



Design Standard

Cable Splicing & Termination Qualifications

The majority of premature cable accessory failures in the electrical industry are due to poor workmanship. To ensure that TAMU has safe and reliable power to the campus, the following guidelines have been implemented to ensure only authorized personnel perform terminations on the TAMU Campus.

This standard provides for maintaining a list of personnel approved to perform cable terminations and splices on University medium voltage systems. This standard applies to all personnel who install terminations, splices, and insulated separable connectors on medium voltage shielded, solid dielectric insulated conductors. At TAMU, most of the terminations consist 200A load break elbows, 600A dead break (T-Bodies), stress cones. Most splices are in line, cold shrink splices.

Detailed specifications follow.

PART 1 SPLICING / TERMINATIONS REQUIREMENTS AT TAMU

- 1.1 Minimum of 3 years' experience in 5 kV to 15 kV systems.
- 1.2 Must have performed at least 25 terminations over the last 2 years.
- 1.3 Must have completed and documented formal training (splicing school or manufacturer training).
- 1.4 Must complete T-body termination demonstration for TAMU Utilities Distribution Department.
 - A. Must supply own T-Body Kit to complete termination
 - B. Must supply own 500 MCM demonstration cable

PART 2 STANDARD PROCEDURES

- 2.1 Prior to cable termination or splicing, contractor shall submit in writing to the Supervisor of Electrical Distribution the qualifications of personnel directly responsible for completing the work required. The following information should be provided for approval:
 - A. Training certificate and/or professional license.
 - B. Years of experience in cable termination and/or splicing.
 - C. Number of cable terminations and/or splices performed.
 - D. Manufacturer certifications if applicable.



- E. Must be able to successfully perform a termination and/or splice under the supervision of the Supervisor for Electrical Distribution.

2.2 After successfully meeting the above requirements and receiving approval of the Supervisor for Electrical Distribution:

- A. The personnel that have been approved will be added to the university's list of approved installers for the TAMU campus.
- B. The contractor may proceed on the requested work once approval is received from the Supervisor of Electrical Distribution.
- C. All cable terminations and/or splicing must be tagged with the installer's TAMU identification number and the date of the work performed.
- D. The tag must be made of brass or 304 stainless steel, approximately 1-1/4" diameter and with numbers a minimum 1/4-inch high.
- E. The contractor shall submit a list of all terminations completed for the project; the list shall have manhole number, type of termination, date and the installer's name.
- F. Qualifications shall be updated every three years to remain on the authorized personnel list.

PART 3 DISTRIBUTION

- 3.1** TAMU UES shall maintain current list of approved splicers.