

Duplex Service Drop Aluminum Conductor



APPLICATION:

Duplex Service Drop Aluminum Conductor cable is designed for use to supply 120 volt aerial service for temporary service at construction sites, outdoor or street lighting. For service at 600 volts or lower at a conductor temperature of 75°C maximum for polyethylene insulation or 90°C maximum for cross linked insulation.

CONDUCTORS:

- Concentric strand or compressed 1350-H19 series aluminum conductor

MESSENGER:

- Concentric strand AAC, ACSR, or AAAC 6201 alloy neutral messenger

INSULATION:

- Black cross linked polyethylene (XLP) insulation. Polyethylene (PE) insulation is available upon request.

STANDARDS:

- ASTM B-230 Aluminum 1350–H19 Wire for Electrical Purposes
- ASTM B-231 Concentric-Lay-Stranded Aluminum 1350 Conductors
- ASTM B-232 Concentric-Lay-Stranded Aluminum Conductors, Coated-Steel Reinforced (ACSR)
- ASTM B-399 Concentric-Lay-Stranded Aluminum-Alloy 6201-T81 Conductors
- ICEA S-76-474 Neutral-Supported Power Cable Assemblies with Weather-Resistant Extruded Insulation Rated 600 Volts
- RUS Accepted

Code Word	Phase Conductors			Bare Neutral Messenger			Completed Cable			Ampacity**	
	Size AWG/kcmil	Strand	Insulation Thickness inches	Size AWG/kcmil	Strand*	Breaking Strength lbs	Diameter inches	Weight		XLP 90 ° C amps	Poly 75 ° C amps
								XLP lbs/kft	Poly lbs/kft		
AAC NEUTRAL MESSENGER											
Pekingese	6	Solid	0.045	6	7/w	563	0.44	64	62	85	70
Collie	6	7/w	0.045	6	7/w	563	0.46	69	63	85	70
Dachshund	4	Solid	0.045	4	7/w	881	0.53	96	93	115	90
Spaniel	4	7/w	0.045	4	7/w	881	0.56	101	95	115	90
Doberman	2	7/w	0.045	2	7/w	1,350	0.68	153	146	150	120
Malamute	1/0	19/w	0.060	1/0	7/w	1,990	0.87	243	234	205	160
ACSR NEUTRAL MESSENGER											
Setter	6	Solid	0.045	6	6/1	1,190	0.46	75	73	85	70
Shepherd	6	7/w	0.045	6	6/1	1,190	0.48	78	75	85	70
Eskimo	4	Solid	0.045	4	6/1	1,860	0.55	114	112	115	90
Terrier	4	7/w	0.045	4	6/1	1,860	0.58	119	114	115	90
Chow	2	7/w	0.045	2	6/1	2,850	0.70	182	175	150	120
Bull	1/0	19/w	0.060	1/0	6/1	4,380	0.90	289	280	205	160

All values are nominal and subject to correction

*Designated sizes are ACSR 6/1, diameter, equivalent resistivity per ASTM B399 for 6201.

**Conductor temperature of 90°C for XLP, 75°C for Poly; ambient temperature of 40°C, emissivity 0.9; 2ft/sec. wind in sun.

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	Size	Strand	Insulation Thickness	Size	Strand*	Breaking Strength	Diameter	Weight		XLP 90 °C amps	Poly 75 °C amps
	AWG/kcmil		inches	AWG/kcmil				XLP lbs/kft	Poly lbs/kft		
6201 ALLOY NEUTRAL MESSENGER											
Chihuahua	6	Solid	0.045	6	7/w	1,110	0.46	68	66	85	70
Vizsla	6	7/w	0.045	6	7/w	1,110	0.48	71	67	85	70
Harrier	4	Solid	0.045	4	7/w	1,760	0.55	102	100	115	90
Whippet	4	7/w	0.045	4	7/w	1,760	0.58	107	102	115	90
Schnauzer	2	7/w	0.045	2	7/w	2,800	0.70	163	156	150	120
Heeler	1/0	19/w	0.060	1/0	7/w	4,460	0.90	1259	251	205	160

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