

# Secondary URD Aluminum

XLPE Insulated, 600 V

**CME**<sup>®</sup>  
wire and cable

A Viakable Company

## Features

RUS accepted.

Single conductors are UL Listed as Type USE-2.

Excellent heat, ozone, oil and chemical resistance.

Resistant to tear and abrasion.

Suitable for direct burial.

## Application

Used for secondary distribution and underground service at 600 V or less.

May be used in ducts or direct burial.

## Standards

ICEA S-105-692

600 V Single Layer Thermoset Insulated Utility Underground Distribution Cable.

UL 854

Service-Entrance Cables.

## Specifications

Maximum operating voltage:

- 600 volts

Maximum conductor operation temperatures:

- 90 °C wet and dry

## Engineering Information

**1. Conductor:** Aluminum alloy 1350-H19, compressed Class B stranding, or unilay-compressed per ASTM B231.

*On request, AA-8000 series aluminum alloy per ASTM B800 and B801 or copper conductors.*

**2. Separator:** A suitable opaque tape, as required.

**3. Insulation:**

**Phase conductor:** Black thermoset cross-linked polyethylene (XLPE).

1  
2  
3

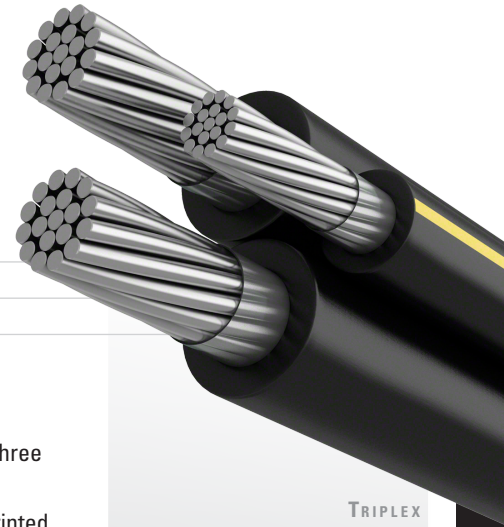
**Neutral conductor:** Black thermoset cross-linked polyethylene (XLPE), with three yellow extruded stripes.

**Conductor Phase ID:** Ink printed.

### Configurations

**Triplex:** Two black phase insulated conductors (A & B) and one neutral insulated conductor cabled together.

**Quadruplex:** Three black phase insulated conductors (A, B & C) and one neutral insulated conductor cabled together.



TRIPLEX



QUADRUPLEX

Technical Data

## Single

Code Word	Standard Packaging	Phase Conductor			Cable OD mil	XLPE Insulation	
		Size AWG or kcmil	Number of Strands	Insulation Thickness mil		Code Word Suffix	Net Weight lb/kft
Princeton	1000' reel	6	7	60	0.31	/XLP	45

The above data are approximate and subject to normal manufacturing tolerances. Other sizes available upon request.  
**Ampacities:** Refer to tables on page four.

## Triplex

Code Word	Standard Packaging	Phase Conductor			Neutral Conductor			Cable OD		XLPE Insulation	
		Size AWG or kcmil	Number of Strands	Insulation Thickness mil	Size AWG or kcmil	Number of Strands	Insulation Thickness mil	Single Phase in	Complete Cable in	Code Word Suffix	Net Weight lb/kft
Vassar	1000' reel	4	7	60	4	7	60	0.35	0.76	/XLP/EYS	198
Stephens	1000' reel	2	7	60	4	7	60	0.41	0.88	/XLP/EYS	257
Ramapo	1000' reel	2	7	60	2	7	60	0.41	0.88	/XLP/EYS	287
Brenau	1000' reel	1/0	19	80	2	7	60	0.53	1.14	/XLP/EYS	402
Bergen	500' or 1000' reel	1/0	19	80	1/0	19	80	0.53	1.14	/XLP/EYS	460
Converse	1000' reel	2/0	19	80	1	19	80	0.57	1.24	/XLP/EYS	500
Hunter	1000' or 1500' reel	2/0	19	80	2/0	19	80	0.57	1.24	/XLP/EYS	558
Hollins	1000' reel	3/0	19	80	1/0	19	80	0.62	1.34	/XLP/EYS	605
Sweetbriar	1000' reel	4/0	19	80	2/0	19	80	0.68	1.47	/XLP/EYS	738
Monmouth	1000' reel	4/0	19	80	4/0	19	80	0.68	1.47	/XLP/EYS	828
Pratt	1000' reel	250	37	95	3/0	19	80	0.76	1.63	/XLP/EYS	884
Wesleyan	1000' reel	350	37	95	4/0	19	80	0.86	1.85	/XLP/EYS	1156
Rider	1000' reel	500	37	95	350	37	95	0.99	2.13	/XLP/EYS	1647

The above data are approximate and subject to normal manufacturing tolerances. Other sizes available upon request.  
**Ampacities:** Refer to tables on page four.

