

(NOTE TO DESIGNER: These Specifications are basic minimum criteria to be met in preparing the final specifications for this section, which is the responsibility of the Designer.)

SECTION 27 16 19
PATCH CORDS, STATION CORDS AND CROSS-CONNECT WIRE

PART 1 – GENERAL

1.1 SECTION INCLUDES

- A. Copper and fiber optic patch cables.

1.2 RELATED DOCUMENTS

- A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and Division 1 Specification Sections, apply to this Section.
- B. Related Division 27 Sections include:
 - 1. 27 05 00 Common Work Results for Communications
- C. University of Houston Information Technology Telecommunication Infrastructure Standards

1.3 SUMMARY

- A. This Section specifies the requirements for the Patch Cords, Station Cords, and Cross-Connect Wire for the University of Houston [Project Name]. [Insert Project description.]

PART 2 - PRODUCTS

2.1 APPROVED MANUFACTURERS

- A. Panduit
- B. CommScope

2.2 COPPER PATCH CABLES

- A. Two (2) Category 6 copper patch cables shall be furnished and installed for each horizontal cable installed as follows:
 - 1. 50% - 5 feet in length;
 - 2. 50% - 15 feet in length.
- B. Field terminated patch cables are strictly prohibited.
- C. At minimum, every horizontal cabling permanent link in the installation shall meet or exceed performance characteristics of the field test specifications defined in ANSI/TIA/EIA-568-B.2-1 "Transmission Performance Specifications for 4-pair 100 ohm Category 6 Cabling".
- D. Copper patch cables shall be labeled with the switch and port number on the patch panel end, and the patch panel and port number on the switch end.
- E. Patch cables color corresponds to the following:
 - 1. Red for Data;
 - 2. Yellow for Wireless Access Points;
 - 3. Purple for Security Applications;
 - 4. Green for Building Energy Management and Environmental Controls Systems.

2.3 FIBER OPTIC PATCH CABLES

- A. Furnish and install one duplex LC Fiber optic patch cable for each fiber optic termination. Length to be determined and included in submittal documents.
- B. Fiber optic patch cables types shall coincide with terminated fiber optic type (ie. Singlemode or 50 μ m Multimode)
- C. Fiber Optic Patch Cable Color:
 - 1. Single-mode - Yellow
 - 2. Multi-mode - Orange
- D. Field terminated patch cords are strictly prohibited
- E. Patch cord shall be labeled on each end specifying the source and destination of the cable.

PART 3 - EXECUTION

3.1 PATCH CABLES

- A. Cable Contractor shall fully cooperate and coordinate with Owner's Voice and Data Communications Equipment providers as required to ensure proper integration and connectivity between systems.
- B. Care shall be taken to protect the minimum bend radius of 4 times the cable diameter on all copper patch cables.
- C. Cable Contractor shall furnish labeled floor plan and Microsoft Excel run sheet to Owner's Voice and Data Communications Equipment providers two weeks prior to occupancy.
- D. Cable Contractor shall furnish and install all patch cords in conjunction with Owner's Voice and Data Communications Equipment providers.
- E. Cable Contractor shall provide adequate technician support when Owner's Voice and Data Communications Equipment providers are planning and installing new voice and data equipment installation and connectivity.

END OF SECTION