

SECTION 27 15 43
COMMUNICATIONS FACEPLATES AND CONNECTORS

PART 1 - GENERAL

1.1 STIPULATIONS

- A. The specifications sections "General Conditions to the Construction Contract", "Special Conditions" and "Division 01 – General Requirements" form a part of the Section by this reference thereto, and shall have the same force and effect as if printed herewith in full.

1.2 SUMMARY

- A. This section provides the minimal requirements for the installation of communications faceplates and information outlets/jack modules.
- B. Provide labor, materials, and equipment necessary to complete the work of this Section, including but not limited to the following:
1. 4-pair Unshielded Twisted Pair (UTP) Cable Connectors
 2. Outlet Housing Components

1.3 REFERENCES

- A. Drawings and general provisions of the Contract, including General and Supplementary Conditions apply to this Section.
1. Related Documents and Sections:
 2. Division 01 – General Requirements
 3. Section 27 00 00 – Communications General
 4. Section 27 15 13 – Communications Horizontal Cabling
- B. The following codes, associations, acts and agencies, as required by law.
1. NFPA-70, 2011 (National Electric Code)
 2. National Electrical Safety Code (NESC)
 3. Occupational Safety and Health Administration (OSHA)
- C. The current edition of the following standards:
1. Refer to Section 27 00 00 – Communications General
- D. The current edition of the following guidelines:
1. Refer to Section 27 00 00 – Communications General
- E. When a discrepancy arises between the above-mentioned codes, standards or guidelines and the standards contained in this document, it shall be brought to the attention of the Owner immediately for resolution. The more stringent of the two guidelines shall be implemented.

1.4 SYSTEM DESCRIPTION

- A. Horizontal cabling termination components and outlet housing components shall include wall-mount, floor-mount, furniture mount, and ceiling-mount components to support the various workstation outlets throughout the cabling plant.
- B. Contractor shall furnish, install, test and place into satisfactory and successful operation all equipment, materials, devices, and necessary appurtenances to provide a complete ANSI/TIA compliant communications horizontal cabling system.

1.5 SUBMITTALS

- A. Refer to Section 27 00 00 – Communications General
- B. Provide table of contents with all product names, manufacturer, and specific product number identified to accompany manufacturer's product information cut sheets or specifications sheet.

1.6 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.
- 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 data cabling.
- C. Cabling Installer must have personnel certified by BICSI on staff.
 - 1. Preparation of Shop Drawings and Cabling Administration Drawings by an RCDD.
 - 2. Installation shall be under the direct supervision of Registered Technician, who shall always be present when Work of this Section is performed at Project site.
 - 3. Currently certified by BICSI as an RCDD to supervise on-site testing.

PART 2 - PRODUCTS

2.1 MATERIALS

- A. Approved Manufacturers
 - 1. CommScope
 - 2. Hubbell
 - 3. Legrand
 - 4. Panduit
 - 5. Approved Equal

2.2 UTP JACK MODULAR CONNECTORS

A. General

1. ANSI/TIA-T568B wiring scheme.
2. RJ45 8-position modular jacks.
3. Furnish and install keystone style jacks as may be required to be compatible with special assemblies such as poke-thru assemblies provided by Division 26

B. Category 6

1. Performance shall meet that of Category 6.
2. Modular network jack color shall be:
 - a. Primary/First data cable: Blue

2.3 OUTLET HOUSING COMPONENTS

A. Faceplates

1. Furnish and install electrical 106-style faceplate where required to adapt to surface raceway as may be provided by Division 26.
2. Furnish and install single gang modular cover plates" as indicated on drawings.
3. Furnish and install single or double gang modular cover plates with two (2), three (3), four (4) and six (6) modular outlet openings for "Voice" and "Data" as indicated on drawings.
4. Faceplates shall be plastic or stainless steel as required to match electrical plates supplied by Division 26 unless otherwise directed by owner.
5. Furniture faceplates shall match the furniture's kick plate color when possible.
6. Confirm all colors with owner prior to ordering materials.

B. Yoke

1. 106-style frame
2. Yoke frame shall be plastic or stainless steel as required to match electrical plates supplied by Division 26 unless otherwise directed by owner.
3. Furniture yoke frame shall match the furniture's kick plate color when possible.
4. Confirm all colors with owner prior to ordering materials.

C. Blank Inserts

1. Furnish and install blank inserts for all un-used openings.
2. Blank inserts shall match color of faceplate, unless otherwise directed by owner.

2.4 MODULAR JACK/OUTLET PLATE FOR WALL TELEPHONES

A. Flush mounted modular RJ45 jack/plate to fit into a single gang 3-1/2-inch-deep box.

B. RJ45 8-position modular jacks.

C. The RJ45 jack shall be mounted in stainless steel faceplate designed for modular mounting for wall telephones.

PART 3 - EXECUTION

3.1 GENERAL

- A. Follow all manufacturers' instructions.
- B. Install all connectors under the guidelines of the manufacturers recommended instructions and per all ANSI/TIA-568 standards, BICSI guidelines, and manufacturer approved industry practices.
- C. The installation and performance parameters of all installed couplers and connectors shall be verified by the trade contractor through ANSI/TIA-568 testing procedures.
- D. Coordinate with all other trades prior to pre-construction submittals and installation.
- E. All field terminations shall be made using modular network outlets with a patch cord connecting the edge device. Under no circumstance shall a cable be directly terminated to an edge device.

3.2 INSTALLATION

- A. Faceplates shall be installed straight and plumb in all directions.
- B. All technology outlets shall be mounted at right angles and parallel to the floor unless installation requirements or design dictate otherwise.
- C. Should the faceplate not cover the entirety of the outlet box hole in the wall due to overcutting or rough workmanship, the wall shall be appropriately patched and painted for a neat and clean finished appearance.
- D. All outlets located in systems furniture may be served from a wall adjacent to the furniture cluster or a floor box. If the cable is exposed prior to entering furniture raceway, install spiral wrap tubing to protect the cable per the manufacturer's recommendations.
- E. All outlet housings as well as each individual utilized port must be labeled in accordance with the Owner-approved labeling scheme.

END OF SECTION