

**Application**

Primarily used for overhead service applications such as street lighting, outdoor lighting, and temporary service for construction. 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 (XLPE) insulated conductors.

**Description**

The conductor consists of a phase conductor and a neutral conductor. The material of the phase conductors is Aluminum or copper and may be solid, stranded circular compacted or compressed or uncompressed conductor. The neutral conductors are stranded round circular uncompressed aluminum or copper or aluminum-alloy conductor or ACSR or ACSR/AW etc. And the insulating material is black weather or UV-resistant thermoplastic polyethylene (PE) or cross-linked polyethylene (XLPE).

Note: Neutral conductors can be insulated or non-insulated.

**Specifications**

- ANSI/ICEA S-76-474 Neutral-Supported Power Cable Assemblies With Weather-Resistant Extruded Insulation Rated 600 Volts.
- ASTM B 231 Class AA, A, or B Stranded Aluminum 1350 (Excluding Unilay Compressed)
- ASTM B 400 Compact-Round Stranded Aluminum 1350 Conductors.
- ASTM B 399 Class AA, or A Stranded Aluminum-Alloy 6201 T-81 Conductors.
- ASTM B 232 Concentric-Lay-Stranded Aluminum Conductors, Coated-Steel Reinforced (ACSR)
- ASTM B 549 For Concentric-Lay-Stranded Aluminum Conductors, Aluminum-Clad Steel Reinforced (ACSR/AW)

**Parameter**

Duplex Service Drop - Aluminum Conductors

Code Word	Phase Conductor			Bare Neutral Messenger			Approx. Diameter of Cable	Approx. Weight
	Size	No. of wires	Nominal Insulation Thickness	Size	No. of Wires	Diameter of Wires		
	AWG or Kcmil	No.	mm	AWG or Kcmil	No.	mm		
<b>AAC/XLPE+AAC</b>								
Pekingese	6	1	1.14	6	7	1.56	11.1	92
Collie	6	7	1.14	6	7	1.56	11.5	94
Cocker	6	7	1.52	6	7	1.56	12.2	100
Dachshund	4	1	1.14	4	7	1.96	13.4	140
Spaniel	4	7	1.14	4	7	1.96	13.9	143
Cairn	4	7	1.52	4	7	1.96	14.6	150
Doberman	2	7	1.14	2	7	2.47	16.9	220
Airedale	1	19	1.52	1	7	2.78	19.6	280
Basset	1/0	7	1.52	1/0	7	3.12	21.8	355

Malemute	1/0	19	1.52	1/0	7	3.12	21.6	350
<b>AAC/XLPE+AAAC</b>								
Chihuahua	6	1	1.14	30.58	7	1.68	11.4	98
Vizsla	6	7	1.14	30.58	7	1.68	11.8	100
Harrier	4	1	1.14	48.69	7	2.12	13.8	149
Whippet	4	7	1.14	48.69	7	2.12	14.4	154
Schnauzer	2	7	1.14	77.47	7	2.67	17.5	235
Afghan	1/0	7	1.52	123.3	7	3.37	22.5	378
Heeler	1/0	19	1.52	123.3	7	3.37	22.3	375
<b>AAC/XLPE+ACSR</b>								
Setter	6	1	1.14	6	6/1	1.68	11.4	109
Shepherd	6	7	1.14	6	6/1	1.68	11.8	112
Retriever	6	7	1.52	6	6/1	1.68	12.6	119
Eskimo	4	1	1.14	4	6/1	2.12	13.8	166
Terrier	4	7	1.14	4	6/1	2.12	14.4	170
Yorkshire	4	7	1.52	4	6/1	2.12	15.1	180
Chow	2	7	1.14	2	6/1	2.67	17.5	262
Labrador	1	19	1.52	1	6/1	3	20.2	339
Bloodhound	1/0	7	1.52	1/0	6/1	3.37	22.5	425
Bull	1/0	19	1.52	1/0	6/1	3.37	22.3	422

**Triplex Service Drop - Aluminum Conductors**

Code Word	Phase Conductor			Bare Neutral Messenger			Approx. Diameter of Cable	Approx. Weight
	Size	No. of Wires	Nominal Insulation Thickness	Size	No. of Wires	Diameter of Wires		
	AWG or Kcmil	No.	mm	AWG or Kcmil	No.	mm		
<b>AAC/XLPE+AAC</b>								
Haiotis	6	1	1.14	6	7	1.56	12.6	148
Pike	6	7	0.76	6	7	1.56	12.1	139
Patella	6	7	1.14	6	7	1.56	13.2	154
Albus	6	7	1.52	6	7	1.56	14.3	170

