

## DIVISION 27—COMMUNICATIONS

### 27 16 00 - Communications Connecting Cords, Devices, and Adapters

#### 1.01 COPPER PATCH CORDS FOR CATEGORY 6 LINES

- A. Telecommunications Contractor will be required to provide (2) Category 6 patch cords per Category 6 line installed.
  - 1. The specific number of provided patch cords will be determined by the number of completed drops in the project; this includes any change order. (Please see Appendix I Equipment Specification)
    - a. 1 per installed drop- category 6 patch cord, blue, 5' shall be provided for every patch panel position and rack units used, as well as equipment location and rack placement.
    - b. 1 per installed drop- 5' Category 6 patch cord, blue
- B. Because UTP cable is protected from cross talk and immunity from EMI through the cables pair twist and lay configuration, care must be taken to maintain the minimum bend radius (4 times the cable diameter) of the copper patch cords. All furnished patch cords must be certified by the manufacturer to match the cable type used in the horizontal distribution. (Please see Appendix I Equipment Specification)
- C. Field terminated patch cords are not acceptable. It has been common practice to assemble patch cords in the field using leftover solid-conductor cable. Field assembled patch cables will not perform to Category 6 standards, frequently do not perform to Category 5 standards, and can not be tested for proper performance using currently available field testing equipment. Patch cables shall always be made from stranded copper wire to withstand the flexing associated with patch cords. Any existing field assembled patch cords shall be replaced with factory assembled Category 6 patch cords, before any Texas State University upgrades data speeds to 100 Mbps. Do not attempt to use Category 5 patch cords for Category 6 connections.
- D. Telecommunications Contractor will be required to provide (1) fiber optic patch cord per termination. The fiber optic patch cord will be consistent with termination type and fiber optic mode. (i.e. singlemode or multimode)

END OF SECTION 27 16 00