ENGINEERING SPECIFICATIONS

Standards
Underwriters Laboratories® Standards UL-83, UL-854, UL-2556; Compact Stranded Aluminum Alloy 8000 Series per ASTM B800, ASTM B801, ASTM B836; Federal Specifications AA-59544; NFPA 70 (NEC®) Article 230, 338; NEMA RV-4; ARRA 2009 Section 1605 “Buy American” Compliant; RoHS Compliant; MasterSpec Division 26 Sections 260519, 260523; UL Listing #E-174428

CONSTRUCTION

Conductors
Compact Stranded Conductors, Aluminum Alloy 8000 Series per ASTM B800, ASTM B801 and ASTM B836

Insulation
High-dielectric strength, heat and moisture-resistant, black or colored Polyvinyl Chloride (PVC), rated for continuous use at 90°C wet or dry, meeting the requirements of UL-83 for THHN/THWN-2 and UL-44 for XHHW-2

Cable Jacket
A tough gray, sunlight and fungus-resistant PVC outer covering

Grounding/Neutral Conductor
Compact Stranded Conductors, Aluminum Alloy 8000 Series per ASTM B800, B801 and B836

Assembly
Inner conductors are insulated Aluminum Alloy 8000 Series per ASTM B800, B801, and B836, Type THHN/THWN-2. Ground/neutral conductor is stranded bare aluminum. Insulated conductors and bare ground/neutral conductor are cabled together to form a round inner core. All conductors are wrapped with glass-reinforced tape shield. Overall thermoplastic jacket is protective and sunlight-resistant PVC in accordance with UL-854.

APPLICATIONS

For above ground electrical installations from the service disconnection means, to a remote distribution panel in single-family dwellings, two-family and multi-family dwelling units. Type SE Style R can be used for interior wiring as branch circuits to ranges, ovens, cooking units, or clothes dryers. This cable is manufactured in accordance with Underwriters Laboratories UL-854 and installed in accordance with Article 338 of the National Electrical Code. Type SE Style R is approved for installation in accordance with Articles 215, 225 and 230 of the NEC and has a 600-volt rating.

Conductor Sizes (Includes Ground (AWG) or KCMIL) Insulated Phases (AWG) Ground / Neutral (AWG) Nominal Diameter (in) Approximate Net Weight (lbs/1000 ft) Allowable Ampacity (Amps) Standard Packaging (ft)

For 120/240-volt, Single Phase Dwelling Services and Feeders see Section 310.15(B)(7) of the National Electrical Code. The above data is approximate and subject to manufacturing tolerances.

PRINT LEGEND:
➊ 8 AWG THROUGH 200 KCMIL: ENCORE WIRE CORP TYPE SE STYLE R THHN OR THWN CDRS 600 V (NO. OF CDRS) (CDR SIZE) AA-8000 AL 1 CDR (SIZE) AA-8000 AL (UL) ((CDR SIZE1) – (CDR SIZE2) – (CDR SIZE3) – (CDR SIZE4) – (CDR SIZE5)) – (NEUTRAL) – (DATE/TIME/OPER/LOC)
➋ 1/0 AWG THROUGH 300 KCMIL: ENCORE WIRE CORP TYPE SE STYLE R THHN OR THWN CDRS 600 V (NO. OF CDRS) (CDR SIZE) AA-8000 AL 1 CDR (SIZE) AA-8000 AL (UL) ((CDR SIZE1) – (CDR SIZE2) – (CDR SIZE3) – (CDR SIZE4) – (CDR SIZE5)) – (NEUTRAL) – (DATE/TIME/OPER/LOC)