

# TYPE QUADRUPLEX - 1350 SERIES ALUMINUM - UNDERGROUND DISTRIBUTION CABLE - 600V

SINGLE-RATED: XLPE INSULATED 90°C

## ENGINEERING SPECIFICATIONS

### Standards

Underwriters Laboratories® Standards UL-854; ANSI/ICEA 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; RoHS Compliant; RUS Accepted; ICEA S-81-570; UL Listing #E - 174428



Listed E-174428



## CONSTRUCTION

### Conductors

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

### Insulation

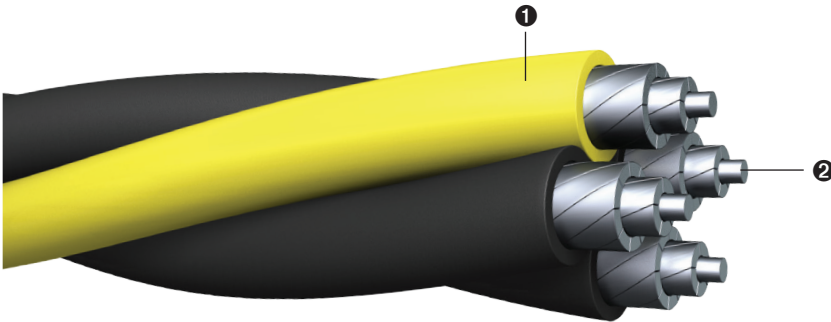
Cross-link polyethylene (XLPE) insulation per UL-854 and ANSI/ICEA S-105-692. Black XLPE insulation on phase conductors, yellow XLPE insulation on grounded (neutral) conductor.

## APPLICATIONS

Quadruplex Construction, 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

Three black XLPE insulated phase conductors cabled together with one yellow XLPE insulated neutral 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. 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 for Direct Burial <sup>1,2</sup>	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)	Outside Diameter (in)	Approximate Net Weight (lbs/1000 ft)		
Tulsa	4-4-4-4	4	7	0.060	0.330	4	7	0.060	0.330	0.797	248	119	500' 1000' 1500' Reels
Dyke	2-2-2-4	2	7	0.060	0.388	4	7	0.060	0.330	0.937	332	153	500' 1000' 1500' Reels
Wittenberg	2-2-2-2	2	7	0.060	0.388	2	7	0.060	0.388	0.937	360	153	500' 1000' 1500' Reels
Notre Dame	1/0-1/0-1/0-2	1/0	10	0.080	0.496	2	7	0.060	0.388	1.197	540	198	500' 1000' 1500' Reels
Purdue	1/0-1/0-1/0-1/0	1/0	10	0.080	0.496	1/0	10	0.080	0.496	1.197	600	198	500' 1000' 1500' Reels
Syracuse	2/0-2/0-2/0-1	2/0	12	0.080	0.536	1	8	0.080	0.459	1.294	648	226	500' 1000' 1500' Reels
Lafayette	2/0-2/0-2/0-2/0	2/0	12	0.080	0.536	2/0	12	0.080	0.536	1.294	704	226	500' 1000' 1500' Reels
Swarthmore	3/0-3/0-3/0-1/0	3/0	15	0.080	0.583	1/0	10	0.080	0.496	1.407	798	257	500' 1000' 1500' Reels
Davidson	3/0-3/0-3/0-3/0	3/0	15	0.080	0.583	3/0	15	0.080	0.583	1.407	864	257	500' 1000' 1500' Reels
Wake Forest	4/0-4/0-4/0-2/0	4/0	19	0.080	0.635	2/0	12	0.080	0.536	1.533	962	291	500' 1000' 1500' Reels
Earlham	4/0-4/0-4/0-4/0	4/0	19	0.080	0.635	4/0	19	0.080	0.635	1.533	1048	291	500' 1000' 1500' Reels
Rust	250-250-250-3/0	250	22	0.095	0.710	3/0	15	0.080	0.583	1.714	1176	319	500' 1000' 1500' Reels
Slippery Rock	350-350-350-4/0	350	24	0.095	0.806	4/0	19	0.080	0.635	1.946	1552	385	500' 1000' 1500' Reels
Niagara	350-350-350-350	350	24	0.095	0.806	350	24	0.095	0.806	1.946	1720	385	500' 1000' Reels
Wofford	500-500-500-350	500	34	0.095	0.926	350	24	0.095	0.806	2.235	2179	467	500' 1000' Reels
Marshall	500-500-500-500	500	34	0.095	0.926	500	34	0.095	0.926	2.235	2332	467	500' 1000' Reels
Windham	750-750-750-500	750	47	0.110	1.128	500	34	0.095	0.926	2.723	3178	575	500' 1000' Reels
Taber	750-750-750-750	750	47	0.110	1.128	750	47	0.110	1.128	2.723	3460	575	500' 1000' Reels

<sup>1</sup> 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

<sup>2</sup> 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.

The above data is approximate and subject to manufacturing tolerances.

**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