Application

Triplex service drop aluminum conductors are used to deliver electrical power from the utility's lines to the consumer's weatherhead. These conductors are designed for service applications at 600 volts or less (phase to phase) with a maximum conductor temperature of 75℃ for polyethylene insulation or 90℃ for crosslinked polyethylene insulation. They are commonly used in residential and commercial installations to ensure safe and reliable power distribution.

Advantage

Versatility: Suitable for a wide range of residential and commercial applications, ensuring reliable power delivery from utility lines to end users.
High Conductivity: Aluminum 1350-H19 phase conductors provide excellent electrical conductivity, ensuring efficient power transmission.
Durable Insulation: Both PE and XLPE insulation options offer excellent protection against environmental factors, with XLPE providing superior thermal and mechanical properties.
Mechanical Strength: The use of ACSR or alloy 6201 AAAC as neutral/messenger conductors ensures high tensile strength and durability, reducing sag and maintaining stable line performance.
Cost-Effective: Aluminum conductors are more economical compared to copper, providing a cost-effective solution without compromising on performance.

Construction

Triplex service drop wires are constructed using high-quality materials and configurations to ensure optimal performance and durability. The construction details are as follows:
Phase Conductor:
Material: Aluminum 1350-H19
Neutral/Messenger Conductor:
Material Options: Available in bare AAC (All Aluminum Conductor), ACSR (Aluminum Conductor Steel Reinforced), or alloy 6201 AAAC (All Aluminum Alloy Conductor).
Function: Acts as both the neutral conductor and mechanical support for the phase conductors.
Insulation:
Material: Black polyethylene (PE) or crosslinked polyethylene (XLPE).

Specification

-ASTM B-230 Aluminum Wire, 1350-H19 for Electrical Purposes.
-ASTM B-231 Aluminum Conductors, Concentric-lay-stranded.
-ASTM B-232 Aluminum Conductors, Concentric-lay-stranded, Coated Steel Reinforced (ACSR).
-ASTM B-399 Concentric-lay-stranded 6201-T81 Aluminum Alloy Conductors.
-ASTM B-498 Zinc-Coated Steel Core Wire for Aluminum Conductors, Steel Reinforced (ACSR).
-Triplex Service Drop cable meets or exceeds all applicable requirements of ANSI/ICEA S-76-474.

Eastful Cable Lab

We have CNAS Accredited Facility to assure conformity assessment services with a focus on quality, expertise, and customer satisfaction.
CNAS has international mutual recognition among IAF, ILAC, APLAC and PAC.

Accreditation

We meet the requirements of ISO9001, ISO14001, ISO45001 and ISO50001 and our cables have certificate of CCC, RoHS, CASC, UL, cUL, TÜV Rhineland and CCS.

National Green Factory

Our facility has been awarded of National Green Factory by Ministry of Industry and Information Technology of China.
We are committed to the development of high-end, intelligent and green manufacturing industry.

*The overall energy consumption level of green factories is better than the energy efficiency benchmark level.

Technical Parameters

Code Name	Size	Bare AAC Neutral									
		Phase Conductor Strands			Bare Neutral Strands			Weight per 1000ft		Ampacity	
		AAC		Insul. Thick.	Bare AAC		Breaking Strength	XLP	Poly	XLP	Poly
		No.	Dia.		No.	Dia.					
-	AWG or kcmil	-	mm	mm	-	mm	lb	lb	lb	A	A
Haiotis	2*6AWG+1*6AWG	1	4.11	1.14	7	4.11	563	102.5	98.8	85	70
Patella	2*6AWG+1*6AWG	7	1.56	1.14	7	1.56	563	109.1	101.6	85	70
Fusus	2*4AWG+1*4AWG	1	5.19	1.14	7	5.19	881	151.9	147.6	115	90
Oyster	2*4AWG+1*4AWG	7	1.96	1.14	7	1.96	881	161.8	151.7	115	90
Clam	2*2AWG+1*2AWG	7	2.47	1.14	7	2.47	1350	243.2	229.2	150	120
Murex	2*1/0AWG+1*1/0AWG	7	3.12	1.52	7	3.12	1990	395.1	369.4	205	160
Purpura	2*1/0AWG+1*1/0AWG	19	1.89	1.52	7	1.89	1990	386.1	369.4	205	160
Nassa	2*2/0AWG+1*2/0AWG	7	3.50	1.52	7	3.50	2510	485.8	455.3	235	185
Melita	2*3/0AWG+1*3/0AWG	19	2.39	1.52	19	2.39	3310	585.2	562.9	275	215
Portunus	2*4/0AWG+1*4/0AWG	19	3.25	1.52	19	3.25	4020	723.9	697.3	315	245
Nannynose	2*336.4kcmil+1*336.4kcmil	19	3.38	2.03	19	3.38	6146	1160.4	1118.0	420	325

