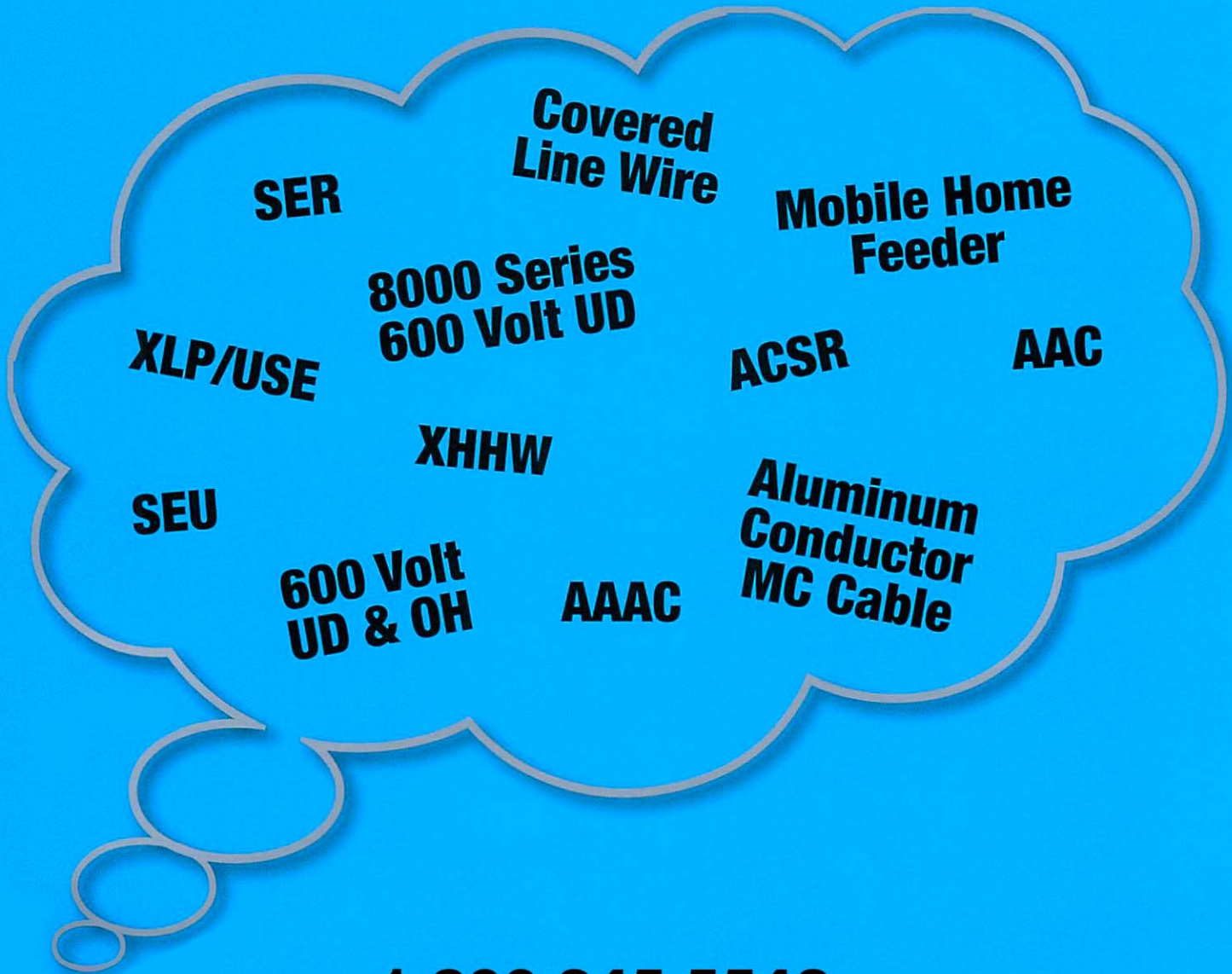


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ALUMINUM WIRE & CABLE



SER

**Covered
Line Wire**

**Mobile Home
Feeder**

**8000 Series
600 Volt UD**

XLP/USE

ACSR

AAC

XHHW

SEU

**Aluminum
Conductor
MC Cable**

**600 Volt
UD & OH**

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ALUMINUM CONDUCTOR CABLE

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ALUMINUM SERVICE ENTRANCE CABLE – TYPE SE STYLE R

**TYPE SE, STYLE R. 600 VOLT. ALUMINUM ALLOY (AA-8000)
CONDUCTORS: INDIVIDUAL CONDUCTORS RATED XHHW-2.
OVERALL SUNLIGHT RESISTANT PVC JACKET.**

APPLICATION: Primarily used as panel feeder in multiple unit dwellings and other branch circuits. Maximum operating temperature not to exceed 90°C in wet locations. Voltage rating is 600 volts.

SPECIFICATIONS: SER conductors are designed according to the internationally recognized and accepted standards: ASTM B800, B801 • UL 44 854

CONSTRUCTION: Conductor: 8000 series aluminum alloy compact stranded • Insulation: Cross-linked polyethylene (XLPE) type XHHW-2. • Colored insulation identification: 2 insulated conductors: black and white. 3 insulated conductors: black, white, and red. 4 insulated conductors: black, white, red, and blue. • Assembly: Two, three, or four insulated conductors and a bare grounded conductor cabled together and covered with a reinforced binder tape. Jacket: Grey sunlight resistant polyvinyl chloride (PVC).

Insulated Conductor Size/AWG	Bare Conductor Size/AWG	Nominal Outside Diameter (Inches)	Aluminum Weight Lbs./1000	Approx. Net Weight Lbs./1000	Approx. Gross Weight Lbs./1000	AMPS 90 Deg. C	AMPS Dwelling	Alum Weight lb/kft Per ASTM *no twist factor	ASTM REF *no twist factor	
TWO CONDUCTOR SER WITH A BARE GROUND										
8	8	0.488	47	97	203	45	N/A	46.5	AWG Size	lb/kft
6	6	0.574	74	138	253	60	N/A	74.1	8	15.5
4	6	0.632	104	177	305	75	N/A	103.3	6	24.7
4	4	0.669	118	193	321	75	N/A	117.9	4	39.3
2	4	0.748	165	254	397	100	100	164.3	2	62.5
2	2	0.788	188	280	423	100	100	187.5	1	78.8
1	1	0.884	237	349	514	115	110	236.4	1/0	99.4
1/0	2	0.915	261	384	571	135	125	261.3	2/0	125
1/0	1/0	0.964	299	423	610	135	125	298.2	3/0	158
2/0	1	0.951	330	459	668	150	150	328.8	4/0	199
2/0	2/0	1.050	377	513	722	150	150	375	250	235
4/0	2/0	1.193	526	690	999	205	200	523	300	282
4/0	4/0	1.264	599	766	1075	205	200	597		
THREE CONDUCTOR SER WITH A BARE GROUND										
8	8	0.571	62	128	243	45	N/A	62		
6	6	0.650	99	182	303	60	N/A	98.8		
4	6	0.736	143	240	268	75	N/A	142.6		
2	4	0.863	227	346	500	100	100	226.8		
1	3	0.973	286	435	622	115	110	285.9		
1/0	2	1.061	362	526	735	135	125	360.7		
2/0	1	1.164	455	637	880	150	150	453.8		
3/0	1/0	1.274	573	776	1085	175	175	573.4		
4/0	2/0	1.390	726	948	1279	205	200	722		
250	3/0	1.601	868	1106	1437	230	225	863		
300	4/0	1.741	1052	1311	1642	255	250	1045		
FOUR CONDUCTOR SER WITH A BARE GROUND										
2	4	0.973	290	438	659	100	100	289.3		
2/0	1	1.299	581	807	1138	150	150	578.8		
4/0	2/0	1.557	926	1204	1689	205	200	921		
250	3/0	1.798	1105	1404	1889	230	225	1098		
300	4/0	1.950	1335	1662	2147	255	250	1327		

NOTE: Standard Packaging: Bulk, 1000', 500'

*Allowable Ampacities: Allowable ampacities shown are for general use as specified by the National Electric Code, 2005 edition, section 310-15.

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

70°C – when terminated to equipment for circuits rated over 100 amperes or less or marked for conductors larger than #1.

90°C – wet or dry locations

Dwelling – for dwelling units, conductors shall be permitted at listed ampacities to be utilized as 120/240-volt, 3-wire, single-phase service conductors that supply the total load.

*Except as permitted by UL standard 44, UL standard 854 and ASTM B-801.

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ALUMINUM SERVICE ENTRANCE CABLE – TYPE SE STYLE U

**TYPE SE, STYLE U. 600 VOLT. ALUMINUM ALLOY (AA-8000) CONDUCTORS
INDIVIDUAL CONDUCTORS RATED XHHW-2. ALUMINUM ALLOY CONCENTRIC NEUTRAL
OVERALL SUNLIGHT RESISTANT PVC JACKET.**

APPLICATION: Mainly used to convey power from the service drop to the meter base and from the meter base to the distribution panel board. SEU can also be used in certain branch circuits as permitted by the 2005 National Electrical code. It is used in wet or dry locations. It is designed for use at 600 volts or less.

