SECTION 27 15 43
COMMUNICATIONS FACEPLATES AND MODULES

PART 1 – GENERAL

1.01 DESCRIPTION
A. The work covered by this section of the Specifications includes 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 scope of this section shall include, but is not limited to, the following:
   1. Telecommunications faceplates, jacks and outlet modules.

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 must 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.

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.

1.05 IDENTIFICATION
A. All faceplates, outlets, and jacks are to be labeled.
B. All faceplates shall utilize windowed labeling inserts are to be typewritten on paper, and inserted behind the windows. Campus telecommunications representative will provide an appropriate labeling template.
C. Wall phone faceplates and surface mounted jacks that do not utilize windows labeling inserts 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 – Termination point for telecommunications cabling that transitions from permanently installed horizontal cabling to a user end station cord. Also referred to as an “Information Outlet”

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 (SINGLE GANG)
   A. Faceplates for single gang outlets shall have 6 ports.
   B. Uses Commscope M-Series modular information outlets.
   C. All parts are to be white in color unless otherwise required to match electrical.
   D. Manufacturer/Product: Commscope Part# M16L-262

2.03 STANDARD WALL FACEPLATE (DOUBLE GANG)
   A. Faceplates for double gang outlets shall have 8 ports.
   B. Uses Commscope M-Series modular information outlets.
   C. All parts are to be white in color unless otherwise required to match electrical.
   D. Manufacturer/Product: Commscope Part# M28L-262

2.04 BLANK INSERTS
   A. Manufacturer/Product: Commscope Part# M81-262 BLANK.

2.05 CATEGORY 6A JACK (TYPICAL LOCATIONS)
   A. Outlets must meet requirements for Category 6A of ANSI/TIA/EIA-568-C.2.
   B. Meets specifications of Systimax GigaSPEED X10D structured cable system.
   C. Wired T568B configuration.
   D. Manufacturer/Product: Commscope Part# MGS600-262 (White).

2.06 CATEGORY 6A JACK (A/V LOCATIONS)
   A. Outlets must meet requirements for Category 6A of ANSI/TIA/EIA-568-C.2.
   B. Meets specifications of Systimax GigaSPEED X10D structured cable system.
   C. Wired T568B configuration.
   D. Manufacturer/Product: Commscope Part# MGS600-112 (Orange).
2.07 WALL PHONE FACEPLATE W/ JACK
A. Shall be a flush mount metal faceplate.
B. Shall accept 1 Category 6A jack.
C. Shall be stainless steel with 2 studs for hanging a wall phone.
D. Manufacturer/Product: Commscope Part# M10LW4SP.

2.08 FIBER OPTIC FACEPLATE
A. Shall allow for a standard wall faceplate to be deployed in the same box.
B. Shall mount on a standard wall opening.
C. Shall allow for a fiber spool and adapter for up to six duplex LC connectors.
D. Manufacturer/Product: Commscope Part# M10MMFP-262.

2.09 SURFACE MOUNT BOXES
A. Uses Commscope M-Series modular information outlets.
B. Must have an option for attachment with screws.
C. Must be UL Rated.
D. All parts are to be white in color unless otherwise required to match electrical.
E. Manufacturer/Product: Commscope Part# M101SMB-B-262 (1 Outlet)
F. Manufacturer/Product: Commscope Part# M102SMB-B-262 (2 Outlet)
G. Manufacturer/Product: Commscope Part# M104SMB-A-262 (4 Outlet)
H. Manufacturer/Product: Commscope Part# M106SMB-262 (6 Outlet)
I. Manufacturer/Product: Commscope Part# M112SMB-262 (12 Outlet)

2.10 FLOOR OUTLET BOX
A. Floor boxes should accommodate power and electrical with dedicated spaces and separate conduit entries.
B. Floor box shall utilize standard single gang telecommunications faceplates as specified in above sections.
C. Shall be equipped with device mounting plate 8ACT6A for telecommunications.
D. Cover shall be hinged, and have cable egress doors, and be able to fully close with all cable outlets in use.
E. Manufacturer/Product: Legrand/Wiremold Evolution Series Floor Box.
PART 3 – EXECUTION

3.01 GENERAL

A. Follow all manufacturers’ written instructions.

B. All category modular jacks shall be terminated using the T568B termination scheme specified in ANSI/TIA/EIA-568-C.2.

C. All faceplates, information outlets, jacks, etc. shall be installed in the correct orientation per manufacturer’s written instructions. All RJ series jacks are to be mounted tab down.

3.02 QUANTITIES

A. Quantities of system elements shown on the drawings are illustrative only and are meant to indicate the general configuration of the work. The Contractor is 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 level and plumb.

B. 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.

C. All unused positions in faceplates must be provided with blanks.

D. All telecommunications outlets, with the exception of surface mount boxes, are only to be installed over enclosed back boxes.

E. All faceplates shall be fastened to back box with threaded machine screws of appropriate length.

F. Shall be installed at appropriate ADA height.

G. 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.

I. Wall Phone Faceplate

1. Refer to the ADA for requirements concerning wall mount telecommunications devices.

J. Fiber Optic Faceplate

1. Fiber optic bulkheads shall be installed in the rear position.

2. All fiber optic connectors shall be equipped with a dust cover.
K. Surface Mount Boxes
   1. Surface mount boxes are only to be used in new construction for outlets above the ceiling or in mechanical/electrical spaces.
   2. Surface mount boxes are not to be used in user spaces.
   3. Surface mount boxes must be permanently attached to the building’s structure with screws.
   4. Surface mount boxes must not be installed inside panels used for other services unless those panels are accessible by campus telecommunications personnel.

L. Floor Boxes
   1. Floor boxes installation generally fall under electrical division.
   2. Telecommunication floor boxes must be serviced by the telecommunications room that services all other outlets in that area.

3.04 GROUNDING & BONDING
   A. None Required.

3.05 TESTING
   A. Jacks are to be tested as an element of the structured cabling system.

3.06 ACCEPTANCE
   A. Once the installation and testing has been completed and the campus telecommunications representative is satisfied that all work is in accordance with the Contract Documents, the representative will notify the Contractor and/or campus project manager in writing or via email.

3.07 RECORD (ASBUILT) DRAWINGS
   A. None Required.

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