Fusus	4	1	1.14	4	7	1.96	15	221
Limpet	4	7	1.14	6	7	1.56	14.9	208
Oyster	4	7	1.14	4	7	1.96	15.8	230
Argo	4	7	1.52	4	7	1.96	16.9	249
Clam	2	7	1.14	2	7	2.47	19	347
Thia	2	7	1.52	2	7	2.47	20.1	370
Mussel	2	7	1.14	4	7	1.96	17.9	312
Pyrula	1	7	1.52	1	7	2.78	22.4	465
Hyas	1	19	1.52	1	7	2.78	22.2	450
Snail	1/0	7	1.52	2	7	2.47	23.2	517
Murex	1/0	7	1.52	1/0	7	3.12	24.6	572
Purpura	1/0	19	1.52	1/0	7	3.12	24.4	554
Nassa	2/0	7	1.52	2/0	7	3.5	27.1	706
Trophon	2/0	19	1.52	2/0	7	3.5	26.8	684
Quahog	3/0	7	2.03	3/0	7	3.93	31.3	920
Ione	3/0	19	2.03	3/0	7	3.93	31	892
Melita	3/0	19	1.52	3/0	19	2.39	29.7	845
Coquina	4/0	7	1.52	4/0	7	4.42	33	1082
Tusk	4/0	7	2.03	4/0	7	4.42	34.5	1134
Apus	4/0	19	2.03	4/0	7	4.42	34.1	1098
Portunus	4/0	19	2.03	4/0	19	2.68	34.2	1098
Chiton	266.8	19	2.03	266.8	19	3.01	38.4	1379
Alverno	300	37	2.03	4/0	19	2.68	37.8	1386
Nannynose	336.4	19	2.03	336.4	19	3.38	42.4	1707
AAC/XLPE+AAAC								
Minex	6	1	1.14	30.58	7	1.68	12.8	154
Hippa	6	7	1.14	30.58	7	1.68	13.4	160

Code Word	Phase Conductor			Bare Neutral Messenger			Approx. Diameter of Cable	Approx. Weight
	Size	No. of Wires	Nominal Insulation Thickness	Size	No. of Wires	Diameter of Wires		
	AWG or Kcmil	No.	mm	AWG or Kcmil	No.	mm		
AAC/XLPE+AAAC								

Artemia	4	1	1.14	30.58	7	1.68	14.4	205
Crad	4	7	1.14	30.58	7	1.68	15.2	214
Prawn	4	1	1.14	48.69	7	2.12	15.3	231
Barnacle	4	7	1.14	48.69	7	2.12	16.1	239
Solaster	2	7	1.14	48.69	7	2.12	18.2	322
Pagurus	2	7	1.52	48.69	7	2.12	19.3	345
Shrimp	2	7	1.14	77.47	7	2.67	19.4	362
Lobster	2	7	1.52	77.47	7	2.67	20.5	385
Sanderab	1/0	7	1.52	77.47	7	2.67	23.6	532
Echinus	1/0	19	1.52	77.47	7	2.67	23.4	514
Gammarus	1/0	7	1.52	123.3	7	3.37	25.1	597
Leda	1/0	19	1.52	123.3	7	3.37	24.9	579
Crayfish	2/0	7	1.52	97.65	7	3	26	655
Sipho	2/0	19	1.52	97.65	7	3	25.7	633
Abalone	2/0	7	1.52	123.3	7	3.37	26.8	691
Spirula	2/0	19	1.52	123.3	7	3.37	26.5	669
Dungenese	2/0	7	1.52	155.4	7	3.78	27.7	736
Cyclops	2/0	19	1.52	155.4	7	3.78	27.4	714
Slug	3/0	7	1.52	123.3	7	3.37	28.6	809
Fulgur	3/0	19	1.52	123.3	7	3.37	28.4	781
Balanus	3/0	19	2.03	123.3	7	3.37	29.8	828
Stonecrab	3/0	7	1.52	195.7	7	4.25	30.5	904
Flustra	3/0	19	1.52	195.7	7	4.25	30.3	884
Crisia	3/0	19	2.03	195.7	7	4.25	31.7	931
Squid	4/0	7	1.52	155.4	7	3.78	31.6	1001
Arca	4/0	19	1.52	155.4	7	3.78	31.3	966
Bugula	4/0	19	2.03	155.4	7	3.78	32.7	1018
Kingcrab	4/0	7	1.52	246.9	7	4.77	33.8	1131
Lepas	4/0	19	1.52	246.9	7	4.77	33.4	1096
Cassis	4/0	19	2.03	246.9	7	4.77	34.9	1147

