

Service Drop Aluminum

XLPE or PE Insulated 600 V

Features

RUS accepted.

Extruded ridges for easy Phase identification.

Application

For overhead distribution of electrical energy, such as a supply power, from pole-mounted transformer to the user's service head where connection to the service entrance cable is made.

Also for Temporary services and street light installations.

Standards

ICEA S-76-474

Neutral-Supported Power Cable Assemblies with Weather-Resistant Extruded Insulation rated 600 V.

Specifications

Maximum operating voltage:

- 600 volts

Maximum conductor operation temperatures:

Wet and dry locations

PE

- Normal: 75 °C
- Emergency: 95 °C
- Short Circuit: 150 °C

XLPE

- Normal: 90 °C
- Emergency: 130 °C
- Short Circuit: 250 °C

Engineering Information

1. Conductor: Aluminum alloy 1350-H19, solid conductor per ASTM B230, compressed Class B stranding, or Class A stranding or unilay-compressed per ASTM B231, or combination unilay (19 wires) per ASTM B786.

Separator: A suitable opaque tape, as required.

2. Insulation: Black thermoset cross-linked polyethylene (XLPE) thermoplastic High Density polyethylene (HDPE).

3. Neutral: Bare aluminum alloy 1350-H19 classes A stranding per ASTM B231 or ACSR stranding per ASTM B232, or ACSR/AW per

ASTM B549 or Aluminum Alloy 6201 conductors, per ASTM B399.

On request, cover neutral.

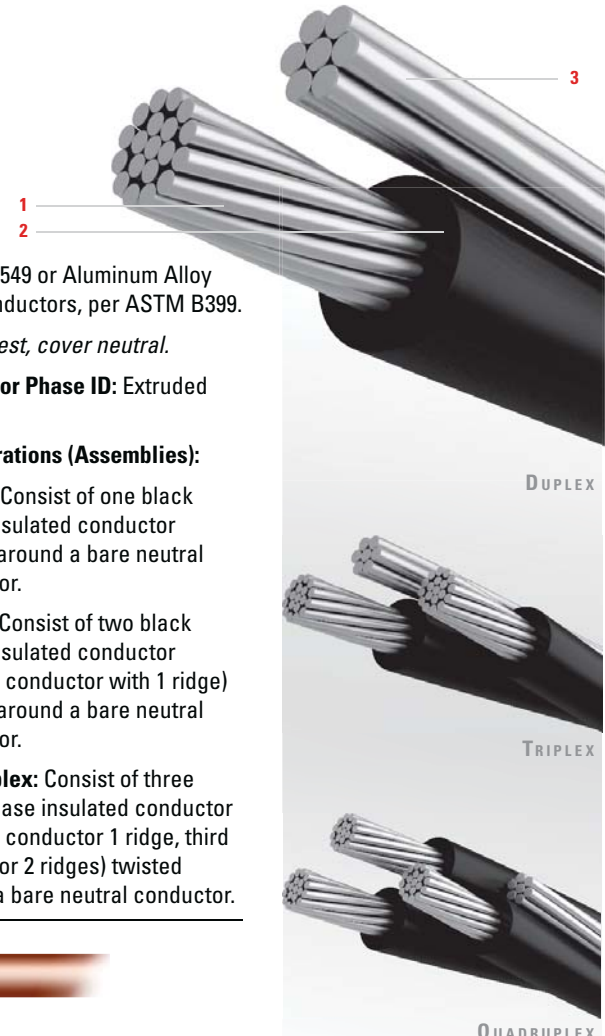
Conductor Phase ID: Extruded ridges.

Configurations (Assemblies):

Duplex: Consist of one black phase insulated conductor twisted around a bare neutral conductor.

Triplex: Consist of two black phase insulated conductor (Second conductor with 1 ridge) twisted around a bare neutral conductor.

Quadruplex: Consist of three black phase insulated conductor (Second conductor 1 ridge, third conductor 2 ridges) twisted around a bare neutral conductor.



Technical Data

Duplex

Code Word	Phase Conductor			Cable OD	Neutral Messenger			Weight	
	Size AWG or kcmil	Number of Strands	Insulation Thickness mil		Size AWG or kcmil	Number of Strands	Rated Strength lb	PE lb/kft	XLPE lb/kft
AAC Conductor and Neutral Messenger									
Pekingese	6	1	45	0.26	6	7	563	63	63
Collie	6	7	45	0.28	6	7	563	66	66
Cocker	6	7	60	0.31	6	7	563	73	72
Dachshund	4	1	45	0.30	4	7	881	94	94
Spaniel	4	7	45	0.33	4	7	881	99	99
Cairn	4	7	60	0.36	4	7	881	106	106
Doberman	2	7	45	0.39	2	7	1350	151	151
Malemute	1/0	19	60	0.50	1/0	7	1990	241	240

The above data are approximate and subject to normal manufacturing tolerances. Where required, the compatibility with glands, connectors and accessories should be verified using actual dimensions of the product. Other sizes available upon request.

