

SECTION 27 15 43**COMMUNICATIONS FACEPLATES AND MODULAR JACKS****PART 1 - GENERAL****1.1 SUMMARY**

- A. This section shall govern the products and installation of communications faceplates and modular jacks.
- B. The product performance (e.g., category 5e, category 6A) shall be as specified on drawings.

1.2 RELATED DOCUMENTS

- A. The latest editions of the following codes, standards, and guidelines shall be followed. Bring to ITS' immediate attention where construction documents or conditions differ from the requirements in codes, standards, guidelines or specifications.
- B. The following codes, as required by law:
 - 1. National Electrical Code® (NEC®)
- C. The following standards:
 - 1. ANSI/TIA-568-C.0, Generic Telecommunications Cabling for Customer Premises
 - 2. ANSI/TIA-568-C.2, Balanced Twisted-Pair Telecommunications Cabling and Components Standards
 - 3. ANSI/TIA-570-C, Residential Telecommunications Infrastructure Standard
 - 4. ANSI/TIA-569-C, Telecommunications Pathways and Spaces
- D. The following guidelines:
 - 1. BICSI, Telecommunications Distribution Methods Manual (TDMM)
 - 2. BICSI, Information Transport Systems Installation Methods Manual (ITSIMM)
- E. The following project specifications:
 - 1. 27 05 33, Conduits and Backboxes for Communications Systems
 - 2. 27 05 39, Surface Raceways for Communications Systems
 - 3. 27 05 53, Identification for Communications Systems

1.3 SUBMITTALS

- A. The following submittals shall be provided at the Pre-Construction Phase, in accordance with submittal requirements in Section 27 00 00, Communications. UT ITS shall have final approval of products for the installation.
 - 1. Product Information
 - a) Provide manufacturer's product information cutsheet or specifications sheet with the specific product number identified or filled out.
 - b) Provide manufacturer's product information showing system performance is maintained when using a variety of modular jacks (e.g., wall, patch panel), cable and patch cords (be manufacturer and product specific).

2. Shop Drawings
 - a) Provide scaled drawings (not less than 1/8" = 1'-0") indicating location and type/part number of faceplate and modular jack to be used. This information may be included on shop drawing for 27 05 53, Identification of Communications Systems.
- B. The following submittals shall be provided three (3) weeks prior to Substantial Completion, in accordance with the submittal requirements in Section 27 00 00 Communications:
 1. Record Drawings
 - a) Provide scaled drawings (not less than 1/8" = 1'-0") indicating location and type/part number of faceplate and modular jack installed. Design or shop drawings modified in the field shall not be accepted. This information may be included on record drawing for 27 05 53 Identification of Communications Systems.
 - b) Manufacturer and Maintenance Manuals for installed equipment.
 - c) All submittals that are incomplete shall be returned without review.

PART 2 – PRODUCTS

2.1 GENERAL

- A. Faceplates and modular jacks shall be by the same manufacturer except as noted on drawings and this specification. This manufacturer shall be the same manufacturer that supplies the manufacturer advanced system warranty as required by Section 27 00 00.

2.2 FACEPLATE

- A. Wall-phone outlet
 1. Shall be single-gang.
 2. Shall be stainless steel.
 3. Shall meet the dimensional requirements for faceplate and modular jack as specified in ANSI/TIA-570-C.
 4. Shall interface by means of a T568B modular jack.
 5. Shall meet minimum performance of category 3 per ANSI/TIA-568-C.2.
 6. Coordinate with owner prior to purchase.
 7. Manufacturer shall be:
 - a) Allen-Tel AT630B-8
 - b) or equivalent
- B. Typical work-area outlets:
 1. Single-Gang Faceplate
 - a) Color and material shall meet requirements for environment and match electrical faceplates.
 - b) Shall have a recessed label field with high impact thermo-plastic cover.
 - c) Manufacturer shall be:

- 1) Panduit – Mini-Com opening(s)
 - 2) Ortronics – TracJack opening(s)
 - 3) or equivalent
2. Double-Gang Faceplate
- a) Color and material shall meet requirements for environment and match electrical faceplates.
 - b) Shall have a recessed label field with high impact thermo-plastic cover.
 - c) Manufacturer shall be:
 - 1) Panduit – Mini-Com opening(s)
 - 2) Ortronics – TracJack opening(s)
 - 3) or equivalent

C. Above-ceiling outlets for wireless access points:

1. Single-Gang Faceplate
 - a) Shall be stainless steel in construction.
 - b) Manufacturer shall be:
 - 1) Panduit – Mini-Com opening(s)
 - 2) Ortronics – TracJack opening(s)
 - 3) or equivalent

2.3 MODULAR JACK (INCLUDING SURFACE-MOUNT)

A. Category modular jacks

1. Performance shall meet that of ANSI/TIA-568-C.2.
2. Color and material shall meet requirements for environment and match electrical faceplates.
3. Manufacturer shall be:
 - a) Panduit – Mini-Com
 - b) Ortronics –TracJack
 - c) or equivalent

PART 3 - EXECUTION

3.1 GENERAL

- A. Follow all manufacturers' instructions.
- B. Faceplates and modular jack installation shall be in conformance to ANSI/TIA-568 standards, BICSI methods, industry standards and manufacturer's guidelines.
- C. Coordinate with all other trades prior to pre-construction submittals and installation.

3.2 FACEPLATE

- A. Faceplates shall be installed straight and plumb in all directions.
- B. Faceplates shall be installed with screws.

- 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. Fill all module openings with blank modules.

3.3 MODULAR JACK (INCLUDING SURFACE-MOUNT)

- A. All category modular jacks shall be terminated using the T568B termination scheme specified in ANSI/TIA-568-C.0.
- B. Modular jacks terminated in areas prior to final cleaning (e.g., painting, carpet installation, dusty areas) shall be placed in a protective envelope to ensure dust, debris, moisture and other foreign materials do not settle onto modular jack contacts. Once final cleaning is complete, modular jacks shall be inserted into faceplates and screwed into place.
- C. Pair-twist shall be maintained up to the point of termination.
- D. Cable sheath shall be maintained up to within 0.5 inches of the modular jack termination.

3.4 ELEVATOR PHONE AND DATA CONNECTIONS

- A. Inside Phone/Data Enclosure in the Elevator Equipment Room, typically identified as CCTV enclosure, install (1) double-gang faceplate onto surface-mounted box (refer to section 27 05 39). Populate faceplate with two modular jacks for every elevator car needing service.

END OF SECTION