PRIORITY
WIRE & CABLE, INC.

UTILITY WIRE & CABLE

Code Name Reference

Code Name	Cond. Size	Pg. #	Code Name	Cond. Size	Pg. #	Code Name	Cond. Size	Pg. #	Code Name	Cond. Size	Pg. #
Aega	3/0 AWG	19	Cairo	465.4 MCM	3	Dachshund	4 AWG	17	Gelding	336.4 MCM	20
Akron	30.58 MCM	3	Camellia	1000 MCM	2	Daffodil	350 MCM	1	German-Coach	4 AWG	21
Alliance	246.9 MCM	3	Canary	900 MCM	6	Dahlia	556.5 MCM	1	Gladiolus	1510.5 MCM	2
Almond	1/0 AWG	16	Canna	397.5 MCM	1	Daisy	266.8 MCM	1	Goldenrod	954 MCM	2
Alton	48.69 MCM	3	Canton	394.5 MCM	3	Darien	559.5 MCM	3	Goldentuft	450 MCM	1
Ames	77.47 MCM	3	Cardinal	954 MCM	6	Dartmouth	400 MCM	26	Gonzaga	300 MCM	26
Amherst	195.7 MCM	3	Carnation	1431 MCM	2	Daumier	500 MCM	N/A	Gould	250 MCM	N/A
Anaheim	155.4 MCM	3	Cattail	750 MCM	2	Davidson	3/0 AWG	28	Goya	2/0 AWG	N/A
Anona	336.4 MCM	16	Cavolinia	2/0 AWG	19	Degas	250 MCM	N/A	Grackle	1192.5 MCM	6
Appaloosa	4/0 AWG	20	Cenia	1/0 AWG	19	Delgado	4 AWG	26	Grapefruit	1033.5 MCM	N/A
Apple	6 AWG	16	Cerapus	4/0 AWG	19	Dipper	1351.5 MCM	6	Greeley	927.2 MCM	3
Apricot	4 AWG	16	Cezanne	2 AWG	N/A	Doberman	2 AWG	17	Grosbeak	636 MCM	6
Arabian	4 AWG	21	Cherrystone	3/0 AWG	19	Dorking	190.8 MCM	7	Grouse	80.0 MCM	7
Arbutus	795 MCM	2	Chestnut	1 AWG	16	Dotterel	176.9 MCM	7	Grullo	2/0 AWG	20
Arca	4/0 AWG	18	Chickadee	397.5 MCM	5	Dove	556.5 MCM	5	Guinea	159 MCM	7
Arch	2 AWG	N/A	Chihuahua	6 AWG	17	Drake	795 MCM	6	Hackberry	266.8 MCM	16
Artemia	4 AWG	18	Chola	6 AWG	20	Dufay	250 MCM	N/A	Hackney	4 AWG	20
Aster	2/0 AWG	1	Choppin	4/0 AWG	N/A	Duke	600 MCM	26	Haiotis	6 AWG	18
Azusa	123.3 MCM	3	Chow	2 AWG	17	Dungeness	2/0 AWG	18	Hals	350 MCM	N/A
Bach	3/0 AWG	N/A	Chukar	1780 MCM	7	Dyke	2 AWG	28	Handel	1 AWG	N/A
Bard	8 AWG	26	Chutepoke	850 MCM	N/A	Eagle	556.5 MCM	5	Hanoverian	3/0 AWG	20
Barnacles	4 AWG	18	Claflin	6 AWG	26	Earlham	4/0 Awg	28	Harrier	4 AWG	17
Bay	6 AWG	21	Clam	2 AWG	19	Echinus	1/0 Awg	18	Harvard	1/0 AWG	26
Beaumont	1113 MCM	N/A	Clemson	2 AWG	26	Egret	636 MCM	6	Hawk	477 MCM	5
Beech	2 AWG	16	Clio	2/0 AWG	19	El Greco	3/0 MCM	N/A	Hawkweed	1000 MCM	2
Belgian	2 AWG	21	Clydesdale	4 AWG	20	Elgin	652.4 MCM	3	Hawthorn	1192.5 MCM	2
Beloit	4/0 AWG	26	Cochin	211.3 MCM	7	Emory	500 MCM	26	Haydn	1/0 AWG	N/A
Bergen	1/0 AWG	27	Cockle	2 AWG	19	Erskine	6 AWG	27	Heeler	1/0 AWG	17
Bittern	1272 MCM	6	Cockscomb	900 MCM	2	Eskimo	4 AWG	17	Hen	477 MCM	5
Bitterroot	2750 MCM	2	Collie	6 AWG	17	Everett	2 AWG	26	Heuchera	650 MCM	1
Bluebell	1033.5 MCM	2	Columbine	1351.5 MCM	2	Fairfield	750 MCM	27	Hickory	4 AWG	16
Bluebird	2156 AWG	7	Conch	2 AWG	19	Falcon	1590 MCM	7	Hippa	6 AWG	18
Bluebonnet	3500 MCM	2	Condor	795 MCM	6	Fig	3/0 AWG	16	Hofstra	250 MCM	26
Bluejay	1113 MCM	6	Converse	2/0 AWG	27	Filbert	3/0 AWG	16	Holbein	4/0 AWG	N/A
Bobolink	1431 MCM	7	Coot	795 MCM	6	Finch	1113 MCM	6	Hollins	3/0 AWG	27
Bosch	500 MCM	N/A	Coreopsis	1590 MCM	2	Flag	700 MCM	1	Holyoke	500 MCM	27
Brahma	203.2 MCM	7	Corot	4/0 AWG	N/A	Flamingo	666.6 MCM	6	Hornbeam	4 AWG	N/A
Brahms	2/0 AWG	N/A	Cosmos	477 MCM	1	Flicker	477 MCM	5	Huckleberry	477 MCM	16
Brant	397.5 MCM	5	Costena	1/0 AWG	20	Flint	740.8 MCM	3	Hunter	2/0 AWG	27
Breadfruit	636 MCM	N/A	Cowry	336.4 MCM	19	Flustra	3/0 AWG	18	Hurricane	500 MCM	20
Brenau	1/0 AWG	27	Cowslip	2000 MCM	2	Fordham	1000 MCM	26	Hyacinth	500 MCM	1
Bronco	336.4 MCM	20	Crab	4 AWG	18	French-Coach	6 AWG	21	Ibis	397.5 MCM	5
Bruegel	3/0 AWG	N/A	Crayfish	2/0 AWG	18	Fulgar	3/0 AWG	18	Iris	2 AWG	1
Buckeye	4/0 AWG	16	Criollo	1/0 AWG	20	Furman	700 MCM	26	Ives	2/0 AWG	N/A
Bull	1/0 AWG	17	Cuckoo	795 MCM	6	Fusus	4 AWG	18	Janthina	1/0 AWG	19
Bunting	1192.5 MCM	6	Curlew	1033.5 MCM	6	Gable	1/0 AWG	N/A	Jessamine	1750 MCM	2
Butte	312.8 MCM	3	Cuttlefish	4/0 AWG	19	Gammarus	1/0 AWG	18	Joist	1/0 AWG	N/A
Butternut	4 AWG	16	Cyclops	2/0 AWG	18	Gannet	666.6 MCM	6	Joree	2515 MCM	7

Code Name Reference

Code Name	Cond. Size	Pg. #	Code Name	Cond. Size	Pg. #	Code Name	Cond. Size	Pg. #	Code Name	Cond. Size	Pg. #
Kenyon	1 AWG	26	Nasturtium	715.5 MCM	2	Pratt	250 MCM	27	Sparrow	2 AWG	5
Kingbird	636 MCM	6	Neritina	1/0 AWG	19	Prawn	4 AWG	18	Squab	605 MCM	6
Kiwi	2167 MCM	7	Niagara	350 MCM	28	Princeton	6 AWG	26	Starling	715.5 MCM	6
Lafayette	2/0 AWG	28	Notre Dame	1/0 AWG	28	Purdue	1/0 AWG	28	Stephens	2 AWG	27
Lapwing	1590 MCM	7	Nuthatch	1510.5 MCM	7	Purpura	1/0 AWG	19	Stilt	715.5 MCM	6
Lark	397.5 MCM	5	Oilnut	1/0 AWG	N/A	Quail	2/0 AWG	5	Strauss	750 MCM	N/A
Larkspur	1033.5 MCM	2	Oldenburg	4/0 AWG	20	Quince	1/0 AWG	16	Strombus	4 AWG	19
Laurel	266.8 MCM	1	Olive	4/0 AWG	16	Rail	954 MCM	6	Suffolk	3/0 AWG	20
Leda	1/0 AWG	18	Orange	2/0 AWG	16	Ramapo	2 AWG	27	Swan	4 AWG	5
Leghorn	134.6 MCM	7	Orchid	636 MCM	1	Ranella	1/0 AWG	19	Swanate	4 AWG	5
Lepas	4/0 AWG	18	Oriole	336.4 MCM	5	Rapheal	1/0 AWG	N/A	Swarthmore	3/0 AWG	28
Les Boules	864.9 MCM	6	Ortolan	1033.5 MCM	6	Ravel	3/0 AWG	N/A	Sweetbriar	4/0 AWG	27
Lilac	795 MCM	2	Osprey	556.5 MCM	5	Raven	1/0 AWG	5	Swift	636 MCM	6
Limpet	336.4 MCM	19	Ostrich	300 MCM	5	Razor	4/0 AWG	19	Syracuse	2/0 AWG	28
Lindin	2 AWG	N/A	Oxlip	4/0 AWG	1	Redbird	954 MCM	6	Syringa	477 MCM	1
Linnet	336.4 MCM	5	Oyster	4 AWG	18	Redwing	715.5 MCM	6	Teal	605 MCM	6
Lippizaner	336.4 MCM	20	Palomino	2 AWG	20	Rider	500 AWG	27	Tern	795 MCM	6
Listz	1 AWG	N/A	Paludina	6 AWG	19	Roadrunner	2057 MCM	7	Terrier	4 AWG	17
Lully	500 MCM	N/A	Pansy	1 AWG	1	Robin	1 AWG	5	Thoroughbred	2/0 AWG	21
Lupine	2500 MCM	2	Parakeet	556.5 MCM	5	Rockland	3/0 AWG	27	Thrasher	2312 MCM	7
Magnolia	954 MCM	2	Parrot	1510.5 MCM	7	Rook	636 AWG	6	Trillium	3000 MCM	2
Malamute	1/0 AWG	17	Partridge	266.8 MCM	5	Rose	4 AWG	1	Triton	2/0 AWG	19
Mallard	795 MCM	N/A	Patella	6 AWG	18	Rubens	2/0 AWG	N/A	Trotter	3/0 AWG	21
Marigold	113 MCM	2	Paw Paw	556.5 MCM	16	Ruddy	900 MCM	6	Tufts	3/0 AWG	26
Martin	1351.5 MCM	7	Peach	2 AWG	16	Runcina	2/0 AWG	19	Tulip	336.4 MCM	1
McNeil	350 MCM	N/A	Peachbell	6 AWG	1	Rust	250 MCM	28	Tulsa	4 AWG	28
Meadowsweet	600 MCM	1	Peacock	605 MCM	6	Rutgers	350 MCM	26	Turbit	795 MCM	6
Melita	3/0 AWG	19	Pear	4 AWG	16	Sagebrush	2250 MCM	2	Turkey	6 AWG	5
Mercer	4 AWG	26	Pecan	2/0 AWG	16	Sandcrab	1/0 AWG	18	Valerian	250 MCM	1
Merlin	336.4 MCM	5	Pekingese	6 AWG	17	Sanddollar	3/0 AWG	19	Vassar	4 AWG	27
Minex	6 AWG	18	Pelican	477 MCM	5	Scallop	4 AWG	19	Verbena	700 MCM	1
Minorca	110.8 MCM	7	Penguin	4/0 AWG	5	Schnauzer	2 AWG	17	Violet	715.5 MCM	1
Mistletoe	556.5 MCM	1	Peony	300 MCM	1	Scoter	636 MCM	6	Vizsla	6 AWG	17
Molles	397.5 MCM	N/A	Percheron	2/0 AWG	20	Setter	6 AWG	17	Voluta	6 AWG	19
Monet	1 AWG	N/A	Periwinkle	4 AWG	19	Sewanee	750 MCM	26	Wake Forest	4/0 AWG	28
Monmouth	4/0 AWG	27	Persimmon	2/0 AWG	N/A	Shellbark	3/0 AWG	N/A	Walking	4/0 AWG	21
Moreau	250 MCM	N/A	Petrel	101.8 MCM	7	Shepherd	6 AWG	17	Walnut	6 AWG	16
Morgan	4 AWG	20	Petunia	750 MCM	2	Shetland	1/0 AWG	21	Waxwing	266.8 MCM	5
Morochuca	6 AWG	20	Pheasant	1272 MCM	6	Shrimp	2 AWG	18	Wesleyan	350 AWG	27
Mozart	4/0 AWG	N/A	Phlox	3/0 AWG	1	Sipho	2/0 AWG	18	Whelk	4 AWG	19
Mulberry	266.8 MCM	16	Pigeon	3/0 AWG	5	Slippery Rock	350 MCM	28	Whippet	4 AWG	17
Murex	1/0 AWG	19	Pignut	2 AWG	16	Snail	1/0 AWG	19	Windham	750 MCM	28
Mursia	3/0 AWG	19	Pinto	4 AWG	20	Snapdragon	900 MCM	2	Wittenberg	2 AWG	28
Mussel	2 AWG	19	Planetree	4/0 AWG	N/A	Sneezewart	250 MCM	1	Wofford	500 MCM	28
Mustang	2 AWG	20	Plover	1431 AWG	7	Soffit	1 AWG	N/A	Wood Duck	605 MCM	6
Nannynose	336.4 MCM	19	Pomegranate	4/0 AWG	N/A	Solaster	2 AWG	18	Yale	2/0 AWG	26
Narcissus	1272 MCM	2	Poppy	1/0 AWG	1	Spaniel	4 AWG	17	Zinnia	500 MCM	1
Nassa	2/0 AWG	19	Portunus	4/0 AWG	19	Sparate	2 AWG	5	Zuzara	4/0 AWG	19

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AAC - All Aluminum Conductor

APPLICATION: Stranded 1350-H19 aluminum conductors are used for primary and secondary transmission and distribution.
Class AA is for bare conductors used in overhead lines.
Class A is for conductors to be covered with weather-resistant materials and for bare conductors where greater flexibility is required. Class is an indication of relative conductor flexibility, AA being the least flexible.
SPECIFICATIONS: AAC bare conductors meet or exceed the following ASTM specifications:
B230 Aluminum 1350-H19 Wire for Electrical Purposes.
B231 Concentric-Lay-Stranded Aluminum 1350 Conductors.

Code Word	Conductor Size	Stranding		Diameter		Cross Sectional Area	Weight	Rated Breaking Strength	Resistance**		Ampacity*
		No. of Wires	Class	Indiv. Strand	Comp. Cable				DC @ 20ºC	AC @ 75ºC	
	AWG/kcmil			inches	inches	Sq. In.	lbs/kft	lbs	Ohms/kft	Ohms/kft	amps
Peachbell	6	7	A	0.0612	0.184	0.0206	25	563	0.6580	0.8050	103
Rose	4	7	A	0.0772	0.232	0.0328	39	881	0.4140	0.5060	138
Iris	2	7	AA,A	0.0974	0.292	0.0522	62	1,350	0.2600	0.3180	185
Pansy	1	7	AA,A	0.1093	0.328	0.0657	79	1,640	0.2070	0.2520	214
Poppy	1/0	7	AA,A	0.1228	0.368	0.0829	99	1,990	0.1640	0.2000	247
Aster	2/0	7	AA,A	0.1379	0.414	0.1045	125	2,510	0.1300	0.1590	286
Phlox	3/0	7	AA,A	0.1548	0.464	0.1318	158	3,040	0.1030	0.1260	331
Oxlip	4/0	7	AA,A	0.1739	0.522	0.1663	199	3,830	0.0817	0.0999	383
Sneezewart	250	7	AA	0.1890	0.567	0.1964	235	4,520	0.0691	0.0846	425
Valerian	250	19	A	0.1147	0.574	0.1964	235	4,660	0.0691	0.0846	425
Daisy	266.8	7	AA	0.1953	0.586	0.2095	251	4,830	0.0648	0.0793	443
Laurel	266.8	19	A	0.1185	0.593	0.2095	251	4,970	0.0648	0.0793	444
Peony	300	19	A	0.1257	0.629	0.2358	281	5,480	0.0578	0.0706	478
Tulip	336.4	19	A	0.1331	0.666	0.2644	316	6,150	0.0514	0.0630	513
Daffodil	350	19	A	0.1357	0.679	0.2749	329	6,390	0.0494	0.0605	526
Canna	397.5	19	AA,A	0.1447	0.724	0.3122	373	7,110	0.0435	0.0534	570
Goldentuft	450	19	AA	0.1539	0.769	0.3534	422	7,890	0.0384	0.0472	616
Cosmos	477	19	AA	0.1584	0.793	0.3746	448	8,360	0.0362	0.0445	639
Syringa	477	37	A	0.1135	0.795	0.3746	448	8,690	0.0362	0.0445	639
Zinnia	500	19	AA	0.1622	0.811	0.3927	469	8,760	0.0346	0.0425	658
Hyacinth	500	37	A	0.1162	0.813	0.3924	469	9,110	0.0346	0.0425	658
Dahlia	556.5	19	AA	0.1711	0.856	0.4371	522	9,750	0.0311	0.0382	703
Mistletoe	556.5	37	A	0.1226	0.858	0.4371	522	9,940	0.0311	0.0382	704
Meadowsweet	600	37	AA,A	0.1273	0.891	0.4712	563	10,700	0.0288	0.0355	738
Orchid	636	37	AA,A	0.1311	0.918	0.4995	597	11,400	0.0272	0.0335	765
Heuchera	650	37	AA	0.1326	0.928	0.5105	610	11,600	0.0266	0.0328	775
Verbena	700	37	AA	0.1375	0.963	0.5498	657	12,500	0.0247	0.0305	812
Flag	700	61	A	0.1071	0.964	0.5498	657	12,900	0.0247	0.0305	812
Violet	715.5	37	AA	0.1391	0.974	0.5623	672	12,800	0.0242	0.0299	823

(Continued on page 2)

AAC - All Aluminum Conductor

Code Word	Conductor Size	Stranding		Diameter		Cross Sectional Area	Weight	Rated Breaking Strength	Resistance**		Ampacity*
		No. of Wires	Class	Indiv. Strand	Comp. Cable				DC @ 20ºC	AC @ 75ºC	
	AWG/kcmil			inches	inches	Sq. In.	lbs/kft	lbs	Ohms/kft	Ohms/kft	amps
Nasturtium	715.5	61	A	0.1083	0.975	0.5619	672	13,100	0.0242	0.0299	823
Petunia	750	37	AA	0.1424	0.997	0.5893	705	13,100	0.0230	0.0286	847
Cattail	750	61	A	0.1109	0.998	0.5892	704	13,500	0.0230	0.0286	847
Arbutus	795	37	AA	0.1466	1.026	0.6245	746	13,900	0.0217	0.0271	878
Lilac	795	61	A	0.1142	1.028	0.6248	746	14,300	0.0217	0.0270	879
Cockscomb	900	37	AA	0.1560	1.092	0.7072	845	15,400	0.0192	0.0239	948
Snapdragon	900	61	A	0.1215	1.094	0.7073	845	15,900	0.0192	0.0239	948
Magnolia	954	37	AA	0.1606	1.124	0.7495	896	16,400	0.0181	0.0226	982
Goldenrod	954	61	A	0.1251	1.126	0.7498	896	16,900	0.0181	0.0226	983
Hawkweed	1000	37	AA	0.1644	1.151	0.7854	939	17,200	0.0173	0.0216	1,010
Camellia	1000	61	A	0.1280	1.152	0.7849	939	17,700	0.0173	0.0216	1,011
Bluebell	1033.5	37	AA	0.1671	1.170	0.8114	970	17,700	0.0167	0.0210	1,031
Larkspur	1033.5	61	A	0.1302	1.172	0.8122	970	18,300	0.0167	0.0210	1,032
Marigold	1113	61	AA,A	0.1351	1.216	0.8744	1,045	19,700	0.0155	0.0195	1,079
Hawthorn	1192.5	61	AA,A	0.1398	1.258	0.9366	1,119	21,100	0.0145	0.0183	1,124
Narcissus	1272	61	AA,A	0.1444	1.300	0.9990	1,194	22,000	0.0136	0.0173	1,169
Columbine	1351.5	61	AA,A	0.1489	1.340	1.0610	1,269	23,400	0.0128	0.0163	1,212
Carnation	1431	61	AA,A	0.1532	1.379	1.1244	1,343	24,300	0.0121	0.0155	1,253
Gladiolus	1510.5	61	AA,A	0.1574	1.417	1.1869	1,418	25,600	0.0144	0.0147	1,294
Coreopsis	1590	61	AA	0.1614	1.454	1.2490	1,493	27,000	0.0109	0.0141	1,333
Jessamine	1750	61	AA	0.1694	1.525	1.3748	1,643	29,700	0.0099	0.0129	1,408
Cowslip	2000	91	A	0.1482	1.630	1.5710	1,877	34,200	0.0086	0.0115	1,518
Sagebrush	2250	91	A	0.1572	1.729	1.7670	2,131	37,500	0.0078	0.0105	1,612
Lupine	2500	91	A	0.1657	1.823	1.9640	2,370	41,900	0.0070	0.0097	1,706
Bitterroot	2750	91	A	0.1739	1.913	2.1600	2,607	46,100	0.0064	0.0090	1,793
Trillium	3000	127	A	0.1537	1.998	2.3564	2,844	50,300	0.0058	0.0083	1,874
Bluebonnet	3500	127	A	0.1660	2.158	2.7490	3,350	58,700	0.0050	0.0076	2,024

All values are nominal and subject to correction

** Current ratings are based on 75ºC conductor temperature, 25ºC ambient, 2ft/s wind, in sun, .05 coefficients of emissivity and absorption.*

*** Resistance is calculated using ASTM standard increments of stranding and metal conductivity of 61.2% IACS, AC resistance at 60 Hz.*

AAAC -
All Aluminum Alloy (6201) Conductor

APPLICATION: Bare overhead conductor used for primary and secondary transmission and distribution. Designed utilizing a high-strength aluminum alloy to achieve a high strength-to-weight ratio; better sag characteristics. AAAC has higher resistance to corrosion than ACSR.
CONSTRUCTION: Standard 6201-T81 high strength aluminum conductors, conforming to ASTM specification B399, are concentric-lay-stranded, similar in construction and appearance to 1350 grade aluminum conductors. Conductors of the 6201-T81 alloy have a greater resistance to abrasion than conductors of 1350-H19 grade aluminum.
SPECIFICATIONS: AAAC bare conductor meets or exceeds the following ASTM specifications:
B398 Aluminum Alloy 6201-T81 and 6201-T83 Wire for Electrical Purposes
B399 Concentric-Lay-Stranded Aluminum Alloy 6201-T81 Conductors
RUS ACCEPTED

Code Word	Conductor Size	No. of Wires	Equivalent ACSR		Diameter		Cross Sectional Area	Weight	Rated Breaking Strength	Resistance**		Ampacity*
			Size	Stranding	Indiv. Strand	Comp. Cable				DC @ 20ºC	AC @ 75ºC	
	kcmil		AWG/kcmil	AL/Steel	inches	inches	Sq. In.	lbs/kft	lbs	Ohms/kft	Ohms/kft	amps
Akron	30.58	7	6	6/1	0.0661	0.1980	0.0240	29	1,110	0.6588	0.7850	107
Alton	48.69	7	4	6/1	0.0834	0.2500	0.0382	45	1,760	0.4139	0.4930	143
Ames	77.47	7	2	6/1	0.1052	0.3160	0.0608	72	2,800	0.2601	0.3100	191
Azusa	123.3	7	1/0	6/1	0.1327	0.3980	0.0968	115	4,270	0.1635	0.1950	256
Anaheim	155.4	7	2/0	6/1	0.1490	0.4470	0.1221	145	5,390	0.1297	0.1540	296
Amherst	195.7	7	3/0	6/1	0.1672	0.5020	0.1537	183	6,790	0.1030	0.1230	342
Alliance	246.9	7	4/0	6/1	0.1878	0.5630	0.1939	230	8,560	0.0816	0.0973	395
Butte	312.8	19	266.8	26/7	0.1283	0.6420	0.2456	292	10,500	0.0644	0.0769	460
Canton	394.5	19	336.4	26/7	0.1441	0.7210	0.3098	368	13,300	0.0511	0.0610	532
Cairo	465.4	19	397.5	26/7	0.1565	0.7830	0.3655	434	15,600	0.0433	0.0518	590
Darien	559.5	19	477.0	26/7	0.1716	0.8580	0.4394	522	18,800	0.0360	0.0420	663
Elgin	652.4	19	556.5	26/7	0.1853	0.9270	0.5124	608	21,900	0.0309	0.0371	729
Flint	740.8	37	636.0	26/7	0.1414	0.9910	0.5818	691	24,400	0.0272	0.0327	790
Greeley	927.2	37	795.0	26/7	0.1583	1.1080	0.7282	865	30,500	0.0217	0.0263	908

All values are nominal and subject to correction
** Current ratings are based on 75ºC conductor temperature, 25ºC ambient, 2ft/s wind, in sun, .05 coefficients of emissivity and absorption.*
*** Resistance is calculated using ASTM standard increments of stranding and metal conductivity of 52.5% IACS, AC resistance at 60 Hz.*

ACAR - Aluminum Conductor Aluminum Reinforced

APPLICATION: Bare overhead conductor used as transmission cable and as primary and secondary distribution cable. A good strength-to-weight ratio makes ACAR applicable where both ampacity and strength are prime considerations in line design; for equal weight, ACAR offers higher stength and ampacity than ACSR.
CONSTRUCTION: Aluminum alloy 1350-H19 wires, concentricallly stranded around an aluminum alloy 6201 core. Although the alloy strands generally comprise the core of the cable, in some constructions they are distributed in layers throughout the aluminum alloy 1350-H19 strands.
SPECIFICATIONS: ACAR bare conductor meets or exceeds the following ASTM specifications:
B230 Aluminum 1350-H19 Wire for Electrical Purposes
B398 Aluminum-Alloy 6201-T81 Wire for Electrical Purposes
B524 Concentric-Lay-Stranded Aluminum Conductors, Aluminum Alloy Reinforced (ACAR, 1350/6201)

Conductor Size	Stranding	Diameter (in)			Weight	Rated Strength	Resistance**		Allowable Ampacity*
		Individual Strand		Comp. Cable			DC @ 20ºC	AC @ 75ºC	
kcmil	1350/6201	1350	6201		lbs/kft	lbs	Ohms/kft	Ohms/kft	amps
355.0	12/7	0.1367	0.1367	0.683	332	8,500	0.0514	0.0624	519
465.9	12/7	0.1566	0.1566	0.783	436	11,000	0.0392	0.0477	616
503.6	12/7	0.1628	0.1628	0.814	471	11,900	0.0362	0.0441	646
653.1	12/7	0.1854	0.1854	0.927	611	15,400	0.0279	0.0342	760
739.8	30/7	0.1414	0.1414	0.99	693	15,300	0.0240	0.0296	831
739.8	18/19	0.1414	0.1414	0.99	692	18,800	0.0252	0.0308	814
853.7	30/7	0.1519	0.1519	1.063	799	17,500	0.0208	0.0257	907
853.7	18/19	0.1519	0.1519	1.063	798	21,500	0.0218	0.0268	890
927.2	30/7	0.1583	0.1583	1.108	868	19,000	0.0192	0.0238	955
927.2	18/19	0.1583	0.1583	1.108	867	23,400	0.0201	0.0247	936
1024.5	30/7	0.1664	0.1664	1.165	959	20,900	0.0173	0.0216	1,015
1024.5	18/19	0.1664	0.1664	1.165	958	25,800	0.0182	0.0225	995
1081.0	30/7	0.1709	0.1709	1.196	1,012	22,100	0.0164	0.0205	1,048
1081.0	18/19	0.1709	0.1709	1.196	1,011	27,200	0.0172	0.0213	1,028
1109.0	30/7	0.1731	0.1731	1.212	1,038	22,700	0.0160	0.0200	1,065
1109.0	18/19	0.1731	0.1731	1.212	1,037	27,900	0.0168	0.0208	1,044
1172.0	30/7	0.1780	0.1780	1.246	1,097	24,000	0.0152	0.0190	1,101
1172.0	18/19	0.1780	0.1780	1.246	1,096	29,500	0.0159	0.0198	1,080
1197.0	30/7	0.1799	0.1799	1.259	1,121	24,500	0.0148	0.0187	1,115
1197.0	18/19	0.1799	0.1799	1.259	1,119	30,200	0.0156	0.0194	1,094
1280.0	30/7	0.1860	0.1860	1.302	1,199	26,200	0.0139	0.0175	1,160
1280.0	18/19	0.1860	0.1860	1.302	1,197	32,200	0.0146	0.0182	1,139
1361.0	42/19	0.1494	0.1494	1.344	1,274	30,300	0.0133	0.0168	1,196
1527.0	42/19	0.1582	0.1582	1.424	1,429	33,600	0.0118	0.0151	1,314
1703.0	42/19	0.1671	0.1671	1.504	1,594	37,500	0.0106	0.0137	1,363
1933.0	42/19	0.1780	0.1780	1.602	1,809	42,500	0.00936	0.0123	1,465
2267.0	42/19	0.1928	0.1928	1.735	2,142	49,900	0.00806	0.0108	1,594
2493.0	72/19	0.1655	0.1655	1.821	2,357	50,400	0.00722	0.0099	1,687
2493.0	54/37	0.1655	0.1655	1.821	2,355	57,600	0.00743	0.0101	1,670

