

Quadruplex Overhead Aluminum Conductor (Service Drop)

APPLICATION: Used to supply 3 phase power, usually from a pole-mounted transformer, to the user's service head where connection to the service entrance cable is made. To be used at voltages of 600 volts or less phase to phase and at conductor temperatures not to exceed 75°C for polyethylene insulated conductors or 90°C for cross-linked-polyethylene (XLP) insulated conductors.

CONSTRUCTION: Concentrically stranded, compressed 1350-H19 aluminum conductor, cross-linked polyethylene (XLP) or polyethylene (PE) insulation, concentrically stranded AAC, ACSR or 6201 alloy bare neutral messenger.

SPECIFICATIONS: Quadruplex service drop cable meets or exceeds the following ASTM specifications:

- B-230 Aluminum 1350–H19 Wire for Electrical Purposes
- B-231 Concentric-Lay-Stranded Aluminum 1350 Conductors
- B-232 Concentric-Lay-Stranded Aluminum Conductors, Coated-Steel Reinforced (ACSR)
- B-399 Concentric-Lay-Stranded Aluminum-Alloy 6201-T81 Conductors
- Service Drop cable meets or exceeds all applicable requirements of ICEA S-76-474

OPTIONS: Ridged Phase ID

Code Word	Phase Conductor			Bare Neutral Messenger			Completed Cable			Ampacity#	
	Size	No. of Strands	Insulation Thickness	Size	No. of Strands	Breaking Strength	Diameter	Weight		XLP 90°C	PE 75°C
	AWG/kcmil		inches	AWG/kcmil		lbs	inches	XLP lbs/kft	Poly lbs/kft	amps	amps
AAC NEUTRAL MESSENGER											
Clydesdale	4	Solid	0.045	4	7	881	0.68	208	201	100	80
Pinto	4	7/w	0.045	4	7	881	0.73	223	207	100	80
Mustang	2	7/w	0.045	2	7	1,350	0.88	333	312	135	105
Criollo	1/0	19/w	0.060	1/0	7	1,990	1.12	529	504	180	140
Percheron	2/0	19/w	0.060	2/0	7	2,510	1.24	649	620	205	160
Hanoverian	3/0	19/w	0.060	3/0	19	3,310	1.36	799	765	235	185
Oldenburg	4/0	19/w	0.060	4/0	19	4,020	1.50	986	946	275	210
Lippizaner	336.4	19/w	0.080	336.4	19	6,146	1.91	1,546	1,519	370	280
ACSR NEUTRAL MESSENGER											
Morochuca	6	Solid	0.045	6	6/1	1,190	0.58	152	147	75	60
Chola	6	7/W	0.045	6	6/1	1,190	0.62	162	151	75	60
Morgan	4	Solid	0.045	4	6/1	1,860	0.69	226	220	100	80
Hackney	4	7/W	0.045	4	6/1	1,860	0.74	241	226	100	80
Palomino	2	7/W	0.045	2	6/1	2,850	0.89	362	342	135	105
Costena	1/0	19/W	0.060	1/0	6/1	4,380	1.14	575	550	180	140
Grullo	2/0	19/W	0.060	2/0	6/1	5,310	1.26	707	678	205	160
Suffolk	3/0	19/W	0.060	3/0	6/1	6,620	1.38	872	838	235	180
Appaloosa	4/0	19/W	0.060	4/0	6/1	8,350	1.52	1,079	1,039	275	210
Bronco	336.4	19/W	0.080	336.4	18/1	8,580	1.92	1,613	1,568	370	280
Gelding	336.4	19/W	0.080	4/0	6/1	8,350	1.85	1,548	1,494	370	280

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	AWG/kcmil		inches	AWG/kcmil		lbs	inches	lbs/kft	lbs/kft	amps	amps
Hurricane	500	37/w	0.080	336.4	26/7	14,100	2.21	2,196	2,186	480	360

All values are nominal and subject to correction

#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	No. of Strands	Insulation Thickness	Size	No. of Strands	Breaking Strength	Diameter	Weight		XLP 90°C	PE 75°C
	AWG/kcmil		inches	AWG/kcmil		lbs	inches	lbs/kft	lbs/kft	amps	amps
6201 ALLOY NEUTRAL MESSENGER##											
Bay	6	Solid	0.045	6	7	1,110	0.59	145	140	75	60
French-Coach	6	7/w	0.045	6	7	1,110	0.63	155	144	75	60
German-Coach	4	Solid	0.045	4	7	1,760	0.69	214	208	100	80
Arabian	4	7/w	0.045	4	7	1,760	0.74	229	214	100	80
Belgian	2	7/w	0.045	2	7	2,800	0.89	344	323	135	105
Shetland	1/0	19/w	0.060	1/0	7	4,460	1.14	546	521	180	140
Thoroughbred	2/0	19/w	0.060	2/0	7	5,390	1.26	670	641	205	160
Trotter	3/0	19/w	0.060	3/0	7	6,790	1.38	825	791	135	185
Walking	4/0	19/w	0.060	4/0	7	8,560	1.52	1,019	979	275	210

All values are nominal and subject to correction

#Conductor temperature of 90°C for XLP, 75°C for Poly; ambient temperature of 40°C, emissivity 0.9, 2ft/sec. wind in sun.

##Designated 6201 neutral sizes are ACSR 6/1 diameter equivalent, phase conductor resistivity equivalent per ASTM B399.