



Quadruplex Service Drop Cable

600V Quadruplex Service Drop Cable --AAC/ACSR/AAAC

SPECIFICATIONS AND STANDARDS

ASTM B-230: Aluminum Wire, 1350-H19 for Electrical Purposes.

ASTM B231: Concentric Lay-Stranded Aluminum 1350 Conductors.

ASTM B232: Specification for Concentric-Lay-Stranded Aluminum Conductors, Coated Steel Reinforced (ACSR).

ASTM B399: Specification for Concentric-Lay-Stranded Aluminum Alloy 6201-T81 Conductors.

ASTM B-901: Compressed Round Stranded Aluminum Conductors Using Single Input Wire.



Quadruplex service drop cable meets or exceeds all applicable requirements of **ANSI/ ICEA S-76-474**.

CONSTRUCTION:

Quadruplex service drop Cable is consist of **Three insulated phase conductor twisted around a bare neutral conductor**.

1. Phase Conductor: The phase conductor is aluminum alloy 1350-H19 hard-drawn, compressed concentric-lay-stranded.

2. Insulation Material: The standard insulation on the phase conductor is black low-density cross-linked polyethylene (XLPE), The XLPE insulation meets the requirements of ANSI/ICEA S-76-474-2004 (Standard for Neutral-Supported Power Cable Assemblies with Weather-Resistant Extruded Insulation Rated 600 Volts).

3. Bare Neutral Conductor:

The All-aluminum Stranded Conductors are :

- Class A 1350-H19 (AAC) hard-drawn, concentric-lay-stranded
- Class AA (ACSR) Aluminum conductors Steel reinforced, concentric-lay-stranded
- Class A 6201-T81 Alloy (AAAC), concentric-lay-stranded

4. Assembly: Three insulated phase conductors are twisted around the bare neutral conductor with a right-hand lay length of 25 to 60 times the diameter of one phase conductor.

APPLICATIONS

Quadruplex service drop cable is used for 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 phase-to-phase or less and at conductor temperatures not to exceed 75°C for polyethylene insulated conductors or 90°C for cross-linked polyethylene (XLP) insulated conductors.



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Quadruplex Service Drop Cable manufactured to ASTM / ICEA:

Code Word	Phase Conductors			Bare Neutral			Weight per 1000 ft. (lbs)		Rating (AMPS)	
	Size AWG	Strand	Insulation Thickness (MLS)	Size AWG	Strand	Breaking Strength (lbs)	XLPE	PE	XLPE	PE
AAC- Bare Neutral Messenger										
Clydesdale	4	Solid	45	4	7	881	208	201	100	80
Pinto	4	7/w	45	4	7	881	223	207	100	80
Mustang	2	7/w	45	2	7	1,350	333	312	135	105
Criollo	1/0	19/w	60	1/0	7	1,990	529	504	180	135
Percheron	2/0	19/w	60	2/0	7	2,510	649	620	205	155
Hanovarian	3/0	19/w	60	3/0	19	3,310	799	765	235	180
Oldenburg	4/0	19/w	60	4/0	19	4,020	986	946	270	205
Lippizaner	336.4	19/w	60	336.4	19	6,146	1,546	1,519	330	240
ACSR – Neutral Messenger										
Morochuca	6	Solid	45	6	6/1	1,190	152	147	75	60
Chola	6	7/w	45	6	6/1	1,190	162	151	75	60
Morgan	4	Solid	45	4	6/1	1,860	226	220	100	80
Hackney	4	7/w	45	4	6/1	1,860	241	226	100	80
Palomino	2	7/w	45	2	6/1	2,850	362	342	135	105
Costena	1/0	19/w	60	1/0	6/1	4,380	575	550	180	135
Grullo	2/0	19/w	60	2/0	6/1	5,310	707	678	205	155
Suffolk	3/0	19/w	60	3/0	6/1	6,620	872	838	235	180
Appaloosa	4/0	19/w	60	4/0	6/1	8,350	1,079	1,039	270	205
Bronco	336.4	19/w	60	336.4	18/1	8,580	1,613	1,568	330	240
Gelding	336.4	19/w	60	4/0	6/1	8,350	1,548	1,494	330	240
AAAC – 6201 Alloy Neutral Messenger										
Bay	6	Solid	45	6	7	1,110	145	140	75	60
French Coach	6	7/w	45	6	7	1,110	155	144	75	60
German Coach	4	Solid	45	4	7	1,760	214	208	100	80
Arabian	4	7/w	45	4	7	1,760	229	214	100	80
Belgian	2	7/w	45	2	7	2,800	344	323	135	105



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Shetland	1/0	19/w	60	1/0	7	4,460	546	521	180	135
Thoroughbred	2/0	19/w	60	2/0	7	5,390	670	641	205	155
Trotter	3/0	19/w	60	3/0	7	6,790	825	791	235	180
Walking	4/0	19/w	60	4/0	7	8,560	1,019	979	270	205

*Code words for XLPE insulated products are formed by adding "/XLPE" to the conventional code words above (e.g.-Haitis/XLPE).

+Conductor temperature of 90°C for XLPE, 75°C for PE; ambient temperature of 40°C; emissivity 0.9; 2 ft./sec. wind in sun.

++Designated sizes are: ACSR 6/1 diameter equivalent and AAC with equivalent resistivity per ASTM B-399 for 6201.