All values are nominal and subject to correction
**Current ratings are based on 75°C conductor temperature, 25°C ambient temperature, with 2ft./sec. wind in the sun.*
***DC resistance is based on electrical resistivity of 16.946 ohm.cmil/ft @ 20c (61.2% IACS) for 1350-H19 wires and 19.755 ohm.cmil/ft @ 20c (52.5% IACS) for 6201 wires.*

ACSR - Aluminum Conductor Steel Reinforced

APPLICATION: Used as bare overhead transmission cable and as primary and secondary distribution cable. ACSR offers optimal strength for line design. Variable steel core stranding for desired strength to be achieved without sacrificing ampacity.
CONSTRUCTION: Aluminum alloy 1350-H19 wires, concentrically stranded around a steel core. Core wire for ACSR is available with class A, B or C galvanizing (GA) or aluminum-mischmetal alloy-coated steel core (MA). Additional corrosion protecton is available through the application of grease to the core or infusion of the complete cable with grease. Also available with Non Specular surface finish.
SPECIFICATIONS: ACSR bare conductor meets or exceeds the following ASTM specifications:
B230 Aluminum wire, 1350-H19 for Electrical Purposes
B232 Aluminum Conductors, Concentric-Lay-Stranded, Coated Steel Reinforced (ACSR)
B498 Zinc-Coated Steel Core Wire for Aluminum Conductors, Steel Reinforced (ACSR)
B500 Metallic Coated Stranded Steel Core for Aluminum Conductors, Steel Reinforced (ACSR)
B606 High-Strength Zinc-Coated (Galvanized) Steel Core Wire for Aluminum and Aluminum-Alloy Conductors, Steel Reinforced
B802 Zinc-5% Aluminum-Mischmetal Alloy-Coated Steel Core Wire for Aluminum Conductors, Steel Reinforced
B803 High Strength Zinc-5% Aluminum-Mischmetal Alloy-Coated Steel Core Wire for Aluminum and Aluminum-Alloy Conductors, Steel Reinforced
RUS ACCEPTED

Code Word	Conductor Size	Stranding (AL/STL)	Individual Strand Diameter			Comp. Cable OD	Weight			Content %		Rated Strength Standard	Resistance**		Ampacity*
			AL	STL	Steel Core		AL	STL	Total	AL	STL		DC @ 20ºC	AC @ 75ºC	
	AWG/kcmil		inches	inches	inches	inches	lbs/kft	lbs/kft	lbs/kft			lbs	Ohms/kft	Ohms/kft	amps
Turkey	6	6/1	0.0661	0.0661	0.0664	0.198	24.5	11.6	36	67.90	32.10	1,190	0.6410	0.806	105
Swan	4	6/1	0.0834	0.0834	0.0834	0.250	39.0	18.4	57	67.90	32.10	1,860	0.4030	0.515	140
Swanate	4	7/1	0.0772	0.1029	0.1029	0.257	39.0	28.0	67	58.13	41.87	2,360	0.3990	0.519	140
Sparrow	2	6/1	0.1052	0.1052	0.1052	0.316	62.0	29.3	91	67.90	32.10	2,850	0.2540	0.332	184
Sparate	2	7/1	0.0974	0.1299	0.1299	0.325	62.0	44.7	107	58.13	41.87	3,640	0.2510	0.338	184
Robin	1	6/1	0.1181	0.1181	0.1181	0.354	78.2	36.9	115	67.90	32.10	3,550	0.2010	0.268	212
Raven	1/0	6/1	0.1327	0.1327	0.1327	0.398	98.7	46.6	145	67.90	32.10	4,380	0.1590	0.217	242
Quail	2/0	6/1	0.1489	0.1489	0.1489	0.447	124.3	58.7	183	67.90	32.10	5,300	0.1260	0.176	276
Pigeon	3/0	6/1	0.1672	0.1672	0.1672	0.502	156.7	74.0	231	67.90	32.10	6,620	0.1000	0.144	315
Penguin	4/0	6/1	0.1878	0.1878	0.1878	0.563	197.7	93.4	291	67.90	32.10	8,350	0.0795	0.119	357
Waxwing	266.8	18/1	0.1217	0.1217	0.1217	0.609	250.3	39.2	290	86.45	13.55	6,880	0.0643	0.079	449
Partridge	266.8	26/7	0.1013	0.0788	0.2364	0.642	251.7	115.5	367	68.53	31.47	11,130	0.0637	0.078	475
Ostrich	300.0	26/7	0.1074	0.0835	0.2505	0.680	282.9	129.8	413	68.53	31.47	12,700	0.0567	0.069	492
Merlin	336.4	18/1	0.1367	0.1367	0.1367	0.683	315.8	49.5	365	86.45	13.55	8,680	0.0510	0.063	519
Linnet	336.4	26/7	0.1137	0.0884	0.2652	0.720	317.1	145.4	463	68.53	31.47	14,100	0.0505	0.062	529
Oriole	336.4	30/7	0.1059	0.1059	0.3177	0.741	318.2	208.9	527	60.35	39.65	17,300	0.0502	0.061	535
Chickadee	397.5	18/1	0.1486	0.1486	0.1486	0.743	373.1	58.5	432	86.45	13.55	9,940	0.0432	0.053	576
Brant	397.5	24/7	0.1287	0.0858	0.2574	0.772	375.0	137.0	512	73.23	26.77	14,600	0.0430	0.053	584
Ibis	397.5	26/7	0.1236	0.0961	0.2882	0.783	374.7	171.9	547	68.53	31.47	16,300	0.0428	0.052	587
Lark	397.5	30/7	0.1151	0.1151	0.3453	0.806	375.8	246.8	623	60.35	39.65	20,300	0.0425	0.052	594
Pelican	477.0	18/1	0.1628	0.1628	0.1628	0.814	447.8	70.2	518	86.45	13.55	11,800	0.0360	0.044	646
Flicker	477.0	24/7	0.1410	0.0940	0.2820	0.846	450.1	164.4	615	73.23	26.77	17,200	0.0358	0.044	655
Hawk	477.0	26/7	0.1354	0.1053	0.3159	0.858	449.6	206.4	656	68.53	31.47	19,500	0.0356	0.044	659
Hen	477.0	30/7	0.1261	0.1261	0.3783	0.883	451.1	296.2	747	60.35	39.65	23,800	0.0354	0.043	666
Osprey	556.5	18/1	0.1758	0.1758	0.1758	0.879	522.2	81.8	604	86.45	13.55	13,700	0.0308	0.038	711
Parakeet	556.5	24/7	0.1523	0.1015	0.3045	0.914	525.1	191.7	717	73.23	26.77	19,800	0.0307	0.038	721

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ACSR - Aluminum Conductor Steel Reinforced

Code Word	Conductor Size	Stranding (AL/STL)	Individual Strand Diameter			Comp. Cable OD	Weight			Content %		Rated Strength Standard	Resistance**		Ampacity*
			AL	STL	Steel Core		AL	STL	Total	AL	STL		DC @ 20ºC	AC @ 75ºC	
	AWG/kcmil		inches	inches	inches	inches	lbs/kft	lbs/kft	lbs/kft			lbs	Ohms/kft	Ohms/kft	amps
Dove	556.5	26/7	0.1463	0.1138	0.3414	0.927	525.0	241.0	766	68.53	31.47	22,600	0.0306	0.038	726
Eagle	556.5	30/7	0.1362	0.1362	0.4086	0.953	526.3	345.6	872	60.35	39.75	27,800	0.0303	0.037	734
Peacock	605.0	24/7	0.1588	0.1059	0.3177	0.953	570.9	208.7	780	73.23	26.77	21,600	0.0282	0.035	760
Squab	605.0	26/7	0.1525	0.1186	0.3558	0.966	570.4	261.8	832	68.53	31.47	24,300	0.0281	0.035	765
Wood Duck	605.0	30/7	0.1420	0.1420	0.4260	0.994	572.0	375.6	948	60.35	39.55	28,900	0.0279	0.034	774
Teal	605.0	30/19	0.1420	0.0852	0.4260	0.994	572.0	367.4	939	60.89	39.11	30,000	0.0278	0.034	773
KingBird	636.0	18/1	0.1880	0.1880	0.1880	0.940	597.2	93.6	691	86.45	13.55	15,700	0.0270	0.033	773
Swift	636.0	36/1	0.1329	0.1329	0.1329	0.930	596.9	46.8	644	92.80	7.20	13,800	0.0271	0.033	769
Rook	636.0	24/7	0.1628	0.1085	0.3255	0.977	600.0	219.1	819	73.23	26.77	22,600	0.0268	0.033	784
Grosbeak	636.0	26/7	0.1564	0.1216	0.3648	0.990	599.9	276.2	876	68.53	31.47	25,200	0.0267	0.033	789
Scoter	636.0	30/7	0.1456	0.1456	0.4368	1.019	601.4	394.9	996	60.35	39.65	30,400	0.0256	0.033	798
Egret	636.0	30/19	0.1456	0.0874	0.4370	1.019	601.4	386.6	988	60.89	39.11	31,500	0.0266	0.033	798
Flamingo	666.6	24/7	0.1667	0.1110	0.3330	1.000	629.1	229.7	859	73.23	26.77	23,700	0.0256	0.032	807
Gannet	666.6	26/7	0.1601	0.1245	0.3735	1.014	628.7	288.5	917	68.53	31.47	26,400	0.0255	0.031	812
Stilt	715.5	24/7	0.1727	0.1151	0.3453	1.036	675.2	246.5	922	73.23	26.77	25,500	0.0239	0.029	844
Starling	715.5	26/7	0.1659	0.1290	0.3870	1.051	675.0	309.7	985	68.53	31.47	28,400	0.0238	0.029	849
Redwing	715.5	30/19	0.1544	0.0926	0.4630	1.081	676.3	434.0	1,110	60.89	39.11	34,600	0.0236	0.029	859
Coot	795.0	36/1	0.1486	0.1486	0.1486	1.040	746.2	58.5	805	92.80	7.20	16,800	0.0217	0.027	894
Cuckoo	795.0	24/7	0.1820	0.1213	0.3640	1.092	749.9	273.8	1,024	72.23	26.77	27,900	0.0215	0.027	901
Turbit	795.0	20/7	0.1994	0.0886	0.2658	1.063	750.8	146.2	897	83.70	16.30	21,773	0.0219	0.027	890
Drake	795.0	26/7	0.1749	0.1360	0.4080	1.108	750.3	344.2	1,094	68.53	31.47	31,500	0.0214	0.026	907
Tern	795.0	45/7	0.1329	0.0886	0.2660	1.063	749.8	146.1	896	83.69	16.31	22,100	0.0216	0.027	887
Condor	795.0	54/7	0.1213	0.1213	0.3639	1.092	749.5	273.6	1,023	73.25	26.75	28,200	0.0215	0.027	889
Les Boules	864.9	42/7	0.1435	0.0797	0.2391	1.102	813.4	121.1	935	87.04	12.96	22,480	0.0201	0.025	950
Ruddy	900.0	45/7	0.1414	0.0943	0.2829	1.131	848.7	165.5	1,014	83.69	16.31	24,400	0.0191	0.024	958
Canary	900.0	54/7	0.1291	0.1291	0.3873	1.162	849.0	309.9	1,159	73.25	26.75	31,900	0.0190	0.024	961
Redbird	954.0	24/7	0.1994	0.1329	0.3987	1.196	899.3	328.7	1,228	73.23	26.77	33,446	0.0182	0.022	1,010
Rail	954.0	45/7	0.1456	0.0971	0.2913	1.165	899.9	175.5	1,075	83.69	16.31	25,900	0.0180	0.023	993
Cardinal	954.0	54/7	0.1329	0.1329	0.3987	1.196	900.7	328.4	1,228	73.25	26.75	33,800	0.0179	0.023	996
Ortolan	1033.5	45/7	0.1515	0.1010	0.3030	1.212	974.3	189.8	1,164	83.69	16.31	27,700	0.0167	0.021	1,043
Curlew	1033.5	54/7	0.1383	0.1383	0.4149	1.245	974.3	355.6	1,330	73.25	26.75	36,600	0.0165	0.021	1,047
Bluejay	1113.0	45/7	0.1573	0.1049	0.3147	1.259	1050.0	204.8	1,255	83.69	16.31	29,800	0.0155	0.019	1,092
Finch	1113.0	54/19	0.1436	0.0862	0.4310	1.293	1056.0	376.0	1,432	73.75	26.25	39,100	0.0154	0.020	1,093
Bunting	1192.5	45/7	0.1628	0.1085	0.3255	1.302	1125.0	219.1	1,344	83.69	16.31	32,000	0.0144	0.018	1,139
Grackle	1192.5	54/19	0.1486	0.0892	0.4460	1.338	1130.0	402.7	1,533	73.75	26.25	41,900	0.0144	0.018	1,140
Bittern	1272.0	45/7	0.1681	0.1121	0.3363	1.345	1200.0	233.9	1,434	83.69	16.31	34,100	0.0135	0.017	1,184
Pheasant	1272.0	54/19	0.1535	0.0921	0.4605	1.382	1206.0	429.3	1,635	73.75	26.25	43,600	0.0135	0.017	1,187
Dipper	1351.5	45/7	0.1733	0.1155	0.3465	1.386	1275.0	248.3	1,523	83.69	16.31	36,200	0.0127	0.016	1,229
Martin	1351.5	54/19	0.1582	0.0949	0.4745	1.424	1281.0	455.8	1,737	72.75	26.25	46,300	0.0127	0.016	1,232

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ACSR - Aluminum Conductor Steel Reinforced

Code Word	Conductor Size	Stranding (AL/STL)	Individual Strand Diameter			Comp. Cable OD	Weight			Content %		Rated Strength Standard	Resistance**		Ampacity*
			AL	STL	Steel Core		AL	STL	Total	AL	STL		DC @ 20°C	AC @ 75°C	
	AWG/kcmil		inches	inches	inches	inches	lbs/kft	lbs/kft	lbs/kft			lbs	Ohms/kft	Ohms/kft	amps
Bobolink	1431.0	45/7	0.1783	0.1189	0.3567	1.427	1350.0	263.1	1,613	83.69	16.31	38,300	0.0120	0.015	1,272
Plover	1431.0	54/19	0.1628	0.0977	0.4885	1.465	1357.0	483.1	1,840	73.75	26.25	49,100	0.0120	0.016	1,275
Nuthatch	1510.5	45/7	0.1832	0.1221	0.3663	1.465	1425.0	277.4	1,702	83.69	16.31	40,100	0.0114	0.015	1,313
Parrot	1510.5	54/19	0.1672	0.1003	0.5015	1.505	1431.0	509.2	1,940	73.75	26.25	51,700	0.0114	0.015	1,318
Lapwing	1590.0	45/7	0.1880	0.1253	0.3759	1.504	1500.0	292.2	1,792	83.69	16.31	42,200	0.0108	0.014	1,354
Falcon	1590.0	54/19	0.1716	0.1030	0.5150	1.545	1507.0	537.0	2,044	73.75	26.25	54,500	0.0108	0.014	1,359
Chukar	1780.0	84/19	0.1456	0.0874	0.4370	1.602	1688.0	386.6	2,075	81.30	18.70	51,000	0.0097	0.013	1,453
Roadrunner	2057.0	76/19	0.1646	0.0768	0.3840	1.700	1941.0	304.0	2,245	86.46	13.54	58,500	0.0085	0.011	1,565
Bluebird	2156.0	84/19	0.1602	0.0961	0.4805	1.762	2044.0	467.4	2,511	81.30	18.70	60,300	0.0081	0.011	1,623
Kiwi	2167.0	72/7	0.1735	0.1157	0.3471	1.735	2055.0	248.9	2,304	89.20	10.80	49,800	0.0080	0.011	1,607
Thrasher	2312.0	76/19	0.1744	0.0814	0.4070	1.802	2191.0	335.4	2,527	86.73	13.27	56,700	0.0075	0.010	1,673
Joree	2515.0	76/19	0.1819	0.0849	0.4245	1.880	2384.0	364.8	2,749	86.73	13.27	61,700	0.0069	0.009	1,751
High Mechanical Strength															
Grouse	80.0	8/1	0.1000	0.1670	0.1670	0.367	75.1	73.9	149	50.56	49.44	5,200	0.2070	0.261	204
Petrel	101.8	12/7	0.0921	0.0921	0.2763	0.461	96.0	158.0	254	37.79	62.21	10,400	0.1580	0.239	237
Minorca	110.8	12/7	0.0961	0.0961	0.2883	0.481	103.9	172.1	276	37.79	62.21	11,300	0.1450	0.223	246
Leghorn	134.6	12/7	0.1059	0.1059	0.3177	0.530	127.0	209.0	336	37.79	62.21	13,600	0.1200	0.189	273
Guinea	159.0	12/7	0.1151	0.1151	0.3453	0.576	149.2	246.8	396	37.79	62.21	16,000	0.1010	0.165	297
Dotterel	176.9	12/7	0.1214	0.1214	0.3642	0.607	166.4	274.6	441	37.79	62.21	17,300	0.0911	0.151	312
Dorking	190.8	12/7	0.1261	0.1261	0.3783	0.631	179.7	296.3	476	37.79	62.21	18,700	0.0845	0.142	324
Brahma	203.2	16/19	0.1127	0.0977	0.4885	0.714	190.0	485.0	675	28.33	71.67	28,400	0.0764	0.135	341
Cochin	211.3	12/7	0.1327	0.1327	0.3981	0.664	198.8	328.2	527	37.79	62.21	30,700	0.0764	0.131	340

All values are nominal and subject to correction

** Current ratings based on 75°C conductor temperature, 25°C ambient temperature, emissivity 0.5, 2ft/sec wind in sun.*

*** Resistance is calculated using ASTM standard increments of stranding, and metal conductivity of 61.2% IACS for AL (1350) and 8% IACS for steel. AC (60Hz) resistance includes current dependent hysteresis loss factor for 1 and 3 layer constructions.*

ACSR/AW

APPLICATION: Used as bare overhead transmission and as primary and secondary distribution cable. ACSR/AW offers strength characteristics similar to ACSR, along with slightly greater ampacity and resistance to corrosion due to aluminum-cladding of the steel core wires.
CONSTRUCTION: Aluminum alloy 1350-H19 wires, concentrically stranded around an aluminum-clad steel core.
SPECIFICATIONS: ACSR/AW bare conductor meets or exceeds the following ASTM specifications:
B230 Aluminum wire, 1350-H19 for Electrical Purposes
B502 Aluminum-Clad Steel Core Wire for Aluminum Conductors, Aluminum-Clad Steel Reinforced.
B549 Aluminum Conductors, Concentric-Lay-Stranded, Aluminum-Clad Steel Reinforced (ACSR/AW).

Code Word	Conductor Size	Stranding (AL/AW)	Individual Strand Diameter			Comp. Cable OD	Weight			Rated Breaking Strength	Resistance**		Ampacity*
			AL	AW	AW Core		AL	AW	Total		DC @ 20ºC	AC @ 75ºC	
	AWG/kcmil		inches	inches	inches	inches	lbs/kft	lbs/kft	lbs/kft	lbs	Ohms/kft	Ohms/kft	amps
Swan/Aw	4	6/1	0.0834	0.0834	0.0834	0.250	39	16	55	1,780	0.3917	0.477	145
Swanate/Aw	4	7/1	0.0772	0.103	0.1030	0.257	39	24	63	2,280	0.3814	0.4642	148
Sparrow/Aw	2	6/1	0.1052	0.1052	0.1052	0.316	62	25	87	2,760	0.2462	0.2997	194
Sparate/Aw	2	7/1	0.0974	0.1298	0.1298	0.325	62	38	100	3,510	0.2396	0.2917	198
Robin/Aw	1	6/1	0.1181	0.1181	0.1181	0.354	78	31	109	3,450	0.1950	0.2373	225
Raven/Aw	1/0	6/1	0.1327	0.1327	0.1327	0.398	99	39	138	4,250	0.1547	0.1884	260
Quail/Aw	2/0	6/1	0.1489	0.1489	0.1489	0.447	124	50	174	5,130	0.1227	0.1494	301
Pigeon/Aw	3/0	6/1	0.1672	0.1672	0.1672	0.502	156	63	219	6,300	0.09747	0.1188	347
Penguin/Aw	4/0	6/1	0.1878	0.1878	0.1878	0.563	197	79	277	7,690	0.07726	0.09422	402
Waxwing/Aw	266.8	18/1	0.1217	0.1217	0.1217	0.609	250	33	283	6,820	0.06364	0.07776	451
Partridge/Aw	266.8	26/7	0.1013	0.0788	0.2363	0.642	251	98	349	10,800	0.06169	0.07541	465
Ostrich/Aw	300.0	26/7	0.1074	0.0835	0.2506	0.680	283	110	393	12,100	0.05489	0.06712	500
Merlin/Aw	336.4	18/1	0.1367	0.1367	0.1367	0.684	315	42	357	8,540	0.05044	0.06175	522
Linnet/Aw	336.4	26/7	0.1137	0.0885	0.2654	0.720	317	123	440	13,500	0.04897	0.05989	537
Oriole/Aw	336.4	30/7	0.1059	0.1059	0.3177	0.741	318	177	494	16,700	0.04795	0.05861	547
Chickadee/Aw	397.5	18/1	0.1486	0.1486	0.1486	0.743	373	50	422	9,780	0.04268	0.0523	580
Brant/Aw	397.5	24/7	0.1287	0.0858	0.2574	0.772	374	116	490	14,100	0.04185	0.05124	592
Ibis/Aw	397.5	26/7	0.1236	0.0962	0.2885	0.783	374	146	520	15,800	0.04144	0.05072	597
Lark/Aw	397.5	30/7	0.1151	0.1151	0.3453	0.806	375	209	584	19,600	0.04059	0.04965	608
Pelican/Aw	477.0	18/1	0.1628	0.1628	0.1628	0.814	447	59	507	11,500	0.03556	0.04344	651
Flicker/Aw	477.0	24/7	0.1410	0.0940	0.2819	0.846	449	139	589	16,700	0.03487	0.04273	663
Hawk/Aw	477.0	26/7	0.1354	0.1053	0.3160	0.858	449	175	624	18,900	0.03453	0.04231	669
Hen/Aw	477.0	30/7	0.1261	0.1261	0.3783	0.883	450	251	701	23,400	0.03382	0.04139	682
Osprey/Aw	556.5	18/1	0.1758	0.1758	0.1758	0.879	522	69	591	13,200	0.03050	0.03749	715
Parakeet/Aw	556.5	24/7	0.1523	0.1015	0.3045	0.914	524	163	687	19,300	0.02989	0.03667	731
Dove/Aw	556.5	26/7	0.1463	0.1138	0.3413	0.927	524	204	728	21,900	0.02958	0.03627	737
Eagle/Aw	556.5	30/7	0.1362	0.1362	0.4086	0.953	525	293	818	26,800	0.02899	0.03551	751
Peacock/Aw	605.0	24/7	0.1588	0.1059	0.3175	0.953	570	177	746	21,000	0.02749	0.03377	770
Squab/Aw	605.0	26/7	0.1525	0.1186	0.3559	0.966	570	222	792	23,600	0.02588	0.03341	777
Teal/Aw	605.0	30/19	0.1420	0.0852	0.4260	0.994	571	311	883	28,500	0.02672	0.03274	791

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PRIORITY WIRE & CABLE, INC.

ACSR/AW

Code Word	Conductor Size	Stranding (AL/AW)	Individual Strand Diameter			Comp. Cable OD	Weight			Rated Breaking Strength	Resistance**		Ampacity*
			AL	AW	AW Core		AL	AW	Total		DC @ 20ºC	AC @ 75ºC	
	AWG/kcmil		inches	inches	inches	inches	lbs/kft	lbs/kft	lbs/kft	lbs	Ohms/kft	Ohms/kft	amps
Kingbird/Aw	636.0	18/1	0.1880	0.1880	0.1880	0.94	596	79	675	15,000	0.02667	0.03286	778
Rook/Aw	636.0	24/7	0.1628	0.1085	0.3256	0.977	599	186	785	22,000	0.02616	0.03216	794
Grosbeak/Aw	636.0	26/7	0.1564	0.1216	0.3649	0.991	599	233	832	24,800	0.02588	0.03179	801
Flamingo/Aw	666.6	24/7	0.1667	0.1111	0.3333	1.000	628	195	823	23,100	0.02495	0.03069	818
Gannet/Aw	666.6	26/7	0.1601	0.1245	0.3736	1.014	628	245	872	26,000	0.02470	0.03034	825
Starling/Aw	715.5	26/7	0.1659	0.1290	0.3871	1.051	674	263	936	27,500	0.02300	0.0283	863
Redwing/Aw	715.5	30/19	0.1544	0.0927	0.4633	1.081	676	368	1,044	33,400	0.02260	0.02777	878
Cuckoo/Aw	795.0	24/7	0.1820	0.1213	0.3640	1.092	749	232	981	27,500	0.02093	0.02582	913
Drake/Aw	795.0	26/7	0.1749	0.1360	0.4080	1.107	749	292	1,040	30,500	0.0207	0.02549	922
Tern/Aw	795.0	45/7	0.1329	0.0886	0.2658	1.063	749	124	873	21,500	0.02135	0.02638	896
Condor/Aw	795.0	54/7	0.1213	0.1213	0.3640	1.092	749	232	981	27,800	0.02091	0.02578	913
Mallard/Aw	795.0	30/19	0.1628	0.0977	0.4884	1.139	751	409	1,160	37,100	0.02033	0.02500	938
Ruddy/Aw	900.0	45/7	0.1414	0.0943	0.2828	1.131	848	140	988	24,000	0.01886	0.02330	970
Canary/Aw	900.0	54/7	0.1291	0.1291	0.3873	1.162	848	263	1,111	31,000	0.01849	0.02286	986
Rail/Aw	954.0	45/7	0.1456	0.0971	0.2912	1.165	899	149	1,047	25,400	0.01779	0.02210	1,003
Cardinal/Aw	954.0	54/7	0.1329	0.1329	0.3987	1.196	899	279	1,177	32,900	0.01744	0.02161	1,022
Ortolan/Aw	1033.5	45/7	0.1515	0.1010	0.3031	1.212	973	161	1,134	27,200	0.01641	0.02044	1,054
Curlew/Aw	1033.5	54/7	0.1383	0.1383	0.4150	1.245	973	302	1,275	35,200	0.01609	0.01997	1,074
Bluejay/Aw	1113	45/7	0.1573	0.1048	0.3145	1.258	1,048	173	1,222	29,300	0.01606	0.01905	1,103
Pheasant/Aw	1272	54/19	0.1535	0.0921	0.4604	1.381	1,204	364	1,568	42,400	0.01315	0.01646	1,216
Bobolink/Aw	1431	45/7	0.1783	0.1189	0.3566	1.427	1,348	223	1,571	37,600	0.01186	0.01503	1,283
Lapwing/Aw	1590	45/7	0.1880	0.1253	0.3759	1.504	1,498	248	1,745	41,800	0.01069	0.01366	1,365
High Mechanical Strength													
Grouse/Aw	80.0	8/1	0.1000	0.1670	0.1670	0.367	75	63	138	4,890	0.1942	0.2357	227
Petrel/Aw	101.8	12/7	0.0921	0.0921	0.2763	0.460	96	134	230	9,910	0.1425	0.1736	281
Minorca/Aw	110.8	12/7	0.0961	0.0961	0.2883	0.481	105	146	251	10,800	0.1326	0.1594	297
Leghorn/Aw	134.6	12/7	0.1059	0.1059	0.3177	0.530	127	177	304	13,000	0.1078	0.1313	335
Guinea/Aw	159.0	12/7	0.1151	0.1151	0.3453	0.576	150	209	359	15,300	0.09123	0.1112	372
Dotterel/Aw	176.9	12/7	0.1214	0.1214	0.3642	0.607	167	233	400	16,900	0.08201	0.09988	398
Dorking/Aw	190.8	12/7	0.1261	0.1261	0.3783	0.631	180	251	431	18,300	0.07601	0.09261	418
Brahma/Aw	203.2	16/19	0.1127	0.0977	0.4885	0.714	192	411	603	27,100	0.06570	0.07994	464
Cochin/Aw	211.3	12/7	0.1327	0.1327	0.3981	0.664	199	278	477	19,800	0.06863	0.08364	445

All values are nominal and subject to correction

**Conductor temperature of 75°C ambient temperature of 25°C, emissivity 0.5, wind 2 ft/sec, in sun.*

*** Resistance is calculated using ASTM standard increments of stranding, and metal conductivity of 61.2% IACS for AL (1350) and 8% IACS for steel. AC (60Hz) resistance includes current dependent hysteresis loss factor for 1 and 3 layer constructions.*

ACSR/TP Bare Overhead Conductor

APPLICATION: ACSR/TP has become highly popular; it resists galloping with changing wind-attack profile, and shows low Aeolian vibration and sub-conductor oscillation. ACSR/TP conductors are used for overhead distribution and transmission lines which are subject to wind induced motion damage.

CONSTRUCTION: ACSR/TP is a pair of identical stranded aluminum, steel reinforced, conductors twisted around each other with a long lay (6.5 or 9 foot intervals). ACSR/TP conductors are manufactured in accordance with the latest applicable issue of ASTM B911. The sizes and stranding listed are those most frequently used for overhead lines. The steel core wires are protected by galvanizing, aluminizing or aluminum cladding. The standard Class A zinc coating is usually adequate for ordinary environments. For greater protection, Class B and C galvanized coatings, aluminized or Aluminum Clad steel cores may be specified.

