

JINSHUI WIRE & CABLE GROUP ZHENGZHOU JINSHUI INDUSTRY & COMMERCE CO.,LTD.



OVERHEAD INSULATED CABLE

JINSHUI WIRE & CABLE GROUP
ZHENGZHOU JINSHUI INDUSTRY AND COMMERCE CO.,LTD.

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Covered Line Wire-Aluminum Conductor



1.Applications

Covered Line Wire is used primarily for overhead secondary distribution lines. It is not an electrically insulated conductor and is treated as bare conductor when installed.

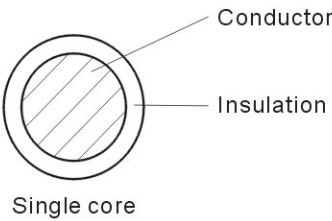
2.Construction

Conductors are aluminum alloy 1350-H19,6210-T81,or ACSR conductors, concentrically stranded and covered for weather proofing with polyethylene ,high density polyethylene (HD) or crosslinked polyethylene (X L P).

3.Standards

ASTM B-230,B-231,B-232 and B-399
ICEA S-61-402 and S-66-524

4.The Diagram of Structure:



NOTE: The Code Words as Given Apply to Conventional Polyethylene Line Wire

Available in 500 ft coils or long lengths on reels. 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°C ambient temperature elevation-sea level. Emissivity 0.91,coefficient of absorption0.95.Thermal reisitivity of covering-375°C -Cm2/Watt-CM. Wind speed 2ft/sec in sun.

To determine current ampacity by conductor size, please consult The National Electric Code, latest edition.

Code Name	Size AWG or MCM	Strand	Insulation Thickness (mls)	Outside Diameter (inches)	Rated Strength (lbs)	Weight		Ampacity (Amps) XLPE
						XLPE	Poly	
AAC								
Apple	6	Solid	30	.222	445	33.0	32.0	105
Pear	4	Solid	30	.264	675	48.5	47.3	135
Apricot	4	7/w	30	.285	790	51.5	50.8	140
Peach	2	7/w	45	.373	1220	87.1	84.0	180
Quince	1/0	7/w	60	.477	1790	140.7	135.6	240

Code Name	Size AWG or MCM	Strand	Insulation Thickness (mls)	Outside Diameter (inches)	Rated Strength (lbs)	Weight		Ampacity (Amps) XLPE
						XLPE	Poly	
AAC								
Orange	2/0	7/w	60	.522	2260	171.9	166.2	280
Fig	3/0	7/w	60	.570	2740	210.5	204.0	320
Olive	4/0	7/w	60	.626	3450	258.7	251.4	370
Pomegranate	4/0	19/w	60	.632	3620	254.8	247.9	370
Mulberry	266.8	19/w	60	.692	4470	313.5	305.8	430
Anona	336.4	19/w	60	.766	5535	387.6	378.8	495
Molles	397.5	19/w	75	.852	6400	469.2	457.4	545
Huckleberry	477.0	37/w	75	.921	7820	550.0	537.5	610
Paw Paw	556.5	37/w	75	.982	8950	633.0	619.4	670
Breadfruit	636.0	61/w	95	1.080	10510	742.6	724.7	720
Persimmon	795.0	61/w	95	1.187	12900	910.0	890.0	825
Grapefruit	1033.5	61/w	95	1.327	16500	1156.7	1133.8	970
Code Name	Size AWG or MCM	Strand	Insulation Thickness (mls)	Outside Diameter (inches)	Rated Strength (lbs)	Weight		Ampacity (Amps)
						XLPE	Poly	
ACSR								
Walnut	6	6/1	30	.258	1131	49	47	105
Butternut	4	6/1	30	.303	1170	71.8	70.0	135
Hickory	4	7/1	30	.309	2240	81.6	79.8	135
Pignut	2	6/1	45	.397	2710	118.1	114.8	180
Beech	2	7/1	45	.405	3460	134.1	130.7	180
Chestnut	1	6/1	45	.434	3370	145.5	141.8	210
Almond	1/0	6/1	60	.506	4160	190.4	184.9	235
Pecan	2/0	6/1	60	.554	5040	234.2	227.9	270
Filbert	3/0	6/1	60	.607	6290	288.5	281.4	305
Buckeye	4/0	6/1	60	.666	7930	356.5	348.5	345
Hackberry	266.8	18/1	60	.711	6540	354.8	346.8	435
ALLOY 6201-T81								
Hornbeam	4	7/w	30	.310	1480	62.1	60.1	145
Linden	2	7/w	45	.406	2520	96.1	93.3	190
Oilnut	1/0	7/w	60	.518	4010	166.1	160.0	250
Waterash	2/0	7/w	60	.567	4850	203.3	196.4	290
Shellbark	3/0	7/w	60	.622	6110	249.4	241.4	335
Planetree	4/0	7/w	60	.683	7700	307.3	298.1	385

