ENGINEERING SPECIFICATIONS

Standards
Underwriters Laboratories® Standards UL-44, UL-854; ANSI/ICEA S-105-692; IEEE 835-1994; NFPA 70 (NEC®); Compact Stranded Aluminum Alloy 8000 Series per ASTM B800, ASTM B801, ASTM B836, ARRA 2009 Section 1605 “Buy American” Compliant; RoHS Complaint; RUS Accepted; ICEA S-81-570; UL Listing E#-174428

CONSTRUCTION

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

Insulation
Cross-link polyethylene (XLPE) insulation per UL-44, UL-854 and ANSI/ICEA S-105-692. Black XLPE insulation on phase conductors, yellow XLPE insulation on grounded (neutral) conductors.

APPLICATIONS

Triple-rated USE-2/RHH/RHW-2 phase conductors are suitable for underground service entrance applications and in raceways for general purpose lighting and power circuits. Triple-rated conductors can also be installed on both sides of the service and when the service point is located inside the building envelope. For applications not exceeding 600 volts. May be used for NEC applications, as well as, non-NEC applications including direct burial, or for installation in electrical ducts and raceways. For wet or dry locations not exceeding 90°C for normal operation, 130°C for emergency overloads, and 250°C under short circuit conditions. All conductors are UL triple-rated as USE-2 per UL-854 and RHH/RHW-2 per UL-44.

FEATURES


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<thead>
<tr>
<th>Code Name</th>
<th>Conductor Sizes (AWG)</th>
<th>Phase Conductors</th>
<th>Neutral Conductor</th>
<th>Finished Cable</th>
<th>Allowable Amperages for Direct Burial</th>
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<td>Outside Diameter (in)</td>
<td>Approximate Net Weight (lbs/1000 ft)</td>
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1 Amperage of conductors are based on the National Electrical Code (NFPA 70) Table 310.15(B)(3)(a). See 110.14(C), 240.4(D) and 310.15(B) for other limitations where applicable.
2 IEEE 835, Standard Power Cable Amperage Table
3 Per NEC Section 300.26(B)(4) only conductors 4 AWG and larger are permitted for re-identification from yellow to white or gray at the time of installation.

NEC Article 310.15(B)(2) permits for ambient temperature correction factors for temperatures other than 30°C (86°F).

NCE Table 310.15(B)(3)(a) for amperage adjustment factors, as applicable, for more than four current-carrying conductors.

NCE Article 110.14(C) for conductor temperature limitations for equipment rated 100 amps or less, or for equipment rated for more than 100 amps. The above data is approximate and subject to manufacturers' tolerances.

PRINT LEGEND:
6 AWG THROUGH 1 AWG - ENCORE WIRE CORP (SIZE) AA-8000 AL CDR TYPE USE-2 OR RHH OR RHW-2 SUN-RES DIR-BUR FT2 600 VOLT XLPE FOR CT USE (UL) OR C(UL) DTE/TME/OPER/QC
1/0 THROUGH 750 KCMIL - ENCORE WIRE CORP (SIZE) AA-8000 AL CDR TYPE USE-2 OR RHH OR RHW-2 SUN-RES DIR-BUR FT2 600 VOLT XLPE FOR CT USE (UL) OR C(UL) DTE/TME/OPER/QC

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