Secondary URD Aluminum

XLPE Insulated, 600 V

CME 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.

AA-8000 Series aluminum alloy conductor 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-105-692

600 V Single Layer Thermoset Insulated Utility Underground Distribution Cable.

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, 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).

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

Conductor Phase ID: Ink printed.

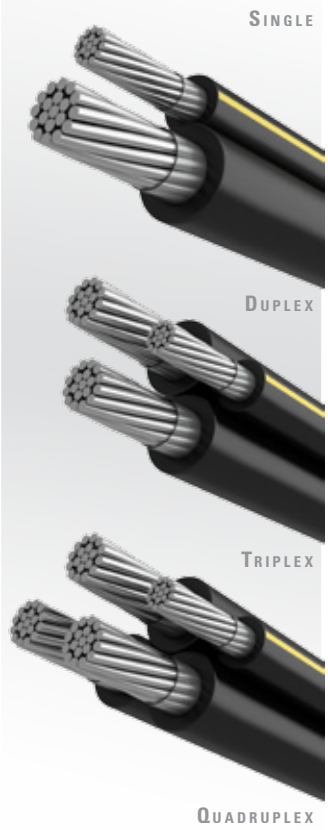
Configurations

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.



CME wire and cable
A Viakable Company

Technical Data

Single

Code Word	Phase Conductor				XLPE Insulation	
	Size AWG or kcmil	Number of Strands	Insulation Thickness mil	Cable OD mil	Code Word Suffix	Net Weight lb/kft
Princeton	6	7	60	0.31	/XLP	45
Mercer	4	7	60	0.35	/XLP	65
Clemson	2	7	60	0.41	/XLP	94
Kenyon	1	19	80	0.49	/XLP	125
Harvard	1/0	19	80	0.53	/XLP	150
Yale	2/0	19	80	0.57	/XLP	182
Tufts	3/0	19	80	0.62	/XLP	221
Beloit	4/0	19	80	0.68	/XLP	271
Hofstra	250	37	95	0.76	/XLP	323
Gonzaga	300	37	95	0.81	/XLP	377
Rutgers	350	37	95	0.86	/XLP	431
Dartmouth	400	37	95	0.91	/XLP	485
Brown	450	37	95	0.95	/XLP	539
Emory	500	37	95	0.99	/XLP	592
Duke	600	61	110	1.10	/XLP	711
Furman	700	61	110	1.17	/XLP	816
Sewanee	750	61	110	1.20	/XLP	870
Fordham	1000	61	110	1.35	/XLP	1129

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 mils	Size AWG or kcmil	Number of Strands	Insulation Thickness mil	Single Phase in	Complete Cable in	Code Word Suffix	Net Weight lb/kft
Alcorn	8	1	60	8	1	60	0.25	0.50	/XLP/EYS	62.2
Claflin	6	7	60	6	7	60	0.31	0.61	/XLP/EYS	92.8
Delgado	4	7	60	4	7	60	0.35	0.70	/XLP/EYS	131.7
Cedarcrest	2	7	60	4	7	60	0.41	0.82	/XLP/EYS	161.4
Everett	2	7	60	2	7	60	0.41	0.82	/XLP/EYS	191.2
Findlay	2/0	19	80	2/0	19	80	0.57	1.15	/XLP/EYS	372.0
Hanover	4/0	19	80	4/0	19	80	0.68	1.36	/XLP/EYS	552.1
Glenville	350	37	95	350	37	95	0.86	1.72	/XLP/EYS	880.2

The above data are approximate and subject to normal manufacturing tolerances. Other sizes available upon request.
Ampacities: Refer to beginning of section.

