

# Secondary URD / Ruggedized Aluminum

XLPE Insulated, 600 V

**CME**<sup>®</sup>  
wire and cable

A Viakable Company

## Features

Superior mechanical performance, for direct buried use.

Great ability to resist physical damage during shipping, handling, storage, installation and during operation.

Tougher and durable construction, to withstand damage from backfill, rough handling and sharp objects.

Single conductors are UL Listed as Type USE-2.

AA-8000 Series aluminum alloy conductor is available where increased flexibility is required.

## Application

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

May be used in ducts or direct burial.

## Standards

ICEA S-81-570

Standard for 600 V Cable of Ruggedized Design for Direct Burial Installations as Single Conductors or Assemblies of Single Conductors.

UL 854

Service-Entrance Cables.

## Specifications

Maximum operating voltage:

- 600 V

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, Aluminum alloy AA-8000 series, Class B stranding reversed compressed or unilay-compressed per ASTM B801.*

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

## 3. Insulation:

**Phase Conductor:** Black thermoset medium density cross-linked polyethylene (XLPE).

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

**Conductor Phase ID:** Ink printed.

**Option:** 2 layered insulation (XLPE/XLHDPE) system available upon request.

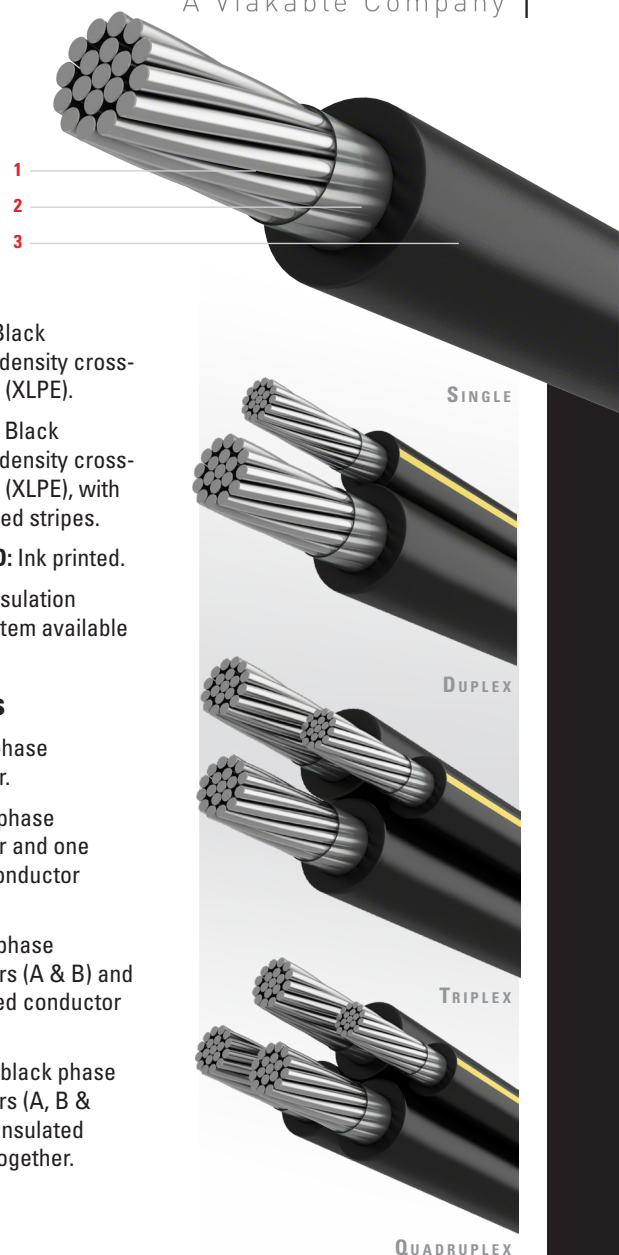
## Configurations

**Single:** One black phase insulated conductor.

**Duplex:** One black phase insulated conductor and one neutral insulated conductor cabled together.

**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.



Technical Data

# Single

Code Word	Phase Conductor				XLPE Insulation	
	Size AWG or kcmil	Number of Strands	Insulation Thickness	Cable OD	Code Word Suffix	Net Weight
			mil	mil		lb/kft
Princeton	6	7	60	0.31	/XLP/AR	46
Mercer	4	7	60	0.35	/XLP/AR	65
Clemson	2	7	60	0.41	/XLP/AR	94
Kenyon	1	19	80	0.49	/XLP/AR	127
Harvard	1/0	19	80	0.53	/XLP/AR	153
Yale	2/0	19	80	0.57	/XLP/AR	186
Tufts	3/0	19	80	0.62	/XLP/AR	225
Beloit	4/0	19	80	0.68	/XLP/AR	276
Hofstra	250	37	95	0.76	/XLP/AR	334
Gonzaga	300	37	95	0.81	/XLP/AR	390
Rutgers	350	37	95	0.86	/XLP/AR	447
Dartmouth	400	37	95	0.91	/XLP/AR	503
Brown	450	37	95	0.95	/XLP/AR	558
Emory	500	37	95	0.99	/XLP/AR	613
Duke	600	61	110	1.10	/XLP/AR	744
Furman	700	61	110	1.17	/XLP/AR	855
Sewanee	750	61	110	1.20	/XLP/AR	911
Fordham	1000	61	110	1.35	/XLP/AR	1183

The above data are approximate and subject to normal manufacturing tolerances. Other sizes available upon request.

**Ampacities:** Refer to beginning of section.

# Duplex

Code Word	Phase Conductor			Neutral Conductor			Cable OD		XLPE Insulation	
