

SECTION 27 05 28

CONDUITS AND BACK BOXES FOR COMMUNICATIONS SYSTEMS

PART 1 - GENERAL

1.01 RELATED CONDITIONS

- A. Provisions established within the General Conditions and Supplementary General Conditions of the Contract, Division 1 - General Requirements, and the Drawings are collectively applicable to this Section.

1.02 SECTION INCLUDES

- A. Raceway system for telephone and data systems including:
 - 1. Metallic conduit and fittings, outlet boxes as specified in Section 26 05 33.
 - 2. Backboard and cabinets as specified in Section 26 24 16.

1.03 QUALITY ASSURANCE

- A. Comply with governing codes and regulations. Provide products of acceptable manufacturers, which have been in satisfactory use in similar service.
- B. Comply with the following applicable standards and codes: UL, ANSI, NEMA and National Electrical Code.
- C. Conduit system shall be UL approved for the application.

1.04 SUBMITTALS

- A. General: Submit in accordance with Division 1.
- B. Product Data: Submit manufacturer's catalog cut sheets, data sheets and installation instructions.

PART 2 - PRODUCTS

1.01 BASIC MATERIALS

- A. Conduits, boxes, fittings, hangers and supports, and similar materials shall be as specified under other appropriate sections of the specifications.

1.02 BACKBOARD AND CABINETS

- A. Backboards shall be 3/4-inch thick, fire rated, Grade A-C plywood of the sizes indicated or required. Sand, fill and paint to match adjoining wall.
- B. Cabinets shall be flush or surface mounted as shown; construction as required in Panelboard Cabinets.

PART 3 - EXECUTION

1.01 INSTALLATION SCHEDULE

- A. For each telephone, data or combination telephone/data outlet shown on the drawings in a ventilated or heated only space or where the outlet is surface mounted, install a ¾" empty conduit with pull string from a single-gang back box to a location above an accessible ceiling plenum
- B. For each telephone, data or combination telephone/data outlet shown on the drawings in gypboard wall construction in a conditioned space, provide a single gang ring in the gypboard with a string through the wall to the accessible ceiling space. Provide a bushing in the top track to protect future wiring. Route string vertically through wall in same stud cavity as outlet.

1.02 DISTRIBUTION

- A. Where conduit systems are installed, provide pullboxes in the conduit run spaced not greater than 100 feet apart, and on the backboard side of runs with the equivalent of more than two 90 degree bends.
- B. Install a pull line in each empty conduit.
- C. Place "Telephone" label of pull and junction boxes.

END OF SECTION