

Overhead Service Drop Cable Application

This duplexed triplexed quadruplexed cable is suited for use as drop cable from a pole mounted transformer to the service entrance of a structure, or as secondary distribution between poles. The cable should be limited to 600V phase to phase and not exceed 90°C. Triplex wire is commonly used for overhead, single phase service and contains three individual wires twisted around each other. The two insulated conductors are called the "hot" legs of the service while the bare (uninsulated) wire is the neutral wire of the service. As mentioned above, this triplexed cable is suited for use as drop cable from a pole mounted transformer to the service entrance of a structure, or as secondary distribution between poles.

Overhead Service Drop Cable Construction

Insulation made of cross-linked polyethylene, polyethylene, or compressed 1350-H19 conductor in concentrated strands.

Phase conductor:

Round, stranded, round conductor made of aluminum 1350

Phase Core Identification:

colour strip, rib or number

Neutral/Messenger conductor:

Bare AAC, ACSR, alloy 6201 AAAC

Insulation:

Black color polyethylene(PE) or cross-linked polyethylene(XLPE)

Overhead Service Drop Cable Standards

ASTM B-230: Aluminum 1350-H19 wire for electrical purposes.

ASTM B-231: Concentric lay stranded aluminum 1350 conductors.

ICEA S-76-474: Neutral supported power cable assemblies with weather resistant extruded insulation rated at 600V.

ANSI/ICEA S-76-474 Standard Duplex Service Drop Wire Specification Physical and Electrical Performance Parameters

Bare AAC Neutral Messenger

Code Name	Size	Phase Conductor Strands			Bare Neutral Messenger 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	lb	A	A
Pekingese	1*6AWG+1*6AWG	1	4.11	1.14	7	1.56	563	63.5	61.7	85	70	
Collie	1*6AWG+1*6AWG	7	1.56	1.14	7	1.56	563	66.8	63.1	85	70	
Dachshund	1*4AWG+1*4AWG	1	5.19	1.14	7	1.96	881	95.5	93.4	115	90	
Spaniel	1*4AWG+1*4AWG	7	1.96	1.14	7	1.96	881	100.5	95.4	115	90	
Doberman	1*2AWG+1*2AWG	7	2.47	1.14	7	2.47	1350	152.7	145.7	150	120	
Malemute	1*1/0AWG+1*1/0AWG	19	1.89	1.52	7	3.12	1990	242.6	234.2	205	160	

ANSI/ICEA S-76-474 Standard Triplex Service Drop Wire Size Physical and Electrical Performance Parameters

Bare AAC Neutral Messenger

Code Name	Size	Phase Conductor Strands			Bare Neutral Messenger Strands		
		AAC		Insul. Thick.	Bare AAC		Breaking Strength
		No.	Dia.		No.	Dia.	
-	AWG or kcmil	-	mm	mm	-	mm	lb
Haiotis	2*6AWG+1*6AWG	1	4.11	1.14	7	4.11	563
Patella	2*6AWG+1*6AWG	7	1.56	1.14	7	1.56	563
Fusus	2*4AWG+1*4AWG	1	5.19	1.14	7	5.19	881
Oyster	2*4AWG+1*4AWG	7	1.96	1.14	7	1.96	881
Clam	2*2AWG+1*2AWG	7	2.47	1.14	7	2.47	1350
Murex	2*1/0AWG+1*1/0AWG	7	3.12	1.52	7	3.12	1990

Purpura	2*1/0AWG+1*1/0AWG	19	1.89	1.52	7	1.89	1990
Nassa	2*2/0AWG+1*2/0AWG	7	3.50	1.52	7	3.50	2510
Melita	2*3/0AWG+1*3/0AWG	19	2.39	1.52	19	2.39	3310
Portunus	2*4/0AWG+1*4/0AWG	19	3.25	1.52	19	3.25	4020
Nannynose	2*336.4kcmil+1*336.4kcmil	19	3.38	2.03	19	3.38	6146

ANSI/ICEA S-76-474 Standard Quadruplex Service Drop Cable Aluminum Conductor Physical and Electrical Performance Parameters

Bare AAC Neutral Messenger

Code Name	Size	Phase Conductor Strands			Bare Neutral Messenger Strands		
		AAC		Insul. Thick.	Bare AAC		Breaking Strer
		No.	Dia.		No.	Dia.	
-	AWG or kcmil	-	mm	mm	-	mm	lb
Clydesdate	3*4AWG+1*4AWG	1	5.19	1.14	7	1.96	881
Pinto	3*4AWG+1*4AWG	7	1.96	1.14	7	1.96	881
Mustang	3*2AWG+1*2AWG	7	2.47	1.14	7	2.47	1350
Criollo	3*1/0AWG+1*1/0AWG	19	1.89	1.52	7	3.12	1990
Percheron	3*2/0AWG+1*2/0AWG	19	2.13	1.52	7	3.50	2510
Hanoverian	3*3/0AWG+1*3/0AWG	19	2.39	1.52	19	2.39	3310
Oldenburg	3*4/0AWG+1*4/0AWG	19	3.25	1.52	19	3.25	4020
Lippizaner	3*336.4kcmil+1*336.4kcmil	19	3.38	2.03	19	3.38	6146