SPECIFICATIONS: SEU conductors are manufactured and tested according with UL standards 44 and 854. Federal Specifications J-C-30B and requirements of the National Electrical Code.

CONSTRUCTION: • Conductor: aluminum alloy compact stranded. • Cable: composed of concentrically applied neutral and reinforcement tape. • Jacket: Grey sunlight resistant polyvinyl chloride (PVC).

Insulated Conductor Size/AWG	Bare Conductor Size/AWG	Nominal Outside Diameter (Inches)	Aluminum Weight Lbs./1000	Approx. Net Weight Lbs./1000	Approx. Gross Weight Lbs./1000	AMPS 90 Deg. C	AMPS Dwelling
TWO CONDUCTOR SEU WITH A BARE GROUND							
8	8	0.407	47	104	210	45	N/A
6	6	0.458	75	143	259	60	N/A
4	6	0.502	104	184	312	75	N/A
4	4	0.505	118	198	326	75	N/A
2	4	0.559	165	259	402	100	100
2	2	0.559	188	282	421	100	100
1	1	0.625	236	353	519	115	110
1/0	2	0.647	261	387	574	135	125
1/0	1/0	0.661	298	438	626	135	125
2/0	1	0.702	329	467	677	150	150
2/0	2/0	0.719	376	516	728	150	150
4/0	2/0	0.818	524	692	1003	205	200
4/0	4/0	0.857	599	770	1072	205	200

NOTE: Standard Packaging: Bulk, 1000', 500'

***Allowable Ampacities: Allowable ampacities shown are for general use as specified by the National Electric Code, 2005 edition, section 310-15.**

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

70°C – when terminated to equipment for circuits rated over 100 amperes or less or marked for conductors larger than #1.

90°C – wet or dry locations

Dwelling – for dwelling units, conductors shall be permitted at listed ampacities to be utilized as 120/240-volt, 3-wire, single-phase service conductors that supply the total load.

***Except as permitted by UL standard 44, UL standard 854 and ASTM B-801.**

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ALUMINUM XHHW-2

APPLICATION: XHHW-2 conductors are primarily used in conduit or recognized raceways for services, feeders, and branch circuit wiring as specified in the National Electrical Code. XHHW-2 conductors may be used in wet or dry locations at temperatures not to exceed at 90°C. Voltage rating for XHHW-2 conductors is 600 volts.

DESCRIPTION: XHHW-2 aluminum conductors are AA-8000 series aluminum alloy, compact stranded. Insulation is flame retardant, abrasion resistant, moisture and heat resistant black cross-linked polyethylene.

SPECIFICATIONS: XHHW-2 conductors meet or exceed UL standard 44, Federal Specification J-C-30B, and requirements of the National Electrical Code B • ASTM standards B800 and B801.

Conductor Size (AWG or kcmil)	Conductor Number of Wires	Conductor Diameter (mils)	Insulation Thickness (mils)	Approx. Outside Diameter (inches)	Approx. Cable Weight lbs./1000 ft.	Ampacities* 90°C
8	7	134	45	0.227	30	45
6	7	169	45	0.262	42	60
4	7	213	45	0.306	58	75
2	7	268	45	0.361	86	100
1	18	299	55	0.412	110	115
1/0	18	335	55	0.449	134	135
2/0	18	378	55	0.489	163	150
3/0	18	423	55	0.536	200	175
4/0	18	476	55	0.588	247	205
250	35	520	65	0.653	296	230
300	35	571	65	0.703	359	255
350	35	614	65	0.749	401	280
400	35	657	65	0.792	453	305
500	35	736	65	0.869	556	350
600	58	815	80	0.979	679	385
700	58	877	80	1.040	782	420
750	58	909	80	1.071	833	435
900	58	999	80	1.162	987	480
1000	58	1059	80	1.223	1090	500

NOTE: Standard Packaging: Bulk, 1000', 500'

*Ampacities for not more than three conductors in raceway or cable or earth (directly buried), based on ambient temperature of 30°C per Table 310-16 of the 1990 National Electrical Code (NFPA 70-1990).

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ALUMINUM RHH/RHW-2/USE-2

UNDERGROUND SERVICE ENTRANCE CABLE. 600 VOLT. ALUMINUM ALLOY (AA-8000) CONDUCTOR. CROSS-LINKED POLYETHYLENE (XLPE) INSULATION. HIGH HEAT AND MOISTURE RESISTANT.

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. RHH-RHW-2/USE-2 conductors can be used in environments where superior insulation toughness and chemical resistance is required. The product's high resistance to humidity make this cable suitable for wet locations, 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 instructions 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.

AWG	Conductor Diameter (inches)	Insulation Thickness (mils)	Nominal O.D. (inches)	Allowable Ampacities*			Approx.net Weight per 1000 feet (lbs.)
				60°C.	75°C	90°C	
8	0.134	60	0.257	30	40	45	36
6	0.169	60	0.292	40	50	60	49
4	0.213	60	0.336	55	65	75	65
2	0.268	60	0.391	75	90	100	94
1	0.299	80	0.462	85	100	115	126
1/0	0.335	80	0.499	100	120	135	151
2/0	0.378	80	0.539	115	135	150	182
3/0	0.423	80	0.586	130	155	175	221
4/0	0.476	80	0.638	150	180	205	269
250	0.520	95	0.713	170	205	230	326
300	0.571	95	0.763	190	230	255	381
350	0.614	95	0.809	210	250	280	435
400	0.657	95	0.852	225	270	305	489
500	0.736	95	0.929	260	310	350	595
700	0.877	110	1.100	310	375	420	829
750	0.909	110	1.131	320	385	435	881
1000	1.059	110	1.283	375	445	500	1145

NOTE: Standard Packaging: Bulk, 1000', 500'

*Allowable Ampacities: Allowable ampacities shown are for general use as specified by the National Electrical Code, 2005 Edition, section 310-15.

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.

*Except as permitted by UL standard 44, UL standard 854 and ASTM B-801.

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MOBILE HOME FEEDER

DESCRIPTION: Mobile Home Feeder is designed for mobile homes as service entrance cable. The cable meets the requirements of Underwriters Laboratories Inc., Standard #854 for Type USE-2 and Standard #44 for Types RHH and RHW-2. The cable has a maximum operating temperature of 90°C in dry and wet locations. Rated at 600 volts, the cable is sunlight resistant and is approved for use in accordance with the recommendations of the National Electrical Code in raceways and underground installations. Aluminum alloy conductor is recognized by ASTM in Standards B800 and B801.

CONDUCTOR: Aluminum compact stranded (AA-8000 Series aluminum alloy).

INSULATION: Sunlight Resistant Black cross-linked polyethylene (XLPE).

CONSTRUCTION: Quadruplexed type USE-2/RHH/RHW-2 aluminum alloy conductors. The grounded (neutral) conductor is identified by a continuous white longitudinal stripe. The equipment grounding conductor is identified by total green surface coating.

Cable Construction	AMPS	Insulated Phase Conductor		Insulated Grounded (Neutral) Conductor		Insulated Equipment Grounding Conductor		Cable Diameter (inches)	Nominal Weight Lbs./1000
		Insulation (mils)	Diameter (inches)	Insulation (mils)	Diameter (inches)	Insulation (mils)	Diameter (inches)		
2-2-4-6	100	60	0.390	60	0.335	60	0.290	0.944	295
2-2-2-4	100	60	0.390	60	0.390	60	0.335	0.944	343
2/0-2/0-1-4	150	80	0.540	80	0.460	60	0.335	1.301	548
2/0-2/0-2/0-1	150	80	0.540	80	0.540	80	0.460	1.301	664
4/0-4/0-2/0-4	200	80	0.635	80	0.540	60	0.335	1.540	778
4/0-4/0-4/0-2/0	200	80	0.635	80	0.635	80	0.540	1.540	1018

*Ampacities based on compliance with 2002 National Electrical Code, Section 310.15(B)(6) 120/240-Volt, 3-Wire, Single-Phase Dwelling Services and Feeders and Table 310.15(B)(6).



ACSR – ALUMINUM CONDUCTOR STEEL REINFORCED

APPLICATIONS: 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; aluminum coated (AZ); or aluminum-clad steel core. (AL). Additional corrosion protection is available through the application of grease to the core or infusion of the complete cable with grease.