RUS ACCEPTED

Code Word	Conductor Size	Component			Total Cross Sectional Area		Outer Dimensions	Equiv. Diameter	Weight		Rated Strength	Resistance**			Ampacity*
		Size	No. x Strand Diameter									DC @ 20°C	AC @ 25°C	AC @ 75°C	
			AL	Steel	Total	AL			Total	AL					
	AWG/ kcmil	AWG/ kcmil	inches	inches	sq. inches	sq. inches	inches	inches	lbs/ mft	lbs/ mft	lbs	Ohms/ mft	Ohms/ mft	Ohms/ mft	amps
Swan/TP	1	4	6 x 0.0834	1 x 0.0834	0.0765	0.0656	0.250 x 0.500	0.410	115	77.9	3,720	0.2016	0.2058	0.2465	245
Swanate/TP	1	4	7 x 0.0772	1 x 0.1029	0.0765	0.0656	0.257 x 0.514	0.421	134	77.9	4,720	0.2016	0.2035	0.2438	245
Swallow/TP	1/0	3	6 x 0.0937	1 x 0.0937	0.0964	0.0826	0.281 x 0.562	0.460	145	98.1	4,590	0.1600	0.1632	0.1955	280
Sparrow/TP	2/0	2	6 x 0.1052	1 x 0.1052	0.1216	0.1042	0.315 x 0.631	0.517	182	124	5,700	0.1268	0.1294	0.1551	325
Sparate/TP	2/0	2	7 x 0.0974	1 x 0.1299	0.1307	0.1042	0.325 x 0.649	0.531	213	124	7,280	0.1254	0.1280	0.1533	330
Robin/TP	3/0	1	6 x 0.1181	1 x 0.1181	0.1534	0.1315	0.354 x 0.709	0.580	230	156	7,110	0.1005	0.1207	0.1230	380
Raven/TP	4/0	1/0	6 x 0.1327	1 x 0.1327	0.1935	0.1659	0.398 x 0.796	0.651	290	197	8,760	0.0797	0.0814	0.0975	440
Quail/TP	266.2	2/0	6 x 0.1489	1 x 0.1489	0.2439	0.2091	0.447 x 0.894	0.731	366	248	10,600	0.0632	0.0646	0.0774	510
Pigeon/TP	335.6	3/0	6 x 0.1672	1 x 0.1672	0.3075	0.2636	0.502 x 1.003	0.821	461	313	13,200	0.0501	0.0513	0.0614	595
Penguin/TP	423.2	4/0	6 x 0.1878	1 x 0.1878	0.3878	0.3324	0.563 x 1.127	0.922	582	395	16,700	0.0398	0.0408	0.0488	690
Jaeger/TP	456.4	228.2	18 x 0.1126	1 x 0.1126	0.3784	0.3585	0.563 x 1.126	0.921	495	428	12,000	0.0376	0.0386	0.0462	710
Waxwing/TP	533.6	266.8	18 x 0.1217	1 x 0.1217	0.4424	0.4191	0.609 x 1.217	0.996	579	500	13,800	0.0322	0.0331	0.0395	785
Spoonbill/TP	533.6	266.8	22 x 0.1101	7 x 0.0612	0.4602	0.4191	0.624 x 1.248	1.021	642	503	17,400	0.0321	0.0330	0.0395	795
Scaup/TP	533.6	266.8	24 x 0.1054	7 x 0.0703	0.4734	0.4191	0.633 x 1.265	1.035	687	503	20,000	0.0320	0.0329	0.0393	800
Partridge/TP	533.6	266.8	26 x 0.1013	7 x 0.0788	0.4873	0.4191	0.642 x 1.283	1.050	734	503	22,600	0.0319	0.0327	0.0391	805
Junco/TP	533.6	266.8	30 x 0.0943	7 x 0.0943	0.5169	0.4191	0.660 x 1.320	1.080	835	504	27,900	0.0316	0.0325	0.0389	815
Ostrich/TP	600	300	26 x 0.1074	7 x 0.0835	0.5480	0.4172	0.680 x 1.361	1.113	825	565	25,400	0.0283	0.0292	0.0348	865
Merlin/TP	672.8	336.4	18 x 0.1367	1 x 0.1367	0.5578	0.5284	0.684 x 1.367	1.119	730	631	17,400	0.0255	0.0264	0.0315	915
Trogon/TP	672.8	336.4	20 x 0.1297	7 x 0.0576	0.5649	0.5284	0.692 x 1.383	1.132	757	634	18,900	0.0256	0.0264	0.0315	915
Woodcock/TP	672.8	336.4	22 x 0.1237	7 x 0.0687	0.5803	0.5284	0.701 x 1.401	1.147	809	634	21,800	0.0255	0.0263	0.0314	920
Widgeon/TP	672.8	336.4	24 x 0.1184	7 x 0.0789	0.5969	0.5284	0.710 x 1.421	1.163	866	634	25,000	0.0254	0.0262	0.0313	925
Linnet/TP	672.8	336.4	26 x 0.1137	7 x 0.0884	0.6145	0.5284	0.720 x 1.441	1.179	925	634	28,200	0.0253	0.0261	0.0311	930
Oriole/TP	672.8	336.4	30 x 0.1059	7 x 0.1059	0.6517	0.5284	0.741 x 1.483	1.213	1053	635	34,700	0.0251	0.0258	0.0309	945
Chickaee/TP	795	397.5	18 x 0.1486	1 x 0.1486	0.6591	0.6244	0.743 x 1.486	1.216	862	745	19,900	0.0216	0.0224	0.0267	1015
Ptarmigan/TP	795	397.5	20 x 0.1410	7 x 0.0627	0.6676	0.6244	0.752 x 1.504	1.231	895	749	22,100	0.0216	0.0225	0.0268	1020
Stork/TP	795	397.5	22 x 0.1344	7 x 0.0747	0.6857	0.6244	0.762 x 1.523	1.247	956	749	25,700	0.0216	0.0224	0.0267	1025
Brant/TP	795	397.5	24 x 0.1287	7 x 0.0858	0.7053	0.6244	0.772 x 1.544	1.264	1023	749	29,300	0.0215	0.0222	0.0265	1030
Ibis/TP	795	397.5	26 x 0.1236	7 x 0.0961	0.7261	0.6244	0.783 x 1.566	1.282	1093	749	32,600	0.0214	0.0221	0.0264	1040
Lark/TP	795	397.5	30 x 0.1151	7 x 0.1151	0.7701	0.6244	0.806 x 1.612	1.319	1244	751	40,700	0.0212	0.0219	0.0262	1050
Pelican/TP	954	477	18 x 0.1628	1 x 0.1628	0.7909	0.7493	0.814 x 1.628	1.332	1035	894	23,500	0.0181	0.0189	0.0224	1140

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ACSR/TP Bare Overhead Conductor

Code Word	Conductor Size	Component			Total Cross Sectional Area		Outer Dimensions	Equiv. Diameter	Weight		Rated Strength	Resistance**			Ampacity*
		Size	No. x Strand Diameter									DC @ 20°C	AC @ 25°C	AC @ 75°C	
			AL	Steel	Total	AL			Total	AL					
	AWG/ kcmil	AWG/ kcmil	inches	inches	sq. inches	sq. inches	inches	inches	lbs/ mft	lbs/ mft	lbs	Ohms/ mft	Ohms/ mft	Ohms/ mft	amps
Tailorbird/TP	954	477	20 x 0.1544	7 x 0.0686	0.8011	0.7493	0.824 x 1.647	1.348	1074	899	26,200	0.0180	0.0189	0.0224	1145
Tocan/TP	954	477	22 x 0.1472	7 x 0.0818	0.8229	0.7493	0.834 x 1.669	1.366	1148	899	30,400	0.0180	0.0188	0.0223	1150
Flicker/TP	954	477	24 x 0.1410	7 x 0.0940	0.8464	0.7493	0.846 x 1.692	1.384	1227	899	34,400	0.0179	0.0187	0.0222	1160
Hawk/TP	954	477	26 x 0.1354	7 x 0.1053	0.8713	0.7493	0.858 x 1.716	1.404	1312	899	39,000	0.0178	0.0186	0.0221	1170
Hen/TP	954	477	30 x 0.1261	7 x 0.1261	0.9241	0.7493	0.883 x 1.766	1.445	1493	901	47,600	0.0177	0.0184	0.0219	1185
Heron/TP	1000	500	30 x 0.1291	7 x 0.1291	0.9687	0.7854	0.904 x 1.808	1.479	1565	944	50,000	0.0169	0.0176	0.0209	1220
Nigtingale/TP	1034	517	18 x 0.1694	7 x 0.1694	0.8572	0.8121	0.848 x 1.696	1.387	1121	969	25,400	0.0166	0.0175	0.0207	1200
Creeper/TP	1034	517	20 x 0.1607	7 x 0.0714	0.8682	0.8121	0.858 x 1.716	1.403	1164	974	28,400	0.0166	0.0175	0.0208	1205
Osprey/TP	1113	556.5	18 x 0.1758	1 x 0.1758	0.9227	0.8741	0.879 x 1.758	1.439	1207	1043	27,400	0.0154	0.0163	0.0193	1260
Tody/TP	1113	556.5	20 x 0.1668	7 x 0.0741	0.9346	0.8741	0.890 x 1.780	1.456	1253	1048	30,600	0.0155	0.0163	0.0194	1260
Sapsucker/TP	1113	556.5	22 x 0.1590	7 x 0.0883	0.9600	0.8741	0.901 x 1.802	1.475	1339	1048	35,200	0.0154	0.0162	0.0192	1270
Parakeet/TP	1113	556.5	24 x 0.1523	7 x 0.1015	0.9875	0.8741	0.914 x 1.828	1.495	1432	1048	39,600	0.0153	0.0161	0.0191	1280
Dove/TP	1113	556.5	26 x 0.1463	7 x 0.1138	1.0165	0.8741	0.927 x 1.854	1.516	1530	1048	45,200	0.0153	0.0160	0.0190	1290
Eagle/TP	1113	556.5	30 x 0.1326	7 x 0.1326	1.0781	0.8741	0.953 x 1.906	1.560	1741	1051	55,600	0.0152	0.0159	0.0189	1305
Kittiwake/TP	1192	596	18 x 0.1820	1 x 0.1820	0.9882	0.9362	0.910 x 1.820	1.489	1293	1117	29,400	0.0144	0.0153	0.0181	1315
Skua/TP	1210	605	20 x 0.1739	7 x 0.0773	1.0160	0.9503	0.928 x 1.856	1.518	1362	1140	33,200	0.0142	0.0151	0.0179	1330
Peacock/TP	1210	605	24 x 0.1588	7 x 0.1059	1.0735	0.9503	0.953 x 1.906	1.559	1557	1140	43,200	0.0141	0.0149	0.0177	1350
Squab/TP	1210	605	26 x 0.1525	7 x 0.1186	1.1051	0.9503	0.966 x 1.932	1.581	1664	1140	48,600	0.0140	0.0148	0.0177	1360
Wood Duck/TP	1210	605	30 x 0.1420	7 x 0.1420	1.1721	0.9503	0.994 x 1.988	1.627	1893	1142	57,800	0.0140	0.0146	0.0174	1375
Teal/TP	1210	605	30 x 0.1420	19 x 0.0852	1.6700	0.9503	0.994 x 1.988	1.627	1877	1142	60,000	0.0140	0.0147	0.0174	1375
Swift/TP	1272	636	36 x 0.1329	1 x 0.1329	1.0268	0.9990	0.930 x 1.860	1.523	1286	1192	27,600	0.0135	0.0141	0.0168	1375
Kingbird/TP	1272	636	18 x 0.1881	1 x 0.1880	1.0545	0.9990	0.940 x 1.880	1.538	1379	1192	31,400	0.0135	0.0144	0.0170	1365
Turacos/TP	1272	636	20 x 0.1783	7 x 0.0792	1.0681	0.9990	0.951 x 1.902	1.557	1432	1198	34,800	0.0135	0.0144	0.0171	1370
Rook/TP	1272	636	24 x 0.1628	7 x 0.1085	1.1285	0.9990	0.977 x 1.954	1.599	1637	1198	45,200	0.0135	0.0142	0.0168	1385
Grosbeak/TP	1272	636	26 x 0.1564	7 x 0.1216	1.1617	0.9990	0.990 x 1.980	1.621	1749	1198	50,400	0.0134	0.0141	0.0167	1395
Scoter/TP	1272	636	30 x 0.1456	7 x 0.1456	1.2320	0.9990	1.019 x 2.038	1.668	1990	1201	60,800	0.0133	0.0140	0.0166	1410
Egret/TP	1272	636	30 x 0.1456	19 x 0.0874	1.2268	0.9990	1.019 x 2.038	1.668	1974	1201	63,000	0.0133	0.0140	0.0166	1420
Siskin/TP	1333.2	666.6	20 x 0.1826	7 x 0.0812	1.1195	1.0471	0.974 x 1.948	1.594	1501	1256	36,600	0.0129	0.0138	0.0163	1415
Flamingo/TP	1333.2	666.6	24 x 0.1667	7 x 0.1111	1.8280	1.0471	1.000 x 2.000	1.637	1715	1256	47,600	0.0128	0.0136	0.0161	1435
Gannet/TP	1333.2	666.6	26 x 0.1601	7 x 0.1245	1.2176	1.0471	1.014 x 2.028	1.660	1833	1256	52,800	0.0128	0.0135	0.0160	1445
Dunlin/TP	1431	715.5	20 x 0.1891	7 x 0.0840	1.2016	1.1239	1.008 x 2.016	1.651	1611	1348	39,200	0.0120	0.0129	0.0153	1475
Stilt/TP	1431	715.5	24 x 0.1727	7 x 0.1151	1.2696	1.1239	1.036 x 2.072	1.696	1841	1348	51,000	0.0119	0.0126	0.0151	1500
Startling/TP	1431	715.5	26 x 0.1659	7 x 0.1290	1.3070	1.1239	1.051 x 2.102	1.719	1968	1348	56,800	0.0119	0.0127	0.0150	1510
Redwing/TP	1431	715.5	30 x 0.1544	19 x 0.0926	1.3802	1.1239	1.081 x 2.162	1.769	2220	1351	69,200	0.0118	0.0125	0.0148	1530
Coot/TP	1590	795	36 x 0.1486	1 x 0.1486	1.2835	1.2488	1.040 x 2.080	1.702	1607	1490	33,400	0.0108	0.0114	0.0135	1585
Macaw/TP	1590	795	42 x 0.1376	7 x 0.0764	1.3130	1.2488	1.055 x 2.110	1.726	1715	1498	40,200	0.0108	0.0113	0.0135	1595
Turbit/TP	1590	795	20 x 0.1994	7 x 0.0886	1.3351	1.2488	1.063 x 2.126	1.740	1790	1498	43,600	0.0108	0.0118	0.0139	1575
Tern/TP	1590	795	45 x 0.1329	7 x 0.0886	1.3351	1.2488	1.063 x 2.126	1.740	1790	1498	44,200	0.0108	0.0118	0.0139	1570

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ACSR/TP Bare Overhead Conductor

Code Word	Conductor Size	Component			Total Cross Sectional Area		Outer Dimensions	Equiv. Diameter	Weight		Rated Strength	Resistance**			Ampacity*
		Size	No. x Strand Diameter									DC @ 20°C	AC @ 25°C	AC @ 75°C	
			AL	Steel	Total	AL			Total	AL					
	AWG/ kcmil	AWG/ kcmil	inches	inches	sq. inches	sq. inches	inches	inches	lbs/ mft	lbs/ mft	lbs	Ohms/ mft	Ohms/ mft	Ohms/ mft	amps
Puffin/TP	1590	795	22 x 0.1901	7 x 0.1056	1.3714	1.2488	1.077 x 2.154	1.763	1913	1498	49,600	0.0108	0.0117	0.0138	1590
Cuckoo/TP	1590	795	24 x 0.1820	7 x 0.1213	1.4107	1.2488	1.092 x 2.184	1.787	2046	1498	55,800	0.0107	0.0116	0.0137	1600
Condor/TP	1590	795	54 x 0.1213	7 x 0.1213	1.4107	1.2488	1.092 x 2.184	1.787	2046	1498	56,400	0.0107	0.0116	0.0140	1580
Drake/TP	1590	795	26 x 0.1749	7 x 0.1360	1.4522	1.2488	1.108 x 2.216	1.812	2186	1498	63,000	0.0107	0.0115	0.0136	1615
Mallard/TP	1590	795	30 x 0.1628	19 x 0.0977	1.5335	1.2488	1.140 x 2.280	1.865	2467	1501	76,800	0.0106	0.0114	0.0134	1635
Surfbird/TP	1749	874.5	20 x 0.2091	7 x 0.0929	1.4686	1.3737	1.115 x 2.230	1.825	1969	1647	47,400	0.0098	0.0109	0.0127	1670
Turnstone/TP	1800	900	20 x 0.2121	7 x 0.0943	1.5115	1.4137	1.131 x 2.262	1.852	2026	1695	48,200	0.0096	0.0106	0.0124	1700
Ruddy/TP	1800	900	45 x 0.1414	7 x 0.0943	1.5115	1.4137	1.131 x 2.262	1.852	2026	1695	48,800	0.0096	0.0106	0.0125	1695
Canary/TP	1800	900	54 x 0.1291	7 x 0.1291	1.5970	1.4137	1.162 x 2.324	1.902	2316	1695	63,800	0.0095	0.0104	0.0125	1705
Catbird/TP	1908	954	36 x 0.1628	1 x 0.1628	1.5402	1.4985	1.140 x 2.280	1.865	1929	1788	39,600	0.0090	0.0096	0.0114	1780
Phoenix/TP	1908	954	42 x 0.1507	7 x 0.0387	1.5756	1.4985	1.155 x 2.310	1.891	2058	1797	46,800	0.0090	0.0095	0.0113	1790
Corncake/TP	1908	954	20 x 0.2184	7 x 0.0971	1.6021	1.4985	1.165 x 2.330	1.906	2148	1797	51,200	0.0090	0.0101	0.0118	1760
Rail/TP	1908	954	45 x 0.1456	7 x 0.0971	1.6021	1.4985	1.165 x 2.330	1.906	2148	1797	51,800	0.0090	0.0101	0.0118	1755
Towhee/TP	1908	954	48 x 0.1410	7 x 0.1097	1.6307	1.4985	1.175 x 2.350	1.923	2245	1797	57,000	0.0090	0.0094	0.0112	1810
Redbird/TP	1908	954	24 x 0.1994	7 x 0.1329	1.6928	1.4985	1.196 x 2.392	1.958	2455	1797	67,000	0.0089	0.0099	0.0116	1790
Cardinal/TP	1908	954	54 x 0.1329	7 x 0.1329	1.6928	1.4985	1.196 x 2.392	1.958	2455	1797	67,600	0.0089	0.0099	0.0119	1770
Canvasback/TP	1908	954	30 x 0.1783	19 x 0.1070	1.8402	1.4985	1.248 x 2.497	2.043	2961	1802	92,200	0.0089	0.0097	0.0113	1830
Snowbird/TP	2067	1033.5	42 x 0.1569	7 x 0.0872	1.7069	1.6234	1.203 x 2.406	1.968	2230	1947	50,800	0.0083	0.0088	0.0105	1885
Ortolan/TP	2067	1033.5	45 x 0.1515	7 x 0.1010	1.7357	1.6234	1.212 x 2.424	1.984	2327	1947	55,400	0.0083	0.0094	0.0110	1840
Whooper/TP	2067	1033.5	48 x 0.1467	7 x 0.1141	1.7666	1.6234	1.223 x 2.446	2.001	2432	1947	61,600	0.0083	0.0087	0.0103	1905
Curlew/TP	2067	1033.5	54 x 0.1383	7 x 0.1383	1.8339	1.6234	1.245 x 2.490	2.038	2659	1947	73,300	0.0083	0.0092	0.0110	1855
Avocet/TP	2226	1113	42 x 0.1628	7 x 0.0904	1.8382	1.7483	1.248 x 2.496	2.043	2401	2097	54,200	0.0077	0.0082	0.0098	1975
Bluejay/TP	2226	1113	48 x 0.1573	7 x 0.1049	1.8692	1.7483	1.259 x 2.518	2.059	2506	2097	59,600	0.0077	0.0089	0.0104	1920
Bullfinch/TP	2226	1113	48 x 0.1523	7 x 0.1185	1.9025	1.7483	1.269 x 2.538	2.077	2619	2097	65,600	0.0077	0.0081	0.0096	2000
Finch/TP	2226	1113	54 x 0.1436	19 x 0.0862	1.9697	1.7483	1.293 x 2.586	2.115	2858	2107	78,200	0.0077	0.0087	0.0104	1940

All values are nominal and subject to correction

**Ampacity based on conductor temperature rise of 50°C over 25°C ambient, 2ft/sec crosswind, 0.5 coefficient of emissivity, no sun, @60 Hz. Ampacity for single-layer conductors does not include the effect of core magnetization.*

***Resistance is based on conductivity of 61.2% IACS @20°C for aluminum and 8% IACS at 20°C for the steel core. AC resistance values for single-layer conductors do not include the effect of core magnetization.*

Note: Twisting lay length of ACSR/TP: 6.5 feet for sizes up to 4/0AWG, and 9 foot for 250kcmil and larger.

Packing Note: Must have 18" of cable exposed and secured at inner end. Three clamps over twisted pair at each end of shipping reel.

ACSS - Aluminum Conductor Steel Supported

APPLICATION: Used for Overhead distribution and transmission lines, new line applications that require high emergency loading, and where vibration is a problem. ACSS operates continuously at high temperatures up to 250°C full strength. Although similar to standard ACSR, ACSS sags less and is self-damping during installation. It also carries a higher current than standard ACSR.
CONSTRUCTION: Aluminum alloy 1350 wires, concentrically stranded around a steel core. Non-Specular finish available on request.
SPECIFICATIONS: ACSS bare conductors meet or exceed the following ASTM specifications: B498 Zinc-Coated (Galvanized) Steel Core Wire for use in Overhead Electrical Conductors • B606 High-Strength Zinc-Coated (Galvanized) Steel Core Wire for Aluminum and Aluminum-Alloy Conductors, Steel Reinforced • B609 Aluminum 1350 Round Wire, Annealed and Intermediate Tempers, for Electrical Purposes • B802 Zinc-5% Aluminum-Mischmetal Alloy-Coated Steel Core Wire for Aluminum Conductors, Steel Reinforced (ACSR) • B803 High-Strength Zinc–5 % Aluminum-Mischmetal Alloy-Coated Steel Core Wire for Use in Overhead Electrical Conductors • B856 Concentric Lay-Stranded Aluminum Conductors, Coated Steel Supported (ACSS)

Code Word	Conductor Size	Stranding (AL/STL)	Diameter			Comp. Cable O.D.	Weight			Rated Strength		Resistance*		Ampacity* @ 200°C
			Individual Wire		Steel Core		AL	STL	Total	Standard	High Strength	DC @ 20°C	AC @ 75°C	
			AL	STL										
	AWG/kcmil		inches	inches	inches	inches	lbs/kft	lbs/kft	lbs/kft	lbs/kft	lbs	Ohms/kf	Ohms/kf	amps
Partridge/ACSS	266.8	26/7	0.1013	0.0788	0.236	0.642	252	116	367	8880	9730	0.0619	0.0761	812
Junco/ACSS	266.8	30/7	0.0943	0.0943	0.283	0.660	252	166	418	11700	13000	0.0615	0.0756	822
Ostrich/ACSS	300.0	26/7	0.1074	0.0835	0.251	0.680	283	130	413	10000	10900	0.0551	0.0677	877
Linnet/ACSS	336.4	26/7	0.1137	0.0885	0.265	0.720	317	146	463	11200	12300	0.0491	0.0604	945
Oriole/ACSS	336.4	30/7	0.1059	0.1059	0.318	0.741	318	209	527	14800	16300	0.0488	0.0600	957
Brant/ACSS	397.5	24/7	0.1287	0.0858	0.257	0.772	375	137	512	11000	12100	0.0417	0.0514	1047
Ibis/ACSS	397.5	26/7	0.1236	0.0962	0.289	0.783	375	172	547	13000	14200	0.0416	0.0512	1054
Lark/ACSS	397.5	30/7	0.1151	0.1151	0.345	0.806	376	247	622	17500	19300	0.0413	0.0508	1068
Flicker/ACSS	477.0	24/7	0.1410	0.0940	0.282	0.846	450	164	614	1300	14200	0.0348	0.0429	1180
Hawk/ACSS	477.0	26/7	0.1354	0.1053	0.316	0.858	450	207	657	15600	17100	0.0346	0.0427	1188
Hen/ACSS	477.0	30/7	0.1261	0.1261	0.378	0.883	451	296	747	21000	22700	0.0344	0.0424	1204
Parakeet/ACSS	556.5	24/7	0.1523	0.1015	0.305	0.914	522	192	714	15200	16600	0.0298	0.0368	1306
Dove/ACSS	556.5	26/7	0.1463	0.1138	0.341	0.927	525	241	766	18200	19900	0.0297	0.0366	1315
Eagle/ACSS	556.5	30/7	0.1362	0.1362	0.409	0.953	526	345	871	24500	26500	0.0295	0.0363	1331
Peacock/ACSS	605.0	24/7	0.1588	0.1058	0.318	0.953	571	209	779	16500	18100	0.0274	0.0339	1379
Squab/ACSS	605.0	26/7	0.1525	0.1186	0.356	0.966	571	262	833	19700	21300	0.0273	0.0345	1389
Wood Duck/ACSS	605.0	30/7	0.1420	0.1420	0.426	0.994	572	375	947	26000	28300	0.0271	0.0337	1407
Teal/ACSS	605.0	30/19	0.1420	0.0852	0.426	0.994	572	367	940	26600	29300	0.0272	0.0335	1406
Rook/ACSS	636.0	24/7	0.1628	0.1085	0.326	0.977	600	219	819	17300	19000	0.0261	0.0322	1425
Grosbeak/ACSS	636.0	26/7	0.1564	0.1216	0.365	0.991	600	275	875	20700	22400	0.0260	0.0321	1435
Scoter/ACSS	636.0	24/7	0.1456	0.1456	0.437	1.019	601	395	996	27400	29700	0.0258	0.0318	1454
Egret/ACSS	636.0	26/7	0.1456	0.0874	0.437	1.019	601	387	988	28000	30900	0.0258	0.0319	1453
Flamingo/ACSS	666.6	24/7	0.1667	0.1111	0.333	1.000	629	230	859	18200	19900	0.0249	0.0308	1470
Gannet/ACSS	666.6	26/7	0.1601	0.1245	0.374	1.014	629	289	917	21700	23400	0.0248	0.0306	1480
Stilt/ACSS	715.5	24/7	0.1727	0.1151	0.345	1.036	675	247	921	19500	21300	0.0232	0.0287	1540
Starling/ACSS	715.5	26/7	0.1659	0.1290	0.387	1.051	375	310	985	23300	25200	0.0231	0.0286	1550
Redwing/ACSS	715.5	30/19	0.1544	0.0927	0.463	1.081	677	435	1111	30800	34000	0.0230	0.0284	1570
Cuckoo/ACSS	795.0	24/7	0.1820	0.1213	0.364	1.092	750	274	1024	21700	23300	0.0209	0.0259	1650
Drake/ACSS	795.0	26/7	0.1749	0.1360	0.408	1.107	750	344	1094	25900	28000	0.0209	0.0257	1662
Macaw/ACSS	795.0	42/7	0.1376	0.0764	0.229	1.055	750	109	859	11800	12600	0.0211	0.0262	1662

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ACSS - Aluminum Conductor Steel Supported

