

TYPE QUADRUPLEX - EC-1350 SERIES ALUMINUM - OVERHEAD SERVICE DROP - 600V

ACSR - ALUMINUM CONDUCTOR STEEL REINFORCED SUPPORTING NEUTRAL



ENGINEERING SPECIFICATIONS

Standards

Compact Stranded Aluminum Alloy 1350 Series per ASTM B232, ASTM B233, ASTM B836; ANSI/ICEA S-76-474; ARRA 2009 Section 1605 "Buy American" Compliant; RUS Accepted; RoHS Compliant

CONSTRUCTION

Conductors

Insulated Conductors: Compact Stranded Aluminum Alloy 1350 Series per ASTM B230, ASTM B231, ASTM B609, and ASTM B836

Neutral Conductor: Stranded Aluminum Steel Reinforced (ACSR), 1350 Series Alloy Bare Supporting Neutral with Steel Support Center Wire per ASTM B230 and ASTM B232

Insulation

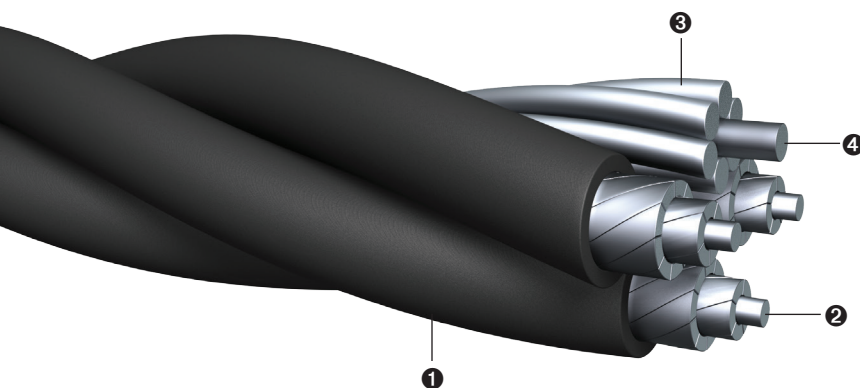
Cross-link polyethylene (XLPE) black insulation per ANSI/ICEA S-76-474, rated 90°C wet or dry

APPLICATIONS

Quadruplex overhead service drop cable with ACSR 1350 Series alloy supporting neutral is designed for applications not exceeding 600 volts with a maximum conductor operating temperature of 90°C wet or dry. Primarily used for delivering single phase power from utility power lines or transformers to the service point of a building or structure. Suitable for 120/240V aerial service for outdoor lighting or for temporary service at construction sites.

FEATURES

Quadruplex overhead service drop cable has three black XLPE insulated aluminum conductors cabled around a bare-stranded ACSR 1350 Series alloy supporting neutral with steel support center wire. Superior weather, abrasion, crush, and sunlight-resistant XLPE insulation rated 90°C operation wet or dry. Manufactured and tested according to ANSI/ICEA S-76-474: Standard for Neutral Supported Power Cable Assemblies with Weather-Resistant Extruded Insulations Rated 600 Volts. Insulated conductors are surface printed for identification.



- ❶ XLPE Insulation
- ❷ Compact Stranded Conductor, EC-1350 Series
- ❸ Stranded Aluminum Conductor Steel Reinforced Supporting Neutral (ACSR), EC-1350 Series
- ❹ Steel Support Center Wire

| Code Name | Conductor Sizes (AWG) | Phase Conductors | | | | Bare Neutral Conductor | | | | | Ampacity (XLPE) ^{1,2} | Diameter of Final Construction (in) | Approximate Net Weight (lbs/1000 ft) | Standard Packaging (ft) |
|-----------|-----------------------|------------------|----------------|---------------------|-----------------------|------------------------|------------|----------------|----------------------|------------------|--------------------------------|-------------------------------------|--------------------------------------|-------------------------|
| | | Size (AWG) | No. of Strands | XLPE Thickness (in) | Outside Diameter (in) | Type | Size (AWG) | No. of Strands | Rated Strength (lbs) | Finished OD (in) | | | | |
| Chola | 6-6-6-6 | 6 | 7 | 0.045 | 0.259 | ACSR | 6 | 6+1 | 1190 | 0.198 | 105 | 0.623 | 150 | 500' 1000' 1500' Reels |
| Hackney | 4-4-4-4 | 4 | 7 | 0.045 | 0.303 | ACSR | 4 | 6+1 | 1860 | 0.250 | 135 | 0.729 | 215 | 500' 1000' 1500' Reels |
| Palomino | 2-2-2-2 | 2 | 7 | 0.045 | 0.358 | ACSR | 2 | 6+1 | 2850 | 0.316 | 175 | 0.861 | 350 | 500' 1000' 1500' Reels |
| Costena | 1/0-1/0-1/0-1/0 | 1/0 | 10 | 0.060 | 0.456 | ACSR | 1/0 | 6+1 | 4380 | 0.398 | 240 | 1.097 | 560 | 500' 1000' 1500' Reels |
| Grullo | 2/0-2/0-2/0-2/0 | 2/0 | 12 | 0.060 | 0.496 | ACSR | 2/0 | 6+1 | 5300 | 0.447 | 280 | 1.193 | 690 | 500' 1000' 1500' Reels |
| Suffolk | 3/0-3/0-3/0-3/0 | 3/0 | 15 | 0.060 | 0.543 | ACSR | 3/0 | 6+1 | 6620 | 0.502 | 325 | 1.306 | 850 | 500' 1000' 1500' Reels |
| Appaloosa | 4/0-4/0-4/0-4/0 | 4/0 | 19 | 0.060 | 0.595 | ACSR | 4/0 | 6+1 | 8350 | 0.563 | 375 | 1.431 | 1060 | 500' 1000' 1500' Reels |

¹ Ampacities shown are for non-NEC applications and are based on the following factors:

a) conductor temperature of 65°C over 25°C ambient temperature

b) 2 ft./sec crosswind

c) .9 coefficient of emissivity, no sun

For NEC® type applications, consult appropriate NEC ampacity section.

The above data is approximate and subject to normal manufacturing tolerances.

² Engineers: Reference the Aluminum Electrical Conductors Handbook.

PRINT LEGEND: ENCORE WIRE CORP (SIZE) AWG EC-1350 AL CDR XLPE SUN RES 600 VOLT DATE/TIME/OPERATOR/QC