SPECIFICATIONS: ACSR bare conductor meets or exceeds the following ASTM specifications:

B-230 Aluminum wire, 1350-H19 for Electrical Purposes

B-231 Aluminum Conductors, Concentric-Lay-Stranded

B-232 Aluminum Conductors, Concentric-Lay-Stranded, Coated Steel Reinforced (ACSR)

B-341 Aluminum-Coated Steel Core Wire for Aluminum Conductors, Steel Reinforced (ACSR/AZ)

B-498 Zinc-Coated Steel Core Wire for Aluminum Conductors, Steel Reinforced (ACSR)

B-500 Metallic Coated Stranded Steel Core for Aluminum Conductors, Steel Reinforced (ACSR)

Code Word	Size (AWG or KCM)	STR (AL/STL)	Diameter (INS)				Weight per 1000ft (lbs)			Content %		Rate Breaking Strength (lbs)	Resistance OHMS/1000ft		Rating (AMPS)
			AL	STL	Steel Core	Comp. Cable OD	AL	STL	Total	AL	STL		DC @ 20°C	AC @ 75°C	
Turkey	6	6/1	0.0661	0.0661	0.0661	0.198	24.5	11.6	36.1	67.9	32.1	1,190	0.641	0.806	105
Swan	4	6/1	0.0834	0.0834	0.0834	0.25	39	18.4	57.4	67.9	32.1	1,860	0.403	0.515	140
Swanate	4	7/1	0.0772	0.1029	0.1029	0.257	39	28	67	58.13	41.87	2,360	0.399	0.519	140
Sparrow	2	6/1	0.1052	0.1052	0.1052	0.316	62	29.3	91.3	67.9	32.1	2,850	0.254	0.332	164
Sparate	2	7/1	0.0974	0.1299	0.1299	0.325	62	44.7	105.7	58.13	41.87	3,640	0.251	0.338	184
Robin	1	6/1	0.1181	0.1181	0.1181	0.354	78.2	36.9	115.1	67.9	32.1	3,550	0.201	0.258	212
Raven	1/0	6/1	0.1327	0.1327	0.1327	0.398	98.7	46.6	145.3	67.9	32.1	4,380	0.149	0.217	242
Quail	2/0	6/1	0.1489	0.1489	0.1489	0.447	124.3	58.7	183	67.9	32.1	5,300	0.126	0.176	276
Pigeon	3/0	6/1	0.1672	0.1672	0.1672	0.502	156.7	74	230.7	67.9	32.1	6,620	0.1	0.144	315
Penguin	4/0	6/1	0.1878	0.1878	0.1878	0.563	197.7	93.4	291.1	67.9	32.1	8,350	0.0795	0.119	357
Waxwing	266.8	18/1	0.1217	0.1217	0.1217	0.609	250.3	39.2	289.5	86.45	13.55	6,880	0.0643	0.0787	449
Partridge	266.8	26/7	0.1013	0.0788	0.2364	0.642	251.7	115.6	367.2	68.53	31.47	11,130	0.0637	0.0779	475
Ostrich	300.0	26/7	0.1074	0.0835	0.2505	0.68	282.9	129.8	412.7	68.53	31.47	12,700	0.0567	0.0693	492
Merlin	336.4	18/1	0.1367	0.1367	0.1367	0.683	315.8	49.5	365.2	86.45	13.55	8,680	0.051	0.0625	519
Linnet	336.4	26/7	0.1137	0.0884	0.2642	0.72	317.1	145.4	462.5	68.53	31.47	14,100	0.0505	0.0618	529
Oriole	336.4	30/7	0.1059	0.1059	0.3177	0.741	318.2	208.9	527.1	60.35	39.65	17,800	0.0505	0.0613	535
Chickadee	397.5	18/1	0.1486	0.1486	0.1486	0.743	373.1	58.5	431.6	86.45	13.55	9,940	0.0432	0.0529	576
Brant	397.5	24/7	0.1287	0.0858	0.2574	0.772	375	137	512	73.23	26.77	14,500	0.043	0.0526	584
Ibis	397.5	25/7	0.1236	0.0961	0.2882	0.783	374.7	171.9	546.6	68.53	31.47	16,300	0.0428	0.0523	587
Lark	397.5	30/7	0.1151	0.1151	0.3453	0.806	375.8	246.8	622.6	60.35	39.65	20,300	0.0425	0.0519	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	0.036	0.0442	646
Flicker	477.0	24/7	0.141	0.094	0.282	0.846	450.1	164.4	614.5	73.23	26.77	17,200	0.0358	0.0439	655
Hawk	477.0	26/7	0.1354	0.1053	0.3159	0.858	449.6	205.4	656	68.53	31.47	19,500	0.0356	0.0436	659
Hen	477.0	30/7	0.1261	0.1261	0.3783	0.883	451.1	296.2	747.3	60.35	39.65	23,800	0.0354	0.0433	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	0.0379	711
Parakeet	556.5	24/7	0.1523	0.1015	0.3045	0.914	525.1	191.7	716.8	73.23	26.77	19,800	0.0307	0.0376	721
Dove	556.5	26/7	0.1463	0.1138	0.3414	0.927	525	241	766	68.53	31.47	22,500	0.0306	0.0375	726
Eagle	556.5	30/7	0.1362	0.1362	0.4086	0.953	526.3	345.6	871.9	60.35	39.75	27,800	0.0303	0.0372	734
Peacock	605.0	24/7	0.1588	0.1059	0.3177	0.953	570.4	208.7	779.6	73.23	26.77	21,600	0.0282	0.0346	760
Squab	605.0	26/7	0.1525	0.1186	0.3558	0.966	570.4	261.8	832.2	68.53	31.47	24,300	0.0281	0.0345	765
Wood Duck	605.0	30/7	0.142	0.142	0.426	0.994	572	375.6	947.6	50.35	39.55	28,900	0.0279	0.0342	774
Teal	605.0	30/19	0.142	0.0852	0.426	0.994	572	367.4	939.4	60.89	39.11	30,000	0.0278	0.0342	773
Kingbird	636.0	18/1	0.188	0.188	0.188	0.94	497.2	93.6	690.8	86.45	13.55	15,700	0.027	0.0332	773
Swift	636.0	36/1	0.1329	0.1329	0.1329	0.93	596.9	46.8	643.7	92.8	27.2	13,800	0.0271	0.0334	769
Rook	636.0	24/7	0.1628	0.1085	0.3255	0.977	600	219.1	819.1	73.23	26.77	22,600	0.0268	0.033	784
Grosbeak	636.0	26/7	0.1564	0.1216	0.3648	0.99	599.2	276.2	874.1	68.53	31.47	25,200	0.0267	0.0328	789
Scoter	636.0	30/7	0.1456	0.1456	0.4368	1.019	601.4	394.9	996.3	60.35	39.55	30,400	0.0256	0.0325	798
Egret	636.0	30/19	0.1456	0.0874	0.437	1.019	601.4	386.6	988	60.89	39.11	31,500	0.0266	0.0326	798

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ACSR – ALUMINUM CONDUCTOR STEEL REINFORCED (continued)

