

SECTION 271119 - COMMUNICATIONS TERMINATION BLOCKS & PATCH PANELS

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 relating to Communications Termination Blocks and Patch Panels.
- 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 of the required material whether specifically addressed in the Specification or not.

PART 2 - PRODUCTS

2.1 APPROVED PRODUCTS

- A. Approved Patch Panel Manufacturer(s)
 - 1. CommScope – Uniprise
 - a. Patch Panel – CommScope Uniprise 24/48 port cat 6/6A panels, unloaded, with labels.

2.2 PATCH PANELS

- A. Category 6 Patch Panel
 - 1. The Category 6 patch panel shall be modular in design and equipped with Cat 6 jacks.
 - 2. The Category 6 patch panel shall be compatible with 19" equipment racks, cabinets or wall mount brackets.
 - 3. The Category 6 patch panel shall be 2U, flat, standard density type.
 - 4. Panels to be provided with rear cable support bar for strain relief.
 - 5. The Category 6 patch panel shall be equipped with front labeling space to facilitate port identification.

6. All Jacks shall be component-rated.
7. The connector module shall exceed the Category 6 performance criteria per ANSI/TIA-568-C.2.
 - a. Icons shall be used if offered from the manufacturer.
8. See Spec 27 1543 Comm Faceplates and Connectors for jack coloring information.

B. Category 6A Patch Panel

1. The Category 6A patch panel shall be modular in design and equipped with Cat 6A jacks.
2. The Category 6A patch panel shall be compatible with 19" equipment racks, cabinets or wall mount brackets.
3. The Category 6A patch panel shall be 2U, flat type.
4. Panels to be provided with rear cable support bar for strain relief.
5. The Category 6A patch panel shall be equipped with front labeling space to facilitate port identification.
6. All Jacks shall be component-rated.
7. The connector module shall exceed the Category 6A performance criteria per ANSI/TIA-568-C.2.
 - a. Icons shall be used if offered from the manufacturer.
8. See Spec 27 1543 Comm Faceplates and Connectors for jack coloring information.

C. Voice-Grade Patch Panel (Voice)

1. The Voice-Grade patch panel shall be modular in design and equipped with Cat 3 jacks.
2. The Voice-Grade patch panel shall be compatible with 19" equipment racks, cabinets or wall mount brackets.
3. The Voice-Grade patch panel shall be 1U, flat, voice-grade, standard density type, 24 port.
4. The Voice-Grade patch panel shall be equipped with front labeling space to facilitate port identification.
 - a. Icons shall be used if offered from the manufacturer.
5. See Spec 27 1543 Comm Faceplates and Connectors for jack coloring information.

2.3 PATCH PANELS

- A. Cables shall be dressed and terminated in accordance with the recommendations made in ANSI/TIA-568-C.0 and/or ANSI/TIA-568-C.1, manufacturer's recommendations, and best industry practice.
- B. Pair untwist at the termination shall not exceed 13 mm (0.5 inch).
- C. Bend radius of the cable in the termination area shall not exceed 4 times the outside diameter of the cable.

- D. Cables shall be neatly bundled and dressed to their respective patch panel. Each patch panel shall be fed by an individual bundle separated and dressed back to the point of cable entrance into the rack or frame.
- E. Each cable shall be clearly labeled on the cable jacket behind the patch panel at a location that can be viewed without removing the bundle support ties. Cables labeled within the bundle, where the label is obscured from view shall not be acceptable.

2.4 TERMINATION BLOCKS

- A. Cables shall be dressed and terminated in accordance with the recommendations made in ANSI/TIA-568-C.0 and/or ANSI/TIA-568-C.1, manufacturer's recommendations, and best industry practice.
- B. Pair untwist at the termination shall not exceed 13 mm (0.5 inch).
- C. The Bend radius of the cable in the termination area shall not exceed 4 times the outside diameter of the cable.
- D. Cables shall be neatly bundled and dressed to their respective termination block. Each termination block shall be fed by an individual bundle separated and dressed back to the point of cable entrance into the rack or frame.
- E. Each cable shall be clearly labeled on the cable jacket within 12" of the termination block at a location that can be viewed without removing the bundle support ties. Cables labeled within the bundle, where the label is obscured from view shall not be acceptable.
- F. Wall mounted termination block fields shall be mounted on the communications backboard.
- G. Wall mounted termination block fields shall be installed as per the requirements specified by the manufacturer's installation guidelines.

2.5 IDENTIFICATION

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

END OF SECTION