

UNIVERSITY OF NEW HAMPSHIRE  
CONSTRUCTION AND RENOVATION STANDARDS

SECTION 16121 - MEDIUM VOLTAGE CABLE

PART 1 - GENERAL

1.01 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 volts: Single conductor, Shielded, 100% Insulation Level, AEIC-CS-6, MV-90 or MV-105 Sunlight Resistant, CT, USE.
- C. Cable Components for both 5000 & 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. Message
  - 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.

1.02 Aerial Medium Voltage

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

1.03 Aerial Secondary Voltage

- A. ACSR Type Cable
- B. Multiplex Type Cable
  - Duplex
  - Triplex
  - Quadruplex

1.04 Medium Voltage Termination

- A. Elastomeric Type shall be used.
  - 1. Single-Piece Terminators
  - 2. Stress Cones
  - 3. Splices
  - 4. Loadbreak Elbows
  - 5. Loadbreak Junctions
  - 6. Cable Shield Adapters
  - 7. Grounding Devices

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PART 2 - PRODUCTS

2.01 Medium Voltage Underground Cable

Okoguard  
Anaconda  
Southwire  
AETNA  
Pirelli

2.02 Medium Voltage Overhead Cable

Hendrix Cable System  
General Cable ACSR  
Alcan Cable ACSR

2.03 Low Voltage Cable below 600 volts

General Wire & Cable  
Triangle Wire & Cable

2.04 Medium Voltage Terminations

Elastimold  
3-M  
RTE  
Ray Chem

END OF SECTION