

Quadruplex Aluminum Conductor 600V URD



APPLICATION:

Quadruplex Aluminum 600V URD cable is designed for use in secondary distribution circuits, where installed in duct or direct burial applications. Maximum operating temperature is not to exceed 90°C in wet and dry locations. Voltage rating is 600 volts. As an option, this cable can be provided pre-pulled into duct (CIC), ruggedized, and with ridged phase ID.

CONDUCTORS:

- Concentric stranded or compressed 1350-H19 series aluminum conductor

INSULATION:

- Phase Conductors - Black sunlight resistant cross-linked polyethylene (XLP) insulation
- Neutral Conductors - Black XLP with 3 extruded yellow stripes

ASSEMBLY:

- Three phase conductors and the neutral are cabled together, with surface printing for identification. The neutral conductor has a yellow stripe and sequential footage markings.

STANDARDS:

- ASTM B-230 Aluminum 1350-H19 Wire for Electrical Purposes
- ASTM B-231 Concentric-Lay-Stranded Aluminum 1350 Conductors
- ASTM B-609 Aluminum 1350 Round Wire, Annealed and Intermediate Tempers, for Electrical Purposes
- ASTM B-901 Compressed Round Stranded Aluminum Conductors Using Single Input Wire Construction
- ICEA S-105-692 600 Volt Single Layer Thermoset Insulated Utility Underground Distribution Cables
- Federal Specification A-A-59544A
- UL 854 Service-Entrance Cables, Sunlight Resistant
- Type USE-2
- RUS Accepted

Code Word	Phase Conductors			Neutral			Diameter		Weight lbs/ft	Ampacity**	
	Size	No. of Strands	Insulation Thickness inches	Size	No. of Strands	Insulation Thickness inches	Single Phase Conductor	Complete Cable		Direct Burial	In Duct
	AWG			AWG			inches	inches		amps	amps
Tulsa	4*	7	0.060	4	7	0.060	0.35	0.83	269	120	85
Dyke	2	7	0.060	4	7	0.060	0.40	0.97	359	155	115
Wittenberg	2	7	0.060	2	7	0.060	0.40	0.97	389	155	115
Notre Dame	1/0	19	0.080	2	7	0.060	0.51	1.24	560	200	150
Purdue	1/0	19	0.080	1/0	19	0.080	0.51	1.24	617	200	150
Syracuse	2/0	19	0.080	1	19	0.080	0.56	1.34	687	225	170
Lafayette	2/0	19	0.080	2/0	19	0.080	0.56	1.34	745	225	170
Swarthmore	3/0	19	0.080	1/0	19	0.080	0.60	1.46	832	250	195
Davidson	3/0	19	0.080	3/0	19	0.080	0.60	1.46	903	250	195
Wake Forest	4/0	19	0.080	2/0	19	0.080	0.66	1.59	1,012	290	225
Earlham	4/0	19	0.080	4/0	19	0.080	0.66	1.59	1,101	290	225
Rust	250	37	0.095	3/0	19	0.080	0.75	1.81	1,215	320	250
Slippery Rock	350	37	0.095	4/0	19	0.080	0.85	2.05	1,598	385	305
Niagara	350	37	0.095	350	37	0.095	0.85	2.08	1,695	385	305
Wofford	500	37	0.095	350	37	0.095	0.98	2.35	2,174	465	370
Windham	750	61	0.110	500	37	0.095	1.19	2.78	3,305	580	470

All values are nominal and subject to correction.

*Not RUS accepted size

**Ampacity: 90°C conductor temperature, 20°C ambient temperature, RHO 90, 100% load factor. Single and Quadruplex based on 3/C. Neutral wire carries unbalanced load only. Reference NEC article 310.15 for NEC installations.



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