

UNDERGROUND DISTRIBUTION CABLE - DUPLEX - 1350 SERIES ALUMINUM - 600V

SINGLE-RATED: XLPE INSULATED 90°C

ENGINEERING SPECIFICATIONS

Standards

Underwriters Laboratories® Standards UL-854; ANSI/CEA S-105-692; IEEE 835-1994; Compact Stranded Aluminum Alloy 1350 Series per ASTM B230, ASTM B231, ASTM B609, ASTM B836; ARRA 2009 Section 1605 "Buy American" Compliant; RUS Accepted; RoHS Compliant; ICEA S-81-570; UL Listing #E-174428



Listing E-174428



CONSTRUCTION

Conductors

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

Insulation

Cross-link polyethylene (XLPE) insulation per UL-854 and ANSI/CEA S-105-692.

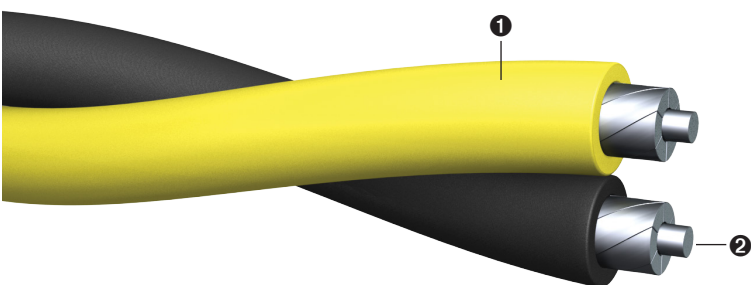
Black XLPE insulation on phase conductor, yellow XLPE insulation on grounded (neutral) conductor.

APPLICATIONS

Duplex construction, single-rated USE-2 cables for underground service entrance applications not exceeding 600 volts. May be used as single-rated type USE-2 for NEC applications, as well as, non-NEC applications, including direct burial, or for installation in ducts or conduits. 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 may be used as UL single-rated as USE-2 per UL-854.

FEATURES

One black XLPE insulated phase conductor cabled together with one yellow XLPE insulated neutral conductor. Superior weather, abrasion, crush, and sunlight-resistant XLPE insulation. Manufactured and tested according to *ANSI/CEA S-105-692: Standard For 600 Volt Single Layer Thermoset Insulated Utility Underground Distribution Cables*. Also manufactured and tested according to UL-854 for single-rated USE-2 cables. Conductors are surface printed for identification. Excellent ruggedized and mechanical protection.



- 1 XLPE Insulation
- 2 Compact Stranded Conductor, EC-1350 Series

Code Name	Conductor Sizes (AWG)	Phase Conductors				Neutral Conductor				Finished Cable		Allowable Ampacities (Amps) for Direct Burial ¹	Standard Packaging (ft)
		Size (AWG)	No. of Strands	XLPE Thickness (in)	Outside Diameter (in)	Size (AWG)	No. of Strands	XLPE Thickness (in)	Outside Diameter (in)	Approximate Net Weight (lbs/1000 ft)	Final Diameter (in)		
Bard	8-8	8	7	0.060	0.254	8	7	0.060	0.254	64	0.508	70	500' 1000' 1500' Reels
Clafin	6-6	6	7	0.060	0.289	6	7	0.060	0.289	88	0.578	112	500' 1000' 1500' Reels
Delgado	4-4	4	7	0.060	0.333	4	7	0.060	0.333	124	0.666	140	500' 1000' 1500' Reels

¹ Ampacities shown are for non-NEC applications and are based on current in phase conductors only per IEEE 835, Standard Power Cable Ampacity Table:

a) 90°C conductor temperature

b) 20°C earth ambient

c) 100% load factor

d) (Rho) = 90°C-cm/watt earth thermal resistivity for three cable, 36" deep burial

For NEC applications, consult appropriate NEC ampacity section. The above data is approximate and subject to normal manufacturing tolerances.

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PRINT LEGEND: ENCORE WIRE CORP (SIZE) EC-1350 AL CDR TYPE USE-2 SUN-RES DIR-BUR 600 VOLT XLPE (UL) DATE/TIME/OPER/QC