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 in	Complete Cable in	Code Word Suffix	Net Weight lb/kft
Erskine	6	7	60	6	7	60	0.31	0.66	/XLP/EYS	139
Vassar	4	7	60	4	7	60	0.35	0.76	/XLP/EYS	198
Stephens	2	7	60	4	7	60	0.41	0.88	/XLP/EYS	257
Ramapo	2	7	60	2	7	60	0.41	0.88	/XLP/EYS	287
Grossmont	1	19	80	1	19	80	0.49	1.06	/XLP/EYS	383
Brenau	1/0	19	80	2	7	60	0.53	1.14	/XLP/EYS	402
Bergen	1/0	19	80	1/0	19	80	0.53	1.14	/XLP/EYS	460
Fisk	2/0	19	80	2	7	60	0.57	1.24	/XLP/EYS	468
Converse	2/0	19	80	1	19	80	0.57	1.24	/XLP/EYS	500
Shaw	2/0	19	80	1/0	19	80	0.57	1.24	/XLP/EYS	525
Hunter	2/0	19	80	2/0	19	80	0.57	1.24	/XLP/EYS	558
Calvert	3/0	19	80	2	7	60	0.62	1.34	/XLP/EYS	547
Chase	3/0	19	80	1	19	80	0.62	1.34	/XLP/EYS	579
Hollins	3/0	19	80	1/0	19	80	0.62	1.34	/XLP/EYS	605
Rockland	3/0	19	80	3/0	19	80	0.62	1.34	/XLP/EYS	677
Coburn	4/0	19	80	1	19	80	0.68	1.47	/XLP/EYS	680
Molloy	4/0	19	80	1/0	19	80	0.68	1.47	/XLP/EYS	705
Sweetbriar	4/0	19	80	2/0	19	80	0.68	1.47	/XLP/EYS	738
Monmouth	4/0	19	80	4/0	19	80	0.68	1.47	/XLP/EYS	828
Aquinas	250	37	95	2/0	19	80	0.76	1.63	/XLP/EYS	844
Pratt	250	37	95	3/0	19	80	0.76	1.63	/XLP/EYS	884
Yeshiva	250	37	95	250	37	95	0.76	1.63	/XLP/EYS	987
Allen	300	37	95	2/0	19	80	0.81	1.75	/XLP/EYS	956
Greenville	350	37	95	1/0	19	80	0.86	1.85	/XLP/EYS	1034
Gloucester	350	37	95	3/0	19	80	0.86	1.85	/XLP/EYS	1106
Wesleyan	350	37	95	4/0	19	80	0.86	1.85	/XLP/EYS	1156
Newark	350	37	95	350	37	95	0.86	1.85	/XLP/EYS	1320
Old Dominion	500	37	95	4/0	19	80	0.99	2.13	/XLP/EYS	1483
Holyoke	500	37	95	300	37	95	0.99	2.13	/XLP/EYS	1592
Rider	500	37	95	350	37	95	0.99	2.13	/XLP/EYS	1647
Westchester	500	37	95	500	37	95	0.99	2.13	/XLP/EYS	1811
Villanova	750	61	110	350	37	95	1.20	2.58	/XLP/EYS	2215
Voorhees	750	61	110	450	37	95	1.20	2.58	/XLP/EYS	2324
Fairfield	750	61	110	500	37	95	1.20	2.58	/XLP/EYS	2379
Seton Hall	750	61	110	750	61	110	1.20	2.58	/XLP/EYS	2662

