



Underground Distribution Aluminum Conductor 600v Secondary Type XLP UD Cable



APPLICATIONS

Underground Secondary Distribution Cables may be used for service entrance applications at 600 volts or less. They may be either directly buried or installed in ducts, in either wet or dry locations. These cables are designed to operate at a conductor temperature not exceeding 90°C for normal operation, 130°C for emergency overloads, and 250°C under short circuit conditions. Specially suited for applications requiring superior resistance to abrasion, scoring and crushing.

SPECIFICATIONS

All Aluminum Secondary Distribution Conductors meet or exceed all applicable requirements of the following standards:

- ANSI/ICEA S-105-692 (2000), Standard for 600 Volts Single Layer Thermoset Insulated Utility Underground Distribution Cables.
- ASTM B231, Specification for Concentric-Lay-Stranded Aluminum 1350 Conductors.
- UL Standards 854, Service-Entrance Cables (Type USE).

CONSTRUCTION

Phase Conductor:	Bare aluminum 1350-H19, class B concentric lay stranded.
Neutral Conductor:	Bare aluminum 1350-H19, class B concentric lay stranded.
Phase Insulation:	The standard insulation on the phase conductor(s) is black low-density cross-linked polyethylene (XLPE).
Neutral Insulation:	The Standard Insulation on the neutral conductor is a black low-density Crosslinked polyethylene with three continuous extruded yellow stripes, located 120° apart.

OPTIONS

- Phase Conductor Insulation: Also available upon request; black linear low-density Polyethylene LLDPE insulation with a 75°C temperature rating.
- Neutral Conductor Insulation: Also available upon request, are
 - Black low-density crosslinked polyethylene.
 - Yellow low-density cross-linked polyethylene

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SINGLE ALUMINUM CONDUCTOR

Code Word	Phase Conductor		Neutral		Complete Cable			Allowable Ampacity* (Amps)
	Size (AWG/Number of wires)	Insulation Thickness (mils)	Size (AWG/Stranding)	Insulation Thickness (mils)	Overall Diameter (Inch)	Aluminum Weight (lbs./1000ft)	Net Weight (lbs./1000ft)	
PRINCETON/XLP	6 (7)	60	NA	NA	0.298	25	44	108
MERCER/XLP	4 (7)	60	NA	NA	0.345	39	63	140
CLEMSON/XLP	2 (7)	60	NA	NA	0.403	62	92	180
KENYON/XLP	1 (19)	80	NA	NA	0.473	78	121	203
HARVARD/XLP	1/0 (19)	80	NA	NA	0.512	99	146	231
YALE/XLP	2/0 (19)	80	NA	NA	0.555	125	177	263
TUFTS/XLP	3/0 (19)	80	NA	NA	0.603	157	215	299
BELOIT/XLP	4/0 (19)	80	NA	NA	0.658	198	263	338
HOFSTRA/XLP	250 (37)	95	NA	NA	0.732	234	314	368
GONZAGA/XLP	300 (37)	95	NA	NA	0.784	281	367	407
RUTGERS/XLP	350 (37)	95	NA	NA	0.831	328	420	444
DARTMOUTH/XLP	400 (37)	95	NA	NA	0.875	376	476	475
EMORY/XLP	500 (37)	95	NA	NA	0.956	469	577	540
DUKE/XLP	600 (61)	110	NA	NA	1.060	562	697	595
FURMAN/XLP	700 (61)	110	NA	NA	1.127	656	804	645
SEWANEE/XLP	750 (61)	110	NA	NA	1.159	703	853	667
FORDHAM/XLP	1000 (61)	110	NA	NA	1.304	937	1108	800

DUPLEX ALUMINUM CONDUCTOR

Code Word	Phase Conductor		Neutral		Complete Cable			Allowable Ampacity* (Amps)
	Size (AWG/Number of wires)	Insulation Thickness (mils)	Size (AWG/Stranding)	Insulation Thickness (mils)	Overall Diameter (Inch)	Aluminum Weight (lbs./1000ft)	Net Weight (lbs./1000ft)	
BARD/XLP	8 (7)	60	8 (7)	60	0.524	30	76	70
CLAFLIN/XLP	6 (7)	60	6 (7)	60	0.596	49	91	95
DELGADO/XLP	4 (7)	60	4 (7)	60	0.690	79	129	125
EVERETT/XLP	2 (7)	60	2 (7)	60	0.806	125	189	187

* Based on 90°C conductor temperature, 20° C ambient temperature, RHO 90, 100% load factor.
For other conditions, refer to NEC's latest edition.

