



# Overhead Distribution Aluminum Conductor 600v Service Drop Cable



## **APPLICATIONS**

Primarily used for 120 volt overhead service applications such as street lighting, outdoor lighting, and temporary service for construction. To be used at voltages of 600 volts phase-to-phase or less and at conductor temperatures not to exceed 75°C for polyethylene insulated conductors or 90°C for cross-linked polyethylene insulated conductors.

## **SPECIFICATIONS**

All Aluminum Service Drop Conductors meet or exceed all applicable requirements of the following standards:

- ANSI/ICEA S-76-474 (2000), Standard for Neutral-Supported Power Cable Assemblies with Weather-Resistant Extruded Insulation Rated 600 Volts.
- ASTM B230, Standard Specification for Aluminum 1350-H19 Wire for Electrical Purposes.
- ASTM B231, Standard Specification for Concentric-Lay-Stranded Aluminum 1350 Conductors.
- ASTM B232, Standard Specification for Concentric-Lay-Stranded Aluminum Conductors, Coated-Steel Reinforced (ACSR).
- ASTM 399, Standard Specification for Concentric-Lay-Stranded Aluminum Alloy 6201-T81 Conductors.

## **CONSTRUCTION**

- Phase Conductor: Bare aluminum 1350-H19, class B concentric lay stranded.
- Insulation: Black cross-linked polyethylene (XLPE) or Polyethylene (PE).
- Neutral Conductor: Phase conductors are cabled together with one of the following neutral conductors:
- Aluminum conductors, coated-steel reinforced, concentric-lay-stranded (ACSR)
  - Aluminum alloy 1350-H19 hard-drawn, concentric-lay-stranded (AAC)
  - Aluminum alloy 6201-T81, concentric-lay-stranded (AAAC)

### **Phoenix Wire and Cable Corp.**

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# Overhead Distribution Aluminum Conductor 600v Duplex Service Drop Cable

## ACSR NEUTRAL-MESSENGER

Code Word	Phase Conductor		Bare Neutral		Complete Cable			DC Resistance @ 20°C (ohms/1000ft)	Allowable Ampacity* (Amps)
	Size (AWG/Number of wires)	Insulation Thickness (mils)	Size (AWG/ Stranding)	Rated Strength (lbs)	Overall Diameter (Inch)	Net Weight (lbs./1000ft)			
						XLP	PE		
SHEPHERD	6 (7)	45	6 (6/1)	1190	0.47	79	77	0.661	85
TERRIER	4 (7)	45	4 (6/1)	1860	0.57	120	117	0.416	110
CHOW	2 (7)	45	2 (6/1)	2850	0.70	184	180	0.261	165
LABRADOR	1 (19)	60	1 (6/1)	3550	0.81	231	229	0.207	180
BLOODHOUND	1/0 (7)	60	1/0 (6/1)	4380	0.89	285	281	0.164	220
BULL	1/0 (19)	60	1/0 (6/1)	4380	0.89	291	288	0.164	220

## AAC ALUMINUM 1350 NEUTRAL-MESSENGER

Code Word	Phase Conductor		Bare Neutral		Complete Cable			DC Resistance @ 20°C (ohms/1000ft)	Allowable Ampacity* (Amps)
	Size (AWG/Number of wires)	Insulation Thickness (mils)	Size (AWG/ Stranding)	Rated Strength (lbs)	Overall Diameter (Inch)	Net Weight (lbs./1000ft)			
						XLP	PE		
COLLIE	6 (7)	45	6 (7)	563	0.46	67	65	0.661	95
SPANIEL	4 (7)	45	4 (7)	881	0.55	102	99	0.416	125
DOBERMAN	2 (7)	45	2 (7)	1350	0.68	155	151	0.261	165
AIREDALE	1 (19)	60	1 (7)	1640	0.78	195	191	0.207	180
BASSET	1/0 (7)	60	1/0 (7)	1990	0.86	238	236	0.164	220
MALEMUTE	1/0 (19)	60	1/0 (7)	1990	0.86	245	243	0.164	220