Code Word	Size (AWG or KCM)	STR (AL/STL)	Diameter (INS)				Weight per 1000ft (lbs)			Content %		Rate Breaking Strength (lbs)	Resistance OHMS/1000ft		Rating (AMPS)
			AL	STL	Steel Core	Comp. Cable OD	AL	STL	Total	AL	STL		DC @ 20°C	AC @ 75°C	
Flamingo	666.6	24/7	0.1667	0.1110	0.3330	1.000	629.1	229.7	858.8	73.23	26.77	23,700	0.0256	0.0315	807
Gannet	666.6	26/7	0.1501	0.1245	0.2725	1.014	628.7	288.5	917.2	68.53	31.47	26,400	0.0255	0.0313	812
Stilt	715.5	24/7	0.1727	0.1151	0.3453	1.036	675.2	246.5	921.7	73.23	26.77	25,500	0.0239	0.0294	844
Starling	715.5	26/7	0.1659	0.1290	0.3870	1.051	675.0	309.7	984.7	68.53	31.47	28,400	0.0238	0.0292	849
Redwing	715.5	30/19	0.1544	0.0926	0.4630	1.081	676.3	434.0	1110.0	60.89	39.11	34,600	0.0236	0.0290	859
Coot	795.0	36/1	0.1486	0.1486	0.1486	1.040	746.2	58.5	804.7	92.80	7.20	16,800	0.0217	0.0268	884
Cuckoo	795.0	24/7	0.1820	0.1213	0.3640	1.092	749.9	273.8	1024.0	72.23	26.77	27,900	0.0215	0.0265	901
Drake	795.0	26/7	0.1749	0.1360	0.4080	1.108	750.3	344.2	1094.0	68.53	31.47	31,500	0.0214	0.0261	907
Tern	795.0	45/7	0.1329	0.0886	0.2660	1.063	749.8	146.1	895.9	83.69	16.31	22,100	0.0216	0.0269	887
Condor	795.0	54/7	0.1213	0.1213	0.3639	1.092	749.5	273.6	1023.0	73.25	26.75	28,200	0.0215	0.0272	889
Mallard	795.0	30/19	0.1628	0.0977	0.4885	1.140	751.9	483.1	1235.0	60.89	39.11	38,400	0.0213	0.0261	918
Ruddy	900.0	45/7	0.1414	0.0943	0.2829	1.131	848.7	165.5	1014.0	83.69	16.31	24,400	0.0191	0.0239	958
Canary	900.0	54/7	0.1291	0.1291	0.3873	1.162	849.0	309.9	1149.0	73.25	26.75	31,900	0.0190	0.0241	961
Rail	954.0	45/7	0.1456	0.0971	0.2913	1.165	899.9	175.5	1075.0	83.69	16.31	25,900	0.0180	0.0225	993
Cardinal	954.0	54/7	0.1329	0.1329	0.3987	1.196	900.7	328.4	1228.0	73.25	26.75	33,800	0.0179	0.0228	996
Ortolan	1033.5	45/7	0.1515	0.1010	0.3030	1.212	974.3	189.8	1164.0	83.69	16.31	27,700	0.0167	0.0209	1043
Curlew	1033.5	54/7	0.1383	0.1383	0.4149	1.245	974.3	355.6	1330.0	73.25	26.75	36,600	0.0165	0.0211	1047
Bluejay	1113.0	45/7	0.1573	0.1049	0.3147	1.259	1050.0	204.8	1225.0	83.69	16.31	29,800	0.0155	0.0194	1092
Finch	1113.0	54/19	0.1436	0.0862	0.4310	1.293	1056.0	276.1	1432.0	73.75	26.75	39,100	0.0154	0.0197	1093
Bunting	1192.5	45/7	0.1628	0.1085	0.3255	1.302	1125.0	219.1	1344.0	83.69	16.31	32,000	0.0144	0.0182	1139
Grackle	1192.5	54/19	0.1486	0.0892	0.4460	1.338	1130.0	402.7	1533.0	73.75	26.25	41,900	0.0144	0.0184	1140
Bittern	1272.0	45/7	0.1681	0.1121	0.3363	1.345	1200.0	233.9	1433.0	83.69	16.31	34,100	0.0135	0.0171	1184
Pheasant	1272.0	54/19	0.1535	0.0921	0.4605	1.382	1206.0	429.3	1635.0	73.75	26.25	43,500	0.0135	0.0173	1187
Dipper	1351.5	45/7	0.1733	0.1155	0.3465	1.386	1275.0	248.3	1525.0	83.69	16.31	36,200	0.0127	0.0162	1229
Martin	1351.5	54/19	0.1582	0.0949	0.4745	1.424	1281.0	455.8	1737.0	72.75	26.25	46,300	0.0127	0.0163	1232
Bobolink	1431.0	45/7	0.1783	0.1189	0.3567	1.427	1350.0	263.1	1613.0	83.69	16.31	38,300	0.0120	0.0153	1272
Plover	1431.0	54/19	0.1628	0.0977	0.4885	1.465	1357.0	483.1	1840.0	73.75	26.25	49,100	0.0120	0.0155	1275
Nuthatch	1510.5	45/7	0.1832	0.1221	0.3663	1.465	1425.0	277.4	1702.0	83.69	16.31	40,100	0.0144	0.0146	1313
Parrot	1510.0	54/19	0.1672	0.1003	0.5015	1.505	1431.0	509.2	1940.0	73.75	26.25	51,700	0.0114	0.0147	1318
Lapwing	1590.0	45/7	0.1880	0.1253	0.3759	1.504	1499.0	292.2	1793.0	83.69	16.31	42,200	0.0108	0.0139	1354
Falcon	1590.0	54/19	0.1716	0.1030	0.5150	1.545	1499.0	537.0	2044.0	73.75	26.25	54,500	0.0180	0.0137	1359
Chukar	1780.0	84/19	0.1456	0.8740	0.4370	1.602	1688.0	386.6	2975.0	81.30	18.70	51,000	0.0097	0.0125	1453
Bluebird	2156.0	84/19	0.1602	0.0961	0.4805	1.762	2044.0	467.4	2511.0	81.30	18.70	60,300	0.0081	0.0106	1623
Kiwi	2167.0	72/7	0.1735	0.1157	0.3471	1.735	2055.0	248.9	2303.0	89.20	10.80	49,800	0.0080	0.0106	1607
Thrasher	2312.0	76/19	0.1744	0.0814	0.4070	1.802	2191.0	335.4	2527.0	86.73	13.27	56,700	0.0075	0.0100	1673

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

2. Current ratings are based on 75°C conductor temperature, 25°C ambient, 2st wind, 96 watts/sq. foot sun. 0.5 coefficients of emissivity and absorption.

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AAC - ALL ALUMINUM CONDUCTOR

APPLICATION: Stranded 1350 aluminum conductors:

Class AA for bare conductors used in overhead lines.

Class A 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, AAC the most flexible.

SPECIFICATIONS: AAC bare conductors meet or exceed the following ASTM specifications:

B-230 Aluminum Wire, 1350-H19 for Electrical Purposes.

B-231 Aluminum Conductors, Concentric-Lay-Stranded Aluminum 1350 conductors.

CODE WORD	AWG	STRANDING		DIAMETER		CROSS SECTIONAL AREA (SQ. IN)	WEIGHT PER 1000 (LBS) FT	RATED BREAKING STRENGTH (LBS)	RESISTANCE OHMS/1000FT		RATING (AMPS)
		NUMBER OF WIRES	CLASS	INDIVIDUAL WIRE	COMP. CABLE				DC @ 20°C	AC @ 75°C	
Iris	2	7/W	AA,A	0.0974	0.292	.0521	62.3	1,235	0.26	0.318	185
Poppy	1/0	7/W	AA,A	0.1228	0.368	0.0829	99.1	1,990	0.164	0.202	247
Aster	2/0	7/W	AA,A	0.1379	0.414	0.1045	124.9	2,510	0.130	0.159	286
Phlox	3/0	7/W	AA,A	0.1548	0.464	0.1318	157.5	3,040	0.103	0.126	331
Oxlip	4/0	7/W	AA,A	0.1739	0.522	0.1662	198.6	3,830	0.0817	0.0999	383
Valerian	250	19/W	A	0.1147	0.574	0.1964	234.7	4,520	0.0591	0.0846	425
Laurel	266.8	19/W	A	0.1185	0.593	0.2095	250.5	4,970	0.0648	0.0793	444
Tulip	336.4	19/W	A	0.1331	0.666	0.2642	315.8	6,150	0.0514	0.0630	513
Daffodil	350	19/W	A	0.1357	0.679	0.2749	328.6	6,390	0.0435	0.0605	526
Canna	397.5	19/W	AA,A	0.1447	0.724	0.3122	373.2	7,110	0.0435	0.0534	570
Cosmos	477	19/W	AA	0.1584	0.793	0.3746	447.8	8,360	0.0362	0.0445	639
Syringa	477	37/W	A	0.1135	0.795	0.3746	447.8	8,690	0.0362	0.0445	639
Hyacinth	500	37/W	A	0.1162	0.813	0.3927	469.4	9,110	0.0346	0.0425	658
Dahlia	556.5	19/W	AA	0.1711	0.856	0.4371	522.4	9,750	0.0311	0.0382	703
Orchid	636	37/W	AA,A	0.1311	0.918	0.4995	597.0	11,400	0.0272	0.0335	765
Petunia	750	37/W	AA	0.1424	0.997	0.5891	704.5	13,000	0.0230	0.0286	847
Arbutus	795	37/W	AA	0.1446	1.026	0.6244	746.3	13,900	0.0217	0.0271	878
Magnolia	954	37/W	AA	0.1606	1.124	0.7493	895.6	16,400	0.0181	0.0226	982
Goldenrod	954	61/W	A	0.1251	1.126	0.7493	895.6	16,900	0.0181	0.0226	983
Bluebell	1033.5	37/W	AA	0.1671	1.170	0.8177	970.2	17,700	0.0167	0.0210	1031
Larkspur	1033.5	61/W	A	0.1302	1.172	0.8177	970.2	18,300	0.0167	0.0210	1032
Marigold	1113	61/W	AA,A	0.1351	1.216	0.8742	1045.0	19,700	0.0155	0.0195	1079
Narcissus	1272	61/W	AA,A	0.1441	1.300	0.999	1194.0	22,000	0.0136	0.0173	1169
Coreopsis	1590	61/W	AA	0.1614	1.454	1.249	1493.0	27,000	0.0109	0.0141	1333
Cowslip	2000	91/W	A	0.1482	1.630	1.571	1877.0	34,200	0.00864	0.0115	1518
Lupine	2500	91/W	A	0.1657	1.823	1.964	2370.0	41,900	0.00698	0.00969	1706

1. Resistance is calculated using ASTM standard increments of stranding and metal conductivity of 52.5% IACS, AC resistance at 60 Hz

2. Current ratings are based on 75°C conductor temperature, 25°C ambient. 2ft/s wind, 961 watts/sq. foot sun, 0.5 coefficients of emissivity and absorption.

