



● Application

Quadruplex service drop aluminum conductors are designed to supply three-phase power, typically from a pole-mounted transformer to the user's service head, where they connect to the service entrance cable. These conductors are suitable for applications at voltages of 600 volts or less (phase to phase) and can operate at conductor temperatures up to 75°C for polyethylene insulated conductors or 90°C for crosslinked polyethylene (XLPE) insulated conductors. They are ideal for residential, commercial, and light industrial power distribution.

● Advantage

Three-Phase Power Delivery: Efficiently supplies three-phase power for various applications, ensuring reliable service from transformers to end users.

High Conductivity: The use of 1350-H19 aluminum in the phase conductors ensures excellent electrical conductivity.

Durable Insulation: PE and XLPE insulation options provide robust protection against environmental factors, with XLPE offering superior thermal and mechanical properties.

Mechanical Strength: Neutral/messenger conductors made from AAC, ACSR, or alloy 6201 AAAC provide high tensile strength, reducing sag and maintaining line stability.

Easy Identification: The extruded ridge on one conductor ensures straightforward phase identification, simplifying installation and maintenance processes.

Cost-Effective: Aluminum conductors are more economical compared to copper, offering a cost-effective solution without compromising performance.

● Construction

Quadruplex service drop wires are constructed to ensure durability and reliable performance in delivering three-phase power. The construction details are as follows:

Phase Conductor:

Material: 1350-H19 aluminum

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: Serves as both the neutral conductor and mechanical support for the phase conductors.

Insulation:

Material: Black polyethylene (PE) or crosslinked polyethylene (XLPE).

Phase Identification:

One conductor is manufactured with an extruded ridge to facilitate easy phase identification during installation and maintenance.

● 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).

-Quadruplex 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 Rheinland 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

Bare AAC Neutral												
Code Name	Size	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	
Clydesdale	3*4AWG+1*4AWG	1	5.19	1.14	7	1.96	881	208.0	201.8	100	80	
Pinto	3*4AWG+1*4AWG	7	1.96	1.14	7	1.96	881	223.0	207.9	100	80	
Mustang	3*2AWG+1*2AWG	7	2.47	1.14	7	2.47	1350	333.0	312.6	135	105	
Criollo	3*1/0AWG+1*1/0AWG	19	1.89	1.52	7	3.12	1990	529.0	504.5	180	140	
Percheron	3*2/0AWG+1*2/0AWG	19	2.13	1.52	7	3.50	2510	649.0	620.5	205	160	
Hanoverian	3*3/0AWG+1*3/0AWG	19	2.39	1.52	19	2.39	3310	799.0	765.6	235	185	
Oldenburg	3*4/0AWG+1*4/0AWG	19	3.25	1.52	19	3.25	4020	986.0	946.7	275	210	
Lippizaner	3*336.4kcmil+1*336.4kcmil	19	3.38	2.03	19	3.38	6146	1546.0	1519.2	370	280	
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	

Bare ACSR Neutral													
Code Name	Size	Phase Conductor Strands			Bare Neutral Strands				Weight per 1000ft			Ampacity	
		AAC		Insul. Thick.	Bare ACSR		Breaking Strength	XLP	Poly	XLP	Poly		
		Strands	No.		Dia.	AL.						Steel	
													No.
-	AWG or kcmil	-	mm	mm	-	mm	-	mm	lb	lb	lb	A	A
Morochuca	3*6AWG+1*6AWG	1	4.11	1.14	1	1.68	6	1.68	1190	152.0	147.4	75	60
Chola	3*6AWG+1*6AWG	7	1.56	1.14	1	1.68	6	1.68	1190	162.0	151.7	75	60
Morgan	3*4AWG+1*4AWG	1	5.19	1.14	1	2.12	6	2.12	1860	226.0	220	100	80
Hackney	3*4AWG+1*4AWG	7	1.96	1.14	1	2.12	6	2.12	1860	241.0	226.1	100	80
Palomino	3*2AWG+1*2AWG	7	2.47	1.14	1	2.67	6	2.67	2850	362.0	342.6	135	105
Costena	3*1/0AWG+1*1/0AWG	19	1.89	1.52	1	3.37	6	3.37	4380	575.0	550.6	180	140
Grullo	3*2/0AWG+1*2/0AWG	19	2.13	1.52	1	3.78	6	3.78	5310	707.0	678.7	205	160
Suffolk	3*3/0AWG+1*3/0AWG	19	2.39	1.52	1	4.25	6	4.25	6620	872.0	838.9	235	185
Appaloosa	3*4/0AWG+1*4/0AWG	19	2.68	1.52	1	4.77	6	4.77	8350	1079.0	1039.2	275	210
Bronco	3*336.4kcmil+1*336.4kcmil	19	3.38	2.03	1	3.47	18	3.47	8580	1613.0	1568.2	370	280
Gelding	3*336.4kcmil+1*4/0AWG	19	3.38	2.03	1	4.77	6	4.77	8350	1548.0	1494.31	370	280

● Technical Parameters

Bare AAAC 6201 Alloy Neutral											
Code Name	Size	Phase Conductor Strands			Bare Neutral Strands			Weight per 1000ft		Ampacity	
		AAC		Insul. Thick.	Bare AAAC		Breaking Strength	XLP	Poly	XLP	Poly
		No.	Dia.		No.	Dia.					
-	AWG or kcmil	-	mm	mm	-	mm	lb	lb	lb	A	A
Bay	3*6AWG+1*30.58kcmil	1	4.11	1.14	7	1.68	1110	145.0	140.0	75	60
French Coach	3*6AWG+1*30.58kcmil	7	1.56	1.14	7	1.68	1110	155.0	144.3	75	60
Geman Coach	3*4AWG+1*48.69kcmil	1	5.19	1.14	7	2.12	1760	214.0	208.3	100	80
Arabian	2*4AWG+1*48.69kcmil	7	1.96	1.14	7	2.12	1760	229.0	214.4	100	80
Belgian	3*2AWG+1*77.47kcmil	7	2.47	1.14	7	2.67	2800	344.0	323.1	135	105
Shetland	3*1/0AWG+1*123.3kcmil	19	1.89	1.52	7	3.37	4460	546.0	521.1	180	140
Thoroughbred	3*2/0AWG+1*155.4kcmil	19	2.13	1.52	7	3.78	5390	670.0	641.5	205	160
Trotter	3*3/0AWG+1*195.7kcmil	19	2.39	1.52	7	4.25	6790	825.0	791.8	235	185
Walking	3*4/0AWG+1*246.9kcmil	19	2.68	1.52	7	4.77	8560	1019.0	979.7	275	210
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