



# Primary Underground Distribution (URD) Cable



AL Conductor XLPE Insulated 35kV UL 1072

URD cable, rated MV105°C (wet and dry) Flame-retardant Cross-Linked Polyethylene XLPE insulation

| Description                                 | Units             | Value       |
|---|-------------------|-------------|
| Insulation material                         | XLPE              |             |
| Conductor type (Three / Single)             | Single            |             |
| Conductor Cross-Section                     | kcmil             | 2/0 AWG     |
| Rating / Insulating level                   | 100% or 133%      | 100%        |
| Approx. Weight/Foot (K)                     | Lbs               | 874         |
| Number of strands of conductor and diameter | #/awg             | 19/Compress |
| Standing Class                              | Class B(Compress) |             |
| Outside Diameter (OD) conductor             | inches            | 0.398       |
| Layer thickness semi-conducting (inner)     | ICEA /inches      | 0.445       |
| Insulation thickness                        | ICEA /inches      | 0.345       |
| Layer thickness semi-conducting (outer)     | ICEA /inches      | 1.227       |
| Concentric neutrals (1/3)                   | No/AWG            | 8/16AWG     |
| Concentric neutrals (1/2)                   | No/AWG            | 12/16AWG    |
| Concentric neutrals (2/3)                   | No/AWG            | 16/16AWG    |
| Concentric neutrals (Full)                  | No/AWG            | 24/16AWG    |
| Jacket thickness                            | inches            | 0.051       |
| Jacket Color                                | Black/Red Stripes |             |
| Jacket type                                 | LLDPE/XLPE        | XLPE        |

| Description                                      | Units            | Value  |
|--|------------------|--------|
| Cable Diameter                                   | inches           | 1.457  |
| Service temperature rating                       | Deg/C            | 105°C  |
| DC Resistance at 20 Deg C                        | ohms/1000 ft     | 0.113  |
| AC Resistance at 105 Deg C                       | ohms/1000 ft     | 0.179  |
| Capacitance                                      | µF/1000ft        | 0.0451 |
| Inductance                                       | mH/1000ft        | 0.136  |
| Minimum bending radius                           | inches           | 14.6   |
| Maximum pulling tension                          | Lbs              | 799    |
| Ampacity of conductor (conduit in air at 20°C)   | Amps/NEC 2020    | 228    |
| Ampacity of conductor (underground duct at 20°C) | Amps/NEC 2020    | 190    |
| Ampacity of conductor (cable tray at 40°C)       | Amps/NEC 2020    | 230    |
| Ampacity of conductor (conduit in air at 40°C)   | Amps/NEC 2020    | 200    |
| Short circuit rating of conductor                | (Is, kA)         | 591    |
| Standard for ampacity calculation                | NEC              | NEC    |
| Packing  | Wood/Metalsheath | Wood   |
| Reactance** - Duct                               | Ω/1000ft         | 0.051  |
| Reactance** - Direct Buried                      | Ω/1000ft         | 0.094  |

\*\*In duct: Triplex, In direct buried: Spaced 7.5 inches horizontal

### Industry Standards

ICEA S-94-649 – Standard for Concentric Neutral Cables Rated 5 through 46 KVA  
 ICEA CSB – Specification for Extruded Dielectric, Shielded Power Cables Rated 5 through 46 KV  
 UL 1072 – Medium-Voltage Power Cables

### Component Standards

ASTM B 231 – Standard Specification for Concentric-Lay-Stranded Aluminum 1350 Conductors  
 ASTM B 3 – Standard Specification for Soft or Annealed Copper Wire  
 ICEA T-31-610 – Test Method for Conducting Longitudinal Water Penetration Resistance Tests  
 ASTM B 5 – Standard Specification for High Conductivity Tough-Pitch Copper Refinery Shapes  
 NEC-National Electric Codebook 2020

**We want to hear from you!**

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