Code Word	Conductor Size	Stranding (AL/STL)	Diameter			Comp. Cable O.D.	Weight			Rated Strength		Resistance*		Ampacity* @ 200°C
			Individual Wire		Steel Core		AL	STL	Total	Standard	High Strength	DC @ 20°C	AC @ 75°C	
			AL	STL										
	AWG/kcmil		inches	inches	inches	inches	lbs/kft	lbs/kft	lbs/kft	lbs/kft	lbs	Ohms/kf	Ohms/kf	amps
Tern/ACSS	795.0	45/7	0.1329	0.0886	0.266	1.063	750	146	896	14200	15200	0.0210	0.0263	1618
Condor/ACSS	795.0	54/7	0.1213	0.1213	0.364	1.092	750	274	1024	21700	23300	0.0209	0.0266	1618
Mallard/ACSS	795.0	30/19	0.1628	0.0977	0.488	1.139	752	483	1235	34300	37900	0.0207	0.0255	1683
Ruddy/ACSS	900.0	45/7	0.1414	0.0943	0.283	1.131	849	165	1014	15800	17000	0.0186	0.0233	1755
Canary/ACSS	900.0	54/7	0.1291	0.1291	0.387	1.162	849	310	1159	24600	26400	0.0184	0.0238	1756
Redbird/ACSS	900.0	24/7	0.1994	0.1329	0.399	1.198	900	329	1229	26000	28000	0.0174	0.0217	1859
Rail/ACSS	954.0	45/7	0.1456	0.0971	0.291	1.165	900	175	1075	16700	18000	0.0175	0.0220	1824
Towhee/ACSS	954.0	48/7	0.1410	0.1097	0.329	1.175	900	224	1124	19700	21300	0.0150	0.0218	1842
Cardinal/ACSS	954.0	54/7	0.1329	0.1329	0.399	1.196	900	329	1229	26000	28000	0.0174	0.0233	996
Canvasback/ACSS	954.0	30/19	0.1783	0.1070	0.535	1.248	902	580	1482	41100	45400	0.0172	0.0214	1897
Snowbird/ACSS	1033.5	42/7	0.1569	0.0871	0.261	1.203	975	141	1116	15400	16500	0.0162	0.0204	1924
Ortolan/ACSS	1033.5	45/7	0.1515	0.1010	0.303	1.212	975	190	1165	18100	19500	0.0162	0.0204	1921
Curlew/ACSS	1033.5	54/7	0.1383	0.1383	0.415	1.245	975	356	1331	28200	30300	0.0161	0.0206	1924
Grackle/ACSS	1192.5	54/19	0.1486	0.0892	0.446	1.338	1120	409	1531	32600	35500	0.0140	0.0182	2085
Bluejay/ACSS	1113.0	45/7	0.1573	0.1048	0.315	1.258	1050	205	1254	19500	21100	0.0150	0.0190	2017
Finch/ACSS	1113.0	54/19	0.1436	0.0861	0.431	1.292	1055	376	1431	30400	33200	0.0150	0.0193	2015
Bunting/ACSS	1192.5	45/7	0.1628	0.1085	0.326	1.302	1125	219	1344	21400	23500	0.0140	0.0178	2110
Bittern/ACSS	1272.0	45/7	0.1681	0.1121	0.336	1.345	1200	234	1434	22300	24000	0.0131	0.0167	2200
Pheasant/ACSS	1272.0	54/19	0.1535	0.0921	0.460	1.381	1206	429	1635	34100	37300	0.0131	0.0169	2200
Dipper/ACSS	1351.0	45/7	0.1733	0.1155	0.347	1.386	1274	248	1523	23700	2500	0.0124	0.0158	2289
Martin/ACSS	1351.0	54/19	0.1582	0.9049	0.475	1.424	1281	456	1737	36200	39600	0.0123	0.0160	2288
Bobolink/ACSS	1431.0	45/7	0.1783	0.1189	0.357	1.427	1350	263	1613	25100	27000	0.0117	0.0150	2375
Plover/ACSS	1431.0	54/19	0.1628	0.0977	0.488	1.465	1356	483	1939	38400	41900	0.0117	0.0151	2375
Nuthatch/ACSS	1510.0	45/7	0.1832	0.1221	0.366	1.465	1424	278	1702	26500	28100	0.0111	0.0143	2459
Parrot/ACSS	1510.0	54/19	0.1672	0.1003	0.502	1.505	1431	510	1941	40400	44200	0.0110	0.0144	2460
Ratite/ACSS	1590.0	42/7	0.1946	0.1081	0.324	1.492	1500	217	1717	23400	25000	0.0105	0.0136	2543
Lapwing/ACSS	1590.0	45/7	0.1880	0.1253	0.376	1.504	1500	292	1792	27900	29600	0.0105	0.0136	2543
Falcon/ACSS	1590.0	54/19	0.1716	0.1030	0.515	1.544	1507	537	2044	42600	46600	0.0105	0.0137	2545
Chukar/ACSS	1780.0	84/19	0.1456	0.0873	0.437	1.601	1687	386	2073	35400	38200	0.0094	0.0122	2751
Mockingbird/ACSS	2034.5	72/7	0.1681	0.1121	0.336	1.681	1928	234	2162	7200	28900	0.0083	0.0110	2960
Roadrunner/ACSS	2057.0	76/19	0.1645	0.0768	0.384	1.700	1950	298	2248	31700	33900	0.0082	0.0108	2992
Bluebird/ACSS	2156.0	84/19	0.1602	0.0961	0.481	1.762	2044	468	2511	42100	45000	0.0078	0.0103	3106
Kiwi/ACSS	2167.0	72/7	0.1735	0.1157	0.347	1.735	2054	249	2303	29000	30800	0.0078	0.0104	3080
Thrasher/ACSS	2312.0	76/19	0.1744	0.0814	0.407	1.802	2191	335	2527	35600	38100	0.0073	0.0098	3218
Joree/ACSS	2515.0	76/19	0.1819	0.0849	0.425	1.880	2384	365	2749	38700	41400	0.0067	0.0092	3390

All values are nominal and subject to correction

**Resistance and ampacity based on an aluminum conductivity of 63%, IACS at 20°C, and a steel conductivity of 8% IACS at 20°C.*

**Ampacity based on a 200°C conductor temperature, 25°C ambient temperature, 2ft/sec. Wind*

Packing Note: Must have 18'' of cable exposed and secured at inner end

ACSS/TW - Aluminum Conductor Steel Supported Trapezoidal Shaped Aluminum Strands

APPLICATION: Used as bare overhead transmission cable and as primary and secondary distribution cable. It is designed to continuously operate up to 250°C without losing strength.

CONSTRUCTION: Aluminum alloy 1350 wires, concentrically stranded around a steel core with one or more layers of 63% minimum average conductivity aluminum 1350-O wire stranded around it. The steel core carries most or the entire mechanical load of the conductor due to the fully annealed or soft temper aluminum. The steel core wires are protected from carrion by a zinc-5% aluminum-mischmetal-alloy coating. Diameter or Area Equal to Standard ACSR Sizes.

SPECIFICATIONS: ACSS/TW bare conductors meet or exceed the following ASTM specifications: B498 Zinc-Coated (Galvanized) Steel Core Wire for Use in Overhead Electrical Conductors • B500 Metallic Coated Stranded Steel Core for Aluminum Conductors, Steel Reinforced • B606 High-Strength Zinc-Coated (Galvanized) Steel Core Wire for Aluminum and Aluminum-Alloy Conductors, Steel Reinforced • B609 Aluminum 1350 Round Wire, Annealed and Intermediate Tempers, for Electrical Purposes • B802 Zinc-5% Aluminum-Mischmetal Alloy-Coated Steel Core Wire for Aluminum Conductors, Steel Reinforced • B803 High Strength Zinc-5% Aluminum-Mischmetal Alloy-Coated Steel Core Wire for Aluminum and Aluminum-Alloy Conductors, Steel Reinforced • B857 Shaped Wire Compact Concentric-Lay-Stranded Aluminum Conductors, Coated-Steel Supported (ACSS/TW) • B957 Extra-High-Strength and Ultra-High-Strength Zinc-Coated (Galvanized) Steel Core Wire for Overhead Electrical Conductors • B958 Extra-High-Strength and Ultra-High-Strength Class A Zinc–5% Aluminum-Mischmetal Alloy-Coated Steel Core Wire for Use in Overhead Electrical Conductors

Code Word	Size	Type no.	Cross Sectional Area		Stranding			Diameter		Weight			Rated Breaking Strength		
			AL	Total	Layers of AL	AL Wires	Indiv. Steel Wires	Steel Core	Complete Cable	AL	STL	Total	Standard Strength	High Strength	Ultra High Strength
	kcmil		sq. in.	sq. in.	no.	no.	no. x diameter	inches	inches	lbs/kft	lbs/kft	lbs/kft	lbs	lbs	lbs
Flicker ACSS/TW	477	13	0.3747	0.4233	2	18	7 x 0.0940	0.282	0.776	448	165	612	13,000	14,200	16,400
Hawk ACSS/TW	477	16	0.3746	0.4356	2	18	7 x 0.1053	0.316	0.790	448	206	655	15,600	17,100	19,800
Dove ACSS/TW	556.5	16	0.4371	0.5083	2	20	7 x 0.1138	0.341	0.850	523	241	765	18,200	19,900	23,100
Mystic ACSS/TW	666.6	13	0.5236	0.5915	2	20	7 x 0.1111	0.333	0.910	626	230	856	18,200	19,900	22,900
Maumee ACSS/TW	768.2	13	0.6041	0.6826	2	20	7 x 0.1195	0.358	0.980	721	266	987	21,000	23,000	26,500
Wabash ACSS/TW	762.8	16	0.5992	0.6966	2	20	7 x 0.1331	0.399	0.990	717	330	1047	24,900	26,900	31,200
Drake ACSS/TW	795	16	0.6244	0.7261	2	20	7 x 0.1360	0.408	1.010	748	344	1092	25,900	28,000	32,500
Rail ACSS/TW	954.0	7	0.7493	0.8011	3	32	7 x 0.0971	0.291	1.060	899	176	1075	16,700	18,000	20,400
Cardinal ACSS/TW	954.0	13	0.7493	0.8464	2	20	7 x 0.1329	0.399	1.084	896	329	1225	26,000	28,000	32,300
Suwannee ACSS/TW	959.6	16	0.7537	0.8762	2	22	7 x 0.1493	0.448	1.108	903	415	1318	30,700	33,100	38,600
Curlew ACSS/TW	1033.5	13	0.8117	0.9169	2	21	7 x 0.1383	0.415	1.130	970	356	1326	28,200	30,300	35,000
Hudson ACSS/TW	1158.4	13	0.9092	1.0280	2	25	7 x 0.1467	0.440	1.196	1087	401	1488	31,100	33,500	38,800
Grackle ACSS/TW	1192.5	13	0.9366	1.0554	3	38	19 x 0.0892	0.446	1.225	1126	403	1529	32,600	35,500	41,500
Pheasant ACSS/TW	1272.0	13	0.9990	1.1250	3	39	19 x 0.0921	0.461	1.260	1201	429	1630	34,100	37,300	43,000
Martin ACSS/TW	1351.5	13	1.0620	1.1964	3	39	19 x 0.0949	0.470	1.300	1276	456	1732	36,200	39,600	45,600
Merrimack ACSS/TW	1433.6	13	1.1250	1.2677	3	39	19 x 0.0978	0.489	1.340	1356	484	1840	38,400	42,000	48,400
Pecos ACSS/TW	1622.0	13	1.2736	1.4425	3	39	19 x 0.1064	0.532	1.420	1531	573	2104	45,000	49,300	56,900
Chukar ACSS/TW	1780.0	8	1.3986	1.5126	3	37	19 x 0.0874	0.437	1.450	1673	388	2061	35,300	38,200	43,900
Cumberland ACSS/TW	1926.9	13	1.5134	1.7049	3	42	19 x 0.1133	0.567	1.545	1819	650	2469	51,600	56,400	65,000
Santee ACSS/TW	2627.3	8	2.0630	2.2317	4	64	19 x 0.1062	0.531	1.761	2492	571	3063	51,300	55,600	63,100

All values are nominal and subject to correction

Packing Note: Must have 18" of cable exposed and secured at inner end

Covered Line Wire Aluminum Conductor

APPLICATION: Used primarily for overhead secondary distribution lines. Not an electrically insulated conductor and is treated as bare conductor when installed.
CONSTRUCTION: Aluminum alloy 1350-H19, 6201-T81, or ACSR conductors, concentrically stranded and covered for protection against circuit interruption due to weather with polyethylene, high density polyethylene (HDPE) or cross-linked polyethylene (XLP).
SPECIFICATIONS: Covered Line Wire meets or exceeds the following ASTM specifications: B230 Aluminum Wire, 1350-H19 for electrical purposes • B231 Aluminum conductors, Concentric-lay-Stranded • B232 Aluminum conductors, Concentric-lay-Stranded, Coated Steel Reinforced (ACSR) • B399 Concentric-lay-Stranded, 6201-T81 Aluminum Alloy

Code Word	Size	Stranding (AL/Steel)	Insulation Thickness	Outside Diameter	Rated Strength	Weight		Ampacity*
						XLP	POLY	75°C
	AWG/kcmil		inches	inches	lbs	lbs/kft	lbs/kft	amps
ACSR Conductors								
Walnut	6	6/1	0.030	0.26	1,131	49	47	105
Butternut	4	6/1	0.030	0.30	1,760	72	70	135
Hickory	4	7/1	0.030	0.31	2,240	82	80	135
Pignut	2	6/1	0.045	0.40	2,710	118	115	180
Beech	2	7/1	0.045	0.41	3,460	134	131	180
Chestnut	1	6/1	0.045	0.43	3,370	146	142	210
Almond	1/0	6/1	0.060	0.51	4,160	190	185	235
Pecan	2/0	6/1	0.060	0.55	5,040	234	228	270
Filbert	3/0	6/1	0.060	0.61	6,290	289	281	305
Buckeye	4/0	6/1	0.060	0.67	7,930	366	349	345
Hackberry	266.8	18/1	0.060	0.71	6,540	355	347	435
AAC Conductors								
Apple	6	Solid	0.030	0.22	445	33	32	105
Pear	4	Solid	0.030	0.26	675	49	47	135
Apricot	4	7	0.030	0.29	790	52	51	140
Peach	2	7	0.045	0.37	1,220	87	84	180
Quince	1/0	7	0.060	0.48	1,790	141	136	240
Orange	2/0	7	0.060	0.52	2,260	172	166	280
Fig	3/0	7	0.060	0.57	2,740	211	204	320
Olive	4/0	7	0.060	0.63	3,450	259	251	370
Mulberry	266.8	19	0.060	0.69	4,470	314	306	430
Anona	336.4	19	0.060	0.77	5,535	388	379	495
Huckleberry	477	37	0.080	0.93	7,820	550	538	610
Paw Paw	556.5	37	0.080	0.99	8,950	633	619	670

All values are nominal and subject to correction
NOTE: The code words as given apply to conventional high density polyethylene covered ACSR & AAC line wires.
Line wire with AAAC 6201-T81 conductor available upon request.
**Ampacity ratings are based on 75°C conductor temperature 25°C ambient temperature at sea level, emissivity 0.91, coefficient of absorption 0.95, thermal resistivity of covering -375°C-Cm2/watt-CM, wind speed 2ft./sec in sun.*

Duplex Overhead Aluminum Conductor (Service Drop)

APPLICATION: To supply power aerial service for temporary service at construction sites, outdoor or street lighting. For service at 600 volts or lower at a conductor temperature of 75°C maximum for polyethylene insulation or 90ºC maximum for cross linked insulation.
CONSTRUCTION: Concentrically stranded, compressed 1350-H19 aluminum conductor, cross-linked polyethylene (XLP) or polyethylene (PE) insulation, concentrically stranded AAC, ACSR, or AAAC 6201 alloy neutral messenger.
SPECIFICATIONS: Duplex service drop cable meets or exceeds the following ASTM specifications: B230 Aluminum 1350–H19 Wire for Electrical Purposes • B231 Concentric-Lay-Stranded Aluminum 1350 Conductors • B232 Concentric-Lay-Stranded Aluminum Conductors, Coated-Steel Reinforced (ACSR) • B399 Concentric-Lay-Stranded Aluminum-Alloy 6201-T81 Conductors • Service Drop cable meets or exceeds all applicable requirements of ICEA S-76-474

OPTIONS: Ridged Phase ID

Code Word	Phase Conductor			Bare Neutral Messenger			Completed Cable			Ampacity*	
	Size	No. of Strands	Insulation Thickness	Size	No. of Strands	Breaking Strength	Diameter	Weight		XLP 90°C	PE 75°C
								XLP	Poly		
	AWG/kcmil		inches	AWG/kcmil		lbs	inches	lbs/kft	lbs/kft	amps	amps
AAC NEUTRAL MESSENGER											
Pekingese	6	Solid	0.045	6	7	563	0.44	64	62	85	70
Collie	6	7	0.045	6	7	563	0.46	69	63	85	70
Dachshund	4	Solid	0.045	4	7	881	0.53	96	93	115	90
Spaniel	4	7	0.045	4	7	881	0.56	101	95	115	90
Doberman	2	7	0.045	2	7	1,350	0.68	153	146	150	120
Malamute	1/0	19	0.060	1/0	7	1,990	0.87	243	234	205	160
ACSR NEUTRAL MESSENGER											
Setter	6	Solid	0.045	6	6/1	1,190	0.46	75	73	85	70
Shepherd	6	7	0.045	6	6/1	1,190	0.48	78	75	85	70
Eskimo	4	Solid	0.045	4	6/1	1,860	0.55	114	112	115	90
Terrier	4	7	0.045	4	6/1	1,860	0.58	119	114	115	90
Chow	2	7	0.045	2	6/1	2,850	0.70	182	175	150	120
Bull	1/0	19	0.060	1/0	6/1	4,380	0.90	289	280	205	160
6201 ALLOY NEUTRAL MESSENGER**											
Chihuahua	6	Solid	0.045	6	7	1,110	0.46	68	66	85	70
Vizsla	6	7	0.045	6	7	1,110	0.48	71	67	85	70
Harrier	4	Solid	0.045	4	7	1,760	0.55	102	100	115	90
Whippet	4	7	0.045	4	7	1,760	0.58	107	102	115	90
Schnauzer	2	7	0.045	2	7	2,800	0.70	163	156	150	120
Heeler	1/0	19	0.060	1/0	7	4,460	0.90	1259	251	205	160

All values are nominal and subject to correction
**Conductor temperature of 90ºC for XLP, 75ºC for PE; ambient temperature of 40ºC, emissivity 0.9; 2ft/sec. wind in sun.*
***Designated 6201 neutral sizes are ACSR 6/1 diameter equivalent, phase conductor resistivity equivalent per ASTM B399.*

Triplex Overhead Aluminum Conductor (Service Drop)

APPLICATION: To supply power from the utility lines to the consumer weather head. For service at 600 volts or lower (phase to phase) at a conductor temperature of 90°C maximum for cross linked insulation or 75°C maximum for polyethylene insulation.
CONSTRUCTION: Concentrically stranded, compressed 1350-H19 aluminum conductor, cross-linked polyethylene (XLP) or polyethylene (PE) insulation, concentrically stranded AAC, ACSR or 6201 alloy bare neutral messenger.
SPECIFICATIONS: Triplex service drop cable meets or exceeds the following ASTM specifications: B230 Aluminum 1350–H19 Wire for Electrical Purposes • B231 Concentric-Lay-Stranded Aluminum 1350 Conductors • B232 Concentric-Lay-Stranded Aluminum Conductors, Coated-Steel Reinforced (ACSR) • B399 Concentric-Lay-Stranded Aluminum-Alloy 6201-T81 Conductors • Service Drop cable meets or exceeds all applicable requirements of ICEA S-76-474

OPTIONS: Ridged Phase ID
RUS ACCEPTED

Code Word	Phase Conductor			Bare Neutral Messenger			Completed Cable			Ampacity*	
	Size	No. of Strands	Insulation Thickness	Size	No. of Strands	Breaking Strength	Diameter	Weight		XLP 90°C	PE 75°C
								XLP	Poly		
	AWG/kcmil		inches	AWG/kcmil		lbs	inches	lbs/kft	lbs/kft	amps	amps
6201 ALLOY NEUTRAL MESSENGER*											
Minex	6	Solid	0.045	6	7	1,110	0.53	107	103	85	70
Hippa	6	7	0.045	6	7	1,110	0.57	107	106	85	70
Prawn	4	Solid	0.045	4	7	1,760	0.62	158	154	115	90
Barnacles	4	7	0.045	4	7	1,760	0.67	160	157	115	90
Shrimp	2	7	0.045	2	7	2,800	0.80	243	238	150	120
Gammarus	1/0	7	0.060	1/0	7	4,460	1.02	390	384	205	160
Leda	1/0	19	0.060	1/0	7	4,460	1.03	384	378	205	160
Dungeness	2/0	7	0.060	2/0	7	5,390	1.11	481	474	235	185
Cyclops	2/0	19	0.060	2/0	7	5,390	1.12	473	467	235	185
Flustra	3/0	19	0.060	3/0	7	6,790	1.23	596	589	275	215
Lepas	4/0	19	0.060	4/0	7	8,560	1.35	725	716	315	245
6201 ALLOY REDUCED NEUTRAL MESSENGER*											
Artemia	4	Solid	0.045	6	7	1,110	0.62	134	132	115	90
Crab	4	7	0.045	6	7	1,110	0.67	144	141	115	90
Solaster	2	7	0.045	4	7	1,760	0.80	216	212	150	120
Sandcrab	1/0	7	0.060	2	7	2,800	1.02	348	341	205	160
Echinus	1/0	19	0.060	2	7	2,800	1.03	342	336	205	160
Crayfish	2/0	7	0.060	1	7	3,530	1.11	453	423	235	185
Sipho	2/0	19	0.060	1	7	3,530	1.12	441	423	235	185
Fulgar	3/0	19	0.060	1/0	7	4,460	1.23	525	518	275	215
Arca	4/0	19	0.060	2/0	7	5,390	1.35	640	632	315	245
AAC NEUTRAL MESSENGER											
Haiotis	6	Solid	0.045	6	7	563	0.53	103	99	85	70
Patella	6	7	0.045	6	7	563	0.57	104	102	85	70
Fusus	4	Solid	0.045	4	7	881	0.62	152	148	115	90
Oyster	4	7	0.045	4	7	881	0.67	154	152	115	90

All values are nominal and subject to correction
**Designated 6201 neutral sizes are ACSR 6/1 diameter equivalent, phase conductor resistivity equivalent per ASTM B399*
***Conductor temperature of 90ºC for XLP, 75ºC for Poly; ambient temperature of 40ºC, emissivity 0.9, 2ft/sec. wind in sun.*

(Continued on page 19)

Triplex Overhead Aluminum Conductor (Service Drop)

Code Word	Phase Conductor			Bare Neutral Messenger			Completed Cable			Ampacity*	
	Size	No. of Strands	Insulation Thickness	Size	No. of Strands	Breaking Strength	Diameter	Weight		XLP 90°C	PE 75°C
								XLP	Poly		
	AWG/kcmil		inches	AWG/kcmil		lbs	inches	lbs/kft	lbs/kft	amps	amps
AAC NEUTRAL MESSENGER (continued)											
Mussel	2	7	0.045	4	7	881	0.80	208	204	150	120
Clam	2	7	0.045	2	7	1,350	0.80	232	228	150	120
Snail	1/0	7	0.060	2	7	1,350	1.02	336	329	205	160
Murex	1/0	7	0.060	1/0	7	1,990	1.02	374	367	205	160
Purpura	1/0	19	0.060	1/0	7	1,990	1.03	368	362	205	160
Nassa	2/0	7	0.060	2/0	7	2,510	1.11	461	453	235	185
Melita	3/0	19	0.060	3/0	19	3,310	1.23	585	563	275	215
Portunus	4/0	19	0.060	4/0	19	4,020	1.35	693	684	315	245
Nannynose	336.4	19	0.080	336.4	19	6,146	1.72	1,110	1,096	420	325
ACSR FULL SIZE NEUTRAL MESSENGER											
Paludina	6	Solid	0.045	6	6/1	1,190	0.53	114	113	85	70
Voluta	6	7	0.045	6	6/1	1,190	0.57	115	112	85	70
Whelk	4	Solid	0.045	4	6/1	1,860	0.62	163	161	115	90
Periwinkle	4	7	0.045	4	6/1	1,860	0.67	172	169	115	90
Conch	2	7	0.045	2	6/1	2,850	0.80	262	257	150	120
Neritina	1/0	7	0.060	1/0	6/1	4,380	1.02	420	414	205	160
Cenia	1/0	19	0.060	1/0	6/1	4,380	1.03	414	408	205	160
Runcina	2/0	7	0.060	2/0	6/1	5,310	1.11	519	512	235	185
Triton	2/0	19	0.060	2/0	6/1	5,310	1.12	511	505	235	185
Cherrystone	3/0	7	0.060	3/0	6/1	6,620	1.22	656	643	275	215
Mursia	3/0	19	0.060	3/0	6/1	6,620	1.23	633	626	275	215
Razor	4/0	7	0.060	4/0	6/1	8,350	1.34	814	799	315	245
Zuzara	4/0	19	0.060	4/0	6/1	8,350	1.35	785	777	315	245
Limpet	336.4	19	0.080	336.4	18/1	8,680	1.72	1,161	1,147	420	325
ACSR REDUCED SIZE NEUTRAL MESSENGER											
Scallop	4	Solid	0.045	6	6/1	1,190	0.62	142	139	115	90
Strombus	4	7	0.045	6	6/1	1,190	0.67	151	148	115	90
Cockle	2	7	0.045	4	6/1	1,860	0.80	228	224	150	120
Janthina	1/0	7	0.060	2	6/1	2,850	1.02	367	360	205	160
Ranella	1/0	19	0.060	2	6/1	2,850	1.03	361	356	205	160
Cavolinia	2/0	7	0.060	1	6/1	3,550	1.11	452	444	235	185
Clio	2/0	19	0.060	1	6/1	3,550	1.12	444	437	235	185
Sanddollar	3/0	7	0.060	1/0	6/1	4,380	1.22	570	557	275	215
Aega	3/0	19	0.060	1/0	6/1	4,380	1.23	565	552	275	215
Cuttlefish	4/0	7	0.060	2/0	6/1	5,310	1.33	706	691	315	245
Cerapus	4/0	19	0.060	2/0	6/1	5,310	1.35	678	670	315	245
Cowry	336.4	19	0.080	4/0	6/1	8,350	1.72	1,135	1,093	420	325

All values are nominal and subject to correction

***Conductor temperature of 90°C for XLP, 75°C for Poly; ambient temperature of 40°C, emissivity 0.9, 2ft/sec. wind in sun.*

Quadruplex Overhead Aluminum Conductor (Service Drop)

APPLICATION: Used to 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 or less phase to phase and at conductor temperatures not to exceed 75°C for polyethylene insulated conductors or 90°C for cross-linked-polyethylene (XLP) insulated conductors.
CONSTRUCTION: Concentrically stranded, compressed 1350-H19 aluminum conductor, cross-linked polyethylene (XLP) or polyethylene (PE) insulation, concentrically stranded AAC, ACSR or 6201 alloy bare neutral messenger.
SPECIFICATIONS: Quadruplex service drop cable meets or exceeds the following ASTM specifications: B230 Aluminum 1350–H19 Wire for Electrical Purposes • B231 Concentric-Lay-Stranded Aluminum 1350 Conductors • B232 Concentric-Lay-Stranded Aluminum Conductors, Coated-Steel Reinforced (ACSR) • B399 Concentric-Lay-Stranded Aluminum-Alloy 6201-T81 Conductors • Service Drop cable meets or exceeds all applicable requirements of ICEA S-76-474
OPTIONS: Ridged Phase ID
RUS ACCEPTED

Code Word	Phase Conductor			Bare Neutral Messenger			Completed Cable			Ampacity*	
	Size	No. of Strands	Insulation Thickness	Size	No. of Strands	Breaking Strength	Diameter	Weight		XLP 90°C	PE 75°C
								XLP	Poly		
	AWG/kcmil		inches	AWG/kcmil		lbs	inches	lbs/kft	lbs/kft	amps	amps
AAC NEUTRAL MESSENGER											
Clydesdale	4	Solid	0.045	4	7	881	0.68	208	201	100	80
Pinto	4	7/w	0.045	4	7	881	0.73	223	207	100	80
Mustang	2	7/w	0.045	2	7	1,350	0.88	333	312	135	105
Criollo	1/0	19/w	0.060	1/0	7	1,990	1.12	529	504	180	140
Percheron	2/0	19/w	0.060	2/0	7	2,510	1.24	649	620	205	160
Hanoverian	3/0	19/w	0.060	3/0	19	3,310	1.36	799	765	235	185
Oldenburg	4/0	19/w	0.060	4/0	19	4,020	1.50	986	946	275	210
Lippizaner	336.4	19/w	0.080	336.4	19	6,146	1.91	1,546	1,519	370	280
ACSR NEUTRAL MESSENGER											
Morochuca	6	Solid	0.045	6	6/1	1,190	0.58	152	147	75	60
Chola	6	7/W	0.045	6	6/1	1,190	0.62	162	151	75	60
Morgan	4	Solid	0.045	4	6/1	1,860	0.69	226	220	100	80
Hackney	4	7/W	0.045	4	6/1	1,860	0.74	241	226	100	80
Palomino	2	7/W	0.045	2	6/1	2,850	0.89	362	342	135	105
Costena	1/0	19/W	0.060	1/0	6/1	4,380	1.14	575	550	180	140
Grullo	2/0	19/W	0.060	2/0	6/1	5,310	1.26	707	678	205	160
Suffolk	3/0	19/W	0.060	3/0	6/1	6,620	1.38	872	838	235	180
Appaloosa	4/0	19/W	0.060	4/0	6/1	8,350	1.52	1,079	1,039	275	210
Bronco	336.4	19/W	0.080	336.4	18/1	8,580	1.92	1,613	1,568	370	280
Gelding	336.4	19/W	0.080	4/0	6/1	8,350	1.85	1,548	1,494	370	280
Hurricane	500	37/w	0.080	336.4	26/7	14,100	2.21	2,196	2,186	480	360

All values are nominal and subject to correction
**Conductor temperature of 90°C for XLP, 75°C for Poly; ambient temperature of 40°C, emissivity 0.9, 2ft/sec. wind in sun.*

(Continued on page 21)

Quadruplex Overhead Aluminum Conductor (Service Drop)

Code Word	Phase Conductor			Bare Neutral Messenger			Completed Cable			Ampacity*	
	Size	No. of Strands	Insulation Thickness	Size	No. of Strands	Breaking Strength	Diameter	Weight		XLP 90°C	PE 75°C
								XLP	Poly		
	AWG/kcmil		inches	AWG/kcmil		lbs	inches	lbs/kft	lbs/kft	amps	amps
6201 ALLOY NEUTRAL MESSENGER**											
Bay	6	Solid	0.045	6	7	1,110	0.59	145	140	75	60
French-Coach	6	7/w	0.045	6	7	1,110	0.63	155	144	75	60
German-Coach	4	Solid	0.045	4	7	1,760	0.69	214	208	100	80
Arabian	4	7/w	0.045	4	7	1,760	0.74	229	214	100	80
Belgian	2	7/w	0.045	2	7	2,800	0.89	344	323	135	105
Shetland	1/0	19/w	0.060	1/0	7	4,460	1.14	546	521	180	140
Thoroughbred	2/0	19/w	0.060	2/0	7	5,390	1.26	670	641	205	160
Trotter	3/0	19/w	0.060	3/0	7	6,790	1.38	825	791	135	185
Walking	4/0	19/w	0.060	4/0	7	8,560	1.52	1,019	979	275	210

