

Duplex Aluminum Conductor 600V URD



APPLICATION:

Duplex 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:

- Conductors 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
- RUS Accepted

Code Word	Phase Conductors			Neutral			Diameter		Weight	Ampacity*	
	Size	No. of Strands	Insulation Thickness	Size	No. of Strands	Insulation Thickness	Single Phase Conductor	Complete Cable		Direct Burial	In Duct
	AWG		inches	AWG		inches	inches	inches	lbs/kft		
Bard	8	7	0.060	8	7	0.060	0.26	0.52	69	70	55
Clafin	6	7	0.060	6	7	0.060	0.30	0.60	95	95	70
Delgado	4	7	0.060	4	7	0.060	0.35	0.69	135	125	90
Everett	2	7	0.060	2	7	0.060	0.40	0.80	189	165	120

All values are nominal and subject to correction.

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