	Size AWG or kcmil	Number of Strands	Insulation Thickness	Size AWG or kcmil	Number of Strands	Insulation Thickness	Single Phase	Complete Cable	Code Word Suffix	Net Weight
			mil			mil	mil	in		lb/kft
Alcorn	8	1	60	8	1	60	0.25	0.50	/XLP/AR/EYS	63
Clafin	6	7	60	6	7	60	0.31	0.61	/XLP/AR/EYS	93
Delgado	4	1	60	4	7	60	0.35	0.70	/XLP/AR/EYS	132
Cedarcrest	2	7	60	4	7	60	0.41	0.82	/XLP/AR/EYS	161
Everett	2	7	60	2	7	60	0.41	0.82	/XLP/AR/EYS	191
Findlay	2/0	7	80	2/0	19	80	0.57	1.15	/XLP/AR/EYS	374
Hanover	4/0	19	80	4/0	19	80	0.68	1.36	/XLP/AR/EYS	556
Glenville	350	37	95	350	37	95	0.86	1.72	/XLP/AR/EYS	893

The above data are approximate and subject to normal manufacturing tolerances. Other sizes available upon request.

**Ampacities:** Refer to beginning of section.

Technical Data *continued*

# Triplex

Code Word	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 mil	Complete Cable in	Code Word Suffix	Net Weight lb/kft
Erskine	6	7	60	6	7	60	0.31	0.66	/XLP/AR/EYS	140
Vassar	4	7	60	4	7	60	0.35	0.76	/XLP/AR/EYS	198
Stephens	2	7	60	4	7	60	0.41	0.88	/XLP/AR/EYS	258
Ramapo	2	7	60	2	7	60	0.41	0.88	/XLP/AR/EYS	288
Grossmont	1	19	80	1	19	80	0.49	1.06	/XLP/AR/EYS	390
Brenau	1/0	19	80	2	7	60	0.53	1.14	/XLP/AR/EYS	408
Bergen	1/0	19	80	1/0	19	80	0.53	1.14	/XLP/AR/EYS	468
Fisk	2/0	19	80	2	7	60	0.57	1.24	/XLP/AR/EYS	475
Converse	2/0	19	80	1	19	80	0.57	1.24	/XLP/AR/EYS	509
Shaw	2/0	19	80	1/0	19	80	0.57	1.24	/XLP/AR/EYS	535
Hunter	2/0	19	80	2/0	19	80	0.57	1.24	/XLP/AR/EYS	568
Calvert	3/0	19	80	2	7	60	0.62	1.34	/XLP/AR/EYS	556
Chase	3/0	19	80	1	19	80	0.62	1.34	/XLP/AR/EYS	590
Hollins	3/0	19	80	1/0	19	80	0.62	1.34	/XLP/AR/EYS	616
Rockland	3/0	19	80	3/0	19	80	0.62	1.34	/XLP/AR/EYS	690
Coburn	4/0	19	80	1	19	80	0.68	1.47	/XLP/AR/EYS	692
Molloy	4/0	19	80	1/0	19	80	0.68	1.47	/XLP/AR/EYS	719
Sweetbriar	4/0	19	80	2/0	19	80	0.68	1.47	/XLP/AR/EYS	752
Monmouth	4/0	19	80	4/0	19	80	0.68	1.47	/XLP/AR/EYS	844
Aquinas	250	37	95	2/0	19	80	0.76	1.63	/XLP/AR/EYS	870
Pratt	250	37	95	3/0	19	80	0.76	1.63	/XLP/AR/EYS	910
Yeshiva	250	37	95	250	37	95	0.76	1.63	/XLP/AR/EYS	1021
Allen	300	37	95	2/0	19	80	0.81	1.75	/XLP/AR/EYS	986
Greenville	350	37	95	1/0	19	80	0.86	1.85	/XLP/AR/EYS	1067
Gloucester	350	37	95	3/0	19	80	0.86	1.85	/XLP/AR/EYS	1141
Wesleyan	350	37	95	4/0	19	80	0.86	1.85	/XLP/AR/EYS	1192
Newark	350	37	95	350	37	95	0.86	1.85	/XLP/AR/EYS	1367
Old Dominion	500	37	95	4/0	19	80	0.99	2.13	/XLP/AR/EYS	1532
Holyoke	500	37	95	300	37	95	0.99	2.13	/XLP/AR/EYS	1649
Rider	500	37	95	350	37	95	0.99	2.13	/XLP/AR/EYS	1707
Westchester	500	37	95	500	37	95	0.99	2.13	/XLP/AR/EYS	1877
Villanova	750	61	110	350	37	95	1.20	2.58	/XLP/AR/EYS	2314
Voorhees	750	61	110	450	37	95	1.20	2.58	/XLP/AR/EYS	2428
Fairfield	750	61	110	500	37	95	1.20	2.58	/XLP/AR/EYS	2484
Seton Hall	750	61	110	750	61	110	1.20	2.58	/XLP/AR/EYS	2788