All values are nominal and subject to correction

**Conductor temperature of 90°C for XLP, 75°C for Poly; ambient temperature of 40°C, emissivity 0.9, 2ft/sec. wind in sun.*

***Designated 6201 neutral sizes are ACSR 6/1 diameter equivalent, phase conductor resistivity equivalent per ASTM B399.*

15-35kV TR-XLPE URD

DESCRIPTION: Single conductor cable with solid or filled strand aluminum or copper conductors, triple extruded insulation system consisting of a thermosetting semiconducting conductor shield, high dielectric strength TRXLPE insulation, thermosetting semiconducting insulation shield, copper concentric neutral wires, water swellable agents, black encapsulating linear low-density polyethylene (LLDPE) jacket.
CONDUCTOR: Solid or Class B Compressed concentric strand aluminum alloy 1350 or soft drawn annealed copper per ASTM. Stranded conductors are water-blocked with conductor filling compound.
CONDUCTOR SHIELD: Extruded thermosetting semiconducting shield which is free stripping from the conductor and bonded to the insulation.
INSULATION: Natural high dielectric TRXLPE insulation, exhibiting an optimum balance of mechanical and electrical properties, assuring resistance to treeing.
INSULATION SHIELD: Extruded thermosetting semiconducting shield with controlled adhesion to the insulation providing the required balance between electrical integrity and ease of stripping.
METALLIC SHIELD: Solid bare copper wires, helically applied and uniformly spaced.
JACKET: Black insulating sunlight resistant linear low density polyethylene encapsulating the neutral wires with three extruded red stripes and NESC lightning bolt symbol. Sequential footage markings.
SPECIFICATIONS: Cable meets ICEA S-94-649, AEIC CS8. ASTM: B3, B5, B8, B230, B231, B609
RUS ACCEPTED

Conductor	Insulation Thickness (mils)	Concentric Neutral	Conductor Diameter (in)	Insulation Diameter (in)	Insulation Shield Diameter (in)	Jacket Diameter (in)	Cable Weight (lbs/kft)	Minimum Bending Radius (in)	Ampacity (amps)	+/- Sequence Impedance Resistance (μΩ/ft)	+/- Sequence Impedance Reactance (μΩ/ft)	Zero Sequence Impedance Resistance (μΩ/ft)	Zero Sequence Impedance Reactance (μΩ/ft)	Ampacity (Amps)	+/- Sequence Impedance Resistance (μΩ/ft)	+/- Sequence Impedance Reactance (μΩ/ft)	Zero Sequence Impedance Resistance (μΩ/ft)	Zero Sequence Impedance Reactance (μΩ/ft)
			(A)	(B)	(C)	(D)			90°C inDuct					90°C Direct Buried				
15KV 100% ALUMINUM SINGLE PHASE- FULL NEUTRAL																		
2 SOLID AL	175	10-#14	0.258	0.65	0.72	0.96	456	8	123	663	29	663	30	169	663	29	663	30
2 AWG AL	175	10-#14	0.284	0.68	0.75	0.99	475	8	124	669	30	669	31	170	669	30	669	31
1 SOLID AL	175	13-#14	0.289	0.69	0.75	0.99	521	8	141	518	28	518	29	193	518	28	518	29
1 AWG AL	175	13-#14	0.324	0.72	0.79	1.03	545	9	143	523	27	523	28	194	523	27	523	28
1/0 SOLID AL	175	16-#14	0.325	0.72	0.79	1.03	593	9	160	415	27	415	27	219	415	27	415	27
1/0 AWG AL	175	16-#14	0.364	0.76	0.83	1.07	621	9	162	420	26	420	26	220	420	26	420	26
2/0 AWG AL	175	13-#12	0.408	0.80	0.87	1.14	748	10	186	328	25	328	25	251	328	25	328	25
3/0 AWG AL	175	16-#12	0.458	0.85	0.92	1.19	864	10	212	263	24	263	24	284	263	24	263	24
4/0 AWG AL	175	13-#10	0.515	0.91	0.98	1.29	1055	11	243	207	23	207	23	323	207	23	207	23
250 MCM AL	175	16-#10	0.561	0.97	1.03	1.35	1228	11	270	171	22	171	22	358	171	22	171	22
350 MCM AL	175	16-#9	0.664	1.07	1.16	1.49	1556	12	321	130	21	130	20	420	130	21	130	20
15KV 100% ALUMINUM THREE PHASE - ONE-THIRD NEUTRAL																		
2 SOLID AL	175	6-#14	0.258	0.65	0.72	0.96	409	8	126	329	51	872	30	175	338	103	857	30
2 AWG AL	175	6-#14	0.284	0.68	0.75	0.99	429	8	126	335	51	879	31	175	344	102	865	31
1 SOLID AL	175	6-#14	0.289	0.69	0.75	0.99	440	8	143	261	49	805	29	199	270	100	791	29
1 AWG AL	175	6-#14	0.324	0.72	0.79	1.03	463	9	144	266	48	811	28	199	275	98	798	28
1/0 SOLID AL	175	6-#14	0.325	0.72	0.79	1.03	476	9	163	207	47	752	27	225	216	98	739	27
1/0 AWG AL	175	6-#14	0.364	0.76	0.83	1.07	504	9	163	212	46	758	26	225	221	96	745	26
2/0 AWG AL	175	7-#14	0.408	0.80	0.87	1.11	564	9	186	168	44	637	25	255	178	93	627	25
3/0 AWG AL	175	9-#14	0.458	0.85	0.92	1.16	646	10	212	133	43	498	24	286	145	89	491	24
4/0 AWG AL	175	11-#14	0.515	0.91	0.98	1.22	740	10	241	106	41	405	23	320	120	86	400	23
250 MCM AL	175	13-#14	0.561	0.97	1.03	1.27	836	11	265	91	40	343	21	345	106	82	339	21
350 MCM AL	175	18-#14	0.664	1.07	1.16	1.39	1068	12	319	66	38	247	19	398	84	76	245	19
500 MCM AL	175	16-#12	0.794	1.20	1.29	1.56	1407	13	385	48	37	174	18	451	68	67	173	18
750 MCM AL	175	24-#12	0.974	1.39	1.47	1.81	1985	15	468	35	35	117	16	507	57	55	116	16
1000 MCM AL	175	20-#10	1.124	1.54	1.65	2.03	2568	17	529	28	33	89	16	549	49	47	88	16

15-35kV TR-XLPE URD

CONTINUED

Conductor	Insulation Thickness (mils)	Concentric Neutral	Conductor Diameter (in)	Insulation Diameter (in)	Insulation Shield Diameter (in)	Jacket Diameter (in)	Cable Weight (lbs/kft)	Minimum Bending Radius (in)	Ampacity (amps)	+/- Sequence Impedance Resistance (μΩ/ft)	+/- Sequence Impedance Reactance (μΩ/ft)	Zero Sequence Impedance Resistance (μΩ/ft)	Zero Sequence Impedance Reactance (μΩ/ft)	Ampacity (Amps)	+/- Sequence Impedance Resistance (μΩ/ft)	+/- Sequence Impedance Reactance (μΩ/ft)	Zero Sequence Impedance Resistance (μΩ/ft)	Zero Sequence Impedance Reactance (μΩ/ft)
			(A)	(B)	(C)	(D)			90°C inDuct					90°C Direct Buried				
15 KV 133% ALUMINUM SINGLE PHASE - FULL NEUTRAL																		
2 SOLID AL	220	10-#14	0.258	0.74	0.81	1.05	514	9	123	663	29	663	30	169	663	29	663	30
2 AWG AL	220	10-#14	0.284	0.77	0.84	1.08	535	9	124	669	30	669	31	170	669	30	669	31
1 SOLID AL	220	13-#14	0.289	0.78	0.84	1.08	581	9	141	518	28	518	29	193	518	28	518	29
1 AWG AL	220	13-#14	0.324	0.81	0.88	1.12	607	9	143	523	27	523	28	194	523	27	523	28
1/0 SOLID AL	220	16-#14	0.325	0.81	0.88	1.12	655	9	160	415	27	415	27	219	415	27	415	27
1/0 AWG AL	220	16-#14	0.364	0.85	0.92	1.16	685	10	162	420	26	420	26	220	420	26	420	26
2/0 AWG AL	220	13-#12	0.408	0.89	0.96	1.23	817	10	186	328	25	328	25	251	328	25	328	25
3/0 AWG AL	220	16-#12	0.458	0.94	1.01	1.28	935	11	212	263	24	263	24	284	263	24	263	24
4/0 AWG AL	220	13-#10	0.515	1.00	1.07	1.38	1132	12	243	207	23	207	23	323	207	23	207	23
250MCMAL	220	16-#10	0.561	1.06	1.14	1.46	1330	12	270	171	22	171	22	358	171	22	171	22
350 MCM AL	220	16-#9	0.664	1.16	1.25	1.58	1645	13	321	130	21	130	20	420	130	21	130	20
15KV 133% ALUMINUM THREE PHASE - ONE-THIRD NEUTRAL																		
2 SOLID AL	220	6-#14	0.258	0.74	0.81	1.05	467	9	126	329	51	872	30	175	338	103	857	30
2 AWG AL	220	6-#14	0.284	0.77	0.84	1.08	488	9	126	335	51	879	31	175	344	102	865	31
1 SOLID AL	220	6-#14	0.289	0.78	0.84	1.08	499	9	143	261	49	805	29	199	270	100	791	29
1 AWG AL	220	6-#14	0.324	0.81	0.88	1.12	525	9	144	266	48	811	28	199	275	98	798	28
1/0 SOLID AL	220	6-#14	0.325	0.81	0.88	1.12	538	9	163	207	47	752	27	225	216	98	739	27
1/0 AWG AL	220	6-#14	0.364	0.85	0.92	1.16	568	10	163	212	46	758	26	225	221	96	745	26
2/0 AWG AL	220	7-#14	0.408	0.89	0.96	1.20	630	10	186	168	44	637	25	255	178	93	627	25
3/0 AWG AL	220	9-#14	0.458	0.94	1.01	1.25	715	11	212	133	43	498	24	286	145	89	491	24
4/0 AWG AL	220	11-#14	0.515	1.00	1.07	1.31	813	11	241	106	41	405	23	320	120	86	400	23
250 MCM AL	220	13-#14	0.561	1.06	1.14	1.38	932	12	265	91	40	343	21	345	106	82	339	21
350 MCM AL	220	18-#14	0.664	1.16	1.25	1.48	1150	12	319	66	38	247	19	398	84	76	245	19
500 MCM AL	220	16-#12	0.794	1.29	1.38	1.71	1563	14	385	48	37	174	18	451	68	67	173	18
750 MCM AL	220	24-#12	0.974	1.48	1.56	1.90	2091	16	468	35	35	117	16	507	57	55	116	16
1000 MCM AL	220	20-#10	1.124	1.63	1.74	2.12	2687	17	529	28	33	89	16	549	49	47	88	16
25KV 100% ALUMINUM SINGLE PHASE - FULL NEUTRAL																		
1 SOLID AL	260	13-#14	0.289	0.86	0.92	1.16	638	10	145	518	33	518	33	192	518	33	518	33
1 AWG AL	260	13-#14	0.324	0.89	0.96	1.20	666	10	146	523	31	523	32	194	523	31	523	32
1/0 SOLID AL	260	16-#14	0.325	0.89	0.96	1.20	714	10	165	415	31	415	31	218	415	31	415	31
1/0 AWG AL	260	16-#14	0.364	0.93	1.00	1.24	746	10	166	420	30	420	30	219	420	30	420	30
2/0 AWG AL	260	13-#12	0.408	0.97	1.04	1.31	882	11	190	328	29	328	29	250	328	29	328	29
3/0 AWG AL	260	16-#12	0.458	1.02	1.11	1.38	1023	12	217	263	28	263	28	283	263	28	263	28
4/0 AWG AL	260	13-#10	0.515	1.08	1.17	1.48	1227	12	248	207	26	207	27	322	207	26	207	27
250 MCM AL	260	16-#10	0.561	1.14	1.22	1.54	1406	13	276	171	25	171	25	356	171	25	171	25
350 MCM AL	260	16-#9	0.664	1.24	1.33	1.72	1792	14	326	130	23	130	23	416	130	23	130	23
25KV 100% ALUMINUM THREE PHASE - ONE-THIRD NEUTRAL																		
1 SOLID AL	260	6-#14	0.289	0.86	0.92	1.16	556	10	146	261	53	801	33	196	269	101	786	33
1 AWG AL	260	6-#14	0.324	0.89	0.96	1.20	584	10	146	266	52	807	32	196	274	99	792	32
1/0 SOLID AL	260	6-#14	0.325	0.89	0.96	1.20	597	10	166	207	51	748	31	222	215	98	734	31

15-35kV TR-XLPE URD

CONTINUED

Conductor	Insulation Thickness (mils)	Concentric Neutral	Conductor Diameter (in)	Insulation Diameter (in)	Insulation Shield Diameter (in)	Jacket Diameter (in)	Cable Weight (lbs/kft)	Minimum Bending Radius (in)	Ampacity (amps)	+/- Sequence Impedance Resistance (μΩ/ft)	+/- Sequence Impedance Reactance (μΩ/ft)	Zero Sequence Impedance Resistance (μΩ/ft)	Zero Sequence Impedance Reactance (μΩ/ft)	Ampacity (Amps)	+/- Sequence Impedance Resistance (μΩ/ft)	+/- Sequence Impedance Reactance (μΩ/ft)	Zero Sequence Impedance Resistance (μΩ/ft)	Zero Sequence Impedance Reactance (μΩ/ft)
			(A)	(B)	(C)	(D)			90°C inDuct					90°C Direct Buried				
25KV 100% ALUMINUM THREE PHASE - ONE-THIRD NEUTRAL (CONTINUED)																		
1/0 AWG AL	260	6-#14	0.364	0.93	1.00	1.24	629	10	166	212	50	754	30	222	220	96	740	30
2/0 AWG AL	260	7-#14	0.408	0.97	1.04	1.28	694	11	189	168	48	634	29	251	177	93	622	29
3/0 AWG AL	260	9-#14	0.458	1.02	1.11	1.35	801	11	216	133	46	495	27	283	144	90	487	27
4/0 AWG AL	260	11-#14	0.515	1.08	1.17	1.41	902	12	245	106	45	403	26	317	119	86	397	26
250 MCM AL	260	13-#14	0.561	1.14	1.22	1.46	1004	12	269	90	43	341	25	343	104	83	337	25
350 MCM AL	260	18-#14	0.664	1.24	1.33	1.56	1228	13	322	66	41	246	23	397	82	76	244	23
500 MCM AL	260	16-#12	0.794	1.37	1.46	1.79	1652	15	389	48	40	173	21	451	67	68	172	21
750 MCM AL	260	24-#12	0.974	1.56	1.67	2.01	2234	17	473	34	37	116	19	513	55	57	116	19
1000 MCM AL	260	20-#10	1.124	1.71	1.82	2.20	2797	18	533	28	35	88	18	555	48	49	88	18
25KV 133% ALUMINUM SINGLE PHASE - FULL NEUTRAL																		
1 SOLID AL	320	13-#14	0.289	0.98	1.05	1.29	735	11	145	518	33	518	33	192	518	33	518	33
1 AWG AL	320	13-#14	0.324	1.01	1.08	1.32	765	11	146	523	31	523	32	194	523	31	523	32
1/0 SOLID AL	320	16-#14	0.325	1.02	1.08	1.32	813	11	165	415	31	415	31	218	415	31	415	31
1/0 AWG AL	320	16-#14	0.364	1.05	1.14	1.38	869	12	166	420	30	420	30	219	420	30	420	30
2/0 AWG AL	320	13-#12	0.408	1.10	1.19	1.46	1012	12	190	328	29	328	29	250	328	29	328	29
3/0 AWG AL	320	16-#12	0.458	1.15	1.24	1.51	1137	13	217	263	28	263	28	283	263	28	263	28
4/0 AWG AL	320	13-#10	0.515	1.21	1.29	1.61	1349	13	248	207	26	207	27	322	207	26	207	27
250 MCM AL	320	16-#10	0.561	1.26	1.35	1.72	1597	14	276	171	25	171	25	356	171	25	171	25
350 MCM AL	320	16-#9	0.664	1.36	1.45	1.85	1934	15	326	130	23	130	23	416	130	23	130	23
25KV 133% ALUMINUM THREE PHASE - ONE-THIRD NEUTRAL																		
1 SOLID AL	320	6-#14	0.289	0.98	1.05	1.29	653	11	146	261	53	801	33	196	269	101	786	33
1 AWG AL	320	6-#14	0.324	1.01	1.08	1.32	683	11	146	266	52	807	32	196	274	99	792	32
1/0 SOLID AL	320	6-#14	0.325	1.02	1.08	1.32	696	11	166	207	51	748	31	222	215	98	734	31
1/0 AWG AL	320	6-#14	0.364	1.05	1.14	1.38	752	12	166	212	50	754	30	222	220	96	740	30
2/0 AWG AL	320	7-#14	0.408	1.10	1.19	1.42	821	12	189	168	48	634	29	251	177	93	622	29
3/0 AWG AL	320	9-#14	0.458	1.15	1.24	1.47	912	12	216	133	46	495	27	283	144	90	487	27
4/0 AWG AL	320	11-#14	0.515	1.21	1.29	1.53	1018	13	245	106	45	403	26	317	119	86	397	26
250 MCM AL	320	13-#14	0.561	1.26	1.35	1.59	1125	13	269	90	43	341	25	343	104	83	337	25
350 MCM AL	320	18-#14	0.664	1.36	1.45	1.75	1422	14	322	66	41	246	23	397	82	76	244	23
500 MCM AL	320	16-#12	0.794	1.49	1.58	1.91	1797	16	389	48	40	173	21	451	67	68	172	21
750 MCM AL	320	24-#12	0.974	1.68	1.80	2.13	2398	18	473	34	37	116	19	513	55	57	116	19
1000 MCM AL	320	20-#10	1.124	1.83	1.95	2.32	2975	19	533	28	35	88	18	555	48	49	88	18
35KV 100% ALUMINUM SINGLE PHASE - FULL NEUTRAL																		
1/0 SOLID AL	345	16-#14	0.325	1.07	1.15	1.39	877	12	168	415	35	415	35	217	415	35	415	35
1/0 AWG AL	345	16-#14	0.364	1.10	1.19	1.43	914	12	169	420	34	420	34	218	420	34	420	34
2/0 AWG AL	345	13-#12	0.408	1.15	1.24	1.51	1059	13	194	328	32	328	33	249	328	32	328	33
3/0 AWG AL	345	16-#12	0.458	1.20	1.29	1.56	1186	13	220	263	31	263	31	283	263	31	263	31
4/0 AWG AL	345	13-#10	0.515	1.26	1.34	1.72	1465	14	252	207	30	207	30	321	207	30	207	30
250 MCM AL	345	16-#10	0.561	1.31	1.40	1.77	1653	15	280	171	28	171	28	353	171	28	171	28
350 MCM AL	345	16-#9	0.664	1.41	1.50	1.90	1993	16	331	130	26	130	26	416	130	26	130	26

15-35kV TR-XLPE URD

CONTINUED

Conductor	Insulation Thickness (mils)	Concentric Neutral	Conductor Diameter (in)	Insulation Diameter (in)	Insulation Shield Diameter (in)	Jacket Diameter (in)	Cable Weight (lbs/kft)	Minimum Bending Radius (in)	Ampacity (amps)	+/- Sequence Impedance Resistance (μΩ/ft)	+/- Sequence Impedance Reactance (μΩ/ft)	Zero Sequence Impedance Resistance (μΩ/ft)	Zero Sequence Impedance Reactance (μΩ/ft)	Ampacity (Amps)	+/- Sequence Impedance Resistance (μΩ/ft)	+/- Sequence Impedance Reactance (μΩ/ft)	Zero Sequence Impedance Resistance (μΩ/ft)	Zero Sequence Impedance Reactance (μΩ/ft)
			(A)	(B)	(C)	(D)			90°C inDuct					90°C Direct Buried				
35KV 100% ALUMINUM THREE PHASE - ONE-THIRD NEUTRAL																		
1/0 SOLID AL	345	6-#14	0.325	1.07	1.15	1.39	760	12	168	207	54	745	35	219	214	98	729	35
1/0 AWG AL	345	6-#14	0.364	1.10	1.19	1.43	797	12	168	212	53	751	34	219	219	96	736	34
2/0 AWG AL	345	7-#14	0.408	1.15	1.24	1.47	867	12	191	168	51	631	32	248	176	93	618	32
3/0 AWG AL	345	9-#14	0.458	1.20	1.29	1.52	960	13	218	133	49	493	31	280	143	90	485	31
4/0 AWG AL	345	11-#14	0.515	1.26	1.34	1.58	1068	13	247	106	47	401	29	314	117	86	395	29
250 MCM AL	345	13-#14	0.561	1.31	1.40	1.70	1239	14	271	90	47	340	28	339	103	83	335	28
350MCMAL	345	18-#14	0.664	1.41	1.50	1.80	1478	15	325	66	44	245	25	394	81	77	243	25
500 MCM AL	345	16-#12	0.794	1.54	1.66	1.99	1904	16	392	48	42	173	24	452	65	69	171	24
750 MCM AL	345	24-#12	0.974	1.73	1.85	2.18	2466	18	476	34	39	116	21	517	54	59	115	21
1000 MCM AL	345	20-#10	1.124	1.88	2.00	2.37	3050	19	536	28	37	88	20	560	47	51	88	20
35KV 133% ALUMINUM SINGLE PHASE - FULL NEUTRAL																		
1/0 SOLID AL	420	16-#14	0.325	1.22	1.31	1.55	1021	13	168	415	35	415	35	217	415	35	415	35
1/0 AWG AL	420	16-#14	0.364	1.26	1.35	1.58	1062	13	169	420	34	420	34	218	420	34	420	34
2/0 AWG AL	420	13-#12	0.408	1.30	1.39	1.72	1279	14	194	328	32	328	33	249	328	32	328	33
3/0 AWG AL	420	16-#12	0.458	1.35	1.44	1.77	1412	15	220	263	31	263	31	283	263	31	263	31
4/0 AWG AL	420	13-#10	0.515	1.41	1.50	1.87	1641	15	252	207	30	207	30	321	207	30	207	30
250 MCM AL	420	16-#10	0.561	1.46	1.55	1.93	1834	16	280	171	28	171	28	353	171	28	171	28
350 MCM AL	420	16-#9	0.664	1.57	1.68	2.08	2234	17	331	130	26	130	26	416	130	26	130	26
35KV 133% ALUMINUM THREE PHASE - ONE THIRD NEUTRAL																		
1/0 SOLID AL	420	6-#14	0.325	1.22	1.31	1.55	904	13	168	207	54	745	35	219	214	98	729	35
1/0 AWG AL	420	6-#14	0.364	1.26	1.35	1.58	945	13	168	212	53	751	34	219	219	96	736	34
2/0 AWG AL	420	7-#14	0.408	1.30	1.39	1.63	1019	14	191	168	51	631	32	248	176	93	618	32
3/0 AWG AL	420	9-#14	0.458	1.35	1.44	1.74	1182	14	218	133	49	493	31	280	143	90	485	31
4/0 AWG AL	420	11-#14	0.515	1.41	1.50	1.80	1297	15	247	106	47	401	29	314	117	86	395	29
250 MCM AL	420	13-#14	0.561	1.46	1.55	1.85	1412	15	271	90	47	340	28	339	103	83	335	28
350 MCM AL	420	18-#14	0.664	1.57	1.68	1.98	1706	16	325	66	44	245	25	394	81	77	243	25
500 MCM AL	420	16-#12	0.794	1.70	1.81	2.15	2107	18	392	48	42	173	24	452	65	69	171	24
750 MCM AL	420	24-#12	0.974	1.88	2.00	2.33	2687	19	476	34	39	116	21	517	54	59	115	21
1000 MCM AL	420	20-#10	1.124	2.03	2.15	2.53	3290	21	536	28	37	88	20	560	47	51	88	20

All values are nominal and subject to correction

Single Phase Operation (Full Neutral Design)
In Duct: One single cable in plastic duct, direct-buried, 90°C conductor temperature, 20°C ambient temperature, earth RHO of 90°C-cm/Watt, 100% load factor, 36 inch depth of burial, and shields short-circuited.
Direct Buried: One single cable, direct-buried, 90°C conductor temperature, 20°C ambient temperature, earth RHO of 90°C-cm/Watt, 100% load factor, 36 inch depth of burial, and shields short-circuited.

Three Phase Operation (1/3 Neutral Design)
In Duct: Three single cables in plastic duct, direct-buried in a triangular configuration, 90°C conductor temperature, 20°C ambient temperature, earth RHO of 90°C-cm/Watt, 100% load factor, 36 inch depth of burial, and shields short-circuited.
Direct Buried: Three single cables, direct-buried, spaced 7.5 inches horizontally, 90°C conductor temperature, 20"C ambient temperature, earth RHO of 90°C-cm/Watt, 100% load factor, 36 inch depth of burial, and shields short-circuited.

Single Conductor 600 Volt URD

Secondary Type UD Cable - Aluminum Conductor

APPLICATION: Directly buried or installed in ducts for 600 volt or less secondary distribution.
CONSTRUCTION: Concentric stranded or compressed 1350 series aluminum conductor, cross-linked polyethylene insulation.
SPECIFICATIONS: ASTM B230, B231, B609, ICEA S-105-692, Federal Specification A-A-595544, UL 854.
OPTIONS: Cable in Duct (CIC) • Ruggedized • Ridged Phase ID
RUS ACCEPTED

Code Word	Conductor Size	Insulation Thickness	Diameter	Weight	Ampacity**	
					Direct Burial	In Duct
	AWG/kcmil	inches	inches	lbs/kft	amps	amps
Princeton	6*	0.060	0.31	44	90	65
Mercer	4*	0.060	0.36	63	120	85
Clemson	2	0.060	0.42	92	155	115
Kenyon	1	0.080	0.50	121	175	130
Harvard	1/0	0.080	0.54	146	200	150
Yale	2/0	0.080	0.59	177	225	170
Tufts	3/0	0.080	0.64	215	250	195
Beloit	4/0	0.080	0.70	263	290	225
Hofstra	250	0.095	0.77	314	320	250
Gonzaga	300	0.095	0.83	367	355	280
Rutgers	350	0.095	0.88	420	385	305
Dartmouth	400	0.095	0.92	476	415	330
Emory	500	0.095	1.01	577	465	370
Duke	600	0.110	1.12	697	510	410
Furman	700	0.110	1.20	804	550	440
Sewanee	750	0.110	1.23	853	580	470
Fordham	1000	0.110	1.38	1108	670	545

All values are nominal and subject to correction
**Not RUS accepted size*
***Ratings for 3/C, 90°C conductor temperature, 20°C ambient earth temperature, RHO 90, 100% load factor. For NEC installations reference NEC article 310.15.*

Duplex Conductor 600 Volt URD

Secondary Type UD Cable - Aluminum Conductor

APPLICATION: Directly buried or installed in ducts for 600 volt or less secondary distribution.
CONSTRUCTION: Concentric stranded or compressed 1350 series aluminum conductor, cross linked polyethylene (XLP) insulation. Insulated conductors surface printed, neutral, yellow striped. One phase and one neutral conductor twisted together.
SPECIFICATIONS: ASTM B230, B231, B609, B901 and ICEA S-105-692. Federal specification A-A-595544A NEC. UL 854.
OPTIONS: Cable in Duct (CIC) • Ruggedized • Ridged Phase ID

Code Word	Phase Conductor			Neutral			Diameter		Weight	Ampacity**	
	Size	No. of Strands	Insulation Thickness	Size	No. of Strands	Insulation Thickness	Single Phase Conductor	Complete Cable		Direct Burial	In Duct
	AWG		inches	AWG		inches	inches	inches	lbs/kft	amps	amps
Bard	8*	7	0.060	8	7	0.060	0.26	0.52	69	70	55
Claflin	6*	7	0.060	6	7	0.060	0.30	0.60	95	95	70
Delgado	4*	7	0.060	4	7	0.060	0.35	0.69	135	125	90
Everett	2	7	0.060	2	7	0.060	0.40	0.80	189	165	120

All values are nominal and subject to correction
**Not RUS accepted size, **Ampacity 90°C conductor temperatures, 20°C ambient earth temperature. RHO 90.100% load factor.*
For NEC installations reference NEC article 310.15.