Note:

Overall Diameter is the approximate circumscribed diameter of the assembly.
Other sizes and/or code names are available upon request.



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TRIPLEX ALUMINUM CONDUCTOR

Code Word	Phase Conductor		Neutral		Complete Cable			Allowable Ampacity* (Amps)
	Size (AWG/Number of wires)	Insulation Thickness (mils)	Size (AWG/Stranding)	Insulation Thickness (mils)	Overall Diameter (Inch)	Aluminum Weight (lbs./1000ft)	Net Weight (lbs./1000ft)	
ERSKINE	6 (7)	60	6 (7)	60	0.642	74	133	100
VASSAR	4 (7)	60	4 (7)	60	0.742	118	191	130
STEPHENS	2 (7)	60	4 (7)	60	0.830	164	248	168
RAMAPO	2 (7)	60	2 (7)	60	0.867	187	277	168
BRENAU	1/0 (19)	80	2 (7)	60	1.039	261	385	219
BERGEN	1/0 (19)	80	1/0 (19)	80	1.103	298	439	219
CONVERSE	2/0 (19)	80	1 (19)	80	1.144	330	476	249
HUNTER	2/0 (19)	80	2/0 (19)	80	1.196	376	533	249
HOLLINS	3/0 (19)	80	1/0 (19)	80	1.241	415	578	284
ROCKLAND	3/0 (19)	80	3/0 (19)	80	1.299	474	647	284
SWEETBRIAR	4/0 (19)	80	2/0 (19)	80	1.352	524	705	322
MONMOUTH	4/0 (19)	80	4/0 (19)	80	1.418	598	792	322
PRATT	250 (37)	95	3/0 (37)	80	1.497	629	847	356
WESLEYAN	350 (37)	95	4/0 (37)	80	1.687	859	1109	431
RIDER	500 (37)	95	350 (37)	95	1.978	1271	1583	525
WESTCHESTER	500 (37)	95	500 (37)	95	2.060	1412	1740	525
FAIRFIELD	750 (61)	110	500 (61)	95	2.371	1884	2294	615

* Based on 90°C conductor temperature, 20° C ambient temperature, RHO 90, 100% load factor.
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QUADRUPLEX ALUMINUM CONDUCTOR

Code Word	Phase Conductor		Neutral		Complete Cable			Allowable Ampacity* (Amps)
	Size (AWG/Number of wires)	Insulation Thickness (mils)	Size (AWG/Stranding)	Insulation Thickness (mils)	Overall Diameter (Inch)	Aluminum Weight (lbs./1000ft)	Net Weight (lbs./1000ft)	
TULSA/XLP	4 (7)	60	4 (7)	60	0.833	157	254	119
DYKE/XLP	2 (7)	60	4 (7)	60	0.938	227	341	153
WITTENBERG/XLP	2 (7)	60	2 (7)	60	0.973	250	370	153
NOTRE DAME/XLP	1/0 (19)	80	2 (7)	60	1.176	361	532	198
PURDUE/XLP	1/0 (19)	80	1/0 (19)	80	1.236	397	586	198
SYRACUSE/XLP	2/0 (19)	80	1 (19)	80	1.293	455	654	226
LAFAYETTE/XLP	2/0 (19)	80	2/0 (19)	80	1.340	502	710	226
SWARTHMORE/XLP	3/0 (19)	80	1/0 (19)	80	1.404	574	794	257
DAVIDSON/XLP	3/0 (19)	80	3/0 (19)	80	1.456	632	863	257
WAKE FOREST/XLP	4/0 (19)	80	2/0 (19)	80	1.530	724	969	291
EARLHAM/XLP	4/0 (19)	80	4/0 (19)	80	1.589	798	1056	291
RUST/XLP	250 (37)	95	3/0 (19)	80	1.695	865	1162	319
SLIPPERY ROCK/XLP	350 (37)	95	4/0 (19)	80	1.910	1181	1531	385
NIAGARA/XLP	350 (37)	95	350 (37)	95	2.006	1318	1690	385
WOFFORD/XLP	500 (37)	95	350 (37)	95	2.237	1742	2163	467

* Based on 90°C conductor temperature, 20° C ambient temperature, RHO 90, 100% load factor.
For other conditions, refer to NEC's latest edition.

Note:

Overall Diameter is the approximate circumscribed diameter of the assembly.
Other sizes and/or code names are available upon request.