

600 Volts. Aluminum Conductors. Cross-linked Polyethylene (XLPE) Insulated



APPLICATIONS

URD with single conductors, duplex construction single-rated USE-2 cables, triplex construction, quadruplex construction, XLPE insulated cables are suitable for underground service entrance applications and in raceways for general purpose lighting and power circuits. URD conductors can also be installed on both sides of the service point and when the service point is located inside building envelope. For applications not exceeding 600 volts. May be used for NEC applications, as well as non-NEC applications including direct burial, or for installation in ducts or conduits. For wet or dry locations not exceeding 90 °C for normal operation, 130 °C for emergency overloads, and 250 °C under short circuit conditions.

STANDARDS

URD cables meets the requirements

- ASTM B-230, B-231
- ICEA S-105-692
- UL 854 for Type USE-2

CONSTRUCTION

- Conductor
 - Concentric stranded or compressed 1350-H19 aluminum
- Insulation
 - Cross-linked polyethylene (XLPE) insulation material
 - Temperature of 90 °C in wet and dry location
 - Black XLPE insulation on phase conductors, yellow XLPE insulation on neutrals

TECHNICAL PARAMETER LIST

Single Conductor 600 Volt Secondary Type URD Cable - Aluminum Conductor

Code Word	Conductor	Nominal Insulation Thickness	Approx. O.D.	Estimated weight		Ampacity directly
				lbs/1000ft		
	Size	Mils	Inches	Aluminum	Total	Buried
Princeton	6	60	0.298	25	44	108
Mercer	4	60	0.345	39	63	140
Clemson	2	60	0.403	62	92	180
Kenyon	1	80	0.473	78	121	203
Harvard	1/0	80	0.512	99	146	231
Yale	2/0	80	0.555	125	177	263
Tufts	3/0	80	0.603	157	215	299
Beloit	4/0	80	0.658	198	263	338
Hofstra	250	95	0.732	234	314	368
Gonzaga	300	95	0.784	281	367	407
Rutgers	350	95	0.831	328	420	444
Dartmouth	400	95	0.875	376	476	475
Emory	500	95	0.956	469	577	540
Duke	600	110	1.06	562	697	595
Furman	700	110	1.127	656	804	645
Sewanee	750	110	1.159	703	853	667

Code Word	Conductor	Nominal Insulation Thickness	Approx. O.D.	Estimated weight		Ampacity directly
				lbs/1000ft		
	Size	Mils	Inches	Aluminum	Total	Buried
Fordham	1000	110	1.304	937	1108	800

Duplex Conductor 600 Volt Secondary Type URD Cable - Aluminum Conductor

Code Word	Phase Conductor			Neutral			Single Phase Conductor (in.)	Outside Diameter (in.)	Weight per 1000 ft. (lbs)	Ampacity (Amps)	
	Size AWG	Strand	Insulation Thickness (mils)	Size AWG	Strand	Insulation Thickness (mils)				Direct Burial	In Duct
Bard	8	7	60	8	7	60	0.262	0.524	76	70	70
Claflin	6	7	60	6	7	60	0.299	0.596	91	95	70
Delgado	4	7	60	4	7	60	0.345	0.69	129	125	90
Everett	2	7	60	2	7	60	0.403	0.8	189	187	100

Triplex Conductor 600 Volt Secondary Type URD Cable - Aluminum Conductor

Code Word	Phase Conductor			Neutral			Single Phase Conductor (in.)	Outside Diameter (in.)	Weight per 1000 ft. (lbs)	Ampacity (Amps)	
	Size AWG	Strand	Insulation Thickness (mils)	Size AWG	Strand	Insulation Thickness (mils)				Direct Burial	In Duct
Erskine	6	7	60	6	7	60	0.299	0.646	143	95	70
Vassar	4	7	60	4	7	60	0.345	0.754	203	125	90
Stephens	2	7	60	4	7	60	0.403	0.842	264	165	120
Ramapo	2	7	60	2	7	60	0.403	0.874	294	165	120
Brenau	1/0	19	80	2	7	60	0.522	1.064	408	215	160
Bergen	1/0	19	80	1/0	19	80	0.522	1.133	465	215	180
Converse	2/0	19	80	1	19	80	0.566	1.174	502	245	180
Hunter	2/0	19	80	2/0	19	80	0.566	1.228	560	245	180
Hollins	3/0	19	80	1/0	19	80	0.616	1.276	608	280	205
Rockland	3/0	19	80	3/0	19	80	0.616	1.276	640	280	205
Sweetbriar	4/0	19	80	2/0	19	80	0.672	1.389	739	315	240
Monmouth	4/0	19	80	4/0	19	80	0.672	1.457	828	315	240
Pratt	250	37	95	3/0	19	80	0.748	1.538	893	345	265
Wesleyan	350	37	95	4/0	19	80	0.851	1.736	1166	415	320
Newark	350	37	95	350	37	95	0.851	1.810	1266	415	320
Holyoke	500	37	95	300	37	95	0.979	2.035	1528	495	395
Rider	500	37	95	350	37	95	0.979	2.035	1663	495	395
Westchester	500	37	95	500	37	95	0.979	2.035	1739	495	395
Fairfield	750	61	110	500	37	95	1.128	2.405	2300	615	525

Quadruplex Conductor 600 Volt Secondary Type URD Cable - Aluminum Conductor

Code Word	Phase Conductor			Neutral			Outside Diameter (in.)	Weight per 1000 ft. (lbs)	Ampacity (Amps) Neutral	
	Size AWG	Strand	Insulation Thickness (Mils)	Size	Strand AWG	Insulation Thickness (Mils)			Direct Burial	In Duct
Tulsa	4	7	60	4	7	60	0.893	258	119	85
Dyke	2	7	60	4	7	60	0.938	346	153	115
Wittenberg	2	7	60	2	7	60	0.973	375	153	115
Notre Dame	1/0	19	80	2	7	60	1.188	541	198	150
Purdue	1/0	19	80	1/0	19	80	1.188	600	198	150
Syracuse	2/0	19	80	1	19/w	80	1.316	664	225	170
Lafayette	2/0	19	80	2/0	19	80	1.316	704	225	170
Swarthmore	3/0	19	80	1/0	19	80	1.487	798	250	195
Davidson	3/0	19	80	3/0	19/w	80	1.487	874	250	195
Wake Forest	4/0	19	80	2/0	19/w	80	1.56	979	290	225
Earlham	4/0	19	80	4/0	19/w	80	1.623	1066	290	225
Rust	250	37	95	3/0	19/w	80	1.76	1203	325	210
Slippery Rock	350	37	95	4/0	19/w	80	1.945	1544	385	305
Niagara	350	37	95	350	37	95	1.945	1720	385	305
Wofford	500	37	95	350	37/w	95	2.348	2174	467	420
Marshall	500	37	95	500	37	95	2.348	2332	467	420
Windham	750	61	110	500	37/w	95	2.85	3147	615	492
Tabor	750	61	110	750	61	110	2.85	3460	615	492