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 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	4	7	60	4	7	60	0.35	0.85	/XLP/EYS	263
Miami	2	7	60	6	7	60	0.41	0.99	/XLP/EYS	333
Dyke	2	7	60	4	7	60	0.41	0.99	/XLP/EYS	353
Wittenberg	2	7	60	2	7	60	0.41	0.99	/XLP/EYS	382
Notre Dame	1/0	19	80	2	7	60	0.53	1.28	/XLP/EYS	556
Purdue	1/0	19	80	1/0	19	80	0.53	1.28	/XLP/EYS	614
Syracuse	2/0	19	80	1	19	80	0.57	1.39	/XLP/EYS	686
Lafayette	2/0	19	80	2/0	19	80	0.57	1.39	/XLP/EYS	744
Swarthmore	3/0	19	80	1/0	19	80	0.62	1.51	/XLP/EYS	831
Davidson	3/0	19	80	3/0	19	80	0.62	1.51	/XLP/EYS	903
Mc Pherson	4/0	19	80	2	7	60	0.68	1.64	/XLP/EYS	924
Doane	4/0	19	80	1/0	19	80	0.68	1.64	/XLP/EYS	981
Wake Forest	4/0	19	80	2/0	19	80	0.68	1.64	/XLP/EYS	1014
Earlham	4/0	19	80	4/0	19	80	0.68	1.64	/XLP/EYS	1104
Rust	250	37	95	3/0	19	80	0.76	1.83	/XLP/EYS	1213
Palomar	250	37	95	250	37	95	0.76	1.83	/XLP/EYS	1316
Slippery Rock	350	37	95	4/0	19	80	0.86	2.08	/XLP/EYS	1596
Pomona	350	37	95	350	37	95	0.86	2.08	/XLP/EYS	1760
Morehouse	500	37	95	300	37	95	0.99	2.39	/XLP/EYS	2196
Wofford	500	37	95	350	37	95	0.99	2.39	/XLP/EYS	2251
Marshall	500	37	95	500	37	95	0.99	2.39	/XLP/EYS	2415
Westminster	750	61	110	350	37	95	1.20	2.89	/XLP/EYS	3102
Windham	750	61	110	500	37	95	1.20	2.89	/XLP/EYS	3266
Tabor	750	61	110	750	61	110	1.20	2.89	/XLP/EYS	3550

The above data are approximate and subject to normal manufacturing tolerances. Other sizes available upon request.
Ampacities: Refer to beginning of section.

Triplex AA - 8000 Series Aluminum Alloy Tri-Rated - USE-2/RHH/RHW-2

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 in	Complete Cable in	Code Word Suffix	Net Weight lb/kft
Erskine	6	7	60	6	7	60	0.31	0.66	/XLP/EYS	139
Vassar	4	7	60	4	7	60	0.35	0.76	/XLP/EYS	198
Stephens	2	7	60	4	7	60	0.41	0.88	/XLP/EYS	257
Ramapo	2	7	60	2	7	60	0.41	0.88	/XLP/EYS	287
Grossmont	1	19	80	1	19	80	0.49	1.06	/XLP/EYS	383
Brenau	1/0	19	80	2	7	60	0.53	1.14	/XLP/EYS	402
Bergen	1/0	19	80	1/0	19	80	0.53	1.14	/XLP/EYS	460
Fisk	2/0	19	80	2	7	60	0.57	1.24	/XLP/EYS	468
Converse	2/0	19	80	1	19	80	0.57	1.24	/XLP/EYS	500
Shaw	2/0	19	80	1/0	19	80	0.57	1.24	/XLP/EYS	525
Hunter	2/0	19	80	2/0	19	80	0.57	1.24	/XLP/EYS	558
Calvert	3/0	19	80	2	7	60	0.62	1.34	/XLP/EYS	547
Chase	3/0	19	80	1	19	80	0.62	1.34	/XLP/EYS	579
Hollins	3/0	19	80	1/0	19	80	0.62	1.34	/XLP/EYS	605
Rockland	3/0	19	80	3/0	19	80	0.62	1.34	/XLP/EYS	677
Coburn	4/0	19	80	1	19	80	0.68	1.47	/XLP/EYS	680
Molloy	4/0	19	80	1/0	19	80	0.68	1.47	/XLP/EYS	705
Sweetbriar	4/0	19	80	2/0	19	80	0.68	1.47	/XLP/EYS	738
Monmouth	4/0	19	80	4/0	19	80	0.68	1.47	/XLP/EYS	828
Aquinas	250	37	95	2/0	19	80	0.76	1.63	/XLP/EYS	844
Pratt	250	37	95	3/0	19	80	0.76	1.63	/XLP/EYS	884
Yeshiva	250	37	95	250	37	95	0.76	1.63	/XLP/EYS	987
Allen	300	37	95	2/0	19	80	0.81	1.75	/XLP/EYS	956
Greenville	350	37	95	1/0	19	80	0.86	1.85	/XLP/EYS	1034
Gloucester	350	37	95	3/0	19	80	0.86	1.85	/XLP/EYS	1106
Wesleyan	350	37	95	4/0	19	80	0.86	1.85	/XLP/EYS	1156
Newark	350	37	95	350	37	95	0.86	1.85	/XLP/EYS	1320
Old Dominion	500	37	95	4/0	19	80	0.99	2.13	/XLP/EYS	1483
Holyoke	500	37	95	300	37	95	0.99	2.13	/XLP/EYS	1592
Rider	500	37	95	350	37	95	0.99	2.13	/XLP/EYS	1647
Westchester	500	37	95	500	37	95	0.99	2.13	/XLP/EYS	1811
Villanova	750	61	110	350	37	95	1.20	2.58	/XLP/EYS	2215
Voorhees	750	61	110	450	37	95	1.20	2.58	/XLP/EYS	2324
Fairfield	750	61	110	500	37	95	1.20	2.58	/XLP/EYS	2379
Seton Hall	750	61	110	750	61	110	1.20	2.58	/XLP/EYS	2662