\* At the option of manufacturer, Ground Conductor can be divided in three, one in each interstice.

## Quadruplex

Code Word	Part Number	Phase Conductor			Neutral Conductor			Cable OD		XLPE Insulation	
		Size AWG or kcmil	Number of Strands	Insulation Thickness mil	Size AWG or kcmil	Number of Strands	Insulation Thickness mil	Single Phase in	Complete Cable in	Code Word Suffix	Net Weight lb/kft
Tulsa	1500' reel	4	7	60	4	7	60	0.35	0.85	/XLP/EYS	263
Wittenberg	1000' reel	2	7	60	2	7	60	0.41	0.99	/XLP/EYS	382
Notre Dame	1000' or 1500' reel	1/0	19	80	2	7	60	0.53	1.28	/XLP/EYS	556
Syracuse	1000' reel	2/0	19	80	1	19	80	0.57	1.39	/XLP/EYS	686
Wake Forest	1000' reel	4/0	19	80	2/0	19	80	0.68	1.64	/XLP/EYS	1014
Rust	1000' reel	250	37	95	3/0	19	80	0.76	1.83	/XLP/EYS	1213
Slippery Rock	1000' reel	350	37	95	4/0	19	80	0.86	2.08	/XLP/EYS	1596
Wofford	1000' reel	500	37	95	350	37	95	0.99	2.39	/XLP/EYS	2251

The above data are approximate and subject to normal manufacturing tolerances. Other sizes available upon request.  
**Ampacities:** Refer to tables on page four.

\* At the option of manufacturer, Ground Conductor can be divided in three, one in each interstice.

**Technical Data** *continued*

**Cable Construction** Single, 2PLX, 3PLX and 4PLX

Conductor Size AWG/kcmil	Ampacity	
	75 °C (167 °F)	90 °C (194 °F)
12	20	25
10	30	35
8	40	45
6	50	55
4	65	75
3	75	85
2	90	100
1	100	115
1/0	120	135
2/0	135	150
3/0	155	175
4/0	180	205
250	205	230
300	230	260
350	250	280
400	270	305
500	310	350
600	340	385
700	375	425
750	385	435
800	395	445
900	425	480
1000	445	500
1250	485	545
1500	520	585
1750	545	615
2000	560	630

NEC Table 310.15(B)(16) (formerly Table 310.16) Allowable Ampacities of Insulated Conductors Rated Up to and Including 2000 V, 60 °C Through 90 °C (140 °F Through 194 °F), Not More Than Three Current-Carrying Conductors in Raceway, Cable, or Earth (Directly Buried), Based on Ambient Temperature of 30 °C (86 °F)

**Ampacity Data**

## Single

Conductor Size AWG/kcmil	Ampacity	
	In Ducts	Direct Burial
6	65	90

\* Conductor temperature of 90 °C; ambient temperature of 20 °C; RHO 90; 100% load factor for three conductor triplex, 3 phase operation.

## Triplex

Conductor Size AWG/kcmil	Ampacity	
	In Ducts	Direct Burial
8	55	70
6	70	95
4	90	125
2	120	165
1/0	160	215
2/0	180	245
3/0	205	280
4/0	240	315
350	320	415

\* Conductor temperature of 90 °C; ambient temperature of 20 °C; RHO 90; 100% load factor with neutral carrying only unbalanced load for triplex assemblies.

## Quadruplex

Conductor Size AWG/kcmil	Ampacity	
	In Ducts	Direct Burial
4	85	120
2	115	155
1/0	150	200
2/0	170	225
3/0	195	250
4/0	225	290
350	305	385

\* Conductor temperature of 90 °C; ambient temperature of 20 °C; RHO 90; 100% load factor with neutral carrying only unbalanced load.