1-800-945-5542
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AAAC - ALL ALUMINUM ALLOY (6201) CONDUCTOR

APPLICATIONS: Bare overhead conductor used for primary and secondary 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.

SPECIFICATIONS: AAAC bare conductor meets or exceeds the following ASTM specifications:

B-398 Aluminum Alloy 6201-T81 Wire for Electrical Purposes

B-399 Concentric-Lay-Stranded Aluminum Alloy 6201-T81 Conductors.

CONSTRUCTION: Standard 6201-T81 high strength aluminum conductors, conforming to ASTM specification B-399, are concentric-lay-stranded, similar in construction and appearance to 1350 grade aluminum conductors. DC resistance at 20°C of the 6201-T81 alloys have a greater resistance to abrasion than conductors of 1350-H19 grade aluminum.

Code Word	SIZE (KCM)	STRAND	APROX EC COND. WITH EQUIVALENT RESISTANCE	STRANDING	DIAMETER (IN)		CROSS SECTIONAL AREA (SQ. IN)	WEIGHT PER 1000 FT (LBS)	RATED STRENGTH (LBS)	RESISTANCE OHMS/1000 FT		RATING (AMPS)
					INDIV. WIRE OD	COMP. CABLE				DC @ 20 deg C	AC @ 75 deg C	
Akron	30.58	7	6	6/1	0.0661	0.198	0.0240	28.7	1,110	0.6590	0.785	107
Alton	48.69	7	4	6/1	0.0834	0.250	0.0382	45.7	1,760	0.4140	0.4930	143
Ames	77.47	7	2	6/1	0.1052	0.316	0.0608	72.7	4,270	0.2600	0.3100	191
Azusa	123.3	7	1/0	6/1	0.1327	0.398	0.0968	115.7	4,460	0.1630	0.1950	256
Anaheim	155.4	7	2/0	6/1	0.1490	0.447	0.1221	145.9	5,390	0.1300	0.1540	296
Amherst	195.7	7	3/0	6/1	0.1672	0.502	0.1537	183.7	6,790	0.1030	0.1230	342
Alliance	246.9	7	4/0	6/1	0.1878	0.563	0.1939	231.8	8,560	0.0816	0.0973	395
Butte	312.8	19	266.8	26/7	0.1283	0.642	0.2456	293.6	10,600	0.6440	0.0769	460
Canton	394.5	19	336.4	26/7	0.1441	0.721	0.3098	370.3	13,300	0.0511	0.0610	532
Cairo	465.4	19	397.5	26/7	0.1565	0.783	0.3655	436.9	15,600	0.0433	0.0518	590
Darien	559.5	19	477.0	26/7	0.1716	0.858	0.4394	521.2	18,800	0.0360	0.0420	663
Elgin	652.4	19	556.5	26/7	0.1853	0.927	0.5124	612.4	21,900	0.0309	0.0371	729
Flint	740.8	37	636.0	26/7	0.1414	0.991	0.5818	685.5	24,400	0.02720	0.0327	790
Greenly	927.2	37	795.0	26/7	0.1583	1.108	0.7282	870.4	30,500	0.02170	0.0263	908

H19 grade aluminum.

1. Resistance is calculated using ASTM standard increments of stranding, and metal conductivity of 52.5% IACS AC resistance at 60 Hz.

2. Current ratings are based on 75° conductor temperature. 25°C ambient, 2ft watts/sq. foot sun, .05 coefficients of emissivity and absorption.

1-800-945-5542
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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-H19 aluminum conductor, cross-linked polyethylene insulation.

SPECIFICATIONS: ASTM B-230, B-609, and ICEA S-105-692

OPTIONS: Cable in Duct (CIC) • Abrasion Resistant

CODE WORD	CONDUCTOR SIZE	NOMINAL INSULATION MILS	APPROX O.D. INCHES	ESTIMATED WEIGHT LBS/1000FT		AMPACITY DIRECTLY BURIED
				ALUMINUM	TOTAL	
PRINCETON	6	60	0.298	25	44	108
MERCER	4	60	0.345	39	63	140
CLEMSON	2	60	0.403	62	92	180
KENYON	1	80	0.473	78	121	203
HARVARD	1/0	80	0.512	99	146	231
YALE	2/0	80	0.555	125	177	263
TUFTS	3/0	80	0.603	157	215	299
BELOIT	4/0	80	0.658	198	263	338
HOFSTRA	250	95	0.732	234	314	368
GONZAGA	300	95	0.784	281	367	407
RUTGERS	350	95	0.831	328	420	444
DARTMOUTH	400	95	0.875	376	476	475
EMORY	500	95	0.956	469	577	540
DUKE	600	110	1.060	562	697	595
FURMAN	700	110	1.127	656	804	645
SEWANEE	750	110	1.159	703	853	667
FORDHAM	1000	110	1.304	937	1108	800

DUPLEX CONDUCTOR 600 VOLT URD

SECONDARY TYPE UD CABLE-ALUMINUM CONDUCTOR

APPLICATIONS: Directly buried or installed in ducts for 600 volt or less secondary distribution.

CONSTRUCTION: Concentric stranded or compressed 1350-H19 aluminum conductor, cross linked polyethylene insulation. Insulated conductors surface printed, neutral, yellow striped.

SPECIFICATIONS: ASTM B-230, B-231, B-609, B-901 and ICEA S-105-692. Federal specification JC-30B NEC

OPTIONS: Cable in Duct • Abrasion Resistant

Code Word	Phase Conductor			Neutral			Single Phase Conductor (in.)	Outside Diameter (in.)	Weight per 1000 ft. (lbs)	Ampacity (Amps)	
	Size AWG	Strand	Insulation Thickness (mils)	Size AWG	Strand	Insulation Thickness (mils)				Direct Burial	In Duct
Bard	8	7/w	60	8	7/w	60	0.262	0.524	76	70	70
Claffin	6	7/w	60	6	7/w	60	0.299	0.596	91	95	70
Delgado	4	7/w	60	4	7/w	60	0.345	0.69	129	125	90
Everett	2	7/w	60	2	7/w	60	0.403	0.800	189	187	100

NOTE: Ampacity 90°C conductor temperatures, 20°C ambient temperature. RHO 90. 100% load factor. UL Standard 854 available upon request. Ampacity not for NEC applications.

1-800-945-5542
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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-H19 aluminum conductors, cross-linked polyethylene insulation. Insulated conductors surface printed, neutral, yellow striped. Two phase and one neutral conductor twisted together (LH lay).

SPECIFICATIONS: ASTM B-230, B-231, B-609, B-901, ICEA S-105-692, Federal Specification J-C-30B, J-C-3.

OPTIONS: Cable in Duct (CIC) • Abrasion Resistant.

Code Word	Phase Conductor			Neutral			Single Phase Conductor (inches)	Outside Diameter (inches)	Weight per 1000 ft. (lbs)	Allowable Ampacity+	
	Size AWG	Stranding	Insulation Thickness (mils)	Size AWG	Stranding	Insulation Thickness (mils)				Direct Burial	In Duct
Erskine	6	7	60	6	7/W	60	0.299	0.646	143	95	70
Vassar	4	7	60	4	7/W	60	0.345	0.754	203	125	90
Stephens	2	7	60	4	7/W	60	0.403	0.842	264	165	120
Ramapo	2	7	60	2	7/W	60	0.403	0.874	294	165	120
Brenau	1/0	19	80	2	7/W	60	0.522	1.064	408	215	160
Bergen	1/0	19	80	1/0	19/W	80	0.522	1.133	465	215	180
Converse	2/0	19	80	1	19/W	80	0.566	1.174	502	245	180
Hunter	2/0	19	80	2/0	19/W	80	0.566	1.228	560	245	180
Hollins	3/0	19	80	1/0	19/W	80	0.616	1.276	608	280	205
Sweetbriar	4/0	19	80	2/0	19/W	80	0.672	1.389	739	315	240
Monmouth	4/0	19	80	4/0	19/W	80	0.672	1.457	828	315	240
Pratt	250	37	95	3/0	19/W	80	0.748	1,538	893	345	265
Wesleyan	350	37	95	4/0	19/W	80	0.851	1.736	1166	415	320
Rider	500	37	95	350	37/W	95	0.979	2.035	1663	495	395

Note: Ampacity: 90°C conductor temperatures, 20°C ambient, RHO 90, 100% load factor for three conductor triples with neutral carrying only unbalanced load. All yellow extruded stripe cable is XLP insulation.
UL Standard 854 available upon request.
Ampacity not for NEC applications.

1-800-945-5542
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QUADRUPLEX CONDUCTOR 600 VOLT URD

SECONDARY TYPE UD CABLE-ALUMINUM CONDUCTOR

APPLICATION: Directly buried or installed in ducts for 600 volts or less secondary distribution.

CONSTRUCTION: Concentric stranded or compressed 1350-H19 aluminum conductors, cross-linked polyethylene insulation. Insulated conductors surface printed, neutral, yellow striped. Three phase and one neutral conductor cable together (LH lay).