The above data are approximate and subject to normal manufacturing tolerances. Other sizes available upon request.
Nominal dimensions are based on compressed stranded conductors.
Ampacities: Refer to beginning of section.

Technical Data *continued*

Quadruplex AA - 8000 Series Aluminum Alloy Tri-Rated - USE-2/RHH/RHW-2

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 in	Complete Cable in	Code Word Suffix	Net Weight lb/kft
Tulsa	4	7	60	4	7	60	0.35	0.85	/XLP/EYS	263
Miami	2	7	60	6	7	60	0.41	0.99	/XLP/EYS	333
Dyke	2	7	60	4	7	60	0.41	0.99	/XLP/EYS	353
Wittenberg	2	7	60	2	7	60	0.41	0.99	/XLP/EYS	382
Notre Dame	1/0	19	80	2	7	60	0.53	1.28	/XLP/EYS	556
Purdue	1/0	19	80	1/0	19	80	0.53	1.28	/XLP/EYS	614
Syracuse	2/0	19	80	1	19	80	0.57	1.39	/XLP/EYS	686
Lafayette	2/0	19	80	2/0	19	80	0.57	1.39	/XLP/EYS	744
Swarthmore	3/0	19	80	1/0	19	80	0.62	1.51	/XLP/EYS	831
Davidson	3/0	19	80	3/0	19	80	0.62	1.51	/XLP/EYS	903
Mc Pherson	4/0	19	80	2	7	60	0.68	1.64	/XLP/EYS	924
Doane	4/0	19	80	1/0	19	80	0.68	1.64	/XLP/EYS	981
Wake Forest	4/0	19	80	2/0	19	80	0.68	1.64	/XLP/EYS	1014
Earlham	4/0	19	80	4/0	19	80	0.68	1.64	/XLP/EYS	1104
Rust	250	37	95	3/0	19	80	0.76	1.83	/XLP/EYS	1213
Palomar	250	37	95	250	37	95	0.76	1.83	/XLP/EYS	1316
Slippery Rock	350	37	95	4/0	19	80	0.86	2.08	/XLP/EYS	1596
Pomona	350	37	95	350	37	95	0.86	2.08	/XLP/EYS	1760
Morehouse	500	37	95	300	37	95	0.99	2.39	/XLP/EYS	2196
Wofford	500	37	95	350	37	95	0.99	2.39	/XLP/EYS	2251
Marshall	500	37	95	500	37	95	0.99	2.39	/XLP/EYS	2415
Westminster	750	61	110	350	37	95	1.20	2.89	/XLP/EYS	3102
Windham	750	61	110	500	37	95	1.20	2.89	/XLP/EYS	3266
Tabor	750	61	110	750	61	110	1.20	2.89	/XLP/EYS	3550

The above data are approximate and subject to normal manufacturing tolerances. Other sizes available upon request.
Nominal dimensions are based on compressed stranded conductors.
Ampacities: Refer to beginning of section.