Ampacities: Refer to beginning of section.

Technical Data *continued*

Duplex

Code Word	Phase Conductor			Cable OD in	Neutral Messenger			Weight	
	Size AWG or kcmil	Number of Strands	Insulation Thickness		Size AWG or kcmil	Number of Strands	Rated Strength	PE lb/kft	XLPE lb/kft
			mil				lb		
AAC Conductor and ACSR Neutral Messenger									
Setter	6	1	45	0.26	6	6/1	1190	75	74
Shepherd	6	7	45	0.28	6	6/1	1190	78	78
Retriever	6	7	60	0.31	6	6/1	1190	84	84
Eskimo	4	1	45	0.30	4	6/1	1860	113	113
Terrier	4	7	45	0.33	4	6/1	1860	118	118
Yorkshire	4	7	60	0.36	4	6/1	1860	125	125
Chow	2	7	45	0.39	2	6/1	2850	182	181
Bull	1/0	19	60	0.50	1/0	6/1	4380	289	288
AAC Conductor and AAAC Neutral Messenger									
Chihuahua	6	1	45	0.26	6	7	1110	67	67
Vizsla	6	7	45	0.28	6	7	1110	71	70
Harrier	4	1	45	0.30	4	7	1760	102	101
Whippet	4	7	45	0.33	4	7	1760	106	106
Schnauzer	2	7	45	0.39	2	7	2800	163	162
Afghan	1/0	7	60	0.50	1/0	7	4270	261	260
Heeler	1/0	19	60	0.50	1/0	7	4270	259	258

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Ampacities: Refer to beginning of section.

Triplex

Code Word	Phase Conductor			Cable OD in	Neutral Messenger			Weight	
	Size AWG or kcmil	Number of Strands	Insulation Thickness		Size AWG or kcmil	Number of Strands	Rated Strength	PE lb/kft	XLPE lb/kft
			mil				lb		
AAC Conductor and Neutral Messenger									
Haliotis	6	1	45	0.26	6	7	563	101	100
Patella	6	7	45	0.28	6	7	563	108	107
Fusus	4	1	45	0.30	4	7	881	149	149
Oyster	4	7	45	0.33	4	7	881	159	158
Clam	2	7	45	0.39	2	7	1350	240	238
Snail	1/0	7	60	0.50	2	7	1350	387	385
Murex	1/0	7	60	0.50	1/0	7	1990	387	385
Purpura	1/0	19	60	0.50	1/0	7	1990	382	380
Nassa	2/0	7	60	0.55	2/0	7	2510	477	474
Trophon	2/0	19	60	0.55	2/0	7	2510	471	469
Melita	3/0	19	60	0.60	3/0	19	3040	581	579
Portunus	4/0	19	60	0.65	4/0	19	3830	721	718
Nannynose	336.4	19	80	0.83	336.4	19	6150	1162	1157

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Ampacities: Refer to beginning of section.

Technical Data *continued*

Triplex

Code Word	Phase Conductor			Cable OD in	Neutral Messenger			Weight	
	Size AWG or kcmil	Number of Strands	Insulation Thickness		Size AWG or kcmil	Number of Strands	Rated Strength	PE	XLPE
			mil				lb	lb/kft	lb/kft
AAC Conductor and ACSR Neutral Messenger									
Paludina	6	1	45	0.26	6	6/1	1190	112	112
Voluta	6	7	45	0.28	6	6/1	1190	119	119
Bolma	6	7	60	0.31	6	6/1	1190	132	131
Scallop	4	1	45	0.30	6	6/1	1190	147	146
Strombus	4	7	45	0.33	6	6/1	1190	156	155
Whelk	4	1	45	0.30	4	6/1	1860	168	168
Periwinkle	4	7	45	0.33	4	6/1	1860	178	177
Calma	4	7	60	0.36	4	6/1	1860	192	191
Cockle	2	7	45	0.39	4	6/1	1860	235	234
Conch	2	7	45	0.39	2	6/1	2850	270	269
Gebia	2	7	60	0.42	4	6/1	1860	252	250
Janthina	1/0	7	60	0.50	2	6/1	2850	380	378
Ranella	1/0	19	60	0.50	2	6/1	2850	375	373
Neritina	1/0	7	60	0.50	1/0	6/1	4380	435	433
Kenia	1/0	19	60	0.50	1/0	6/1	4380	430	428
Cavolinia	2/0	7	60	0.55	1	6/1	3550	468	465
Clio	2/0	19	60	0.55	1	6/1	3550	462	460
Runcina	2/0	7	60	0.55	2/0	6/1	5300	537	535
Triton	2/0	19	60	0.55	2/0	6/1	5300	531	529
Aega	3/0	19	60	0.60	1/0	6/1	4380	570	568
Mursia	3/0	19	60	0.60	3/0	6/1	6620	658	655
Cerapus	4/0	19	60	0.65	2/0	6/1	5300	705	702
Zuzara	4/0	19	60	0.65	4/0	6/1	8350	815	813
Dosinia	266.8	19	80	0.76	266.8	18/1	6880	982	977
Cowry	336.4	19	80	0.83	4/0	6/1	8350	1137	1132
Limpet	336.4	19	80	0.83	336.4	18/1	8680	1213	1208
AAC Conductor and AAAC Neutral Messenger									
Minex	6	1	45	0.26	6	7	1110	105	104
Hippa	6	7	45	0.28	6	7	1110	112	111
Artemia	4	1	45	0.30	6	7	1110	139	138
Crab	4	1	45	0.33	6	7	1110	143	142
Prawn	4	1	45	0.30	4	7	1760	156	156
Barnacles	4	7	45	0.33	4	7	1760	166	165
Solaster	2	7	45	0.39	4	7	1760	223	222
Shrimp	2	7	45	0.39	2	7	2800	251	250
Lobster	2	7	60	0.42	2	7	2800	268	266
Sandcrab	1/0	7	60	0.50	2	7	2800	361	359
Echinus	1/0	19	60	0.50	2	7	2800	356	354
Gammarus	1/0	7	60	0.50	1/0	7	4270	405	403
Leda	1/0	19	60	0.50	1/0	7	4270	400	398
Dungeness	2/0	7	60	0.55	2/0	7	5390	499	497
Cyclops	2/0	19	60	0.55	2/0	7	5390	493	497
Fulgur	3/0	19	60	0.60	1/0	7	4270	540	537
Flustra	3/0	19	60	0.60	3/0	7	6790	609	607
Arca	4/0	19	60	0.65	2/0	7	5390	667	665
Lepas	4/0	19	60	0.65	4/0	7	8560	755	752

