

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

**PART 1 - GENERAL**

**1.1 DESCRIPTION:**

- A. This section specifies requirements for telecommunications patch cords.

**1.2 SUMMARY**

- A. Section Includes:
- B. Copper (UTP) Patch Cables.
- C. Fiber Optic Patch Cables.

**1.3 REFERENCES**

- A. VA Infrastructure Standard for Telecommunications Spaces.

**1.4 RELATED WORK:**

- A. Termination equipment: Section 27 11 19, COMMUNICATIONS TERMINATION BLOCKS AND PATCH PANELS.
- B. Cable labeling requirements: Section 27 05 53, IDENTIFICATION FOR COMMUNICATIONS SYSTEMS.

**1.5 SUBMITTALS:**

- A. Submit in accordance with Section 27 05 00, COMMON WORK RESULTS FOR COMMUNICATIONS SYSTEMS.

**PART 2 - PRODUCTS**

**2.1 COPPER (UTP) PATCH CABLES.**

- A. Performance Category. Patch cables shall meet the Category 6A performance requirements. Category 6A connectors are required.
- B. Termination Method. Factory pre-terminated TIA 568B.
- C. Conductor Size. 22-28AWG. Where 28AWG patch cords are specified, the overall horizontal channel distance is reduced.
- D. Length. Patch cords of the shortest appropriate length shall be used.

**2.2 FIBER OPTIC PATCH CABLES.**

- A. Construction. Fiber patch cords shall be constructed of pairs (2-strands) of multimode laser-enhanced 50/125µm or single mode laser-optimized 9/125µm fiber.
- B. Performance Category. Multimode patch cords shall meet the OM4 requirements.

- C. Connectors. Duplex Lucent connector (LC) connectors are required. Where polarity requirements are not known, reversible polarity duplex LC connectors are specified on one end.
- D. Termination Method. Factory pre-terminated.
- E. Length. Patch cords of the shortest appropriate length shall be used.

**PART 3 - EXECUTION**

**3.1 IMPLEMENTATION.**

- A. Patch cords shall not be used to connect equipment in different server cabinets.
- B. Patch cords shall be neatly installed using cable management equipment and following cable management principles.
- C. Upon installation patch cords shall be labeled in accordance with the requirements of the VA Infrastructure Standard for Telecommunications Spaces.

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