

Triplex Aluminum Conductor 600V URD



APPLICATION:

Triplex 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.

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:

- Two 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/kft	Ampacity**	
	Size	No. of Strands*	Insulation Thickness inches	Size	No. of Strands	Insulation Thickness inches	Single Phase Conductor inches	Complete Cable inches		Direct Burial amps	In Duct amps
	AWG/kcmil			AWG/kcmil							
Erskine	6	7	0.060	6	7	0.060	0.30	0.64	143	95	70
Vassar	4	7	0.060	4	7	0.060	0.35	0.75	202	125	90
Stephens	2	7	0.060	4	7	0.060	0.40	0.87	262	165	120
Ramapo	2	7	0.060	2	7	0.060	0.40	0.87	292	165	120
Brenau	1/0	19	0.080	2	7	0.060	0.51	1.11	406	215	160
Bergen	1/0	19	0.080	1/0	19	0.080	0.51	1.11	463	215	160
Converse	2/0	19	0.080	1	19	0.080	0.56	1.20	501	245	180
Hunter	2/0	19	0.080	2/0	19	0.080	0.56	1.20	559	245	180
Hollins	3/0	19	0.080	1/0	19	0.080	0.60	1.30	606	280	205
Rockland	3/0	19	0.080	3/0	19	0.080	0.60	1.30	677	280	205
Sweetbriar	4/0	19	0.080	2/0	19	0.080	0.66	1.42	737	315	240
Monmouth	4/0	19	0.080	4/0	19	0.080	0.66	1.42	826	315	240
Pratt	250	37	0.095	3/0	19	0.080	0.75	1.62	888	345	265
Wesleyan	350	37	0.095	4/0	19	0.080	0.85	1.84	1,157	415	320
Holyoke	500	37	0.095	300	37	0.095	0.98	2.12	1,591	495	395
Rider	500	37	0.095	350	37	0.095	0.98	2.12	1,646	495	395
Fairfield	750	61	0.110	500	37	0.095	1.19	2.40	2,289	620	495

All values are nominal and subject to correction.

*Actual number of wires may differ for compressed round stranded aluminum conductors using single input wire (SIW)

**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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