Triplex Conductor 600 Volt URD

Secondary Type UD Cable - Aluminum Conductor

APPLICATION: Directly buried or installed in ducts for 600 volt or less secondary distribution.
CONSTRUCTION: Concentric stranded or compressed 1350 series aluminum alloy conductors, Class B stranded per ASTM, cross-linked polyethylene (XLP) insulation. Insulated conductors surface printed, neutral, yellow striped. Two phase and one neutral conductor twisted together.
SPECIFICATIONS: ASTM B230, B231, B609, B901, ICEA S-105-692, Federal Specification A-A-595544. UL 854.
OPTIONS: Cable in Duct (CIC) • Ruggedized • Ridged Phase ID
RUS ACCEPTED

Code Word	Phase Conductor			Neutral			Diameter		Weight	Ampacity**	
	Size	No. of Strands	Insulation Thickness	Size	No. of Strands	Insulation Thickness	Single Phase Conductor	Complete Cable		Direct Burial	In Duct
	AWG/kcmil		inches	AWG/kcmil		inches	inches	inches	lbs/kft	amps	amps
Erskine	6*	7	0.060	6	7	0.060	0.30	0.64	143	95	70
Vassar	4*	7	0.060	4	7	0.060	0.35	0.75	202	125	90
Stephens	2	7	0.060	4	7	0.060	0.40	0.87	262	165	120
Ramapo	2	7	0.060	2	7	0.060	0.40	0.87	292	165	120
Brenau	1/0	19	0.080	2	7	0.060	0.51	1.11	406	215	160
Bergen	1/0	19	0.080	1/0	19	0.080	0.51	1.11	463	215	160
Converse	2/0	19	0.080	1	19	0.080	0.56	1.20	501	245	180
Hunter	2/0	19	0.080	2/0	19	0.080	0.56	1.20	559	245	180
Hollins	3/0	19	0.080	1/0	19	0.080	0.60	1.30	606	280	205
Rockland	3/0	19	0.080	3/0	19	0.080	0.60	1.30	677	280	205
Sweetbriar	4/0	19	0.080	2/0	19	0.080	0.66	1.42	737	315	240
Monmouth	4/0	19	0.080	4/0	19	0.080	0.66	1.42	826	315	240
Pratt	250	37	0.095	3/0	19	0.080	0.75	1.62	888	345	265
Wesleyan	350	37	0.095	4/0	19	0.080	0.85	1.84	1,157	415	320
Holyoke	500	37	0.095	300	37	0.095	0.98	2.12	1,591	495	395
Rider	500	37	0.095	350	37	0.095	0.98	2.12	1,646	495	395
Fairfield	750	61	0.110	500	37	0.095	1.19	2.40	2,289	620	495

All values are nominal and subject to correction
**Not RUS accepted size*
**Ampacity: 90°C conductor temperature, 20°C ambient earth temperature, RHO 90, 100% load factor. Neutral carries unbalanced load only.*
For NEC installations reference NEC article 310.15.

Quadruplex Conductor 600 Volt URD
Secondary Type UD Cable - Aluminum Conductor

APPLICATION: Direct buried or installed in ducts for 600 volts or less secondary distribution.
CONSTRUCTION: Concentric stranded or compressed 1350 series aluminum conductors, cross-linked polyethylene (XLP) insulation. Insulated conductors surface printed, neutral, yellow striped. Three phase and one neutral conductor twisted together.
SPECIFICATIONS: ASTM B230, B231, B609, B901, ICEA S-105-692, Federal Specification A-A-59544 and NEC. UL 854.
OPTIONS: Cable in Duct (CIC) • Ruggedized • Ridged Phase ID
RUS ACCEPTED

Code Word	Phase Conductor			Neutral			Diameter		Weight	Ampacity**	
	Size	No. of Strands	Insulation Thickness	Size	No. of Strands	Insulation Thickness	Single Phase Conductor	Complete Cable		Direct Burial	In Duct
	AWG/kcmil		inches	AWG/kcmil		inches	inches	inches	lbs/kft	amps	amps
Tulsa	4*	7	0.060	4	7	0.060	0.35	0.83	269	120	85
Dyke	2	7	0.060	4	7	0.060	0.40	0.97	359	155	115
Wittenberg	2	7	0.060	2	7	0.060	0.40	0.97	389	155	115
Notre Dame	1/0	19	0.080	2	7	0.060	0.51	1.24	560	200	150
Purdue	1/0	19	0.080	1/0	19	0.080	0.51	1.24	617	200	150
Syracuse	2/0	19	0.080	1	19	0.080	0.56	1.34	687	225	170
Lafayette	2/0	19	0.080	2/0	19	0.080	0.56	1.34	745	225	170
Swarthmore	3/0	19	0.080	1/0	19	0.080	0.60	1.46	832	250	195
Davidson	3/0	19	0.080	3/0	19	0.080	0.60	1.46	903	250	195
Wake Forest	4/0	19	0.080	2/0	19	0.080	0.66	1.59	1,012	290	225
Earlham	4/0	19	0.080	4/0	19	0.080	0.66	1.59	1,101	290	225
Rust	250	37	0.095	3/0	19	0.080	0.75	1.81	1,215	320	250
Slippery Rock	350	37	0.095	4/0	19	0.080	0.85	2.05	1,598	385	305
Niagara	350	37	0.095	350	37	0.095	0.85	2.08	1,695	385	305
Wofford	500	37	0.095	350	37	0.095	0.98	2.35	2,174	465	370
Windham	750	61	0.110	500	37	0.095	1.19	2.78	3,305	580	460

All values are nominal and subject to correction
**Not RUS accepted size*
***Ampacity: 90°C conductor temperature, 20°C ambient earth temperature, RHO 90, 100% load factor for three current carrying conductors with neutral carrying only unbalanced load.*
For NEC installations reference NEC article 310.15.

Triplex Conductor 600 Volt 8000 Series URD
Secondary Type UD Cable RHH or RHW-2 or USE-2 600V-Aluminum Conductor

APPLICATION: Secondary distribution and underground service at 600 volts or less and in temperatures not to exceed 90°C in wet and dry locations, either direct burial or in ducts, where increased flexibility is needed.
CONSTRUCTION: Compressed stranded AA-8000 series Aluminum Alloy or concentric stranded conductors insulated with cross-linked polyethylene (XLP). A triplex construction consists of two-phase conductors and one neutral. The neutral conductor contains yellow extruded stripes and sequential footage marks. Conductors are surface printed for identification.
SPECIFICATIONS: Triplex Type RHH or RHW-2 or USE-2 600 volt cable meets or exceeds the following applicable standards/specifications: ASTM B800 8000 Series Aluminum Alloy Wire for Electrical Purposes • ASTM B801 Compressed Conductors of 8000 Series Aluminum Alloy for Subsequent Covering or Insulations • ASTM B901 Compressed Round Stranded Aluminum Conductors Using Single Input Wire Construction • ICEA S-105-682 for cross-linked polyethylene insulated conductors, UL 44 for type RHW-2, and UL 854 for Type USE-2.
OPTIONS: Cable in Duct (CIC) • Ruggedized • Ridged Phase ID

Code Word	Phase Conductor			Neutral			Diameter		Weight	Ampacity*	
	Size	No. of Strands	Insulation Thickness	Size	No. of Strands	Insulation Thickness	Single Phase Conductor	Complete Cable		Direct Burial	In Duct
	AWG/kcmil		inches	AWG		inches	inches	inches	lbs/kft	amps	amps
Vassar/8k	4	7	0.060	4	7	0.060	0.35	0.75	202	125	85
Stephens/8k	2	7	0.060	4	7	0.060	0.40	0.87	262	165	120
Ramapo/8k	2	7	0.060	2	7	0.060	0.40	0.87	292	165	120
Brenau/8k	1/0	19	0.080	2	7	0.060	0.51	1.11	406	215	160
Converse/8k	2/0	19	0.080	1	19	0.080	0.56	1.20	501	245	180
Sweetbriar/8k	4/0	19	0.080	2/0	19	0.080	0.66	1.42	737	315	240
Monmouth/8k	4/0	19	0.080	4/0	19	0.080	0.66	1.42	826	315	240
Pratt/8k	250	37	0.095	3/0	19	0.080	0.75	1.62	888	345	265
Wesleyan/8k	350	37	0.095	4/0	19	0.080	0.85	1.84	1,157	415	320

All values are nominal and subject to correction
**Ampacity: 90°C conductor temperature, 20°C ambient earth temperature, RHO 90, 100% load factor. Neutral carries unbalanced load only.*
For NEC installations reference NEC article 310.15.

General Purpose Control Cable Unshielded

APPLICATION: General Purpose Control Cable which is used in industrial and utility applications, for distribution or control circuits and for the interconnection of operation of protective devices. It can be installed in open air, in ducts or conduit, in trays or troughs, and direct burial for circuits up to 600 volts and temperatures up to 75°C.

CONSTRUCTION: Stranded annealed bare copper conductor, per ASTM B3 & B8. Heat and moisture resistant E-1 colored combination insulation of polyethylene (PE) and polyvinyl chloride (PVC). Black polyvinyl chloride (PVC) jacket, which is heat, moisture and sunlight resistant.

SPECIFICATIONS: • Rated 600 Volts at 75°C. • ICEA S-73-532/NEMA WC57 • ASTM B3, B8 • Sunlight resistant • Direct Burial • RoHS compliant • REACH compliant

Conductor Size	No. of Conductors	Insulation Thickness	Overall Jacket Thickness	Overall Diameter	Approx. Weight
AWG		PE/PVC inches	inches	inches	lbs/kft
15/10 PE/PVC - 7 Strand					
18	3	0.015 / 0.010	0.045	0.294	47
18	4	0.015 / 0.010	0.045	0.319	58
18	7	0.015 / 0.010	0.045	0.378	89
18	12	0.015 / 0.010	0.045	0.490	142
20/10 PE/PVC - 7 Strand					
14	4	0.020 / 0.010	0.045	0.411	106
14	7	0.020 / 0.010	0.045	0.492	170
14	12	0.020 / 0.010	0.060	0.678	299
12	2	0.020 / 0.010	0.045	0.393	93
12	3	0.020 / 0.010	0.045	0.415	121
12	4	0.020 / 0.010	0.045	0.454	147
12	7	0.020 / 0.010	0.060	0.591	256
12	8	0.020 / 0.010	0.060	0.622	291
12	9	0.020 / 0.010	0.060	0.690	330
12	12	0.020 / 0.010	0.060	0.749	413
10	2	0.020 / 0.010	0.045	0.439	128
10	3	0.020 / 0.010	0.045	0.465	128
10	4	0.020 / 0.010	0.045	0.513	214
10	5	0.020 / 0.010	0.060	0.609	286
10	7	0.020 / 0.010	0.060	0.642	356
10	8	0.020 / 0.010	0.060	0.696	409
10	9	0.020 / 0.010	0.060	0.749	451
10	12	0.020 / 0.010	0.080	0.884	629
30/15 PE/PVC - 7 Strand					
18	2	0.030 / 0.015	0.045	0.390	62
14	6	0.030 / 0.015	0.060	0.635	220
12	2	0.030 / 0.015	0.045	0.470	102
12	4	0.030 / 0.015	0.060	0.580	188
10	4	0.030 / 0.015	0.060	0.640	250
10	8	0.030 / 0.015	0.080	0.900	490
6	4	0.030 / 0.015	0.060	0.800	495

Conductor Size	No. of Conductors	Insulation Thickness	Overall Jacket Thickness	Overall Diameter	Approx. Weight
AWG		PE/PVC inches	inches	inches	lbs/kft
45/15 PE/PVC - 7 Strand					
8	2	0.045 / 0.015	0.060	0.645	238
8	3	0.045 / 0.015	0.060	0.684	309
8	12	0.045 / 0.015	0.080	1.249	1066
45/25 PE/PVC - 7 Strand					
6	2	0.045 / 0.025	0.060	0.774	351
6	3	0.045 / 0.025	0.080	0.863	500
4	3	0.045 / 0.025	0.080	0.966	673
45/30 PE/PVC - 7 Strand					
4	1	0.045 / 0.030	---	0.382	171
2	1	0.045 / 0.030	---	0.435	254

All values are nominal and subject to correction
Color Coding per ICEA S-73-532, Method 1, Table E-1

General Purpose Control Cable Shielded

APPLICATION: General Purpose Control Cable which is used in industrial and utility applications, for distribution or control circuits and for the interconnection of operation of protective devices. It can be installed in open air, in ducts or conduit, in trays or troughs, and direct burial for circuits up to 600 volts and temperatures up to 75°C.
CONSTRUCTION: Stranded annealed bare copper conductor, per ASTM B3 & B8. Heat and moisture resistant E-1 colored combination insulation of polyethylene (PE) and polyvinyl chloride (PVC). Black polyvinyl chloride (PVC) jacket, which is heat, moisture and sunlight resistant. 0.005" Helical bare copper tape with 20% nominal overlap shield.
SPECIFICATIONS: • Rated 600 Volts at 75°C. • ICEA S-73-532/NEMA WC57 • ASTM B3, B8 • Sunlight resistant • Direct Burial • RoHS compliant • REACH compliant

Conductor Size	No. of Conductors	Insulation Thickness	Overall Jacket Thickness	Overall Diameter	Approx. Weight
AWG		PE/PVC inches	inches	inches	lbs/kft
15/10 PE/PVC - 7 Strand					
18	3	0.015 / 0.010	0.045	0.307	76
18	4	0.015 / 0.010	0.045	0.332	89
18	7	0.015 / 0.010	0.045	0.388	116
18	12	0.015 / 0.010	0.045	0.497	177
20/10 PE/PVC - 7 Strand					
14	7	0.020 / 0.010	0.045	0.499	206
12	2	0.020 / 0.010	0.045	0.403	128
10	2	0.020 / 0.010	0.045	0.449	154
10	3	0.020 / 0.010	0.045	0.475	202
10	4	0.020 / 0.010	0.060	0.550	267
10	5	0.020 / 0.010	0.060	0.969	719
10	8	0.020 / 0.010	0.060	0.706	458
10	9	0.020 / 0.010	0.060	0.759	505
10	12	0.020 / 0.010	0.080	0.891	688
30/15 PE/PVC - 7 Strand					
18	2	0.030 / 0.015	0.045	0.400	87
14	6	0.030 / 0.015	0.060	0.650	259
12	2	0.030 / 0.015	0.045	0.478	142
10	2	0.030 / 0.015	0.060	0.570	201
10	4	0.030 / 0.015	0.060	0.650	307
10	8	0.030 / 0.015	0.080	0.910	581
6	4	0.030 / 0.015	0.060	0.820	571

Conductor Size	No. of Conductors	Insulation Thickness	Overall Jacket Thickness	Overall Diameter	Approx. Weight
AWG		PE/PVC inches	inches	inches	lbs/kft
45/15 PE/PVC - 7 Strand					
8	2	0.045 / 0.015	0.060	0.655	272
8	3	0.045 / 0.015	0.060	0.694	357
8	5	0.045 / 0.015	0.080	0.878	570
45/25 PE/PVC - 7 Strand					
6	2	0.045 / 0.025	0.060	0.778	411
6	3	0.045 / 0.025	0.080	0.870	563
6	9	0.045 / 0.025	0.080	1.346	1374
4	3	0.045 / 0.025	0.080	0.976	738
45/30 PE/PVC - 7 Strand					
4	1	0.045 / 0.030	0.045	0.487	291
2	1	0.045 / 0.030	0.045	0.535	382

All values are nominal and subject to correction
Color Coding per ICEA S-73-532, Method 1, Table E-1

Tinned Copper XLPE/CPE Multi Conductor Control Cable 600V (Industrial Tray Cable)

APPLICATION/INSTALLATION: For use as a 600 volt, multi conductor control cable where flame-retardance, and moisture/chemical resistance is critical. Cable can be installed in cable trays, supported by messenger in open air, raceways, channels, conduits and ducts. The cable is also UL approved for wet or dry loacations as well as Class 1 Division II industrial hazardous locations per NEC.
CONDUCTOR: Fully annealed tinned copper Class B compressed strand per ASTM B33 and ASTM B8.
INSULATION: Flame retardant Cross-linked Polyethylene (FR-XLPE).
ASSEMBLY: Conductors are cabled together with or without fillers as required to form a round, compact cable core with a binder tape.
COLOR CODE: ICEA S-58-679 Method 1, Table E-2
JACKET: Flame and sunlight resistant black thermoplastic Chlorinated Polyethylene (CPE)..
OPTIONS: Class K standing per ASTM B174. Class H standing per ASTM B173. Bare copper conductors. Copper tape sheilded. ICEA Method 1, Table E-1 color code.
FEATURES AND BENEFITS: Temperature rating of 90°C (wet or dry). Insulation provides excellent electrical, thermal, and physical properties, excellent flame resistance that allows the jacket to burn to an ash and does not exhibit the thermoplastic drip characteristic, resistance to crush, compression, cuts and heat deformation. Also conductor insulation provides good low temperature (-25°C) cold bend characteristics

Conductor Size	No. of Conductors	No. of Strands	Insulation Thickness		Jacket Thickness		Overall Diameter	Weight
AWG			inches	mm	inches	mm	inches	lbs/kft
14	2	7	0.030	0.76	0.045	1.14	0.36	71
14	3	7	0.030	0.76	0.045	1.14	0.38	93
14	4	7	0.030	0.76	0.045	1.14	0.41	116
14	5	7	0.030	0.76	0.045	1.14	0.45	140
14	7	7	0.030	0.76	0.045	1.14	0.49	187
14	9	7	0.030	0.76	0.060	1.52	0.60	255
14	12	7	0.030	0.76	0.060	1.52	0.68	328
14	19	7	0.030	0.76	0.080	2.03	0.79	487
14	25	7	0.030	0.76	0.080	2.03	0.93	663
14	30	7	0.030	0.76	0.080	2.03	1.00	780
14	37	7	0.030	0.76	0.080	2.03	1.10	940
12	2	7	0.030	0.76	0.045	1.14	0.39	100
12	3	7	0.030	0.76	0.045	1.14	0.42	130
12	4	7	0.030	0.76	0.045	1.14	0.45	163
12	5	7	0.030	0.76	0.045	1.14	0.50	194
12	7	7	0.030	0.76	0.060	1.52	0.58	274
12	9	7	0.030	0.76	0.060	1.52	0.67	359
12	12	7	0.030	0.76	0.060	1.52	0.75	445
12	15	7	0.030	0.76	0.080	2.03	0.87	603
12	19	7	0.030	0.76	0.080	2.03	0.92	709
12	25	7	0.030	0.76	0.080	2.03	1.03	907
12	30	7	0.030	0.76	0.080	2.03	1.13	1074
12	37	7	0.030	0.76	0.080	2.03	1.24	1288

All values are nominal and subject to correction

(Continued on page 33)

Tinned Copper XLPE/CPE Multi Conductor Control Cable 600V (Industrial Tray Cable)

Conductor Size	No. of Conductors	No. of Strands	Insulation Thickness		Jacket Thickness		Overall Diameter	Weight
AWG			inches	mm	inches	mm	inches	lbs/kft
10	2	7	0.030	0.76	0.045	1.14	0.44	133
10	3	7	0.030	0.76	0.045	1.14	0.47	185
10	4	7	0.030	0.76	0.060	1.52	0.55	252
10	5	7	0.030	0.76	0.060	1.52	0.60	299
10	7	7	0.030	0.76	0.060	1.52	0.65	395
10	9	7	0.030	0.76	0.060	1.52	0.76	510
10	12	7	0.030	0.76	0.080	2.03	0.89	687
10	15	7	0.030	0.76	0.080	2.03	0.96	735
10	19	7	0.030	0.76	0.080	2.03	1.04	1032
10	25	7	0.030	0.76	0.080	2.03	1.19	1170
10	37	7	0.030	0.76	0.080	2.03	1.41	1680
12	2	12	0.030	0.76	0.045	1.14	0.41	105
12	3	12	0.030	0.76	0.045	1.14	0.43	140
12	4	12	0.030	0.76	0.045	1.14	0.47	170
10	2	10	0.030	0.76	0.045	1.14	0.47	183
10	3	10	0.030	0.76	0.060	1.52	0.54	246
10	4	10	0.030	0.76	0.060	1.52	0.60	302
8	2	10	0.045	1.14	0.060	1.52	0.65	362
8	3	10	0.045	1.14	0.060	1.52	0.66	373
8	4	10	0.045	1.14	0.060	1.52	0.74	415
6	2	8	0.045	1.14	0.060	1.52	0.69	393
6	3	8	0.045	1.14	0.060	1.52	0.76	531
6	4	8	0.045	1.14	0.060	1.52	0.84	650
4	2	8	0.045	1.14	0.060	1.52	0.77	537
4	3	8	0.045	1.14	0.080	2.03	0.93	778
4	4	8	0.045	1.14	0.080	2.03	1.00	909
2	3	6	0.045	1.14	0.080	2.03	1.03	1155
2	4	6	0.045	1.14	0.080	2.03	1.15	1429

All values are nominal and subject to correction

XLPE/CPE Shielded Tray Cable 600V
Tinned Cu UL Type TC or TC-ER

APPLICATION: Used for power, control, signal, communication and lighting circuits in commercial and industrial environments such as utility generating stations, sub stations, chemical plants, fertilizer plants and nuclear plants. It may be installed in wet or dry locations at 90°C or in areas exposed to chemicals and oils.

CONSTRUCTION: Fully annealed tinned copper Class B stranded conductors. Flame retardant Cross-linked Polyethylene (XLPE) insulation that is heat and moisture resistant. Aluminum/Mylar Tape with 100% coverage and a stranded tinned copper drain wire. Flame and sunlight resistant black Chlorinated Polyethylene (CPE) jacket with ripcord.

SPECIFICATIONS: UL Listed as TC-ER per UL Standard 1277 for tray cables with 3+ conductors • Suitable for Class 1 Division 2 industrial hazardous locations per NEC • UL approved for Direct Burial, Sunlight and Oil I & II Resistant applications • Rated at 90°C wet or dry • Cold bend rated at -25°C • Meets UL 1581 & 1202 (FT-4) 70,000 BTU/HR & ICEA T-29-520 210,000 BTU/HR requirements • ICEA S-73-532 • RoHS compliant

Conductor Size	No. of Conductors	No. of Strands	Drain Wire	Insulation Thickness		Jacket Thickness		Overall Diameter		Weight
AWG			AWG	inches	mm	inches	mm	inches	mm	lbs/kft
18	2	7	22	0.030	0.76	0.045	1.14	0.30	7.7	50
16	2	7	22	0.030	0.76	0.045	1.14	0.32	8.2	59
16	3	7	22	0.030	0.76	0.045	1.14	0.36	9.1	78

All values are nominal and subject to correction

XLPE/PVC Tray Cable 600V
UL Type TC / TC-ER

APPLICATION: Primarily used for power, control, signal, communication, and lighting circuits in commercial and industrial environments. Suitable for installation in cable trays, supported by messenger wire in open air, raceways, channels, conduits, and ducts. Approved for direct burial, joist pull applications, and outdoors in cable trays where sunlight resistance is required. Also, may be installed in wet or dry locations or in areas exposed to chemicals and oils.

CONSTRUCTION: Fully annealed stranded bare copper conductors. Flame retardant Cross-linked Polyethylene (XLPE) insulation that is heat and moisture resistant. Flame and sunlight resistant black PVC jacket. Conductors are cabled together with or without fillers as required to form a round compact cable core with a binder tape.

SPECIFICATIONS: XLPE/PVC Tray Cable meets or exceeds the following specifications: ASTM B3, B8 • UL 44 Type XHHW-2 • UL 1685 Vertical-Tray Fire-Propagation and Smoke-Release Test • NFPA 70 National Electrical Code • Approved as Type TC or TC-ER-JP for Direct Burial, Sunlight Resistant • Rated at 90°C wet or dry • IEEE 1202 70,000 BTU Flame Test • RoHS compliant

Conductor Size	No. of Conductors	No. of Strands	Insulation Thickness		Jacket Thickness		Overall Diameter	Weight
AWG			inches	mm	inches	mm	inches	lbs/kft
14	2**	7	0.030	0.76	0.045	1.14	0.235 x 0.370	71
14	3	7	0.030	0.76	0.045	1.14	0.390	85
14	4	7	0.030	0.76	0.045	1.14	0.425	105
14	5	7	0.030	0.76	0.045	1.14	0.465	125
14	7	7	0.030	0.76	0.045	1.14	0.505	173
14	9	7	0.030	0.76	0.060	1.52	0.620	241
14	12	7	0.030	0.76	0.060	1.52	0.680	302
14	15	7	0.030	0.76	0.060	1.52	0.715	339
14	19	7	0.030	0.76	0.080	2.03	0.810	448
14	25	7	0.030	0.76	0.080	2.03	0.985	631
14	30	7	0.030	0.76	0.080	2.03	1.040	721
14	37	7	0.030	0.76	0.080	2.03	1.130	867
12	2**	7	0.030	0.76	0.045	1.14	0.250 x 0.410	95
12	3	7	0.030	0.76	0.045	1.14	0.435	135
12	4	7	0.030	0.76	0.045	1.14	0.475	168
12	5	7	0.030	0.76	0.060	1.52	0.550	214
12	7	7	0.030	0.76	0.060	1.52	0.600	290
12	9	7	0.030	0.76	0.060	1.52	0.690	360
12	12	7	0.030	0.76	0.060	1.52	0.760	423
12	19	7	0.030	0.76	0.080	2.03	0.950	663
12	25	7	0.030	0.76	0.080	2.03	1.080	850
12	30	7	0.030	0.76	0.080	2.03	1.170	1003
12	37	7	0.030	0.76	0.080	2.03	1.270	1211
10	2**	7	0.030	0.76	0.045	1.14	0.275 x 0.460	131
10	3	7	0.030	0.76	0.045	1.14	0.480	169
10	4	7	0.030	0.76	0.060	1.52	0.560	231
10	5	7	0.030	0.76	0.060	1.52	0.615	276
10	7	7	0.030	0.76	0.060	1.52	0.670	328
10	9	7	0.030	0.76	0.060	1.52	0.780	465
10	12	7	0.030	0.76	0.080	2.03	0.900	629
10	19	7	0.030	0.76	0.080	2.03	1.070	900

All values are nominal and subject to correction
**Flat Construction, not "-ER-JP" rated.*

XLPE/CPE Instrumentation Cable 600V
Tinned Cu Shielded Pairs/Triads UL Type TC-ER

APPLICATION: Used for power, control, signal, communication and lighting circuits in commercial and industrial environments such as utility generating stations, sub stations, chemical plants, fertilizer plants and nuclear plants. It may be installed in wet or dry locations at 90°C or in areas exposed to chemicals and oils.

CONSTRUCTION: Fully annealed tinned copper Class B stranded conductors. Flame retardant Cross-linked Polyethylene (XLPE) insulation that is heat and moisture resistant. Foil free edge Aluminum/Mylar Tape with 100% coverage and a stranded tinned copper drain wire on each pair/triad, with an overall Aluminum/Mylar Tape with 100% coverage and a stranded tinned copper drain wire in contact with the overall shield. Flame and sunlight resistant black Chlorinated Polyethylene (CPE) jacket with ripcord.

SPECIFICATIONS: UL Listed as TC-ER per standard UL 1277 for tray cables with 3+ conductors • Suitable for Class 1 Division 2 industrial hazardous locations per NEC • UL approved for Direct Burial, Sunlight and Oil I & II Resistant applications • Rated at 90°C wet or dry • Cold bend rated at -25°C • Meets UL 1581 & 1202 (FT-4) 70,000 BTU/HR & ICEA T-29-520 210,000 BTU/HR requirements • ICEA S-73-532 • RoHS & REACH compliant

Conductor Size	Pair Count	No. of Strands	Drain Wire Pair/Cable	Insulation Thickness		Jacket Thickness		Overall Diameter		Weight
AWG			AWG	inches	mm	inches	mm	inches	mm	lbs/kft
SPOS XLPE/CPE 600V Shielded Tray Cable										
18	2	7	20/18	0.030	0.76	0.045	1.14	0.46	11.8	97
18	4	7	20/18	0.030	0.76	0.060	1.52	0.61	15.4	171
18	6	7	20/18	0.030	0.76	0.060	1.52	0.75	19.0	242
18	8	7	20/18	0.030	0.76	0.060	1.52	0.79	20.0	238
18	12	7	20/18	0.030	0.76	0.080	2.03	0.98	24.8	458
18	16	7	20/18	0.030	0.76	0.080	2.03	1.10	27.8	574
18	24	7	20/18	0.030	0.76	0.080	2.03	1.31	33.2	814
16	2	7	18/16	0.030	0.76	0.045	1.14	0.46	11.8	119
16	4	7	18/16	0.030	0.76	0.060	1.52	0.61	15.4	220
16	6	7	18/16	0.030	0.76	0.060	1.52	0.75	19.0	315
16	8	7	18/16	0.030	0.76	0.060	1.52	0.79	20.0	391
16	12	7	18/16	0.030	0.76	0.080	2.03	0.98	24.8	591
16	16	7	18/16	0.030	0.76	0.080	2.03	1.10	27.8	753
16	24	7	18/16	0.030	0.76	0.080	2.03	1.31	33.2	1073

All values are nominal and subject to correction

Conductor Size	Triad Count	No. of Strands	Drain Wire Triad/Cable	Insulation Thickness		Jacket Thickness		Overall Diameter		Weight
AWG			AWG	inches	mm	inches	mm	inches	mm	lbs/kft
STOS XLPE/CPE 600V Shielded Tray Cable										
16	2	7	18/16	0.030	0.76	0.060	1.52	0.58	14.8	178
16	4	7	18/16	0.030	0.76	0.060	1.52	0.73	18.4	299
16	6	7	18/16	0.030	0.76	0.080	2.03	0.92	23.4	464
16	8	7	18/16	0.030	0.76	0.080	2.03	1.03	26.3	586
16	10	7	18/16	0.030	0.76	0.080	2.03	1.21	30.7	708
16	12	7	18/16	0.030	0.76	0.080	2.03	1.26	31.9	827

All values are nominal and subject to correction

15-35KV FRNP-WB™ Flame Resistant, Non-Propagating - Water Blocked Covered Conductor

APPLICATION: Used in primary and secondary overhead distribution where there is limited space available for rights of way, and where fire hazards are concerns. Its close-proximity configuration minimizes the amount of space and hardware required for line installation effectively solving most right-of-way-problems. In case of a fire, the flame resistant wire will eliminate the spread of fires along transmission lines, which reduces the secondary fires caused by the propagation and dripping flaming material.
CONSTRUCTION: Stranded hard drawn AAC, AAAC, or ACSR conductors. A semi-conducting tape may be applied over conductor as needed. Semiconducting Cross-linked Polyethylene, black strand shield. Crosslinked polyethylene (XLP), natural inner covering. Flame, sunlight and track resistant crosslinked polyethylene (XLP), black or gray outer covering.
SPECIFICATIONS: UL 2556 Flame Test FT1/VW-1, FT2 • ICEA: S-121-733 Tree Wire and Messenger Supported Spacer Cable • ASTM B230 Aluminum 1350–H19 Wire for Electrical Purposes. B231 Concentric-Lay-Stranded Aluminum 1350 Conductors. B232 Concentric-Lay-Stranded Aluminum Conductors, Coated-Steel Reinforced (ACSR).B398 Aluminum-Alloy 6201-T81 and 6201-T83 Wire for Electrical Purposes. B399 Concentric Lay-Stranded Aluminum Alloy 6201-T81 Conductors. B400 Compact Round Concentric-Lay-Stranded Aluminum 1350 Conductors. B498 Zinc-Coated (Galvanized) Steel Core Wire for Use in Overhead Electrical Conductors.