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Ampacities: Refer to beginning of section.

Technical Data *continued*

Quadruplex

Code Word	Phase Conductor			Cable OD in	Neutral Messenger			Weight	
	Size AWG or kcmil	Number of Strands	Insulation Thickness mils		Size AWG or kcmil	Number of Strands	Rated Strength lb	PE lb/kft	XLPE lb/kft
AAC Conductor and Neutral Messenger									
Quarter	6	1	45	0.26	6	7	563	138	137
Clydesdale	4	1	45	0.30	4	7	881	204	203
Pinto	4	7	45	0.33	4	7	881	219	217
Mustang	2	7	45	0.39	2	7	1350	328	326
Criollo	1/0	19	60	0.50	1/0	7	1990	524	520
Percheron	2/0	19	60	0.55	2/0	7	2510	643	640
Hanoverian	3/0	19	60	0.60	3/0	19	3040	792	788
Singlefoot	4/0	7	60	0.65	4/0	19	3830	993	988
Oldenburg	4/0	19	60	0.65	4/0	19	3830	979	974
Lippizaner	336.4	19	80	0.83	336.4	19	6150	1582	1574
AAC Conductor and ACSR Neutral Messenger									
Morochuca	6	1	45	0.26	6	6/1	1190	150	149
Chola	6	7	45	0.28	6	6/1	1190	161	160
Morgan	4	1	45	0.30	4	6/1	1860	223	222
Hackney	4	7	45	0.33	4	6/1	1860	238	236
Yearling	2	7	45	0.39	4	6/1	1860	324	322
Palomino	2	7	45	0.39	2	6/1	2850	358	356
Colt	1/0	19	60	0.50	2	6/1	2850	517	513
Standardbred	1/0	7	60	0.50	1/0	6/1	4380	523	520
Costena	1/0	19	60	0.50	1/0	6/1	4380	572	568
Haflinger	2/0	19	60	0.55	2/0	6/1	5300	665	662
Grullo	2/0	19	60	0.55	1/0	6/1	4380	704	700
Claiming	3/0	19	60	0.60	3/0	6/1	6620	781	777
Suffolk	3/0	19	60	0.60	1/0	6/1	4380	869	865
Toric	4/0	19	60	0.65	4/0	6/1	8350	926	922
Filly	4/0	19	60	0.65	2/0	6/1	5300	965	960
Appaloosa	4/0	19	60	0.65	4/0	6/1	8350	1075	1070
Gelding	336.4	19	80	0.83	4/0	6/1	8350	1557	1549
Bronco	336.4	19	80	0.83	336.4	18/1	8680	1633	1625
AAC Conductor and AAAC Neutral Messenger									
Bay	6	1	45	0.26	6	7	1110	142	141
French Coach	6	7	45	0.28	6	7	1110	153	152
German Coach	4	1	45	0.30	4	7	1760	211	210
Arabian	4	7	45	0.33	4	7	1760	226	224
Belgian	2	7	45	0.39	2	7	2800	339	337
Shetland	1/0	19	60	0.50	1/0	7	4270	541	538
Thoroughbred	2/0	19	60	0.55	2/0	7	5390	666	662
Trotter	3/0	19	60	0.60	3/0	7	6790	821	817
Walking	4/0	19	60	0.65	4/0	7	8560	1014	1010

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