Cyphoma	4/0	7	1.52	123.3	7	3.37	30.8	957
Mitre	4/0	19	1.52	123.3	7	3.37	30.4	921
Argonaut	336.4	19	2.03	246.9	7	4.77	40.5	1579
Nautilus	336.4	19	2.03	394.5	19	3.66	43.4	1787

Code Word	Phase Conductor			Bare Neutral Messenger			Approx. Diameter of Cable	Approx. Weight
	Size	No. of Wires	Nominal Insulation Thickness	Size	No. of wires	Diameter of Wires		
	AWG or Kcmil	No.	mm	AWG or Kcmil	No.	mm	mm	kg/km
<b>AAC/XLPE+ACSR</b>								
Paludina	6	1	1.14	6	6/1	1.68	12.8	165
Voluta	6	7	1.14	6	6/1	1.68	13.4	171
Bolma	6	7	1.52	6	6/1	1.68	14.5	188
Scallop	4	1	1.14	6	6/1	1.68	14.4	217
Strombus	4	7	1.14	6	6/1	1.68	15.1	225
Carnea	4	7	1.52	6	6/1	1.68	16.2	244
Whelk	4	1	1.14	4	6/1	2.12	15.3	249
Periwinkle	4	7	1.14	4	6/1	2.12	16.1	257
Calma	4	7	1.52	4	6/1	2.12	17.2	277
Cockle	2	7	1.14	4	6/1	2.12	18.2	340
Gebia	2	7	1.52	4	6/1	2.12	19.3	363
Conch	2	7	1.14	2	6/1	2.67	19.4	391
Uca	2	7	1.52	2	6/1	2.67	20.5	414
Vermeths	1	7	1.52	1	6/1	3	22.9	520
Atya	1	19	1.52	1	6/1	3	22.6	506
Janthina	1/0	7	1.52	2	6/1	2.67	23.6	561
Ranella	1/0	19	1.52	2	6/1	2.67	23.4	543
Neritina	1/0	7	1.52	1/0	6/1	3.37	25.1	642

Cenia	1/0	19	1.52	1/0	6/1	3.37	24.9	624
Cavolinia	2/0	7	1.52	1	6/1	3	26	691
Clio	2/0	19	1.52	1	6/1	3	25.7	669
Runcina	2/0	7	1.52	2/0	6/1	3.78	27.7	794
Triton	2/0	19	1.52	2/0	6/1	3.78	27.4	772
Sanddollar	3/0	7	1.52	1/0	6/1	3.37	28.6	854
Aega	3/0	19	1.52	1/0	6/1	3.37	28.4	827
Pisa	3/0	19	2.03	1/0	6/1	3.37	29.8	874
Cherrystone	3/0	7	1.52	3/0	6/1	4.25	30.5	983
Mursia	3/0	19	1.52	3/0	6/1	4.25	30.3	956
Mysis	3/0	19	2.03	3/0	6/1	4.25	31.7	1003
Cuttlefish	4/0	7	1.52	2/0	6/1	3.78	31.7	1059

Code Word	Phase Conductor			Bare Neutral Messenger			Approx. Diameter of Cable	Approx. Weight
	Size	No. of Wires	Nominal Insulation Thickness	Size	No. of wires	Diameter of Wires		
	AWG or Kcmil	No.	mm	AWG or Kcmil	No.	mm		
<b>AAC/XLPE+ACSR</b>								
Cerapus	4/0	19	1.52	2/0	6/1	3.78	31.3	1024
Nepatus	4/0	19	2.03	2/0	6/1	3.78	32.7	1075
Razor	4/0	7	1.52	4/0	6/1	4.77	33.8	1222
Zuzara	4/0	19	1.52	4/0	6/1	4.77	33.4	1187
Alima	4/0	19	2.03	4/0	6/1	4.77	34.9	1238
Callista	266.8	19	2.03	3/0	6/1	4.25	36.7	1350
Dosinia	266.8	19	2.03	266.8	6/1	3.09	38.7	1438
Cowry	336.4	19	2.03	4/0	18/1	4.77	40.5	1670
Limpet	336.4	19	2.03	336.4	6/1	3.47	42.7	1782

