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

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