UNDERGROUND DISTRIBUTION CABLE - SINGLE CONDUCTOR - 1350 SERIES ALUMINUM - 600V
SINGLE-RATED: XLPE INSULATED 90°C

Patents: encorewire.com/patents

ENGINEERING SPECIFICATIONS

Standards

Underwriters Laboratories® Standards UL-854; ANSI/ICEA S-105-692-2011; IEEE 835-1994; Compact Stranded Aluminum Alloy 1350 Series per ASTM B230, ASTM B231, ASTM B609, ASTM B836; RoHS Compliant; RUS Accepted; ICEA S-81-570; UL Listing #E-174428

CONSTRUCTION

Conductors

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

Insulation

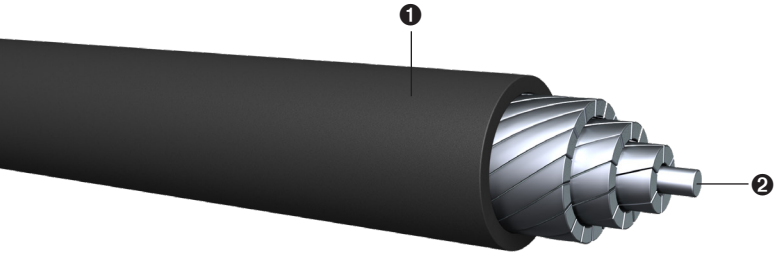
Cross-link polyethylene (XLPE) insulation per UL-854 and ANSI/ICEA S-105-692. Black XLPE insulation.

APPLICATIONS

Single-conductor, XLPE insulated conductor for utility underground applications not exceeding 600 volts. For NEC applications when used as USE-2 per UL 854 and NEC 310.104(A) and non-NEC applications including direct burial, or for installation in electrical ducts or raceways. For wet or dry locations not exceeding 90°C for normal operation, 130°C for emergency overloads not to exceed 100 hours within 12 consecutive months.

FEATURES

One black XLPE insulated phase conductor. Superior weather, abrasion, crush, and sunlight-resistant XLPE insulation. Manufactured and tested according to *ANSI/ICEA 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. Conductor is surface printed for identification. Excellent ruggedized and mechanical protection.



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

Conductor					Finished Cable			
Code Name	Size (AWG)	No. of Strands	Compact Diameter of Aluminum Conductor (in)	Insulation Thickness (in)	Outside Diameter (in)	Approximate Net Weight (lbs/1000 ft)	Allowable Ampacities (Amps) for Direct Burial[1,2]	Standard Packaging (ft)
Princeton	6	7	0.169	0.060	0.289	44	108	500' 1000' 2500' 5000' Reels
Mercer	4	7	0.213	0.060	0.333	62	140	500' 1000' 2500' 5000' Reels
Clemson	2	7	0.268	0.060	0.388	90	180	500' 1000' 2500' 5000' Reels
Kenyon	1	8	0.299	0.080	0.459	120	203	500' 1000' 2500' 5000' Reels
Harvard	1/0	10	0.336	0.080	0.496	150	231	500' 1000' 2500' 5000' Reels
Yale	2/0	12	0.376	0.080	0.536	176	263	500' 1000' 2500' 5000' Reels
Tufts	3/0	15	0.423	0.080	0.583	216	299	500' 1000' 2500' 5000' Reels
Beloit	4/0	19	0.475	0.080	0.635	262	338	500' 1000' 2500' 5000' Reels
Hofstra	250	22	0.520	0.095	0.710	320	368	500' 1000' 2500' 4000' Reels
Gonzaga	300	21	0.570	0.095	0.760	375	407	500' 1000' 3500' Reels
Rutgers	350	24	0.616	0.095	0.806	430	444	500' 1000' 3000' Reels
Dartmouth	400	27	0.659	0.095	0.849	484	475	500' 1000' 3000' Reels
Emory	500	34	0.736	0.095	0.926	583	540	500' 1000' 2500' Reels
Duke	600	41	0.813	0.110	1.033	710	595	500' 1000' 2000' Reels
Furman	700	45	0.877	0.110	1.097	810	645	500' 1000' 1500' Reels
Sewanee	750	47	0.908	0.110	1.128	865	667	500' 1000' 1500' Reels
Fordham	1000	61	1.060	0.110	1.340	1122	800	500' 1000' Reels

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