



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

## CONSTRUCTION:

Duplex Overhead Secondary Distribution Cable assemblies consist of **one insulated phase conductor** and 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:** The insulated phase conductor is twisted around the bare neutral conductor with a right-hand lay length of 25 to 60 times the diameter of the phase conductor.

## APPLICATIONS

Duplex service drop cable is intended to deliver single phase power from the secondary power line or pole mounted transformer to the service entrance conductors at the user's building or other structure. It may also be used as pole line secondary with service splices at the pole or in mid-span. Their use should be limited to circuits not exceeding 600 volts phase-to-phase and a 90°C normal conductor temperature.



# Duplex Service Drop Cable

600V Duplex Service Drop Cable — AAC/ACSR/AAAC

## Duplex 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	
<b>AAC- Bare Neutral Messenger</b>											
Peakingese	6	Solid	45	6	7/w	563	63.5	61.7	85	70	
Collie	6	7/w	45	6	7/w	563	66.8	63.1	85	70	
Dachshund	4	Solid	45	4	7/w	881	95.5	93.4	110	90	
Spaniel	4	7/w	45	4	7/w	881	100.5	95.4	110	90	
Doberman	2	7/w	45	2	7/w	1,350	152.7	145.7	150	120	
Malamute	1/0	19/w	60	1/0	7/w	1,990	242.6	234.2	205	160	
<b>ACSR – Bare Neutral Messenger</b>											
Setter	6	Solid	45	6	6/1	1,190	75.0	73.2	85	70	
Shepherd	6	7/w	45	6	6/1	1,190	78.3	74.6	85	70	
Eskimo	4	Solid	45	4	6/1	1,860	113.7	111.6	110	90	
Terrier	4	7/w	45	4	6/1	1,860	118.7	113.6	110	90	
Chow	2	7/w	45	2	6/1	2,850	181.7	174.7	150	120	
Bull	1/0	19/w	60	1/0	6/1	4,380	288.7	280.3	200	160	
<b>AAAC – Bare Alloy Neutral Messenger</b>											
Chihuahua	6	Solid	45	6	7/w	1,110	67.6	65.8	85	70	
Vizsla	6	7/w	45	6	7/w	1,110	70.9	67.2	85	70	
Harrier	4	Solid	45	4	7/w	1,760	102.0	99.9	110	90	
Whippet	4	7/w	45	4	7/w	1,760	107.0	101.9	110	90	
Schnauzer	2	7/w	45	2	7/w	2,800	163.3	156.2	150	120	
Heeler	1/0	19/w	60	1/0	7/w	4,460	259.2	250.8	200	160	