

SECTION 260513 - MEDIUM VOLTAGE CABLES

PART 1 - GENERAL

1.01 RELATED DOCUMENTS

- A. The provisions of this section are an integral part of the project specification, all of which shall apply as if reprinted herein.

1.02 SCOPE OF WORK

- A. This section covers all power conductors with insulation rated above 600 volts. For conductors with insulation rated 600 volts or under, see section 260519.

1.03 TESTING

- A. All testing shall be done to NETA Standards, latest revision. Cables shall be factory tested, and these test records provided as shop drawings. Cables shall be field tested after installation, but prior to energization, and in the presence of the Owner's Representative. Cable failing these tests shall be replaced at no additional cost to the Owner.
- B. Field tests shall be non-destructive. Test results shall be submitted to the Engineer in the number of copies required, for review and approval.
- C. Field tests shall be performed by an independent certified testing laboratory specializing in electrical testing and acceptable to the Owner, using equipment specified or required by the manufacturer. Field testing shall not be performed by the manufacturer.

PART 2 - PRODUCTS

2.01 CONDUCTORS

- A. Refer to Chapter 11 of the PECO Builders Handbook for approved conductors.

2.02 SPLICES AND TERMINATIONS

- A. Cables shall be run continuously without splices.
- B. Refer to Chapter 11 of the PECO Builders Handbook for approved 15 kV terminations.

2.03 LOAD BREAK ELBOW CONNECTORS

- A. Refer to Chapter 11 of the PECO Builders Handbook for approved 15 kV load break elbow connectors.

PART 3 - EXECUTION

3.01 GROUNDING

- A. Shields shall be grounded at all splices and terminations. Bond all shields within a single chamber.

3.02 FLAME-PROOFING

- A. All cables shall be flame proofed where passing through junction or pull boxes, manholes, cable chambers, etc., with arc proofing tapes: three layers of 3M #5, one layer of Irvington #7700, and a random wrap of 3M #27, or Owner approved equal.

3.03 IDENTIFICATION

- A. This paragraph is supplementary to the provisions of section 16195. Cables shall be identified as to phase at each pull or junction box, and termination by means of colored tape served for a minimum of 6-inches over the insulation. 15 kV cables shall be coded A - brown, B - orange, C - yellow. All cables shall be permanently identified with suitable tags as to circuit, source, load, etc., as shown on the plans or schedules, or as directed by the Design Professional.

3.04 PULLING

- A. Cable shop drawings shall indicate the manufacturer's maximum allowable cable pulling stress. Any pulling equipment used shall indicate pulling stress. Cables shall be pulled only in the presence of the Owner's Representative. Cables subjected to excessive stress or pulled in the absence of the owner's Representative shall be replaced at no additional cost to the contract. Submit pulling lubricants for review. Pulling lubricants used shall be listed for the purpose.

3.05 ISOLATION

- A. Each circuit operating above 600 volts shall be run in a separate raceway.

END OF SECTION 260513