SPECIFICATIONS: ASTM B-230, B-231, B-609, B-901, ICEA S-105-692, Federal Specification JC-30B and NEC.

Code Word	Phase Conductor			Neutral			Outside Diameter (in.)	Weight per 1000 ft. (lbs)	Ampacity (Amps) Neutral	
	Size AWG	Strand	Insulation Thickness (Mils)	Size	Strand AWG	Insulation Thickness (Mils)			Direct Burial	In Duct
Tulsa	4	7/w	60	4	7/w	60	0.893	258	119	85
Dyke	2	7/w	60	4	7/w	60	0.938	346	153	115
Wittenberg	2	7/w	60	2	7/w	60	0.973	375	153	115
Notre Dame	1/0	19/w	80	2	7/w	60	1.188	541	198	150
Syracuse	2/0	19/w	80	1	19/w	80	1.316	664	225	170
Davidson	3/0	19/w	80	3/0	19/w	80	1.487	874	250	195
Wake Forest	4/0	19/w	80	2/0	19/w	80	1.560	979	290	225
Earlham	4/0	19/w	80	4/0	19/w	80	1.623	1066	290	225
Rust	250	37/w	95	3/0	19/w	80	1.760	1203	325	210
Slippery Rock	350	37/w	95	4/0	19/w	80	1.945	1544	385	305
Wofford	500	37/w	95	350	37/w	95	2.348	2174	467	420
Windham	750	61/w	110	500	37/w	95	2.850	3147	615	492

Ampacity: 90° conductor temperature, 20°C ambient temperature, RHO 90. 100% load factor for three conductor triplex, with neutral carrying only unbalanced load.

UL Standard 854 available upon request.

Ampacity not for NEC applications.

1-800-945-5542
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8000 SERIES 600 VOLT URD

TRIPLEX 600V SECONDARY UD RHH OR RHW-2 OR USE-2 8000 SERIES

ALUMINUM ALLOY (AA-8000) CONDUCTORS. CROSS LINKED POLYETHYLENE (XLP) INSULATION.

APPLICATIONS: Triplex Type RHH or RHW-2 or USE-2 is primarily used for secondary distribution and underground service at 600 volts or less, either direct burial or in ducts, where increased flexibility is needed. May also be used with conduit as specified by the NEC.

SPECIFICATIONS: Triplex Type RHH or RHW-2 or USE-2 600 volt cable meets or exceeds the following applicable ASTM specifications: B-800 8000 Series Aluminum Alloy Wire for Electrical Purposes • Annealed and intermediate tempers. B-801 Compressed Conductors of 8000 Series. Aluminum Alloy for Subsequent Covering or Insulations. Triplex 600 Volt secondary UD Cable meets or exceeds all applicable requirements of S-105-682 for cross-linked polyethylene insulated conductors, UL Standard 44 for type RHW-2, and UL Standard 854 for Type USE-2.

CONSTRUCTION: Type RHW-2 or USE-2 conductors are compressed stranded AA-8000 series Aluminum Alloy insulated with cross-linked polyethylene. 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.

Code Word	Phase Conductor			Neutral			Single Phase Conductor	Complete Cable	Weight per 1000 ft. (lbs)	Allowable Ampacity+	
	Size AWG	Stranding	Insulation Thickness (mils)	Size AWG	Stranding	Insulation Thickness (mils)				Direct Burial	In Duct
TRIPLEXED WITH YELLOW EXTRUDED STRIPE NEUTRAL											
Vassar	4	7	60	4	7	60	345	745	191	125	90
Stephens	2	7	60	4	7	60	403	870	249	165	120
Ramapo	2	7	60	2	7	60	403	870	278	165	120
Brenau	1/0	19	80	2	7	60	512	1106	387	215	160
Converse	2/0	19	80	1	19	80	555	1199	478	245	180
Sweetbriar	4/0	19	80	2/0	19	80	658	1421	709	315	240
Monmouth	4/0	19	80	4/0	19	80	658	1421	796	315	240
Pratt	250	37	95	3/0	19	80	732	1581	853	345	265
Wesleyan	350	37	95	4/0	19	80	831	1795	1118	415	320

Ampacity: 90° conductor temperature, 20°C ambient temperature, RHO 90. 100% load factor for three conductor triplex, with neutral carrying only unbalanced load. Ampacity not for NEC applications.

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Covered Line Wire Aluminum Conductor

APPLICATIONS: Used primarily for overhead secondary distribution lines. Not an electrically insulated conductor and is treated as bare conductor when installed.

CONSTRUCTION: Conductors are aluminum alloy 1350-H19, 6201-T81, or ACSR conductors, concentrically stranded and covered for weather proofing with polyethylene, high density polyethylene (HD) or cross-linked polyethylene (XLP).

SPECIFICATIONS: Covered Line Wire meets or exceeds the following ASTM specifications: B-230 Aluminum Wire, 1350-H19 for electrical purposes • B-231 Aluminum conductors, Concentric-lay-Stranded • B-232 Aluminum conductors, Concentric-lay-Stranded, Coated Steel Reinforced (ACSR) • B-399 Concentric-lay-Stranded, 6201-T81 Aluminum

Code Word	Size AWG	Strand	Insulation Thickness (MILS)	Outside Diameter (in.)	Rated Strength (lbs/mft)	Weight		Ampacity (Amps) XLP
						XLP	POLY	
COVERED LINE WIRE-ALUMINUM CONDUCTOR ACSR								
Walnut	6	6/1	30	0.258	1131	49.0	47.0	105
Butternut	4	6/1	30	0.303	1760	71.8	70.0	135
Hickory	4	7/1	30	0.309	2240	81.6	79.8	135
Pignut	2	6/1	45	0.397	2710	118.1	114.8	180
Beech	2	7/1	45	0.405	3460	134.1	130.7	180
Chestnut	1	6/1	45	0.434	3370	145.5	141.8	210
Almond	1/0	6/1	60	0.506	4160	190.4	184.9	235
Pecan	2/0	6/1	60	0.554	5040	234.2	227.9	270
Filbert	3/0	6/1	60	0.607	6290	288.5	281.4	305
Buckeye	4/0	6/1	60	0.666	7930	365.5	348.5	345
Hackberry	266.8	18/1	60	0.711	6540	354.8	346.8	435

*NOTE: The code words as given apply to conventional polyethylene line wire. The data is approximate and subject to normal manufacturing tolerances. For 6201, aluminum conductors diameter equivalent to ACSR construction or 1350 aluminum equivalent. Ampacity ratings based on 75°C conductor temperature 25" Cambient temperature elevation- sea level. Emissivity 0.91 coefficient of absorption 0.95. Thermal resistivity of covering -375° C-Cm2lwatt-CM. Wind speed 2ft./sec in sun.

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DUPLEX OVERHEAD (Service Drop) ALUMINUM CONDUCTOR

APPLICATION: To supply 120 volt 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.

CONSTRUCTION: Concentric strand or compressed 1350-H19 conductor, polyethylene or cross-linked polyethylene insulation, concentric strand AAC, ACSR, or 6201 alloy neutral messenger.

SPECIFICATIONS: Duplex service drop cable meets or exceeds the following ASTM specifications: B-230 Aluminum Wire, 1350-H19 or electrical purposes • B-231 Aluminum conductors, Concentric-lay-Stranded. • B-232 Aluminum conductors, Concentric-lay-Stranded, Coated Steel Reinforced (ACSR) • B-399 Concentric-lay-Stranded, 6201-T81 Aluminum • Service Drop cable meets or exceeds all applicable requirements of ICEA S-76-474

CODE WORD	PHASE CONDUCTORS			BARE NEUTRAL MESSENGER			WEIGHT PER 1000FT (LBS)		RATING (AMPS)	
	SIZE AWG	STRAND	INSULATION THICKNESS (MLS)	SIZE AWG	STRAND (LBS)	BREAKING STRENGTH	XLP	POLY	XLP	POLY
AAC										
Pekingese	6	SOLID	45	6	7/W	563	63.5	61.7	85	70
Collie	6	7/W	45	6	7/W	563	66.8	63.1	85	70
Dachshund	4	SOLID	45	4	7/W	881	95.5	93.4	110	90
Spaniel	4	7/W	45	4	7/W	881	100.5	95.4	110	90
Doberman	2	7/W	45	2	7/W	1,350	152.7	145.7	150	120
Malamute	1/0	19/W	60	1/0	7/W	1,990	242.6	234.2	200	60
ACSR NEUTRAL MESSENGER										
Setter	6	SOLID	45	6	6/1	1,190	75.0	73.2	85	70
Shepherd	6	7/W	45	6	6/1	1,190	78.3	74.6	85	70
Eskimo	4	SOLID	45	4	6/1	1,860	113.7	111.6	110	90
Terrier	4	7/W	45	4	6/1	1,860	118.7	113.6	110	90
Chow	2	7/W	45	2	6/1	2,850	181.7	174.7	150	115
Bull	1/0	19/W	60	1/0	6/1	4,380	288.7	280.3	200	155
6201 ALLOY NEUTRAL MESSENGER										
Chihuahua	6	SOLID	45	6	7/W	1,110	67.6	65.8	85	70
Vizsla	6	7/W	45	6	7/W	1,110	70.9	67.2	85	70
Harrier	4	SOLID	45	4	7/W	1,760	102.0	99.9	110	90
Whippet	4	7/W	45	4	7/W	1,760	107.0	101.9	110	90
Schnauzer	2	7/W	45	2	7/W	2,800	163.3	156.2	150	115
Heeler	1/0	19/W	60	1/0	7/W	4,460	259.2	250.8	200	155

**NOTE: Designated sizes are ACSR 6/1 diameter equivalent resistivity per ASTM-B-399 for 6201. Conductor temperature of 90°C for XLP, 75°C for Poly; ambient temperature of 40°C emissivity 0.9; 2ft/sec. Wind in sun.*

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TRIPLEX OVERHEAD (Service Drop) ALUMINUM CONDUCTOR

APPLICATION: To supply power from the utility lines to the consumer weather head. For service at 600 volts or less (phase to phase) at a conductor temperature of 75°C maximum for polyethylene insulation or 90°C maximum for cross-linked insulation.

