

SECTION 271543 - COMMUNICATIONS FACEPLATES & CONNECTORS

PART 1 - GENERAL

1.1 GENERAL REQUIREMENTS

- A. Applicable requirements of Division 27 - Communications shall be considered a part of this section and shall have the same force as if printed here in full.
- B. This document describes the products and execution requirements for Communications Faceplates and Connectors.
- C. Product specifications, general design considerations, and installation guidelines are provided in this document. The successful vendor shall meet or exceed all requirements described in this document and on the drawings.

1.2 SUBMITTALS

- A. Provide product data from the manufacturer's specifications.

1.3 WORK INCLUDED

- A. The work included under this Specification consists of furnishing all labor, equipment, materials, and supplies and performing all operations necessary to complete the installation. The Contractor will provide and install all the required material whether specifically addressed in the Specification or not.

PART 2 - PRODUCTS

2.1 APPROVED PRODUCTS

- A. Approved Category 6/6A Copper Connectivity Manufacturer(s)
 - 1. CommScope / Uniprise
- B. Approved Faceplate Manufacturer(s)
 - 1. CommScope
- C. Approved Surface Mount Box manufacturer(s)
 - 1. CommScope
- D. Approved Coax Manufacturer

2.2 CATEGORY 6 COPPER CONNECTIVITY

- A. Category 6, 8-Position, 8-Contact (8P8C) Modular Jack
 - 1. The connector module shall exceed the Category 6 performance criteria per ANSI/TIA-568-C.2.
 - 2. The eight-position connector module shall accommodate six-position modular plug cords without damage to either the cord or the module.

3. The connector module shall be designed for use in the work area (WA), communications room (TR) and/or equipment room (ER) without modification.
4. The connector module shall be available in the T568A and T568B wiring configurations within the same module.
5. The connector module shall have an insulation displacement connection featuring insulation slicing of 22 to 24 AWG plastic-insulated solid copper conductors forming a gas-tight connection.
6. Icons shall be used if offered from the manufacturer.
7. All Jacks shall be component-rated.
8. Jack/Icon colors shall be blue.
9. All category 6 data communications cables will be terminated T568B according to TIA/EIA-568-B.2-1 performance specifications for Cat6 horizontal cabling requirements. It shall be terminated on an eight-conductor RJ45 data jack – CommScope Uniprise part number: UNJ600-BL.
 - a. ANALOG VOICE = WHITE – COMMSCOPE UNJ600-262
 - b. DATA = BLUE - COMMSCOPE UNJ600-BL
 - c. WAPS = GREEN CAT-6A - COMMSCOPE USL10G-GRN
 - d. CAMERAS = RED – COMMSCOPE UNJ600-RD
 - e. ACCESS CONTROL = YELLOW - COMMSCOPE UNJ600-YL
 - f. TELEMETRY = ORANGE – COMMSCOPE UNJ600-OR
 - g. NURSE CALL = GREEN – COMMSCOPE UNJ600-GN
 - h. HUGS = YELLOW- COMMSCOPE UNJ600-YL
 - i. F-CONNECTOR = COMMSCOPE 108009432

2.3 CATEGORY 6A COPPER CONNECTIVITY

A. Category 6A, 8-Position, 8-Contact (8P8C) Modular Jack

1. The connector module shall exceed the Category 6A performance criteria per ANSI/TIA-568-C.2.
2. The eight-position connector module shall accommodate six-position modular plug modular cords without damage to either the cord or the module.
3. The connector module shall be designed for use at the work area (WA), communications room (TR) and/or equipment room (ER) without modification.
4. The connector module shall be available in both the T568A and T568B wiring configurations within the same module.
5. The connector module shall have an insulation displacement connection featuring insulation slicing of 22 to 24 AWG plastic-insulated solid copper conductors forming a gas-tight connection.
6. Icons shall be used if offered from the manufacturer.
7. All Jacks shall be component-rated.
8. All category 6A data communications cables will be terminated T568B according to TIA/EIA-568-B.2-1 performance specifications for Cat6A horizontal cabling requirements. It shall be terminated on an eight-conductor RJ45 data jack – CommScope part number:
 - a. WAPS = GREEN CAT-6A - COMMSCOPE USL10G-GRN

2.4 FACEPLATES

A. Faceplates

1. The faceplate housing the connector modules shall have no visible mounting screws.
2. It shall be possible to install the connector modules in wall-mounted single- and dual-gang electrical boxes, utility poles and modular furniture (cubicle) access points using manufacturer-supplied faceplates and/or adapters.
3. The faceplate housing the connector modules shall have the option of being mounted on adapter boxes for surface mount installation.
4. The faceplate housing the connector modules shall have a labeling capability using built-in labeling windows, to facilitate outlet identification and ease network management.
5. The faceplate housing the connector modules shall provide flexibility in configuring multimedia workstation outlets that respond to present or future network needs such as audio, video, coaxial and optical fiber applications.
6. Faceplates shall be Commscope Uniprise – white with labels.
7. All blank slots on faceplate shall be covered with Commscope Uniprise blank insert.
8. Faceplate shall be ordered per number of jacks at outlet locations.
9. Coordinate with owner for exact faceplate style prior to ordering.
 - a. 2 Port Part # 108168469 | M12L-262
 - b. 4 Port Part # 108168584 | M14L-262
 - c. 6 Port Part # 108168584 | M16L-262
 - d. Wall Phone Part # 760100891 | M10LW4SP

2.5 SURFACE MOUNT BOXES

- A. The surface mount box shall accommodate connections of any type, UTP, optical fiber or coax.
- B. The surface mount box shall have internal storage space for slack cabling and a built-in spool for controlling cable bend radius.
- C. Provide 2-port and 4-port variety, see drawings for requirements.

PART 3 - EXECUTION

3.1 COPPER CONNECTIVITY

- A. 8-position, 8-contact (8P8C) modular jacks shall be installed in accordance with manufacturer's recommendations and installation guides, and best industry practices.
- B. Pair untwist at the termination shall not exceed 13 mm (0.5 inch).

3.2 FACEPLATES

- A. Blank inserts shall be installed where ports are not used.

- B. The same orientation and positioning of jacks and connectors shall be used throughout the installation.
- C. Faceplates shall be installed straight and level.
- D. Faceplates shall be installed at the same heights and orientation as electrical faceplates.

3.3 SURFACE MOUNT BOXES

- A. Blank inserts shall be installed where ports are not used.
- B. The same orientation and positioning of jacks and connectors shall be used throughout the installation.

3.4 IDENTIFICATION

- A. Refer to Section 27 05 53 - Identification for Communications Systems for labeling details.

END OF SECTION