Code Name	Size	Bare ACSR Full Size Neutral											
		Phase Conductor Strands			Bare Neutral Strands					Weight per 1000ft		Ampacity	
		AAC		Insul. Thick.	Bare ACSR				Breaking Strength				
		Strands			AL.		St.			XLP	Poly	XLP	Poly
		No.	Dia.		No.	Dia.	No.	Dia.					
-	AWG or kcmil	-	mm	mm	-	mm	-	mm	lb	lb	lb	A	A
Paludina	2*6AWG+1*6AWG	1	4.11	1.14	1	1.68	6	1.68	1190	114	113	85	70
Voluta	2*6AWG+1*6AWG	7	1.56	1.14	1	1.68	6	1.68	1190	120	13	85	70
Whelk	2*4AWG+1*4AWG	1	5.19	1.14	1	2.12	6	2.12	1860	169	165	115	90
Periwinkle	2*4AWG+1*4AWG	7	1.96	1.14	1	2.12	6	2.12	1860	176	172	115	90
Conch	2*2AWG+1*2AWG	7	2.47	1.14	1	2.67	6	2.67	2850	267	261	150	120
Neritina	2*1/0AWG+1*1/0AWG	7	3.12	1.52	1	3.37	6	3.37	4380	530	419	205	160
Cenia	2*1/0AWG+1*1/0AWG	19	1.89	1.52	1	3.37	6	3.37	4380	426	416	205	160
Runcina	2*2/0AWG+1*2/0AWG	7	3.5	1.52	1	3.78	6	3.78	5310	530	519	235	185
Triton	2*2/0AWG+1*2/0AWG	19	2.13	1.52	1	3.78	6	3.78	5310	526	514	235	185
Cherrystone	2*3/0AWG+1*3/0AWG	7	3.93	1.52	1	4.25	6	4.25	6620	656	643	250	200
Mursia	2*3/0AWG+1*3/0AWG	19	2.39	1.52	1	4.25	6	4.25	6620	650	638	250	200
Razor	2*4/0AWG+1*4/0AWG	7	4.42	1.52	1	4.77	6	4.77	8350	814	799	315	245
Zuzara	2*4/0AWG+1*4/0AWG	19	2.68	1.52	1	4.77	6	4.77	8350	805	792	315	245
Limpet	2*336.4kcmil+1*336.4kcmil	19	3.38	2.03	1	3.47	18	3.47	8680	1209	1167	420	325

Technical Parameters

Code Name	Size	Bare ACSR Reduced Size Neutral												
		Phase Conductor Strands			Bare Neutral Strands					Weight per 1000ft		Ampacity	
		AAC			Bare ACSR								
		Strands		Insul. Thick.	AL.		St.		Breaking Strength	XLP	Poly	XLP	Poly
		No.	Dia.		No.	Dia.	No.	Dia.					
-	AWG or kcmil	-	mm	mm	-	mm	-	mm	lb	lb	lb	A	A
Scallop	2*4AWG+1*6AWG	1	5.19	1.14	1	1.68	6	1.68	1190	148	144	115	90
Stromubs	2*4AWG+1*6AWG	7	1.96	1.14	1	1.68	6	1.68	1190	158	148	115	90
Cockle	2*2AWG+1*4AWG	7	2.47	1.14	1	2.12	6	2.12	1860	233	227	150	120
Janthina	2*1/0AWG+1*2/0AWG	7	3.12	1.52	1	2.67	6	2.67	2850	376	365	205	160
Ranella	2*1/0AWG+1*2/0AWG	19	1.89	1.52	1	2.67	6	2.67	2850	372	362	205	160
Cavolinia	2*2/0AWG+1*1AWG	7	3.50	1.52	1	3.00	6	3.00	3550	462	451	235	185
Clio	2*2/0AWG+1*1AWG	19	2.13	1.52	1	3.00	6	3.00	3550	458	446	235	185
Sanddollar	2*3/0AWG+1*1/0AWG	7	3.93	1.52	1	3.37	6	3.37	4380	570	557	275	215
Aega	2*3/0AWG+1*1/0AWG	19	2.39	1.52	1	3.37	6	3.37	4380	565	552	275	215
Cuttlefish	2*4/0AWG+1*2/0AWG	7	4.42	1.52	1	3.78	6	3.78	5310	706	691	315	245
Cerapus	2*4/0AWG+1*2/0AWG	19	2.68	1.52	1	3.78	6	3.78	5310	699	684	315	245
Cowry	2*336.4kcmil+1*4/0AWG	19	3.38	2.03	1	4.77	6	4.77	8350	1135	1093	420	325