CONSTRUCTION: Concentric strand or compressed 1350-H19 conductor, polyethylene or cross-linked polyethylene insulation, concentric strand AAC, ACSR or 6201 alloy neutral messenger.

SPECIFICATIONS: Triplex service drop cable meets or exceeds the following ASTM specifications: B-230 Aluminum Wire, 1350-H19 for electrical purposes • B-231 Aluminum conductors, Concentric-Lay-Stranded • B-232 Aluminum Conductors, Concentric-Lay-Stranded, Coated Steel Reinforced (ACSR) • B-399 Concentric-Lay-Stranded, 6201-T81 Aluminum Service Drop cable meets or exceeds all applicable requirements of ICEA S-76-474

CODE WORD	PHASE CONDUCTOR			BARE NEUTRAL MESSENGER			WEIGHT PER 1000 FT (LBS)		AMPACITY (AMPS)	
	SIZE AWG	STRAND	INSULATION THICKNESS (MLS)	SIZE AWG	STRAND	BREAKING STRENGTH (LBS)	XLP	POLY	XLP	POLY
6201 ALLOY NEUTRAL MESSENGER										
Minex	6	Solid	45	6	7	1,110	106.6	102.9	85	70
Hippa	6	7	45	6	7	1,110	107.0	105.7	85	70
Prawn	4	Solid	45	4	7	1,760	158.4	154.1	110	90
Barnacles	4	7	45	4	7	1,760	160.0	157.0	110	90
Shrimp	2	7	45	2	7	2,800	243.0	238.0	150	115
Gammarus	1/0	7	60	1/0	7	4,460	390.0	384.0	200	155
Leda	1/0	19	60	1/0	7	4,460	384.0	378.0	200	155
Dungeness	2/0	7	60	2/0	7	5,390	481.0	474.0	230	180
Cyclops	2/0	19	60	2/0	7	5,390	473.0	467.0	230	180
Flustra	3/0	19	60	3/0	7	6,790	596.0	589.1	260	205
Lepas	4/0	19	60	4/0	7	8,560	725.0	716.0	300	235
6201 ALLOY REDUCED NEUTRAL MESSENGER										
Artemia	4	Solid	45	6	7	1,110	134.0	132.0	110	90
Crab	4	7	45	6	7	1,110	144.0	141.2	110	90
Solaster	2	7	45	4	7	1,760	216.0	212.6	150	115
Sandcrab	1/0	7	60	2	7	2,800	348.0	341.0	200	155
Echinus	1/0	19	60	2	7	2,800	342.0	336.0	200	155
Crayfish	2/0	7	60	1	7	3,530	452.6	422.5	230	180
Sipho	2/0	19	60	1	7	3,530	441.0	422.5	230	180
Fulgar	3/0	19	60	1/0	7	4,460	525.0	518.0	260	205
Arca	4/0	19	60	2/0	7	5,390	640.0	632.0	300	235

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TRIPLEX OVERHEAD (Service Drop) ALUMINUM CONDUCTOR (continued)

CODE WORD	PHASE CONDUCTOR			BARE NEUTRAL MESSENGER			WEIGHT PER 1000 FT (LBS)		AMPACITY (AMPS)	
	SIZE AWG	STRAND	INSULATION THICKNESS (MLS)	SIZE AWG	STRAND	BREAKING STRENGTH (LBS)	XLP	POLY	XLP	POLY
AAC NEUTRAL MESSENGER										
Haiotis	6	Solid	45	6	7	563	102.5	98.8	85	70
Patella	6	7/w	45	6	7	563	104.0	101.6	85	70
Fusus	4	Solid	45	4	7	881	151.9	147.6	110	90
Oyster	4	7/w	45	4	7	881	154.0	151.7	110	90
Clam	2	7/w	45	2	7	1,350	232.0	228.0	150	115
Murex	1/0	7/w	60	1/0	7	1,990	374.0	367.0	200	155
Purpura	1/0	19/w	60	1/0	7	1,990	368.0	362.0	200	155
Nassa	2/0	7/w	60	2/0	7	2,510	461.0	453.0	230	180
Melita	3/0	19/w	60	3/0	19	3,310	585.2	562.9	260	205
Portunus	4/0	19/w	60	4/0	19	4,020	693.0	684.0	300	235
Nannynose	336	19/w	80	336	19	6,146	1111.0	1096.0	380	290
FULL SIZE ACSR MESSENGER										
Paludina	6	Solid	45	6	6/1	1,190	114.0	113.0	85	70
Voluta	6	7/w	45	6	6/1	1,190	115.0	112.0	85	70
Whelk	4	Solid	45	4	6/1	1,860	163.0	161.0	110	90
Periwinkle	4	7/w	45	4	6/1	1,860	172.0	169.0	110	90
Conch	2	7/w	45	2	6/1	2,850	262.0	257.0	150	115
Neritina	1/0	7/w	60	1/0	6/1	4,380	420.0	414.0	200	155
Cenia	1/0	19/w	60	1/0	6/1	4,380	414.0	408.0	200	155
Runcina	2/0	7/w	60	2/0	6/1	5,310	519.0	512.0	230	180
Triton	2/0	19/w	60	2/0	6/1	5,310	511.0	505.0	230	180
Cherrystone	3/0	7/w	60	3/0	6/1	6,620	656.0	643.0	260	205
Mursia	3/0	19/w	60	3/0	6/1	6,620	633.0	626.0	260	205
Razor	4/0	7/w	60	4/0	6/1	8,350	814.0	799.0	300	235
Zuzara	4/0	19/w	60	4/0	6/1	8,350	785.0	777.0	300	235
Limpet	336	19/w	80	336	18/1	8,680	1161.0	1147.0	380	290
ACSR REDUCED SIZE MESSENGER										
Scallop	4	Solid	45	6	6/1	1,190	142.0	139.0	110	90
Strombus	4	7/w	45	6	6/1	1,190	151.0	148.0	110	90
Cockle	2	7/w	45	4	6/1	1,860	228.0	224.0	150	115
Janthina	1/0	7/w	60	2	6/1	2,850	367.0	360.0	200	155
Ranella	1/0	19/w	60	2	6/1	2,850	361.0	356.0	200	155
Cavolinia	2/0	7/w	60	1	6/1	3,550	452.0	444.0	230	180
Clio	2/0	19/w	60	1	6/1	3,550	444.0	437.0	230	180
Sanddollar	3/0	7/w	60	1/0	6/1	4,380	570.0	557.0	260	205
Aega	3/0	19/w	60	1/0	6/1	4,380	565.0	552.0	260	205
Cuttlefish	4/0	7/w	60	2/0	6/1	5,310	706.0	691.0	300	235
Cerapus	4/0	19/w	60	2/0	6/1	5,310	678.0	670.0	300	235
Cowry	336	19/w	80	4/0	6/1	8,350	1135.0	1093.0	380	290

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QUADRUPLIX OVERHEAD (Service Drop) ALUMINUM CONDUCTOR

APPLICATIONS: 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: Conductors are concentrically stranded, compressed 1350-H19 aluminum Insulated with either polyethylene or XLP cross-linked-polyethylene. Neutral messengers are concentrically stranded 6201, AAC, or ACSR.