Conductor Size	Min. Number of Strands*	Stranding Type	Conductor Diameter	Conductor Shield Thickness	Covering Thickness		Finished Cable Diameter	Cable Weight	Rated Strength
					Inner	Outer			
AWG/kcmil			inches	inches	inches	inches	inches	lbs/kft	lbs
AAC Conductors-15kV									
2	7	Compressed	0.292	0.015	0.075	0.075	0.62	191	1,112
1/0	7	Compact	0.336	0.015	0.075	0.075	0.67	238	1,791
2/0	7	Compact	0.376	0.015	0.075	0.075	0.71	274	2,259
3/0	7	Compact	0.423	0.015	0.075	0.075	0.75	319	2,736
4/0	18	Compact	0.475	0.015	0.075	0.075	0.81	374	3,447
266.8	18	Compact	0.537	0.015	0.075	0.075	0.87	442	4,473
336.4	18	Compact	0.603	0.015	0.075	0.075	0.93	524	5,535
397.5	18	Compact	0.659	0.015	0.075	0.075	0.99	595	6,399
477	35	Compact	0.722	0.015	0.075	0.075	1.05	686	7,524
556.5	35	Compact	0.780	0.020	0.075	0.075	1.13	798	8,946
636	35	Compact	0.835	0.020	0.075	0.075	1.19	887	10,260
715.5	58	Compact	0.897	0.020	0.080	0.080	1.27	1,000	11,790
795	58	Compact	0.932	0.020	0.080	0.080	1.30	1,084	12,510
AAC Conductors-25kV									
2	7	Compressed	0.292	0.015	0.125	0.125	0.82	315	1,112
1/0	7	Compact	0.336	0.015	0.125	0.125	0.87	369	1,791
2/0	7	Compact	0.376	0.015	0.125	0.125	0.91	412	2,259
3/0	7	Compact	0.423	0.015	0.125	0.125	0.95	464	2,736
4/0	18	Compact	0.475	0.015	0.125	0.125	1.01	527	3,447
266.8	18	Compact	0.537	0.015	0.125	0.125	1.07	605	4,473
336.4	18	Compact	0.603	0.015	0.125	0.125	1.13	698	5,535
397.5	18	Compact	0.659	0.015	0.125	0.125	1.19	779	6,399
477	35	Compact	0.722	0.015	0.125	0.125	1.25	879	7,524
556.5	35	Compact	0.780	0.020	0.125	0.125	1.33	1,004	8,946
636	35	Compact	0.835	0.020	0.125	0.125	1.39	1,102	10,260
795	58	Compact	0.932	0.020	0.125	0.125	1.48	1,293	12,510

(Continued on page 38)

15-35KV FRNP-WB™ Flame Resistant, Non-Propagating - Water Blocked Covered Conductor

Conductor Size	Min. Number of Strands*	Stranding Type	Conductor Diameter	Conductor Shield Thickness	Covering Thickness		Finished Cable Diameter	Cable Weight	Rated Strength
					Inner	Outer			
AWG/kcmil			inches	inches	inches	inches	inches	lbs/kft	lbs
AAC Conductors-35kV									
1/0	7	Compact	0.336	0.015	0.175	0.125	0.97	437	1,791
2/0	7	Compact	0.376	0.015	0.175	0.125	1.01	482	2,259
3/0	7	Compact	0.423	0.015	0.175	0.125	1.05	538	2,736
4/0	18	Compact	0.475	0.015	0.175	0.125	1.11	604	3,447
266.8	18	Compact	0.537	0.015	0.175	0.125	1.17	686	4,473
336.4	18	Compact	0.603	0.015	0.175	0.125	1.23	783	5,535
397.5	18	Compact	0.659	0.015	0.175	0.125	1.29	867	6,399
477	35	Compact	0.722	0.015	0.175	0.125	1.35	972	7,524
556.5	35	Compact	0.780	0.020	0.175	0.125	1.43	1,102	8,946
636	35	Compact	0.835	0.020	0.175	0.125	1.49	1,204	10,260
795	58	Compact	0.932	0.020	0.175	0.125	1.58	1,401	12,510
AAAC Conductors-15kV									
123.3	7	Compressed	0.398	0.015	0.075	0.075	0.73	271	3,843
155.4	7	Compressed	0.447	0.015	0.075	0.075	0.78	314	4,851
195.7	7	Compressed	0.502	0.015	0.075	0.075	0.83	367	6,111
246.9	7	Compressed	0.563	0.015	0.075	0.075	0.89	430	7,704
312.8	19	Compressed	0.642	0.015	0.075	0.075	0.97	521	9,450
394.5	19	Compressed	0.721	0.015	0.075	0.075	1.05	619	11,970
465.4	19	Compressed	0.783	0.015	0.075	0.075	1.11	702	14,040
559.5	19	Compressed	0.858	0.020	0.075	0.075	1.21	834	16,920
AAAC Conductors-35kV									
123.3	7	Compressed	0.398	0.015	0.175	0.125	1.03	484	3,843
155.4	7	Compressed	0.447	0.015	0.175	0.125	1.08	538	4,851
195.7	7	Compressed	0.502	0.015	0.175	0.125	1.13	603	6,111
246.9	7	Compressed	0.563	0.015	0.175	0.125	1.19	681	7,704
312.8	19	Compressed	0.642	0.015	0.175	0.125	1.27	793	9,450
394.5	19	Compressed	0.721	0.015	0.175	0.125	1.35	908	11,970
465.4	19	Compressed	0.783	0.015	0.175	0.125	1.41	1,005	14,040
559.5	19	Compressed	0.858	0.020	0.175	0.125	1.51	1,159	16,920

All values are nominal and subject to correction

**AAC: The minimum number of wires refers to the structure of Class A or B in ASTM B231 and B400.*

**AAAC: The minimum number of wires refers to the structure of Class AA or A in ASTM B399.*

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15-35KV FRNP-WB™ Flame Resistant, Non-Propagating - Water Blocked Covered Conductor

Conductor Size	Number of Strands	Conductor Diameter	Conductor Shield Thickness	Covering Thickness		Finished Cable Diameter	Cable Weight	Rated Strength
				Inner	Outer			
AWG/kcmil	AL/Steel	inches	inches	inches	inches	inches	lbs/kft	lbs
ACSR Conductors-15kV								
4	6/1	0.250	0.015	0.075	0.075	0.58	175	1,767
2	6/1	0.316	0.015	0.075	0.075	0.65	227	2,707
1/0	6/1	0.398	0.015	0.075	0.075	0.73	304	4,161
2/0	6/1	0.447	0.015	0.075	0.075	0.78	357	5,035
3/0	6/1	0.502	0.015	0.075	0.075	0.83	418	6,289
4/0	6/1	0.563	0.015	0.075	0.075	0.89	495	7,932
266.8	18/1	0.609	0.015	0.075	0.075	0.87	493	6,536
266.8	26/7	0.642	0.015	0.075	0.075	0.97	601	10,573
336.4	18/1	0.684	0.015	0.075	0.075	1.01	611	8,246
336.4	26/7	0.720	0.015	0.075	0.075	1.05	718	13,395
336.4	30/7	0.741	0.015	0.075	0.075	1.07	788	16,971
397.5	18/1	0.743	0.015	0.075	0.075	1.07	694	9,443
397.5	24/7	0.772	0.015	0.075	0.075	1.10	781	13,775
397.5	26/7	0.783	0.015	0.075	0.075	1.11	819	15,485
477	24/7	0.846	0.015	0.075	0.075	1.18	905	16,340
477	26/7	0.858	0.015	0.075	0.075	1.19	950	18,525
477	30/7	0.883	0.015	0.075	0.075	1.21	1,048	22,610
556.5	18/1	0.879	0.020	0.075	0.075	1.23	930	13,015
556.5	24/7	0.914	0.020	0.075	0.075	1.26	1,052	18,810
556.5	26/7	0.927	0.020	0.075	0.075	1.28	1,106	21,375
636	18/1	0.940	0.020	0.075	0.075	1.29	1,035	14,915
636	26/7	0.990	0.020	0.075	0.075	1.34	1,234	23,940
ACSR Conductors-25kV								
2	6/1	0.316	0.015	0.125	0.125	0.85	355	2,707
1/0	6/1	0.398	0.015	0.125	0.125	0.93	445	4,161
2/0	6/1	0.447	0.015	0.125	0.125	0.98	506	5,035
3/0	6/1	0.502	0.015	0.125	0.125	1.03	576	6,289
4/0	6/1	0.563	0.015	0.125	0.125	1.09	663	7,932
266.8	18/1	0.609	0.015	0.125	0.125	1.07	659	6,536
336.4	18/1	0.684	0.015	0.125	0.125	1.21	800	8,246
397.5	18/1	0.743	0.015	0.125	0.125	1.27	893	9,443
477	18/1	0.814	0.015	0.125	0.125	1.34	1,012	22,610
556.5	18/1	0.879	0.020	0.125	0.125	1.43	1,154	13,015
636	18/1	0.940	0.020	0.125	0.125	1.49	1,269	14,915
795	36/1	1.040	0.020	0.125	0.125	1.59	1,415	12,510
ACSR Conductors-35kV								
4/0	6/1	0.563	0.015	0.175	0.125	1.19	746	7,932
266.8	18/1	0.609	0.015	0.175	0.125	1.24	767	6,536
336.4	18/1	0.684	0.015	0.175	0.125	1.31	892	8,246
397.5	18/1	0.743	0.015	0.175	0.125	1.37	988	9,443
477	18/1	0.814	0.015	0.175	0.125	1.44	1,111	22,610

All values are nominal and subject to correction

FR-XLP Covered Ground Wire
CCS Conductor

APPLICATION: Flame Resistant Covered Ground Wire is used to ground electrical transmission systems.
CONSTRUCTION: 40% conductivity copper-clad steel conductor. Flame and sunlight resistant crosslinked polyethylene (FR-XLP), gray covering.
SPECIFICATIONS: Meets or exceeds: ASTM B910 Annealed Copper-Clad Steel Wire.

Conductor Size	No. of Strands	Conductor Diameter	Covering Thickness	Finished Cable Diameter	Weight
AWG/kcmil		inches	mils	inches	lbs/kft
4	7	0.232	60	0.36	147
2	7	0.292	60	0.42	223

All values are nominal and subject to correction

Bare and Tinned Copper Conductors

APPLICATION: For use on insulators for overhead distribution circuits or grounding conductors.
DESCRIPTION: Solid or concentric-lay stranded bare copper conductors available in soft, medium-hard, or hard temper. Tin coated copper conductors available in soft temper only.
SPECIFICATIONS: ASTM B1 Hard Drawn, ASTM B2 Medium Hard Drawn, ASTM B3 Soft or Annealed, ASTM B8 Concentric lay stranded conductors, Federal Spec A-A-59551.
OPTIONS: Tinned copper per ASTM B33.
NOTE:
- When Hard Drawn is required add HD.
- When Medium Hard Drawn is required, add MHD.
- When Tinned is required, add T.

Conductor Size	Cross Sectional Area	No. of Strands	Overall Diameter	Weight
AWG/kcmil	cmils		inches	lbs/kft
SOFT DRAWN COPPER-SOLID				
14	4110	Solid	0.0640	13
12	6530	Solid	0.0810	20
10	10380	Solid	0.1020	32
8	16510	Solid	0.1285	50
6	26240	Solid	0.1620	79
4	41740	Solid	0.2043	126
2	66360	Solid	0.2576	201
SOFT DRAWN COPPER-STRANDED				
8	16510	7	0.146	51
6	26240	7	0.184	81
4	41740	7	0.232	129
2	66360	7	0.292	205
1	83690	19	0.332	258
1/0	105600	7 or 19	0.373	326
2/0	133100	7 or 19	0.419	411
3/0	167800	7 or 19	0.470	518
4/0	211600	7 or 19	0.528	653
250	250000	19 or 37	0.575	772
350	350000	19 or 37	0.681	1081
500	500000	37	0.813	1544
750	750000	61	0.998	2316
1000	1000000	61	1.152	3088

Conductor Size	Footage	Conductor Size	Footage
AWG/kcmil		AWG	
25 POUND DISTRIBUTION SPOOLS			
14 Solid	2015	8 - 7	490
12 Solid	1265	6 - 7	308
10 Solid	795	4 - 7	200
8 Solid	500	2 - 7	125
6 Solid	315		
4 Solid	200		
2 Solid	125		

All values are nominal and subject to correction

Transformer Riser Wire

APPLICATION: Used as uninsulated transformer risers for applications at high voltages. Although not treated as an insulation, the covering on transformer riser wire does reduce faults due to atmospheric conditions, shorts caused by excessive vibrations and faulting caused by objects crossing the leads.
CONSTRUCTION: Conductors are solid or stranded soft drawn bare copper. Stranded conductors are concentrically stranded, compressed. The covering is high molecular weight polyethylene, black.
SPECIFICATIONS: Transformer riser wire meets or exceeds the following specifications: ASTM B3 Soft or Annealed Copper Wire, ASTM B8 Concentric-Lay-Stranded Copper Conductor, D1248 Polyethylene Plastics Extrusion Materials for Wire and Cable, and ANSI/ICEA S-70-547 Weather-Resistant Polyethylene Covered Conductors.
OPTIONS: High Density Polyethylene. Other Covering Thickness

Conductor Size	No. of Strands	Bare Conductor Diameter		Covering Thickness		Covered Diameter		Weight
AWG		inches	mm	inches	mm	inches	mm	lbs/kft
8	Solid	0.129	3.28	0.110	2.79	0.35	8.9	83
6	Solid	0.162	4.11	0.110	2.79	0.38	9.7	117
6	7	0.184	4.67	0.110	2.79	0.40	10.3	122
4	Solid	0.204	5.18	0.110	2.79	0.42	10.8	170
4	7	0.232	5.89	0.110	2.79	0.45	11.5	177
2	Solid	0.258	6.55	0.110	2.79	0.48	12.1	255
2	7	0.292	7.42	0.110	2.79	0.51	13.0	270
1/0	19	0.373	9.47	0.110	2.79	0.59	15.1	400
2/0	19	0.419	10.64	0.125	3.18	0.67	17.0	505
4/0	19	0.528	13.41	0.125	3.18	0.78	19.8	765

All values are nominal and subject to correction

5/15KV Jumper - Exciter Cable - Transformer Lead Wire

APPLICATION: This cable is for use as flexible power leads permitting temporary connections or bypassing energized power lines at voltages up through 15KV, phase to phase.
INSTALLATIONS: These cables must be positioned away from contact with grounds, transformer cases, cross-arms, etc., to avoid possible high stress and capacitance leakage due to the fact that jumper cables cannot be protected against prolonged contact with other conductors or grounds by shielding.
SPECIFICATIONS: Conductor: Flexible stranded tinned copper conductor with a semi-conducting tape separator. Insulation: Heat and moisture resistant 175mil thick ethylene propylene (EPR). Jacket: Heavy duty, red or black 80 mil thick CPE. Rating: 5KV/15KV -40°C to 90°C. ASTM B33, B172. ICEA S-75-381.

Conductor Size	No. of Strands	Overall Diameter		Weight
AWG/kcmil		inches	mm	lbs/kft
2	259	0.82	20.8	550
1/0	426	0.89	22.7	730
2/0	532	1.00	25.3	850
4/0	852	1.14	29.0	1,174
350	1,410	1.31	33.2	2,220
500	1,952	1.41	35.8	2,377
777	7,581	1.57	39.8	2,997
1550	15,561	1.97	49.9	5,649

All values are nominal and subject to correction

Covered Tap Wire - TPR

APPLICATION: Used to connect an overhead phase conductor to equipment bushings. This aids in preventing outages caused by wildlife connecting the energized tap wire with another phase or ground plane. This may also be used in substation equipment connections and as a covered ground lead. Suitable for applications up to 35KV.
CONDUCTOR: Compressed stranded or solid bare copper
INSULATION: Black thermoplastic rubber.
SPECIFICATIONS: ASTM B3, B8, B258

Conductor Size	No. of Strands	Conductor Diameter		Insulation Thickness		Overall Diameter		Approx. Weight	Ampacity*
AWG		inches	mm	inches	mm	inches	mm	lbs/kft	amps
6	7	0.178	4.52	0.150	3.81	0.48	12.1	145	145
6	solid	0.162	4.11	0.150	3.81	0.46	11.7	143	145
4	7	0.225	5.72	0.150	3.81	0.53	13.5	214	180
4	solid	0.204	5.18	0.150	3.81	0.50	12.8	212	180
2	7	0.283	7.19	0.150	3.81	0.58	14.8	290	245
1/0	19	0.362	9.19	0.150	3.81	0.66	16.8	430	330
4/0	19	0.512	13.00	0.150	3.81	0.81	20.6	785	500

All values are nominal and subject to correction
**90˚C conductor, 40˚C ambient, 2ft/sec. wind in sun*

Tracer Wire 30V-600V Solid Copper

APPLICATION: Tracer Wire is suitable for direct burial or use with plastic pipe to aid in the detection and tracing of underground utility lines for gas, water, sewer, and telecommunication and other systems. Made with a high density high molecular weight polyethylene insulation that has excellent abrasion, crush, chemical, oil and moisture resistance. The temperature rating is -25˚C to 75˚C.
CONSTRUCTION: Solid copper conductor. High density high molecular weight polyethylene (HDHMWPE) insulation.
SPECIFICATIONS: ASTM B3, B258, D1248, UL 2989 (not listed). RoHS Compliant.
COLOR CODE: Blue - Potable Water • Green - Sewer, Drain Lines • Purple - Reclaimed Water • Red - Electric • Orange - Communication • Yellow - Gas • Black • White

Conductor Size	Conductor Diameter		Wire Diameter		Weight	Approx. Break Strength
AWG	inches	mm	inches	mm	lbs/kft	lbs
45 Mil Insulation 30V/600V						
16	0.051	1.30	0.11	2.8	11	69
14	0.064	1.63	0.12	3.1	16	110
12	0.081	2.06	0.14	3.6	24	174
10	0.102	2.59	0.16	4.1	36	277
45 Mil Insulation 30V/600V						
16	0.051	1.30	0.11	2.8	14	69
14	0.064	1.63	0.12	3.1	19	110
12	0.081	2.06	0.14	3.6	27	174
10	0.102	2.59	0.16	4.1	39	277

All values are nominal and subject to correction

Tracer Wire 30V-600V Standard Strength (SS-CCS)

APPLICATION: Tracer Wire is suitable for direct burial or use with plastic pipe to aid in the detection and tracing of underground utility lines for gas, water, sewer, telecommunication and other systems. Made with a high density high molecular weight polyethylene insulation that has excellent abrasion, crush, chemical, oil and moisture resistance. The temperature rating is -25˚C to 75˚C.
CONSTRUCTION: Copper-clad steel conductor, standard strength, 21% conductivity. High density high molecular weight polyethylene (HDHMWPE) insulation.
SPECIFICATIONS: ASTM B910, D1248. UL 2989 (not listed). RoHS Compliant.
COLOR CODE: Blue - Potable Water • Green - Sewer, Drain Lines • Purple - Reclaimed Water • Red - Electric • Orange - Communication • Yellow - Gas • Black • White

Conductor Size	Conductor Diameter		Wire Diameter		Weight	Approx. Break Strength
AWG	inches	mm	inches	mm	lbs/kft	lbs
30 Mil Insulation 30V						
18	0.040	1.02	0.10	2.5	7	75
16	0.051	1.29	0.11	2.8	10	115
14	0.064	1.63	0.12	3.1	15	194
12	0.081	2.05	0.14	3.6	22	302
10	0.102	2.59	0.16	4.1	34	513
8	0.129	3.26	0.19	4.8	51	700
45 Mil Insulation 30V/600V						
18	0.040	1.02	0.13	3.3	9	75
16	0.051	1.29	0.14	3.6	13	115
14	0.064	1.63	0.15	3.8	18	194
12	0.081	2.05	0.17	4.3	25	302
10	0.102	2.59	0.19	4.8	37	513
8	0.129	3.26	0.22	5.6	55	700

All values are nominal and subject to correction

Tracer Wire 30V-600V High Strength (HS-CCS)

APPLICATION: Made for directional drilling/boring or similar applications that require high strength. The wire is made of high strength copper clad steel conductor with a high density high molecular weight polyethylene insulation that has excellent abrasion, crush, chemical, oil and moisture resistance. Suitable for direct burial or use with plastic pipe to aid in the detection and tracing of underground utility lines for gas, water, sewer, telecommunication and other systems. The temperature rating is -25˚C to 75˚C.
CONSTRUCTION: Copper-clad steel conductor with high carbon 1055 grade steel (HS-CCS), 21% conductivity. High density high molecular weight polyethylene (HDHMWPE) insulation.
SPECIFICATIONS: ASTM B910, D1248. UL 2989 (not listed). RoHS Compliant.
COLOR CODE: Blue - Potable Water • Green - Sewer, Drain Lines • Purple - Reclaimed Water • Red - Electric • Orange - Communication • Yellow - Gas • Black • White

Conductor Size	Conductor Diameter		Wire Diameter		Weight	Approx. Break Strength
AWG	inches	mm	inches	mm	lbs/kft	lbs
30 Mil Insulation 30V						
18	0.040	1.02	0.10	2.5	7	110
16	0.051	1.29	0.11	2.8	10	145
14	0.064	1.63	0.12	3.1	15	285
12	0.081	2.05	0.14	3.6	22	455
10	0.102	2.59	0.16	4.1	34	685
8	0.129	3.26	0.19	4.8	51	870
45 Mil Insulation 30V/600V						
18	0.040	1.02	0.13	3.3	9	110
16	0.051	1.29	0.14	3.6	13	145
14	0.064	1.63	0.15	3.8	18	285
12	0.081	2.05	0.17	4.3	25	455
10	0.102	2.59	0.19	4.8	37	685
8	0.129	3.26	0.22	5.6	55	870

All values are nominal and subject to correction

Tracer Wire 30V-600V Extra High Strength (EHS-CCS)

APPLICATION: Made for directional drilling/boring or similar applications that require high strength. The wire is made of high strength copper clad steel conductor with a high density high molecular weight polyethylene insulation that has excellent abrasion, crush, chemical, oil and moisture resistance. Suitable for direct burial or use with plastic pipe to aid in the detection and tracing of underground utility lines for gas, water, sewer, telecommunication and other systems. The temperature rating is -25˚C to 75˚C.
CONSTRUCTION: Solid copper-clad steel conductor with hard drawn high carbon 1055 grade steel (EHS-CCS), 21% conductivity. High density high molecular weight polyethylene (HDHMWPE) insulation.
SPECIFICATIONS: ASTM B1010, D1248, UL 2989 (not listed). RoHS Compliant.
COLOR CODE: Blue - Potable Water • Green - Sewer, Drain Lines • Purple - Reclaimed Water • Red - Electric • Orange - Communication • Yellow - Gas • Black • White

Conductor Size	Conductor Diameter		Wire Diameter		Weight	Approx. Break Strength
AWG	inches	mm	inches	mm	lbs/kft	lbs
45 Mil Insulation 30V/600V						
12	0.081	2.05	0.17	4.3	26	1155
10	0.102	2.59	0.20	5.1	39	2040
8	0.129	3.26	0.22	5.6	61	2790

All values are nominal and subject to correction

DLO – Diesel Locomotive Cable 90°C 2000V

APPLICATION: Diesel Locomotive Cable or DLO Cable is used for wiring of Diesel-electric locomotives, Telecom power supply, Shipyards, Motor Leads, Mining and earth-moving equipment, Oil and gas rigs and in applications where flexibility and durability is required. The cable is suited for use in wet and dry areas, conduits, ducts, troughs, trays and where superior electrical properties are desirable. For applications up to 2000 volts and for temperatures of -40°C to +90°C.

CONSTRUCTION: Fully annealed flexible strand Class I tinned copper, ASTM B172, ASTM B174, ASTM B33 Conductors. All sizes except for 14AWG have tape separator between conductor and insulation. Ethylene-Propylene Rubber (EPR) Insulation, per UL, CSA, ICEA, AAR RP-588, 90ºC. Black heavy duty thermoset CPE Jacket per ICEA S-95-658 NEMA WC-70, AAR RP-586. Ozone, sunlight, oil, grease, weather, chemical, and abrasion resistant.

SPECIFICATIONS: Type RHH/RHW-2 per UL 44. Limited Smoke ST1 in accordance with UL1685 vertical flame test. Rated RW90-TC for TC use sizes 1/0 & larger. IEEE 1202. ARR RP-588, RP-586 Approved. MSHA Approved. VW-1. ICEA S-95-658. NEMA WC-70. CSA Listed RW90, RW90-TC 1Kv. CSA C22.2 No. 38 and No. 230. For 1/0 and larger: ST-1, FT-4, IEEE1202, for CT use. RoHS Compliant.

Conductor Size	Conductor Stranding	Conductor Diameter		Insulation Thickness		Jacket Thickness		Overall Diameter		Net Weight	Ampacity** at 90°C
AWG/kcmil	No./AWG	inches	mm	inches	mm	inches	mm	inches	mm	lbs/kft	
14	19/27	0.072	1.83	0.045	1.14	0.015	0.38	0.192	4.88	28	35
12	19/25	0.091	2.31	0.045	1.14	0.015	0.38	0.215	5.46	38	40
10	27/24	0.123	3.12	0.045	1.14	0.030	0.76	0.277	7.04	63	55
8	41/24	0.148	3.76	0.055	1.40	0.030	0.76	0.302	7.67	92	80
6	65/24	0.186	4.72	0.060	1.52	0.030	0.76	0.370	9.40	128	105
4	105/24	0.240	6.10	0.060	1.52	0.030	0.76	0.424	10.77	188	140
2	168/24	0.315	8.00	0.060	1.52	0.045	1.14	0.528	13.41	292	190
1	225/24	0.363	9.22	0.080	2.03	0.045	1.14	0.613	15.57	394	220
1/0	273/24	0.417	10.59	0.080	2.03	0.045	1.14	0.671	17.04	468	260
2/0	329/24	0.457	11.61	0.080	2.03	0.045	1.14	0.711	18.06	545	300
3/0	450/24	0.533	13.54	0.080	2.03	0.045	1.14	0.787	19.99	720	350
4/0	551/24	0.590	14.99	0.080	2.03	0.065	1.65	0.884	22.45	886	405
262.6	644/24	0.636	16.15	0.090	2.29	0.065	1.65	0.950	24.13	1032	471
313.1	772/24	0.700	17.78	0.090	2.29	0.065	1.65	1.015	25.78	1209	511
373.7	925/24	0.772	19.61	0.090	2.29	0.065	1.65	1.086	27.58	1422	590
444.4	1091/24	0.854	21.69	0.090	2.29	0.065	1.65	1.169	29.69	1652	656
535.3	1325/24	0.906	23.01	0.090	2.29	0.065	1.65	1.220	30.99	1965	731
646.4	1584/24	0.996	25.30	0.090	2.29	0.065	1.65	1.311	33.30	2312	815
777.7	1925/24	1.102	27.99	0.090	2.29	0.065	1.65	1.397	35.48	2778	905
929.2	2281/24	1.197	30.40	0.090	2.29	0.065	1.65	1.511	38.38	3246	1005
1111 MCM	2727/24	1.325	33.66	0.140	3.56	0.095	2.41	1.799	45.69	4077	1115

All values are nominal and subject to correction

***Based on single conductor in free air, 30°C ambient air temperature, 90°C conductor temperature per NEC table 310.17*

600V Generator Cable

Tray Cable UL Type TC / TC-ER-JP

APPLICATION: Multi-conductor all in one cable for connecting a generator to a transfer switch. JP (Joist Pull) rated per the 2023 NEC 336.10(9). Black jacket and color coded inner conductors.
CONSTRUCTION: Conductors: Element 1 & 3: Annealed bare 19 strand copper OR Aluminum 8000 series Class B stranded, Element 2: Annealed bare copper Class K stranded. Polyvinylchloride (PVC) & Nylon insulation. Sunlight resistant and direct burial approved PVC jacket with ripcord. All 3 Elements or Conductors are cabled together with Non-Hygroscopic Polypropylene fillers as required for a circular cross-section with a clear mylar binder tape and an overall PVC jacket.
SPECIFICATIONS: UL Listed as TC-ER-JP per UL Standard 1277. Rated 75°C wet or dry to meet UL 83 for THHN/THWN. ICEA S-73-532. Meets UL 1581 & 1202 (FT-4) 70,000 BTU/HR & ICEA T-29-520 210,000 BTU/HR requirements. Suitable for use in Class I Division 2 hazardous locations. Element 1 & 2 conductors pass UL VW-1 flame test, rated THWN/VW-1. ASTM B3, B174, B787, B801. RoHS & REACH Compliant.

