**, Hardware Kit For Threaded Mounting Rails,
12-24 Screws, Package Of 50, Black.

PART 3 – EXECUTION

3.1 INSTALLATION

A. Wall-Mounted Swing Gate Equipment Rack (Universal Swing Gate Rack)

1. Attach the rack to the wall so that the swing gate can be opened fully without obstruction by other building, storage or architectural components. Follow the manufacturer's assembly and installation instructions when securing the rack to the wall. The rack should be installed on a plywood backboard or attached to a masonry wall. The rack should not be attached to sheet rock (gypsum wall board).