SPECIFICATIONS: Quadruplex service drop cable meets or exceeds the following ASTM specifications: B-230 Aluminum Wire, 1350-H19 for electrical purposes. B-231 Aluminum conductors, Concentric-Lay-Stranded. B-232 Aluminum Conductors, Concentric-Lay-Stranded, Coated Steel Reinforced (ACSR) B-399 Concentric-Lay-Stranded, 6201-T81 Aluminum. Service Drop cable meets or exceeds all applicable requirements of ICEA S-76-474

CODE WORD	PHASE CONDUCTORS			BARE NEUTRAL MESSENGER			WEIGHT PER 1000 FT (LBS)		AMPACITY (AMPS)	
	SIZE AWG	STRAND	INSULATION THICKNESS (MLS)	SIZE AWG	*STRAND	BREAKING STRENGTH (LBS)	XLP	POLY	XLP	POLY
AAC - NEUTRAL MESSENGER										
Clydesdale	4	Solid	45	4	7	881	208	201	100	80
Pinto	4	7/W	45	4	7	881	223	207	100	80
Mustang	2	7/W	45	2	7	1,350	333	312	135	105
Criollo	1/0	19/W	60	1/0	7	1,990	529	504	180	135
Percheron	2/0	19/W	60	2/0	7	2,510	649	620	205	155
Hanoverian	3/0	19/W	60	3/0	19	3,310	799	765	235	180
Oldenburg	4/0	19/W	60	4/0	19	4,020	986	946	270	205
Lippizaner	336.4	19/W	80	336.4	19	6,146	1546	1,519	330	240
ACSR - NEUTRAL MESSENGER										
Morchuca	6	Solid	45	6	6/1	1,190	152	147	75	60
Chola	6	7/W	45	6	6/1	1,190	162	151	75	60
Morgan	4	Solid	45	4	6/1	1,860	226	220	100	80
Hackney	4	7/W	45	4	6/1	1,860	241	226	100	80
Palomino	2	7/W	45	2	6/1	2,850	362	342	135	105
Costena	1/0	19/W	60	1/0	6/1	4,380	575	550	180	135
Grullo	2/0	19/W	60	2/0	6/1	5,310	707	678	205	155
Suffolk	3/0	19/W	60	3/0	6/1	6,620	872	838	235	180
Appaloosa	4/0	19/W	60	4/0	6/1	8,350	1079	1,039	270	205
Bronco	336.4	19/W	80	336.4	18/1	8,580	1613	1,568	330	240
Gelding	336.4	19/W	80	4/0	6/1	8,350	1548	1,494	330	240
6201 - ALLOY NEUTRAL MESSENGER										
Bay	6	Solid	45	6	7	1,110	145	140	75	60
French Coach	6	7/W	45	6	7	1,110	155	144	75	60
German Coach	4	Solid	45	4	7	1,760	214	208	100	80
Arabian	4	7/W	45	4	7	1,760	229	214	100	80
Belgian	2	7/W	45	2	7	2,800	344	323	135	105
Shetland	1/0	19/W	60	1/0	7	4,460	546	521	180	135
Thoroughbred	2/0	19/W	60	2/0	7	5,390	670	641	205	155
Trotter	3/0	19/W	60	3/0	7	6,790	825	791	235	180
Walking	4/0	19/W	60	4/0	7	8,560	1019	979	270	205

NOTE. Designated sizes are. ACSR 6/1 diameter equivalent and AAC with equivalent resistivity per ASTM B-399 for 6201. Conductor temperature of 90°C for XLP, 75°C for poly; ambient temp. of 40°C; emissivity 0.9; 2ft/sec/wind in sun.

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METAL CLAD CABLE ALUMINUM CONDUCTOR

Type MC-Aluminum Conductors 8000 Series Aluminum Alloy AA-8000 Conductors • 600 Volt • Cross-Linked-Polyethylene (XLP) • Insulated singles rated XHHW -2 • Bare Aluminum Alloy Grounding Conductor • Lightweight Aluminum Interlocked Armor • Sizes 6 AWG through 750 kcmil

APPLICATIONS: Suitable for use as follows: Branch, feeder and service power distribution under high ambient temperature in commercial, industrial, institutional, casinos, and multi-residential buildings • Power, lighting, control, and signal circuits • Concealed or exposed installations • Environmental air-handling spaces per NEC 300.22 • Places of Assembly per NEC 518.4 and theaters per NEC 520.5 • As aerial cable on messenger • Installation in cable tray and approved raceways • Under raised floors for information technology equipment conductors and cables per NEC 645.5(D) and 645.5(D)(2) • Class 1 Div. 2., Class 11 Div. 2, and Class 111 Div. 1 Hazardous Locations

STANDARDS & REFERENCES: Priority's MC Cable meets or exceeds the requirements of UL Standard 44, UL Standard 1569 for Type MC, ICEA S-95-658 (NEMA WC70) for 0-2000 V Nonshielded Cables, Federal Specifications A-A59544 (formerly J-C-30B), IEEE 1202 (70,000 BTU/hr) Vertical Cable Tray Flame Test, and the National Electrical Code.

CONSTRUCTION: Priority's Aluminum Conductor MC Cable is constructed with Type XHHW-2 conductors and a bare equipment grounding conductor. Conductors are Aluminum AA-8000 series aluminum alloy compact stranded. A binder tape is wrapped over the conductors with interlocked aluminum tape applied over the assembly. Aluminum interlocking armor is applied over the assembly.

FEATURES: Reduces installation costs up to 50% over pipe and wire. • Aluminum armor – as much as 45% lighter than steel MC Cable.

CONDUCTOR SIZE (AWG/kcmil)	DIAMETER (Inches)		WEIGHT (LBS/MFT)		AMPACITY	
	W/O JKT.	JKT.	W/O JKT.	JKT.	75 DEGREE	90 DEGREE
THREE CONDUCTOR WITH GROUND						
6-6-6-6	0.83	0.93	237	320	50	50
4-4-4-6	0.93	1.03	308	399	65	70
2-2-2-6	1.03	1.13	402	503	90	90
1-1-1-4	1.16	1.26	504	617	100	100
1/0-1/0-1/0-4	1.23	1.33	584	703	120	125
2/0-2/0-2/0-4	1.28	1.38	674	798	135	150
3/0-3/0-3/0-4	1.36	1.46	796	928	155	175
4/0-4/0-4/0-2	1.51	1.63	1005	1181	180	200
250-250-250-2	1.63	1.75	1166	1355	205	225
300-300-300-2	1.72	1.84	1337	1536	230	250
350-350-350-2	1.80	1.92	1505	1713	250	250
400-400-400-1	1.91	2.03	1692	1913	270	300
500-500-500-1	2.04	2.16	2023	2258	310	350
600-600-600-1	2.24	2.36	2416	2674	340	350
700-700-700-1/0	2.39	2.53	2765	3115	375	400
750-750-750-1/0	2.44	2.59	2926	3278	385	400
FOUR CONDUCTOR WITH GROUND						
6-6-6-6-6	0.92	1.02	286	377	50	50
4-4-4-4-6	1.04	1.14	373	474	65	70
2-2-2-2-6	1.17	1.27	503	617	90	90
1-1-1-1-4	1.31	1.41	630	757	100	100
1/0-1/0-1/0-1/0-4	1.40	1.5	736	871	120	125
2/0-2/0-2/0-2/0-4	1.47	1.64	887	1071	135	150
3/0-3/0-3/0-3/0-4	1.58	1.70	1051	1235	155	175
4/0-4/0-4/0-4/0-2	1.73	1.85	1280	1480	180	200
250-250-250-250-1	1.89	2.01	1510	1730	205	225
300-300-300-300-1	2.01	2.13	1738	1970	230	250
350-350-350-350-1/0	2.13	2.25	1985	2231	250	250
400-400-400-400-1/0	2.23	2.35	2207	2468	270	300
500-500-500-500-2/0	2.43	2.58	2677	3028	310	350
500-500-500-500-250	2.51	2.66	2798	3166	310	350
600-600-600-600-2/0	2.68	2.83	3199	3591	340	350
600-600-600-600-400	2.84	2.99	3473	3886	340	350
700-700-700-700-2/0	2.83	2.98	3630	4043	375	400
750-750-750-750-3/0	2.93	3.08	3880	4300	385	400
750-750-750-750-750	3.20	3.37	4469	4998	385	400

Note: Ampacities are based on Table 310.16 of the NEC, 2005 Edition.

‡Allowable ampacities shown are for general use as specified by the National Electrical Code, 2005 Edition, Section 310.15.

If the equipment is marked for use at higher temperatures, the conductor ampacity shall be limited to the following per NEC 110.14(C).

75°C – When terminated to equipment for circuits rated over 100 amperes or marked for conductors larger than size 1 AWG.

90°C – For ampacity derating purposes.

Per NEC 310.15(B)(2)(a), the ampacity of 4/C cables shall be reduced by a factor of 0.80 when the neutral is considered a current-carrying conductor.

†Available with oversized grounding conductor when used for parallel feeds on special orders.

COLOR CODING Standard Products

NUMBER OF CONDUCTORS

3

4

COLOR SEQUENCE 120/20BY

1-Black, 2-Red, White or White Striped

1-Black, 2-Red, 3-Blue, White or White Striped

Grounding Conductor Bare

Note: Phase conductors are black with printed ID.

1-800-945-5542
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NOTES

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