

SECTION 27-15-43 COMMUNICATIONS FACEPLATES AND MODULAR JACKS

PART 1 – GENERAL

1.01 DESCRIPTION

- A. The work covered by this section of the Specifications shall include all labor necessary to perform and complete such construction, all materials and equipment incorporated or to be incorporated in such construction and all services, facilities, tools and equipment necessary or used to perform and complete such construction. The work of this section shall include, but is not limited to, the following:
 - 1. Telecommunications faceplates and modular jacks.

1.02 QUALITY ASSURANCE

- A. Refer to Section 27-00-00 for general details.
- B. As noted in Section 27-00-00, all contractors and installers working on structured cabling system elements shall hold a current manufacturer's certification for each individual component they install.

1.03 CODES, STANDARDS, AND GUIDELINES

- A. Except as modified by governing codes and by the Contract Documents, comply with the applicable provisions and recommendations in Section 27-00-00.
- B. The Cal Poly ITS Telecomm group, Telecommunications Standards Document and the Labeling, Design and Syntax Standard in Appendix B.

1.04 SUBMITTALS

- A. Refer to Section 27-00-00 for general details.
- B. Shop Drawings:
 - 1. None Required
- C. Submit Manufacturer's Cut Sheets for the following:
 - 1. Any products not specifically listed in the PRODUCTS section shall require a submittal of the manufacturer's cut sheets and approval by the Cal Poly ITS Telecomm group.

1.05 IDENTIFICATION

- A. All faceplates, outlets, and modular jacks shall be labeled per the Cal Poly I.T.S. Telecomm Labeling, Design & Syntax Standards in Appendix B. **(See Fig. #108 in Appendix B)**
- B. All faceplates that utilize windowed labeling inserts are to be machine generated on paper, and inserted behind the windows. See the Cal Poly I.T.S. Telecomm Labeling and Syntax Standards in Appendix B.
- C. Wall phone faceplates must be labeled. Use of preprinted self-adhesive labels is acceptable.
- D. Refer to Section 27-05-53 for general details.

1.06 DEFINITIONS

- A. Jack (Modular) – Termination point for telecommunications cabling that transitions from permanently installed station cable to a user end station wire (drop cable).

1.07 WARRANTY

- A. Refer to Section 27-00-00 for general details.

PART 2 – PRODUCTS

2.01 PRODUCT CONSISTENCY

- A. Product Consistency: Any given item of equipment or material shall be the product of one manufacturer throughout the facility. Multiple manufacturers of any one item will not be permitted, unless specifically noted otherwise.

2.02 STANDARD WALL FACEPLATE

- A. Faceplates for single gang outlets shall have 4 (staggered) ports.
- B. All parts are to be white in color unless otherwise required to match electrical.
- C. Approved Manufacturer: AMP, Inc. or Cal Poly ITS Telecomm group approved equal

2.03 BLANK INSERTS

- A. Approved Manufacturer: AMP, Inc. or Cal Poly ITS Telecomm group approved equal

2.04 CAT 6 JACK

- A. Outlets must meet requirements for Category 6 of ANSI/TIA/EIA-568.
- B. Approved Manufacturer: AMP, Inc. or Cal Poly ITS Telecomm group approved equal

2.05 WALL PHONE FACEPLATE W/ JACK

- A. Faceplates shall have a single 6P4C jack wired according to the TIA/EIA Standards.
- B. Attachment of conductors shall be via screw terminals.
- C. Faceplates shall be stainless steel with two studs for hanging a wall phone.
- D. Approved Manufacturer: Suttle or Cal Poly ITS Telecomm group approved equal

2.06 FLOOR OUTLET BOX

- A. Floor boxes shall accommodate power and electrical with dedicated spaces and conduit entries.
- B. Cover shall be hinged, and have cable egress doors, and be able to fully close with all cable outlets in use.
- C. Approved Manufacturer: Legrand/Wiremold Evolution Series Floor Box (EFB) or Cal Poly ITS Telecomm group approved equal

PART 3 – EXECUTION

3.01 GENERAL

- A. Follow all manufacturers' written instructions.
- B. **All category modular jacks shall be terminated using the T568A termination scheme specified in ANSI/TIS-568-C.0. (See Fig. #168 in Appendix B)**
- C. All faceplates, information outlets, jacks, etc. shall be installed in the correct orientation per Manufacturer's Instructions.

3.02 QUANTITIES

- A. Quantities of system elements shown on the Drawings shall be illustrative only and are meant to indicate the general configuration of the work. The Contractor shall be responsible for providing the correct quantities of materials to construct a system that meets the intent of these Specifications and the relevant codes.

3.03 INSTALLATION

- A. Faceplates shall be installed straight and plumb in all directions.
- B. Faceplates shall cover the entirety of the outlet box hole in the wall. If, due to overcutting or rough workmanship, the faceplate does not cover the entire hole, the wall shall be appropriately patched and painted for a neat and clean finished appearance.
- C. **All unused positions in faceplates shall be filled with blanks.**
- D. All telecommunications outlets/faceplates, with the exception of surface mount boxes, shall be installed over enclosed back boxes.
- E. All faceplates shall be fastened to back box with threaded machine screws of appropriate length.
- F. Faceplates shall be installed at appropriate ADA height.
- G. Faceplates shall match the trim color of accompanying electrical outlets
- H. Wall faceplates shall be installed at the same height as accompanying electrical outlets, unless specific heights are noted on the Drawings or it is so stated in the Specifications.
- I. Wall Phone Faceplate
 - 1. Refer to the ADA for requirements concerning wall mount telecommunications devices.
- J. Surface Mount Boxes
 - 1. Surface mount boxes shall only to be used in new construction for outlets above the ceiling or in mechanical/electrical spaces.
 - 2. Surface mount boxes shall not to be used in user spaces.
 - 3. Surface mount boxes shall be permanently attached to the building's structure with screws.
 - 4. 4urface mount boxes shall not be installed inside panels used for other services unless those panels are accessible by Cal Poly ITS Telecomm group personnel.
- K. Floor Boxes
 - 1. Floor boxes shall utilize specified hardware and not require use of any proprietary adapters.

3.04 GROUNDING & BONDING

- A. None Required

3.05 TESTING

- A. Modular Jacks shall be tested as an element of the Structured Cabling System.

3.06 ACCEPTANCE

- A. Once the installation and testing has been completed and the Cal Poly ITS Telecomm group representative is satisfied that all work is in accordance with the Contract Documents, the Cal Poly ITS Telecomm group representative will notify the Contractor and/or Cal Poly Project Manager in writing or via email.

3.07 RECORD (AS-BUILT) DRAWINGS

- A. None Required

END OF SECTION

DOCUMENT VERSION CONTROL

REVISION	DATE	AUTHOR	REASON
1	02/20/2014	R. VOLK	INITIAL DOCUMENT DEVELOPMENT
	02/20/2014	DW & MH	PRIMARY REVIEW COMPLETE