The above data are approximate and subject to normal manufacturing tolerances. Other sizes available upon request.

**Ampacities:** Refer to beginning of section.

Technical Data *continued*

# Quadruplex

Code Word	Phase Conductor			Neutral Conductor			Cable OD		XLPE Insulation	
	Size AWG or kcmil	Number of Strands	Insulation Thickness	Size AWG or kcmil	Number of Strands	Insulation Thickness	Single Phase mil	Complete Cable in	Code Word Suffix	Net Weight
			mil			mil				lb/ft
Tulsa	4	7	60	4	7	60	0.35	0.85	/XLP/AR/EYS	264
Miami	2	7	60	6	7	60	0.41	0.99	/XLP/AR/EYS	334
Dyke	2	7	60	4	7	60	0.41	0.99	/XLP/AR/EYS	354
Wittenberg	2	7	60	2	7	60	0.41	0.99	/XLP/AR/EYS	383
Notre Dame	1/0	19	80	2	7	60	0.53	1.28	/XLP/AR/EYS	564
Purdue	1/0	19	80	1/0	19	80	0.53	1.28	/XLP/AR/EYS	622
Syracuse	2/0	19	80	1	19	80	0.57	1.39	/XLP/AR/EYS	696
Lafayette	2/0	19	80	2/0	19	80	0.57	1.39	/XLP/AR/EYS	754
Swarthmore	3/0	19	80	1/0	19	80	0.62	1.51	/XLP/AR/EYS	843
Davidson	3/0	19	80	3/0	19	80	0.62	1.51	/XLP/AR/EYS	915
McPherson	4/0	19	80	2	7	60	0.68	1.64	/XLP/AR/EYS	939
Doane	4/0	19	80	1/0	19	80	0.68	1.64	/XLP/AR/EYS	997
Wake Forest	4/0	19	80	2/0	19	80	0.68	1.64	/XLP/AR/EYS	1030
Earlham	4/0	19	80	4/0	19	80	0.68	1.64	/XLP/AR/EYS	1120
Rust	250	37	95	3/0	19	80	0.76	1.83	/XLP/AR/EYS	1246
Palomar	250	37	95	250	37	95	0.76	1.83	/XLP/AR/EYS	1350
None	336.4	37	95	336.4	37	95	0.87	2.09	/XLP/AR/EYS	1752
Susquehanna	350	37	95	4/0	19	80	0.86	2.08	/XLP/AR/EYS	1643
Pomona	350	37	95	350	37	95	0.86	2.08	/XLP/AR/EYS	1807
Morehouse	500	37	95	300	37	95	0.99	2.39	/XLP/AR/EYS	2261
Wofford	500	37	95	350	37	95	0.99	2.39	/XLP/AR/EYS	2317
Marshall	500	37	95	500	37	95	0.99	2.39	/XLP/AR/EYS	2480
Westminster	750	61	110	350	37	95	1.20	2.89	/XLP/AR/EYS	3228
Windham	750	61	110	500	37	95	1.20	2.89	/XLP/AR/EYS	3391
Tabor	750	61	110	750	61	110	1.20	2.89	/XLP/AR/EYS	3675

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