

Triplex Aluminum 8000 Series Conductor

600V URD



APPLICATION:

Aluminum 8000 Series 600V URD cable is designed for use in secondary distribution circuits, where installed in duct or direct burial applications, where increased flexibility is needed. The conductors are rated Type RHH/RHW-2 or USE-2. 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:

- Compact bare AA-8000 series aluminum alloy, Class B stranded per ASTM

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:

- UL 44 Thermoset-Insulated Wires and Cables
- UL 854 Service-Entrance Cables
- ASTM B800 8000 Series Aluminum Alloy Wire for electrical Purposes-Annealed and Intermediate Tempers
- ASTM B801 Concentric-Lay-Stranded Conductors of 8000 Series Aluminum Alloy for Subsequent Covering or Insulation
- ASTM B901 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 Cable and Wire, Electrical
- RUS Accepted

Code Word	Phase Conductors			Neutral			Diameter		Weight lbs/kft	Ampacity*	
	Size	No. of Strands	Insulation Thickness	Size	No. of Strands	Insulation Thickness	Single Phase Conductor	Complete Cable		Direct Burial	In Duct
	AWG/kcmil		inches	AWG/kcmil		inches	inches	lbs/kft		amps	amps
Vassar	4	7	0.060	4	7	0.060	0.35	0.75	202	125	85
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
Converse	2/0	19	0.080	1	19	0.080	0.56	1.20	501	245	180
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

All values are nominal and subject to correction

*Ampacity: 90°C conductor temperature, 20°C ambient temperature, RHO 90, 100% load factor. Neutral carries unbalanced load only.



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