

**TR-XLPE/CN/XLPE, Type Primary UD**

**MV-105; 35KV; 133%; 420-mils**

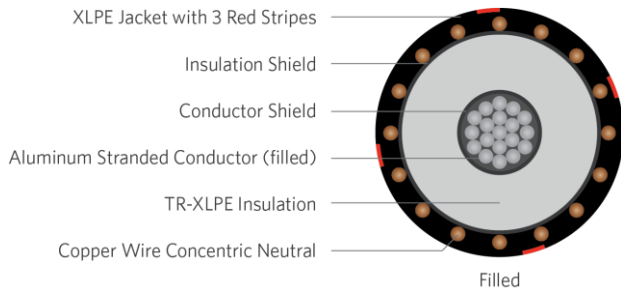
Part Number **E9NWT-B86F01CA20**

**DESCRIPTION**

The Medium Voltage Primary Underground Distribution (UD) cables consists of an aluminum (Filled) conductor, covered with tree-retardant cross-linked polyethylene (TR- XLPE), a concentric neutral of helically applied copper wires, moisture block and a sunlight resistant cross-linked polyethylene (XLPE) jacket with 3 extruded red stripes.

**APPLICATION**

- Suitable for underground primary power applications
- For wet or dry locations
- For direct burial or in duct
- Jacket is sunlight resistant, meeting the 720-hr exposure test
- Designed to operate continuously at a conductor temperature not exceeding
  - » 105°C for normal operations
  - » 130°C for emergency overload
  - » 250°C for short circuit



**SPECIFICATIONS**

|                      |  |
|----------------------|--|
| <b>Conductor</b>     | Aluminum 1350 compressed stranded Class B (Filled)   |
| <b>Conductor</b>     | Extruded thermoset                                   |
| <b>Strand Shield</b> | Semi-conducting polymer                              |
| <b>Insulation</b>    | Tree-Retardant Cross-linked Polyethylene (TR-XLPE)   |
| <b>Neutral</b>       | Concentric Neutral (24 x #10awg)                     |
| <b>Jacket</b>        | Cross-linked Polyethylene (XLPE) With Moisture Block |

|                               |  |
|-------------------------------|--|
| <b>Packaging</b>              | Non-returnable reels<br>ASTM B-3, B-230, B-231<br>ICEA S-94-649          |
| <b>Performance Compliance</b> | ICEA T-31-610<br>ICEA T-34-664<br>AEIC CS8<br>RUS U1<br>UL 1072 (MV-105) |

**1C; 1250KCM; 91-wires Aluminum (Filled), 35kv 133% 420mils TR-XLPE, (24-wires copper x 10AWG) 1/3 concentric neutral, with moisture block and an XLPE jacket**

**PART NUMBER AND PHYSICAL CHARACTERISTICS**

| Part Number                                 | Conductor Size (AWG/kcmil) | Cond Diameter (in.) | Copper Concentric Neutral | Insulation Diameter (in.) | Jacket Thickness (in.) | OD (in.) | Net Weight lbs./MFT |
|---|----------------------------|---------------------|---------------------------|---------------------------|------------------------|----------|---------------------|
| <b>Design with filled stranded aluminum</b> |                            |                     |                           |                           |                        |          |                     |
| E9NWT-B86F01CA20                            | 1250KCM                    | 1.22                | 24 x 10 AWG               | 2.12                      | .080                   | 2.53     | 3,476               |

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