## AAAC ALUMINUM 6201 NEUTRAL-MESSENGER

Code Word	Phase Conductor		Bare Neutral		Complete Cable			DC Resistance @ 20°C (ohms/1000ft)	Allowable Ampacity* (Amps)
	Size (AWG/Number of wires)	Insulation Thickness (mils)	Size (AWG/ Stranding)	Rated Strength (lbs)	Overall Diameter (Inch)	Net Weight (lbs./1000ft)			
						XLP	PE		
VISZLA	6 (7)	45	6 (7)	1110	0.47	85	70	0.661	95
WHIPPET	4 (7)	45	4 (7)	1760	0.57	110	90	0.416	125
SCHNAUZER	2 (7)	45	2 (7)	2800	0.70	150	120	0.261	165
AFGHAN	1/0 (7)	60	1/0 (7)	4460	0.89	199	197	0.164	220
HEELER	1/0 (19)	60	1/0 (7)	4460	0.89	200	160	0.164	220

\* Based on conductor temperature of 90°C for Crosslinked Polyethylene, ambient temperature of 40°C; crosswind 2 ft. /sec. in the sun.

Note:

Overall Diameter is the approximate circumscribed diameter of the assembly.  
PE Insulation and other sizes and/or code names are available upon request.

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# Overhead Distribution Aluminum Conductor 600v Triplex Service Drop Cable

## ACSR NEUTRAL-MESSENGER

Code Word	Phase Conductor		Bare Neutral		Complete Cable			DC Resistance @ 20°C (ohms/1000ft)	Allowable Ampacity* (Amps) XLP
	Size (AWG/Number of wires)	Insulation Thickness (mils)	Size (AWG/ Stranding)	Rated Strength (lbs)	Overall Diameter (Inch)	Net Weight (lbs./1000ft)			
						XLP	PE		
VOLUTA	6 (7)	45	6 (6/1)	1190	0.54	115	112	0.661	95
PERIWINKLE	4 (7)	45	4 (6/1)	1860	0.64	172	169	0.416	125
COCKLE	2 (7)	45	4 (6/1)	1190	0.73	228	224	0.261	165
CONCH	2 (7)	45	2 (6/1)	2850	0.78	262	257	0.261	165
JANTHINA	1/0 (7)	60	2 (6/1)	2850	0.93	367	360	0.164	220
NERITINA	1/0 (7)	60	1/0 (6/1)	4380	0.99	420	414	0.164	220
CENIA	1/0 (19)	60	1/0 (6/1)	4380	1.00	414	408	0.164	220
RUNCINA	2/0 (7)	60	2/0 (6/1)	5310	1.09	519	512	0.130	265
CERAPUS	4/0 (19)	60	2/0 (6/1)	5310	1.25	692	690	0.082	350
ZUZARA	4/0 (19)	60	4/0 (6/1)	8350	1.34	785	777	0.082	350

## AAC ALUMINUM 1350 NEUTRAL-MESSENGER

Code Word	Phase Conductor		Bare Neutral		Complete Cable			DC Resistance @ 20°C (ohms/1000ft)	Allowable Ampacity* (Amps) XLP
	Size (AWG/Number of wires)	Insulation Thickness (mils)	Size (AWG/ Stranding)	Rated Strength (lbs)	Overall Diameter (Inch)	Net Weight (lbs./1000ft)			
						XLP	PE		
PATELLA	6 (7)	45	6 (7)	563	0.53	104	102	0.661	95
OYSTER	4 (7)	45	4 (7)	881	0.63	154	152	0.416	125
CLAM	2 (7)	45	2 (7)	1350	0.76	232	228	0.261	165
MUREX	1/0 (7)	60	1/0 (7)	1990	0.97	374	367	0.164	220
PURPURA	1/0 (19)	60	1/0 (7)	1990	0.97	368	362	0.164	220

