

**SECTION 26 05 13 – SINGLE-AND MULTI-CONDUCTOR CABLES FOR MEDIUM VOLTAGE SYSTEMS****PART 1: GENERAL**

- A. This standard provides general guidance concerning the specific preferences of Texas State University for Medium-Voltage, Single-and Multi-Conductor Cables.
- B. Texas State University recognizes that project conditions and requirements vary, thus precluding the absolute adherence to the items identified herein in all cases. However, unless there is adequate written justification, it is expected that these guidelines will govern the design and specifications for Texas State University projects.

**1.02 Scope of Work**

- A. Voltage ratings on feeders and service taps shall be rated as applied, with a 220 mils/133% insulation factor. Service tap(s) extend from the source connection in the vault to the line side of the fused disconnecting means or switch. The cable and means of protection beyond the switch shall be sized according to building service.
- B. All cable ends shall be sealed to prevent the entrance of moisture into the insulation during shipment, storage, and installation.
- C. Field testing of cables is to be performed and copies of the test results provided to the owner's representative. Only qualified personnel shall do cable terminations. At each termination point, bond all shields, ground conductor, etc., to a ground rod and equipment ground system.
- D. Arrange cables in vaults to permit subsequent installation of future cables in spare ducts and to permit repair and/or replacement of adjacent cables.
  - 1. All cables shall be identified, at the point of entry into vaults or electrical equipment, with tape to match color coding, (Brown-Yellow-Purple) in campus standards. In addition, the cables are to be marked with phenolic labels identifying the phase and where the cable originates. Cables that pass through vaults or pull boxes without terminations shall be identified with same.
  - 2. All cables in vaults shall be fire taped.
  - 3. Route cables around the walls of the vaults.
  - 4. Allow for spare taps in vaults.

END OF SECTION 26 05 13.16