

4-23-2015

## 260513 - Medium Voltage Cable

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### Recommended Citation

Hickey, Sandra, "260513 - Medium Voltage Cable" (2015). *Division 26 – Electrical*. 2.  
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## 260513 - Medium Voltage Cable

## SECTION 26 0513 - MEDIUM VOLTAGE CABLE

### PART 1 - GENERAL

- 1.1 The following Medium Voltage Cable components shall be submitted to UNH Facilities for approval:
  - A. Medium Voltage Underground Cable.
  - B. Medium Voltage Overhead Cable.
  - C. Low Voltage Cable below 600 volts.
  - D. Medium Voltage Terminations.
  
- 1.2 See Chapter 5, Division 01, Section 017700.1.1.B.1.i Closeout Procedures - Project Record Documents for equipment list requirements for all equipment provided in this section.

### PART 2 - PRODUCTS

#### 2.1 UNDERGROUND CABLE

- A. EPR Power Cable 35000 volts: Single Conductor, Shielded, 100% Insulation Level, AEIC-CS-6, MV-90 or MV-105 Sunlight Resistant, CT, USE.
- B. ERP Power Cable 5000/8000 volts: Single conductor, Shielded, 133% Insulation Level, AEIC-CS-6, MV-90 or MV-105 Sunlight Resistant, CT, USE.
- C. Cable Components for both 5000/8000 & 35000 volt cable (A & B).
  1. Conductor to be copper wire only.
  2. Shielding to be copper tape only.
  3. All medium voltage underground cable shall be installed in conduit encased in reinforced concrete with minimum 3" cover top, bottom and sides.
  4. All medium underground cable runs shall include a full size bare stranded neutral conductor, run with the ungrounded insulated phase conductors.
  5. The minimum allowable wire size for 5kV shall be #2 AWG Stranded Copper.
  6. The minimum allowable wire size for 35kV shall be 1/0 AWG Stranded Copper.

#### 2.2 AERIAL MEDIUM VOLTAGE

- A. ACSR Type Cable.
- B. Hendrix Cable System.

2.3 AERIAL SECONDARY VOLTAGE

- A. ACSR Type Cable.
- B. Multiplex Type Cable.
  - 1. Duplex.
  - 2. Triplex.
  - 3. Quadruplex.

2.4 MEDIUM VOLTAGE TERMINATION

- A. Elastomeric Type shall be used.
- B. Single-Piece Terminators.
- C. Stress Cones.
- D. Splices.
- E. Loadbreak Elbows.
- F. Loadbreak Junctions.
- G. Cable Shield Adapters.
- H. Grounding Devices.

END OF SECTION 26 0513