**Quadruplex Service Drop - Aluminum Conductors**

Code Word	Phase Conductor	Bare Neutral	Approx.	Approx.
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				Messenger			Diameter of Cable	Weight
	Size	No. of Wires	Nominal Insulation Thickness	Size	No. of wires	Diameter of Wires		
	AWG or Kcmil	No.	mm	AWG or Kcmil	No.	mm	mm	kg/km
<b>AAC/XLPE+AAC</b>								
Quarter	6	1	1.14	6	7	1.56	14.4	203
Clydesdale	4	1	1.14	4	7	1.96	17.1	302
Pinto	4	7	1.14	4	7	1.96	18.1	315
Mustang	2	7	1.14	2	7	2.47	21.7	474
Shire	1	19	1.52	1	7	2.78	25.4	616
Libyan	1/0	7	1.52	1/0	7	3.12	28.2	784
Criollo	1/0	19	1.52	1/0	7	3.12	27.9	757
Orloff	2/0	7	1.52	2/0	7	3.5	30.9	965
Percheron	2/0	19	1.52	2/0	7	3.5	30.6	931
Mongolian	3/0	7	1.52	3/0	7	3.93	34.1	1190
Hanoverian	3/0	19	1.52	3/0	19	2.39	33.8	1148
Singlefoot	4/0	7	1.52	4/0	7	4.42	37.6	1474
Oldenburg	4/0	19	1.52	4/0	19	2.68	37.2	1421
Lippizaner	336.4	19	2.03	336.4	19	3.38	48.3	2322
<b>AAC/XLPE+AAAC</b>								
Bay	6	1	1.14	30.58	7	1.68	14.7	209
French-Coach	6	7	1.14	30.58	7	1.68	15.4	218
German-Coach	4	1	1.14	48.69	7	2.12	17.4	312
Arabian	4	7	1.14	48.69	7	2.12	18.4	324
Belgian	2	7	1.14	77.47	7	2.67	22	489
Viatka	1/0	7	1.52	77.47	7	2.67	27.4	743

Thoroughbred	2/0	19	1.52	155.4	7	3.78	31.1	962
Celtic	2/0	7	1.52	123.3	7	3.37	30.7	950
Norman	2/0	19	1.52	123.3	7	3.37	30.3	917
Donkey	3/0	7	1.52	123.3	7	3.37	33	1126
Burro	3/0	19	1.52	123.3	7	3.37	32.7	1085
Dobbin	3/0	7	1.52	195.7	7	4.25	34.6	1229
Trotter	3/0	19	1.52	195.7	7	4.25	34.3	1188
Roan	4/0	7	1.52	123.3	7	3.37	35.7	1348
Gotland	4/0	19	1.52	123.3	7	3.37	35.2	1295
Bali	4/0	7	1.52	155.4	7	3.78	36.5	1393
Skyros	4/0	19	1.52	155.4	7	3.78	36	1340
Pony	4/0	7	1.52	246.9	7	4.77	38.3	1522

Code Word	Phase Conductor			Bare Neutral Messenger			Approx. Diameter of Cable	Approx. Weight
	Size	No. of Wires	Nominal Insulation Thickness	Size	No. of Wires	Diameter of Wires		
	AWG or Kcmil	No.	mm	AWG or Kcmil	No.	mm		
<b>AAC/XLPE+AAAC</b>								
Walking	4/0	19	1.52	246.9	7	4.77	37.8	1470
Exmoor	336.4	19	2.03	246.9	19	2.89	46.8	2193
Breton	336.4	19	2.03	394.5	19	3.66	49.1	2402
<b>AAC/XLPE+ACSR</b>								
Morochuca	6	1	1.14	6	6/1	1.68	14.7	221
Chola	6	7	1.14	6	6/1	1.68	15.4	229
Morgan	4	1	1.14	4	6/1	2.12	17.4	330
Hackney	4	7	1.14	4	6/1	2.12	18.4	342
Palomino	2	7	1.14	2	6/1	2.67	22	518
Albino	1	19	1.52	1	6/1	3	25.8	672
Standardbred	1/0	7	1.52	1/0	6/1	3.37	28.6	854
Costena	1/0	19	1.52	1/0	6/1	3.37	28.3	827



Chicoteagues	2/0	7	1.52	2/0	6/1	3.78	31.5	1053
Grullo	2/0	19	1.52	2/0	6/1	3.78	31.1	1022
Mare	3/0	7	1.52	3/0	6/1	4.25	34.6	1301
Suffolk	3/0	19	1.52	3/0	6/1	4.25	34.3	1260
Stallion	4/0	7	1.52	4/0	6/1	4.77	38.3	1614
Appaloosa	4/0	19	1.52	4/0	6/1	4.77	37.8	1561
Gelding	336.4	19	2.03	4/0	6/1	4.77	46.7	2285
Bronco	336.4	19	2.03	336.4	18/1	3.47	48.6	2396