

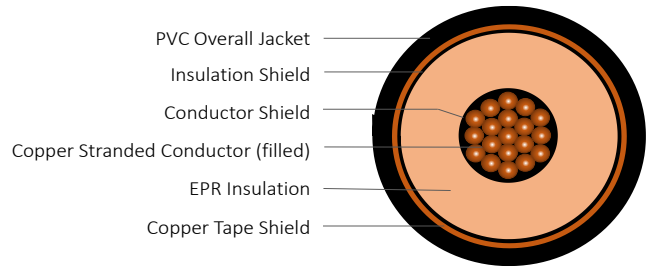
**EPR/CTS/PVC, Type MV-105, 35kV 133%, 420-MILS**  
**Single Conductor Filled Copper -Silicone Free**

**DESCRIPTION**

This specification covers cables that consist of Copper filled conductor, covered with ethylene propylene rubber (EPR), copper taped shield (CTS) and a polyvinyl chloride (PVC) jacket.

**APPLICATIONS**

- Suitable for underground primary power applications: direct burial or in duct.
- For wet or dry locations
- Jacket is sunlight resistant, meeting the 720-hr exposure test
- Excellent resistance to treeing
- Designed to operate continuously at a conductor temperature not exceeding
  - 105°C for normal operations
  - 140°C for emergency overload
  - 250°C for short circuit



| CONSTRUCTION             |   | STANDARDS (Compliance) |   |
|--------------------------|---|------------------------|---|
| <b>CONDUCTOR</b>         | Annealed bare copper (filled)<br>Class B Strand Compact | <b>PERFORMANCE</b>     | AEIC CS8<br>ASTM B-3<br>ASTM B-496<br>ICEA S-97-682<br>ICEA S-93-639<br>UL 1072 |
| <b>STRAND SHIELD</b>     | Thermoset semi-conducting polymer                       |                        |   |
| <b>INSULATION</b>        | Ethylene propylene rubber (EPR)                         |                        |   |
| <b>INSULATION SHIELD</b> | Thermoset semi-conducting polymer                       |                        |   |
| <b>SHIELD</b>            | 5-mil copper tape with a 25% overlap                    |                        |   |
| <b>JACKET</b>            | Polyvinyl Chloride (PVC)                                |                        |   |
| <b>PACKAGING</b>         | Non-returnable wooden reels                             |                        |   |

| SPECIFICATIONS   |                |                         |                          |                      |                       |                               |                              |
|------------------|----------------|-------------------------|--------------------------|----------------------|-----------------------|-------------------------------|------------------------------|
| Part Number      | Conductor Size | Conductor Diameter (in) | Insulation Diameter (in) | Metallic Shield      | Jacket Thickness (in) | Approx. Overall Diameter (in) | Approx. Net Weight (lbs/kft) |
| E8NLE-1A5T01CA00 | 1/0 AWG        | 0.336                   | 1.21                     | CTS with 25% overlap | 0.075                 | 1.45                          | 1,228                        |

*\*The dimensions and weights shown are nominal and subject to industry standards. Other designs available upon request.*