

Triplex Service Drop Aluminum Conductor



APPLICATION:

Triplex Service Drop Aluminum Conductor cable is designed for use to supply power from utility lines to the consumer weather head. For service at 600 volts or lower (phase to phase) at a conductor temperature of 90°C maximum for cross linked insulation or 75°C maximum for polyethylene insulation.

CONDUCTORS:

- Concentric strand or compressed 1350-H19 series aluminum conductor

MESSENGER:

- Concentric strand AAC, 6201 alloy, or ACSR bare 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	Strand	Insulation Thickness	Size	Strand*	Breaking Strength	Diameter	Weight		XLP 90 °C	Poly 75 °C
								XLP	Poly		
AWG/kcmil		inches	AWG/kcmil		lbs	inches	lbs/kft	lbs/kft	amps	amps	
AAC NEUTRAL MESSENGER											
-	8	Solid	0.045	8	7	310	0.46	68	68	65	50
Haiotis	6	Solid	0.045	6	7	563	0.53	103	99	85	70
Patella	6	7/w	0.045	6	7	563	0.57	104	102	85	70
Fusus	4	Solid	0.045	4	7	881	0.62	152	148	115	90
Oyster	4	7/w	0.045	4	7	881	0.67	154	152	115	90
Mussel	2	7/w	0.045	4	7	881	0.80	208	204	150	120
Clam	2	7/w	0.045	2	7	1,350	0.80	232	228	150	120
Snail	1/0	7/w	0.060	2	7	1,350	1.02	336	329	205	160
Murex	1/0	7/w	0.060	1/0	7	1,990	1.02	374	367	205	160
Purpura	1/0	19/w	0.060	1/0	7	1,990	1.03	368	362	205	160
Nassa	2/0	7/w	0.060	2/0	7	2,510	1.11	461	453	235	185
Melita	3/0	19/w	0.060	3/0	19	3,310	1.23	585	563	275	215
Portunus	4/0	19/w	0.060	4/0	19	4,020	1.35	693	684	315	245
Nannynose	336.4	19/w	0.080	336.4	19	6,146	1.72	1,110	1,096	420	325

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 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		
ACSR FULL SIZE NEUTRAL MESSENGER											
Paludina	6	Solid	0.045	6	6/1	1,190	0.53	114	113	85	70
Voluta	6	7/w	0.045	6	6/1	1,190	0.57	115	112	85	70
Whelk	4	Solid	0.045	4	6/1	1,860	0.62	163	161	115	90
Periwinkle	4	7/w	0.045	4	6/1	1,860	0.67	172	169	115	90
Conch	2	7/w	0.045	2	6/1	2,850	0.80	262	257	150	120
Neritina	1/0	7/w	0.060	1/0	6/1	4,380	1.02	420	414	205	160
Kenia	1/0	19/w	0.060	1/0	6/1	4,380	1.03	414	408	205	160
Runcina	2/0	7/w	0.060	2/0	6/1	5,310	1.11	519	512	235	185
Triton	2/0	19/w	0.060	2/0	6/1	5,310	1.12	511	505	235	185
Cherrystone	3/0	7/w	0.060	3/0	6/1	6,620	1.22	656	643	275	215
Mursia	3/0	19/w	0.060	3/0	6/1	6,620	1.23	633	626	275	215
Razor	4/0	7/w	0.060	4/0	6/1	8,350	1.34	814	799	315	245
Zuzara	4/0	19/w	0.060	4/0	6/1	8,350	1.35	785	777	315	245
Limpet	336.4	19/w	0.080	336.4	18/1	8,680	1.72	1,161	1,147	420	325
ACSR REDUCED SIZE NEUTRAL MESSENGER											
Scallop	4	Solid	0.045	6	6/1	1,190	0.62	142	139	115	90
Strombus	4	7/w	0.045	6	6/1	1,190	0.67	151	148	115	90
Cockle	2	7/w	0.045	4	6/1	1,860	0.80	228	224	150	120
Janthina	1/0	7/w	0.060	2	6/1	2,850	1.02	367	360	205	160
Ranella	1/0	19/w	0.060	2	6/1	2,850	1.03	361	356	205	160
Cavolinia	2/0	7/w	0.060	1	6/1	3,550	1.11	452	444	235	185
Clio	2/0	19/w	0.060	1	6/1	3,550	1.12	444	437	235	185
Sanddollar	3/0	7/w	0.060	1/0	6/1	4,380	1.22	570	557	275	215
Aega	3/0	19/w	0.060	1/0	6/1	4,380	1.23	565	552	275	215
Cuttlefish	4/0	7/w	0.060	2/0	6/1	5,310	1.33	706	691	315	245
Cerapus	4/0	19/w	0.060	2/0	6/1	5,310	1.35	678	670	315	245
Cowry	336.4	19/w	0.080	4/0	6/1	8,350	1.72	1,135	1,093	420	325

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	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		
6201 ALLOY NEUTRAL MESSENGER											
Minex	6	Solid	0.045	6	7	1,110	0.53	107	103	85	70
Hippa	6	7	0.045	6	7	1,110	0.57	107	106	85	70
Prawn	4	Solid	0.045	4	7	1,760	0.62	158	154	115	90
Barnacles	4	7	0.045	4	7	1,760	0.67	160	157	115	90
Shrimp	2	7	0.045	2	7	2,800	0.80	243	238	150	120
Gammarus	1/0	7	0.060	1/0	7	4,460	1.02	390	384	205	160
Leda	1/0	19	0.060	1/0	7	4,460	1.03	384	378	205	160
Dungeness	2/0	7	0.060	2/0	7	5,390	1.11	481	474	235	185
Cyclops	2/0	19	0.060	2/0	7	5,390	1.12	473	467	235	185
Flustra	3/0	19	0.060	3/0	7	6,790	1.23	596	589	275	215
Lepas	4/0	19	0.060	4/0	7	8,560	1.35	725	716	315	245
6201 ALLOY REDUCED NEUTRAL MESSENGER											
Artemia	4	Solid	0.045	6	7	1,110	0.62	134	132	115	90
Crab	4	7	0.045	6	7	1,110	0.67	144	141	115	90
Solaster	2	7	0.045	4	7	1,760	0.80	216	212	150	120
Sandcrab	1/0	7	0.060	2	7	2,800	1.02	348	341	205	160
Echinus	1/0	19	0.060	2	7	2,800	1.03	342	336	205	160
Crayfish	2/0	7	0.060	1	7	3,530	1.11	453	423	235	185
Sipho	2/0	19	0.060	1	7	3,530	1.12	441	423	235	185
Fulgar	3/0	19	0.060	1/0	7	4,460	1.23	525	518	275	215
Arca	4/0	19	0.060	2/0	7	5,390	1.35	640	632	315	245

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