Code Name	Size	Bare AAC Neutral									
		Phase Conductor Strands			Bare Neutral Strands			Weight per 1000ft		Ampacity	
		AAC		Insul. Thick.	Bare AAC		Breaking Strength	XLP	Poly	XLP	Poly
		No.	Dia.		No.	Dia.					
-	AWG or kcmil	-	mm	mm	-	mm	lb	lb	lb	A	A
Minex	2*6AWG+1*30.58kcmil	1	4.11	1.14	7	1.68	1110	106.6	102.9	85	70
Hippa	2*6AWG+1*30.58kcmil	7	1.56	1.14	7	1.68	1110	113.2	105.7	85	70
Prawn	2*4AWG+1*48.69kcmil	1	5.19	1.14	7	2.12	1760	158.4	154.1	115	90
Bamacle	2*4AWG+1*48.69kcmil	7	1.96	1.14	7	2.12	1760	168.3	158.2	115	90
Shrimp	2*2AWG+1*77.47kcmil	7	2.47	1.14	7	2.67	2800	253.7	239.7	150	120
Gammarus	2*1/0AWG+1*123.3kcmil	7	3.12	1.52	7	3.37	4460	411.7	386.0	205	160
Leda	2*1/0AWG+1*123.3kcmil	19	1.89	1.52	7	3.37	4460	402.7	386.0	205	160
Dungenese	2*2/0AWG+1*155.4kcmil	7	3.50	1.52	7	3.78	5390	506.8	476.3	235	185
Cyclops	2*2/0AWG+1*155.4kcmil	19	2.13	1.52	7	3.78	5390	495.3	476.3	235	185
Flustra	2*3/0AWG+1*195.7kcmil	19	2.39	1.52	7	4.25	6790	611.4	589.1	275	215
Lepas	2*4/0AWG+1*246.9kcmil	19	2.68	1.52	7	4.77	8560	757.1	730.5	315	245

Technical Parameters

Code Name	Size	Bare AAAC 6201 Alloy Reduced Size Neutral							
		Phase Conductor Strands			Bare Neutral Strands			Weight	Ampacity
		AAC		Insul. Thick.	Bare AAAC		Breaking Strength	XLP	XLP
		No.	Dia.		No.	Dia.			
-	AWG or kcmil	-	mm	mm	-	mm	lb	kg/km	A
Hippa	2*6AWG+1*30.58	7	4.66	1.143	7	5.04	1110	162	115
Barnacles	2*4AWG+1*48.69	7	5.88	1.143	7	6.36	1110	247	115
Solaster	2*2AWG+1*48.69	7	7.42	1.143	7	6.36	1110	333	115
Lobster	2*2AWG+1*77.47	7	7.42	1.524	7	8.02	1760	398	150
Gammarus	2*1/0AWG+1*123.3	7	9.36	1.524	7	10.11	2800	601	205
Dungenese	2*2/0AWG+1*155.4	7	10.51	1.524	7	11.35	2800	741	205
Leda	2*1/0AWG+1*123.3	19	9.46	1.524	7	10.11	3530	592	235
Cyclops	2*2/0AWG+1*155.4	19	10.63	1.524	7	11.35	3530	733	235
Fulgur	2*3/0AWG+1*123.3	19	11.94	1.524	7	10.11	4460	810	275
Lepas	2*4/0AWG+1*246.9	19	13.40	1.524	7	14.31	5390	1150	315