## AAAC ALUMINUM 6201 NEUTRAL-MESSENGER

Code Word	Phase Conductor		Bare Neutral		Complete Cable			DC Resistance @ 20°C (ohms/1000ft)	Allowable Ampacity* (Amps) XLP
	Size (AWG/Number of wires)	Insulation Thickness (mils)	Size (AWG/ Stranding)	Rated Strength (lbs)	Overall Diameter (Inch)	Net Weight (lbs./1000ft)			
						XLP	PE		
HIPPA	6 (7)	45	6 (7)	1110	0.54	107	105.7	0.661	95
BARNACLES	4 (7)	45	4 (7)	1760	0.64	160	157	0.416	125
SHRIMP	2 (7)	45	2 (7)	2800	0.78	243	238	0.261	165
GAMMARUS	1/0 (7)	60	1/0 (7)	4460	0.99	390	384	0.164	220
LEDA	1/0 (19)	60	1/0 (7)	4460	1.00	384	378	0.164	220

\* Based on conductor temperature of 90°C for Crosslinked Polyethylene, ambient temperature of 40°C; crosswind 2 ft. /sec. in the sun.

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# Overhead Distribution Aluminum Conductor 600v Quadruplex Service Drop Cable

## ACSR NEUTRAL-MESSENGER

Code Word	Phase Conductor		Bare Neutral		Complete Cable			DC Resistance @ 20°C (ohms/1000ft)	Allowable Ampacity* (Amps) XLP
	Size (AWG/Number of wires)	Insulation Thickness (mils)	Size (AWG/ Stranding)	Rated Strength (lbs)	Overall Diameter (Inch)	Net Weight (lbs./1000ft)			
						XLP	PE		
CHOLA	6 (7)	45	6 (6/1)	1190	0.62	162	151	0.661	80
HACKNEY	4 (7)	45	4 (6/1)	1860	0.73	241	226	0.416	115
PALOMINO	2 (7)	45	2 (6/1)	2850	0.88	362	342	0.261	150
STANDARD BRED	1/0 (7)	60	1/0 (6/1)	4380	1.13	564	559	0.164	210
COSTENA	1/0 (19)	60	1/0 (6/1)	4380	1.13	575	550	0.164	210
GRULLO	2/0 (19)	60	2/0 (6/1)	5310	1.25	707	678	0.130	245
APPALOOSA	4/0 (19)	60	4/0 (6/1)	8350	1.51	1079	1039	0.082	325

## AAC ALUMINUM 1350 NEUTRAL-MESSENGER

Code Word	Phase Conductor		Bare Neutral		Complete Cable			DC Resistance @ 20°C (ohms/1000ft)	Allowable Ampacity* (Amps) XLP
	Size (AWG/Number of wires)	Insulation Thickness (mils)	Size (AWG/ Stranding)	Rated Strength (lbs)	Overall Diameter (Inch)	Net Weight (lbs./1000ft)			
						XLP	PE		
PINTO	4 (7)	45	4 (7)	881	0.72	223	207	0.416	115
MUSTANG	2 (7)	45	2 (7)	1350	0.87	333	312	0.261	150
CRIOLLO	1/0 (19)	60	1/0 (7)	1990	1.12	529	504	0.164	210

## AAAC ALUMINUM 6201 NEUTRAL-MESSENGER

Code Word	Phase Conductor		Bare Neutral		Complete Cable			DC Resistance @ 20°C (ohms/1000ft)	Allowable Ampacity* (Amps) XLP
	Size (AWG/Number of wires)	Insulation Thickness (mils)	Size (AWG/ Stranding)	Rated Strength (lbs)	Overall Diameter (Inch)	Net Weight (lbs./1000ft)			
						XLP	PE		
FRENCH-COACH	6 (7)	45	6 (7)	1110	0.62	155	144	0.661	80
ARABIAN	4 (7)	45	4 (7)	1760	0.73	229	214	0.416	115
BELGIAN	2 (7)	45	2 (7)	2800	0.88	344	323	0.261	150
SHETLAND	1/0 (19)	60	1/0 (7)	4460	1.13	546	521	0.164	210

\* Based on conductor temperature of 90°C for Crosslinked Polyethylene, ambient temperature of 40°C; crosswind 2 ft. /sec. in the sun.

**Note:**

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