Part Number (Rating)	Section	Conductor Size	No. of Conductors	No. of Strands	Insulation Thickness		Nylon Thickness		Jacket Thickness		Overall Diameter	Weight
		AWG			inches	mm	inches	mm	inches	mm	inches	lbs/M-kft
Copper Conductors												
8-03TCG/18-06-VN (50 amps, 7kW-11kW)	Element 1	8	3	19	0.030	0.76	0.006	0.15	-	-	-	-
	Element 2	18	6	16	0.015	0.38	0.005	0.13	-	-	-	-
	Element 3	10	1	19	0.048	1.22	0.004	0.10				
	Overall	-		-	-	-	-	-	0.060	1.52	0.65	363
4-03TCG/18-06-VN (85 amps, 12kW-16kW)	Element 1	4	3	19	0.040	1.02	0.007	0.18	-	-	-	-
	Element 2	18	6	16	0.015	0.38	0.005	0.13	-	-	-	-
	Element 3	8	1	19	0.030	0.76	0.005	0.13				
	Overall	-		-	-	-	-	-	0.080	2.03	0.89	750
3-03TCG/18-06-VN (100 amps, 17kW-24kW)	Element 1	3	3	19	0.040	1.02	0.007	0.18	-	-	-	-
	Element 2	18	6	16	0.015	0.38	0.005	0.13	-	-	-	-
	Element 3	8	1	19	0.030	0.76	0.005	0.13				
	Overall	-		-	-	-	-	-	0.080	2.03	0.95	865
3-03TCG/18-08-VN (100 amps, 17kW-24kW)	Element 1	3	3	19	0.040	1.02	0.007	0.18	-	-	-	-
	Element 2	18	8	16	0.015	0.38	0.005	0.13	-	-	-	-
	Element 3	8	1	19	0.030	0.76	0.005	0.13				
	Overall	-		-	-	-	-	-	0.080	2.03	0.95	885
3-03TCG/18-09-VN (100 amps, 17kW-24kW)	Element 1	3	3	19	0.040	1.02	0.007	0.18	-	-	-	-
	Element 2	18	9	16	0.015	0.38	0.005	0.13	-	-	-	-
	Element 3	8	1	19	0.030	0.76	0.005	0.13				
	Overall	-		-	-	-	-	-	0.080	2.03	0.98	903

All values are nominal and subject to correction

(Continued on page 48)

600V Generator Cable

Tray Cable UL Type TC / TC-ER-JP

Part Number (Rating)	Section	Conductor Size	No. of Conductors	No. of Strands	Insulation Thickness		Nylon Thickness		Jacket Thickness		Overall Diameter	Weight
		AWG			inches	mm	inches	mm	inches	mm	inches	lbs/M-kft
Copper Conductors 26kW												
2-03TCG/18-06-VN (115 amps, 26kW)	Element 1	2	3	19	0.040	1.02	0.007	0.18	-	-	-	-
	Element 2	18	6	16	0.015	0.38	0.005	0.13	-	-	-	-
	Element 3	6	1	19	0.030	0.76	0.005	0.13				
	Overall	-		-	-	-	-	-	0.080	2.03	1.01	1049
2-03TCG/18-08-VN (115 amps, 26kW)	Element 1	2	3	19	0.040	1.02	0.007	0.18	-	-	-	-
	Element 2	18	8	16	0.015	0.38	0.005	0.13	-	-	-	-
	Element 3	6	1	19	0.030	0.76	0.005	0.13				
	Overall	-		-	-	-	-	-	0.080	2.03	1.01	1060
2-03TCG/18-09-VN (115 amps, 26kW)	Element 1	2	3	19	0.040	1.02	0.007	0.18	-	-	-	-
	Element 2	18	9	16	0.015	0.38	0.005	0.13	-	-	-	-
	Element 3	6	1	19	0.030	0.76	0.005	0.13				
	Overall	-		-	-	-	-	-	0.080	2.03	1.01	1070
Aluminum & Copper Conductors												
1-03TCGAL/18-06-VN (100 amps, 17kW-24kW)	Element 1	1	3	19	0.050	1.27	0.008	0.20	-	-	-	-
	Element 2	18	6	16	0.015	0.38	0.005	0.13	-	-	-	-
	Element 3	6	1	7	0.030	0.76	0.005	0.13				
	Overall	-		-	-	-	-	-	0.080	2.03	1.08	651
1-03TCGAL/18-08-VN (100 amps, 17kW-24kW)	Element 1	1	3	19	0.050	1.27	0.008	0.20	-	-	-	-
	Element 2	18	8	16	0.015	0.38	0.005	0.13	-	-	-	-
	Element 3	6	1	7	0.030	0.76	0.005	0.13	-	-	-	-
	Overall	-	-	-	-	-	-	-	0.080	2.03	1.09	668
1-03TCGAL/18-09-VN (100 amps, 17kW-24kW)	Element 1	1	3	19	0.050	1.27	0.008	0.20	-	-	-	-
	Element 2	18	9	16	0.015	0.38	0.005	0.13	-	-	-	-
	Element 3	6	1	19	0.030	0.76	0.005	0.13				
	Overall	-		-	-	-	-	-	0.080	2.03	1.09	675

All values are nominal and subject to correction

1/C Copper XLP RHH/RHW-2/USE-2 600V

APPLICATION: Type RHH or RHW-2 or USE-2 copper conductors are used with conduit as specified with the National Electrical Code. When used as Type USE-2, conductor is suitable for use as underground service entrance cable for direct burial at conductor temperatures not to exceed 90°C. When used as RHH, conductor temperatures shall not exceed 90°C in dry locations. When used as RHW-2 or USE-2, conductor temperatures shall not exceed 90°C in wet or dry locations. Voltage rating for RHH or RHW-2 or USE-2 conductors is 600 volts. Sizes 1/0 AWG through 1000kcmil rated for use in cable tray.
CONSTRUCTION: Annealed or soft drawn copper. Insulation is an abrasion, moisture, heat, and sunlight resistant cross-linked polyethylene (XLP).
SPECIFICATIONS: Type RHH or RHW-2 or USE-2 meets or exceeds standards UL 44 (for RHH or RHW-2), UL 854 (for USE-2). ICEA S-95-658/NEMA WC 70 - Nonshielded 0 - 2 kV Cables. ASTM B3 Soft or Annealed Copper Wire, B8 Concentric Lay Stranded Copper Conductors, or B787 19 Wire Combination Unilay-Stranded Copper Conductors. Federal Specification A-A-59544, and requirements of the National Electrical Code. Sunlight Resistant. Colors Available. RoHS Compliant.

Conductor Size	No. of Strands	Insulation Thickness	Nominal O.D.	Approx. Weight	Allowable Ampacities* (amps)		
AWG/kcmil		inches	inches	lbs/kft	60°C	75°C	90°C
14**	7	0.045	0.16	21	15	20	25
12**	7	0.045	0.18	30	20	25	30
10**	7	0.045	0.21	43	30	35	40
8	7	0.060	0.26	69	40	50	55
6	7	0.060	0.30	103	55	65	75
4	7	0.060	0.35	156	70	85	95
2	7	0.060	0.40	238	95	115	130
1	19	0.080	0.48	307	110	130	145
1/0	19	0.080	0.52	384	125	150	170
2/0	19	0.080	0.56	476	145	175	195
3/0	19	0.080	0.61	590	165	200	225
4/0	19	0.080	0.67	735	195	230	260
250	37	0.095	0.76	868	215	255	290
300	37	0.095	0.80	1029	240	285	320
350	37	0.095	0.87	1192	260	310	350
400	37	0.095	0.90	1352	280	335	380
500	37	0.095	0.99	1673	320	380	430
600	61	0.110	1.09	2012	350	420	475
700	61	0.110	1.16	2332	385	460	520
750	61	0.110	1.21	2493	400	475	535
800	61	0.110	1.22	2652	410	490	555
900	61	0.110	1.28	2970	435	520	585
1000	61	0.110	1.37	3292	455	545	615

All values are nominal and subject to correction
** Allowable ampacities shown are for general use as specified by the National Electric Code, 2023 Edition, Table 310.16.*
60°C - when terminated to equipment for circuits rated 100 amperes or less or marked for #14 through #1 conductors.
75°C - when terminated to equipment for circuits rated over 100 amperes or less or marked for conductors larger than #1.
90°C - RHH dry locations. RHW-2 and USE-2 wet or dry locations. For Ampacity derating purposes.
***Per the NEC 240.4(D) footnote, the overcurrent protection shall not exceed 15 amps for #14 AWG, 20 amps for #12 AWG, and 30 amps for #10 AWG.*

1/C Aluminum XLP RHH/RHW-2/USE-2 600V

APPLICATION: The product can be installed as a General Purpose Building Wire, used in service entrance, feeders and branch circuits applications for residential, commercial, industrial, and transportation environments for permanent installations utilizing 600 volts or less. Thanks to its excellent performance in overload or short circuit situations, and its heavy wall thickness, the product is ideal for underground service entrance (USE) in wet locations. RHH/RHW-2/USE-2 conductors are suitable for directly buried installations, for environments where superior insulation toughness and chemical resistance are required, for outdoors, and for weather resistant use.

DESCRIPTION: Type RHH/RHW-2/USE-2, is a single insulated conductor of AA-8000 series aluminum alloy, compact stranded insulated with black thermoset crosslinked polyethylene (XLPE), designed to operate not over 600 volts, nominal, and at a maximum operating temperature of 90°C dry or wet.

INSTALLATION: RHH/RHW-2/USE-2 conductors can be installed in electrical metallic tubing, PVC conduits and other raceways, in free air messenger support or directly buried. It is recommended that the installation instruction indicated by the Local Electric Code, or any equivalent be followed so that the safeguarding of persons and the integrity of the product will not be affected by deficiencies in the installation.

SPECIFICATIONS: ASTM B800, B801, UL44, UL854, NEC, ICEA S-105-692, ICEA S-95-658/NEMA WC 70

Conductor Size	No. of Strands	Insulation Thickness	Nominal O.D.	Approx. Weight	Allowable Ampacities* (amps)		
AWG/kcmil		inches	inches	lbs/kft	60°C	75°C	90°C
8	7	0.060	0.26	36	35	40	45
6	7	0.060	0.29	49	40	50	55
4	7	0.060	0.34	65	55	65	75
3	7	0.060	0.37	78	65	75	85
2	7	0.060	0.39	94	75	90	100
1	18	0.080	0.46	126	85	100	115
1/0	18	0.080	0.50	151	100	120	135
2/0	18	0.080	0.54	182	115	135	150
3/0	18	0.080	0.59	221	130	155	175
4/0	18	0.080	0.64	269	150	180	205
250	35	0.095	0.71	326	170	205	230
300	35	0.095	0.76	381	195	230	260
350	35	0.095	0.81	435	210	250	280
400	35	0.095	0.85	489	225	270	305
500	35	0.095	0.93	595	260	310	350
700	58	0.110	1.10	829	315	375	425
750	58	0.110	1.13	881	320	385	435
1000	58	0.110	1.28	1145	375	445	500

All values are nominal and subject to correction

** Allowable ampacities shown are for general use as specified by the National Electric Code, 2023 Edition, Table 310.16.*

60°C - when terminated to equipment for circuits rated 100 amperes or less or marked for #14 through #1 conductors.

75°C - when terminated to equipment for circuits rated over 100 amperes or less or marked for conductors larger than #1.

90°C - RHH dry locations. RHW-2 and USE-2 wet or dry locations.

1/C Tinned Copper EPR RHH/RHW-2/USE-2 CPE 600V

APPLICATION: Primarily used for power distribution in a broad range of commercial, industrial and utility applications. Single conductor EPR/CPE can be installed in free air, raceways or direct buried for service entrance below ground in both wet and dry locations.
CONDUCTORS: Soft drawn tin coated copper, Class B stranded per ASTM B8, B33
SEPARATOR: Tape separator between the conductor and insulation
INSULATION: Ethylene-propylene rubber (EPR)
JACKET: Black heavy duty, thermoset CPE
STANDARDS: UL 44 Type RHH/RHW-2, UL 854 Type USE-2, ICEA S-95-658, NEMA WC70, ASTM B8, B33, VW-1, Sunlight Resistant, "FOR CT USE" for 1/0 AWG and larger.

Size	No. of Strands	Insulation Thickness	Jacket Thickness	Overall Diameter	Weight	Ampacity* @ 90ºC
AWG/kcmil		inches	inches	inches	lbs/kft	amps
14	7	0.030	0.015	0.17	24	25
12	7	0.030	0.015	0.19	34	30
10	7	0.030	0.015	0.21	49	40
8	7	0.045	0.015	0.28	79	55
6	7	0.045	0.030	0.35	124	75
4	7	0.045	0.030	0.39	179	95
2	7	0.045	0.030	0.45	260	130
1/0	19	0.055	0.045	0.58	420	170
2/0	19	0.055	0.045	0.62	513	195
4/0	19	0.055	0.045	0.74	774	225
250	37	0.065	0.065	0.85	956	260
350	37	0.065	0.065	0.96	1290	350
500	37	0.065	0.065	1.09	1798	430
750	61	0.080	0.065	1.30	2686	535
1000	61	0.080	0.065	1.46	3463	615

All values are nominal and subject to correction
**Allowable ampacities shown are for general use as specified by the National Electric Code, 2023 Edition Table 310.16.*

Aluminum Tie and Ground Wire

APPLICATION: Generally used in overhead transmission and distribution line construction to mechanically secure components such as conductors to pin insulators. Also used for grounding applications in line construction.
CONSTRUCTION: Solid, soft 1350-O aluminum conductor
SPECIFICATIONS: Meets or exceeds standard ASTM: B609 Aluminum 1350 Round Wire, Annealed and Intermediate Tempers for Electrical Purposes

Conductor Size	Stranding	Diameter	Weight
AWG		inches	lbs/kft
6	Solid	0.1620	24.1
4	Solid	0.2043	38.4
2	Solid	0.2576	61.0

All values are nominal and subject to correction

Aluminum Clad Steel Wire

APPLICATION: Aluminum Clad Steel Guy or "Messenger" Wire and Static Wire are used in utility classifications for overhead use such as in power lines, telephone lines, railway signals, communication lines, towers, and masts. It is a high strength wire with aluminum thickness in minimum of 10% wire radius creating an electrical conductivity of 20.3%, highly corrosive resistant, and a thermal stability for high temperature operation and all with a lighter weight.
STANDARDS: ASTM B415, B416.
RUS ACCEPTED

No. x Size	Diameter	Breaking Load	Weight
AWG	inches	lbs	lbs/kft
Static Wire			
3#5	0.392	12,230	225
3#6	0.349	10,280	178
3#7	0.311	8,621	141
3#8	0.277	7,206	112
3#9	0.247	5,715	89
3#10	0.220	4,532	70
7#5*	0.546	27,030	525
7#6*	0.486	22,730	416
7#7*	0.433	19,060	330
7#8*	0.385	15,930	262
7#9*	0.343	12,630	208
7#10*	0.306	10,020	165
7#11*	0.272	7,954	131
7#12*	0.242	6,301	104
19#5	0.910	73,350	1430
19#6	0.810	61,700	1134
19#7	0.721	51,730	900
19#8	0.642	43,240	714
19#9	0.572	34,290	566
19#10	0.509	27,190	449
37#5	1.270	142,800	2802
37#6	1.130	120,200	2222
37#7	1.010	100,700	1762
37#8	0.899	84,200	1398
37#9	0.801	66,770	1108
37#10	0.713	52,950	879

Static Wire: 5000' reel put ups

Designation	No. x Size	Diameter	Breaking Load	Weight
	AWG	inches	lbs	lbs/kft
Guy and Messenger Wire AWG Equivalent				
6M*	7#12	0.242	6,300	104
8M*	7#11	0.272	8,000	131
10M*	7#10	0.306	10,000	165
12.5M*	7#9	0.343	12,500	206
14M*	7x0.121"	0.363	14,100	232
16M*	7#8	0.385	16,000	260
20M*	7x0.148"	0.444	20,000	348

All values are nominal and subject to correction
**RUS accepted construction*
Guy and Mesenger Wire: 500' coils and 5000' reel put ups

Galvanized Steel Guy Strand

APPLICATION: Used to add stability to a free-standing structure or tower.
SPECIFICATIONS: Manufactured and inspected per ASTM A475 and BS183.
RUS ACCEPTED
OPTIONS: Overhead Ground Wire per ASTM A363 is available upon request.

CONSTRUCTION				MINIMUM BREAKING STRENGTH				COATING	
Wire Diameter	No. of Strands	Coated Strand Diameter	Approx. Weight	Utilities Grade	Siemens-Martin Grade	High Strength Grade	Extra High Strength Grade	Zinc Coating	Min. Coating Weight Class A
inches		inches	lbs/kft	lbs	lbs	lbs	lbs		oz/sq.ft.
1/4	7	0.080	121	-	3,150	4,750	6,650	100%	0.60
5/16	7	0.104	205	-	5,350	8,000	11,200	100%	0.80
3/8	7	0.120	273	11,500	6,950	10,800	15,400	100%	0.85
7/16	7	0.145	399	18,000	9,350	14,500	20,800	100%	0.90
1/2	7	0.165	517	25,000	12,100	18,800	26,900	100%	0.90
9/16	7	0.188	671	-	15,700	24,500	35,000	100%	1.00

All values are nominal and subject to correction

PACKAGING: 250' and 500' Coils with 18" ID • 2,500’ and 5,000' Reels • Bulk cut to length

Ground Rods & Plates

APPLICATION: To be driven into the earth to provide grounding for substations, towers, homes, buildings and all other structures that contain electrical products or for applications to provide grounding against lightning.

SPECIFICATIONS:

Copper: High Quality steel with a consistant covering of electrolytic copper. UL 467 for ground rods of one-half inch to one inch in diameter, eight to ten feet in length. • 10 & 13 Mil Rods 8' and larger are UL approved , RUS accepted copper rods are as noted.

Galvanized Rod: High Quality Steel with a consistant covering of zinc. ANSI/ASTM A153. Option: Also available with REA (RUS) electrical and telephone approvals.

Galvanized Plate: UL 467 approved. High Quality Steel with a consistent covering of zinc. Grounding plate as efficient as two 10ft. x 5/8" ground rods.

Part Number	Rod Size x Length	Nominal O.D.	Master Bundle	Weight		Copper Thickness	UL Listed
		inches	pcs	lbs/bundle	lbs/100 Pcs	mils	
COPPER GROUND RODS SINGLE TYPE							
PWC125	½" x 5'	0.433	100	312	312	5	NO
PWC126	½" x 6'	0.433	100	400	400	5	NO
PWC128-5	½" x 8'	0.433	100	500	500	5	NO
PWC128	½" x 8'	0.433	100	500	500	10	YES
PWC128-10	½" x 8'	0.496	100	500	500	10	YES
PWC1210	½" x 10'	0.496	100	625	625	10	YES
PWC586	⅝" x 6'	0.555	100	510	510	5	NO
PWC588*	⅝" x 8'	0.555	100	700	700	10	YES
PWC588-13*	⅝" x 8'	0.563	100	700	700	13	YES
PWC5810-13	⅝" x 10'	0.563	100	870	870	13	YES
PWC5810*	⅝" x 10'	0.555	100	900	900	10	YES
PWC348*	¾" x 8'	0.673	50	500	1000	10	YES
PWC348-13*	¾" x 8'	0.680	50	572	1144	13	YES
PWC3410*	¾" x 10'	0.673	50	650	1300	10	YES
PWC110	1" x 10'	0.894	25	575	2300	10	YES
COPPER GROUND RODS SECTIONAL TYPE							
PWCS1210	½" x 10'	0.496	100	625	625	10	YES
PWCS588*	⅝" x 8'	0.555	100	680	680	10	YES
PWCS588-13*	⅝" x 8'	0.555	100	696	696	13	YES
PWCS5810*	⅝" x 10'	0.555	100	900	900	10	YES
PWCS348*	¾" x 8'	0.673	50	500	1000	10	YES
PWCS3410*	¾" x 10'	0.673	50	650	1300	10	YES
PWCS3410-13*	¾" x 10'	0.673	50	745	1490	13	YES
PWCS110	1" x 10'	0.894	25	575	2300	10	YES

All values are nominal and subject to correction
**RUS accepted*
***UL listed upon request*
Call for additional sizes.

(Continued on page 55)

Ground Rods & Plates

CONTINUED

Part Number	Rod Size x Length	Nominal O.D.	Master Bundle	Weight		Copper Thickness	UL Listed
		inches	pcs	lbs/bundle	lbs/100 Pcs	mils	
HOT DIPPED GALVANIZED GROUND RODS							
PWCG125	½" x 5'	0.485	100	300	300	-	NO
PWCG126	½" x 6'	0.485	100	400	400	-	NO
PWCG586	⅝" x 6'	0.543-0.555	100	490	490	-	NO
PWCG588	⅝" x 8'	0.543-0.555	100	650	650	-	NO**
PWCG588F	⅝" x 8'	0.625	100	800	800	-	NO
PWCG5810	⅝" x 10'	0.543-0.555	100	820	820	-	NO**
PWCG3410	¾" x 10'	0.75-0.765	50	1530	765	-	NO**

Part Number	Plate Width x Length	Plate Thickness	Grounding Connector Post	Weight		Copper Thickness	UL Listed
			Width x Length Above Plate	lbs/plate	lbs/100 Pcs	mils	
HOT DIPPED GALVANIZED GROUND PLATE							
PWCGP	10" x 16"	0.25"	0.58" x 2"	12	1200	-	YES

All values are nominal and subject to correction
**RUS accepted*
***UL listed upon request*
Call for additional sizes.

Ground Rod Accessories

Ground Rod Couplings: UL / CSA - Connects two copper sectional ground rods - Tapered ends to reduce driving friction - constructed of high strength, corrosion resistant bronze.
Direct Burial Ground Rod Clamps: UL / CSA - Connects grounding condutor to driven copper ground rod - Approved for direct burial in the earth and concrete - Contains a bronze hex headed bolt - Constructed of high strength, corrosive resistant bronze
Bronze Water Pipe Ground Clamps: UL / CSA - connects grounding conductor to driven galvanized ground rod - Constructed of high strength, highly conductive bronze - Steel screws plated for corrosion resistance or Bronze screw depending on part number
Cast Bronze Plated Water Pipe Ground Clamps: Connects grounding conductor to galvanized ground rod - Die cast zinc body with brass colored plating - Assembled with zinc plated steel screws for corrosion resistance
Ground Rod Driving Studs: UL listed - Threads onto ground rod coupling for driving to eliminate damage to ground rod threads • Constructed from high strength, corrosive resistant steel with bronze plating

Part Number	Size	Wire Size (AWG)		Standard Packaging Pcs	Weight	
		max	min		lbs/Package	lbs/100 Pcs
Ground Rod Couplings						
PC12	½"	-	-	10	1.6	16
PC58	⅝"	-	-	10	2.5	25
PC34	¾"	-	-	10	3.8	38
PC01	1"	-	-	10	6.5	65
Direct Burial Rod Clamps						
P4	½"	2	10	100	9	9
P5	⅝"	2	10	50	5	10
P6	¾"	2	10	50	5.5	11
PU	½" - ¾"	1/0	10	50	9.5	19
Bronze Water Pipe Ground Clamps-Plated Steel Screw						
PWP121	½"	2	10 Sol	25	4.8	19
PWP1142	1 ¼" to 2"	2	10 Sol	10	4.3	43
Bronze Water Pipe Ground Clamps-Bronze Screw-Direct Burial						
PWP121-DB	½" to 1"	2	10 Sol	10	4.3	43
Cast Bronze Plated Water Pipe Ground Clamps						
PWPP121	½" to 1"	2	10 Sol	100	17	17
Ground Rod Driving Studs						
PD12	½"	-	-	10	1.2	12
PD58	⅝"	-	-	10	2.3	23
PD34	¾"	-	-	10	3.5	35
PD01	1"	-	-	10	4.9	49

All values are nominal and subject to correction

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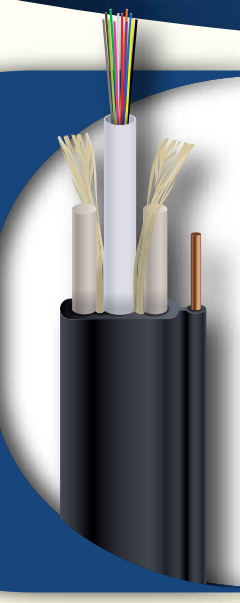
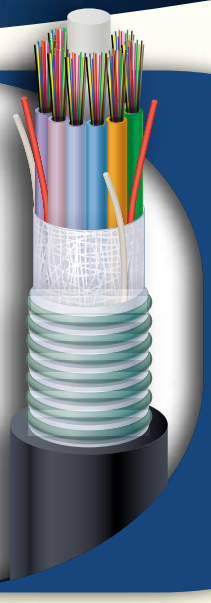


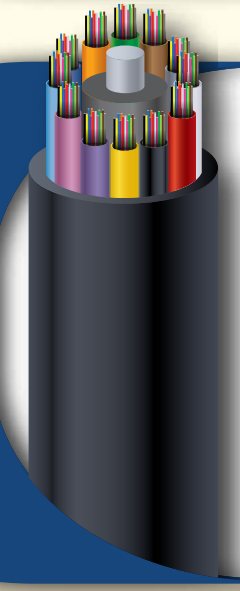
Drop Cable

- Flat Drop with Toneable Tracer (1~24C)
- Flat Drop Dielectric (1~24C)



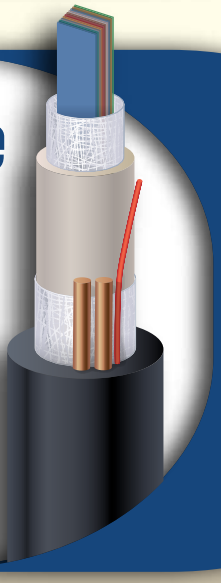
Duct/Direct Burial Cable

- LT Non Armored/ Armored (12~864C)
- TB Plenum Indoor/ Outdoor (6~24C)



Micro/Air Blown Cable

- Air Blown (1~12C)
- UniTube Micro (1~24C)
- Micro Cable (12~432C)
- HD Micro (12~288C)



Ribbon Cable

- Non Armored All Dry Ribbon (96~864C)
- Armored All Dry Ribbon (96~864C)

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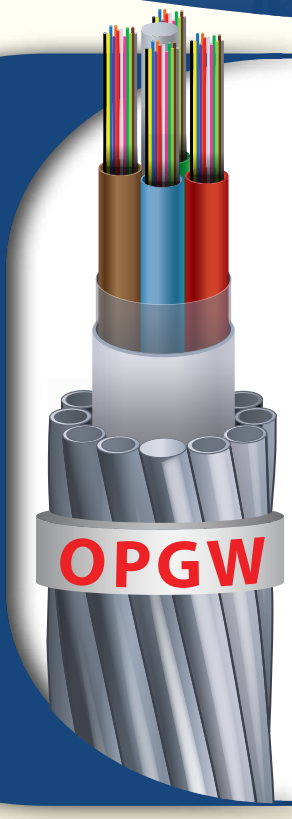
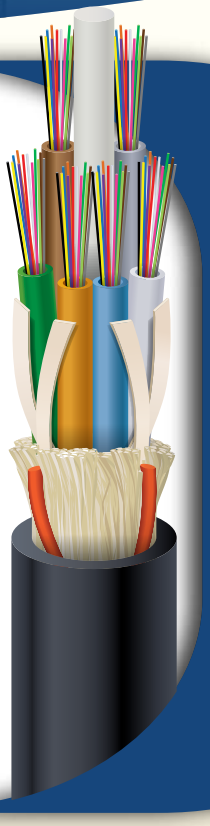


Optical Ground Wire

- Non-Metallic Loose Tube
- AL Clad Stainless Steel Tube
- Stranded Stainless Steel Tube
- Central Stainless Steel Tube

Aerial

- ADSS Short Span (12~432C)
- ADSS Long Span (12~432C)
- Figure 8 Cable (12~432C)



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- Tree Wire
- Spacer Cable
- Aluminum 600 Volt UD Cable
  - Ruggedized
  - 1350 & 8000 Series
- Aluminum XLP-USE (1350)
- Aluminum USE-2 (8000)
- Aluminum Tie Wire
- Aluminum Medium Voltage

COPPER PRODUCTS

- Riser Wire/Down Ground/Pole Ground
- Tap Wire
- Jumper Cable 5/15 KV
- EPR/CPE USE Network Underground
- Copper Overhead
- Tracer CCS (Pipeline Tracer Wire)
- Control Cable
- Instrumentation Cable
- Tinned & Bare Copper
- Tray Cable THHN, XLPE & EPR
- PV Cable (Copper & Aluminum)
- DLO 2KV
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- XHHW, XLP, USE-2 Copper
- THHN Copper
- Fiber Optic Cable
- Copper Medium Voltage

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- Aluminum Clad Steel Wire (6m, 8m, 10m, 12.5m, 16m, 20m)
- Guy Wire

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