Note:See left page details.

Duplex Service Drop-Aluminum Conductor



1.Applications

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 maximum.

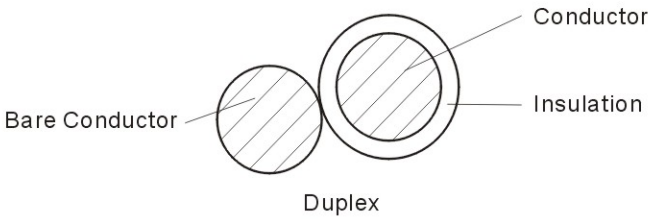
2.Construction

Concentric strand or compressed 1350-H19 conductor,polyethylene or crosslinked polyethylene insulation,concentric strand AAC,ACSR, or 6201 alloy neutral messenger.

3.Standards

ASTM B-230, B-231,B-232 and B-399
ICEA S-76-474

4. The Diagram of Structure:



NOTE: Designated Sizes are ACSR 6/1 Diameter Equivalent Resistivity Per ASTM-B-399 for 6201.

Conductor temperature of 75 °C ;ambient temperatures of 40 °C ;emissivity 0.9;2ft/sec.wind in sun.
Packaging: Available in 500ft coils and in long lengths on reels.
The data is approximate and subject to normal manufacturing tolerances.
To determine current ampacity by conductor size, please consult The National Electric Code, latest edition.

Code Name	Phase Conductor			Bare Neutral Messenger			Weight Per 1000 ft (lbs)		Rating (Amps)	
	Size AWG	Strand	Insulation Thickness (mils)	Size AWG	*Strand	Breaking Strength (lbs)	XLPE	POLY	XLPE	POLY
AAC										
Pekingese	6	Solid	45	6	7/w	563	63.5	61.7	70	70
Collie	6	7/w	45	6	7/w	563	66.8	63.1	70	70
Dachshund	4	Solid	45	4	7/w	881	95.5	93.4	90	90
Spaniel	4	7/w	45	4	7/w	881	100.5	95.4	90	90
Doberman	2	7/w	45	2	7/w	1,350	152.7	145.7	120	120
Malemute	1/0	19/w	60	1/0	7/w	1,990	242.6	234.2	160	160

Code Name	Phase Conductor			Bare Neutral Messenger			Weight Per 1000 ft (lbs)		Rating (Amps)	
	Size AWG	Strand	Insulation Thickness (mils)	Size AWG	*Strand	Breaking Strength (lbs)	XLPE	POLY	XLPE	POLY
ACSR NEUTRAL-MESSENGER										
Setter	6	Solid	45	6	6/1	1,190	75.0	73.2	70	70
Shepherd	6	7/w	45	6	6/1	1,190	78.3	74.6	70	70
Eskimo	4	Solid	45	4	6/1	1,860	113.7	111.6	90	90
Terrier	4	7/w	45	4	6/1	1,860	118.7	113.6	90	90
Chow	2	7/w	45	2	6/1	2,850	181.7	174.7	120	120
Bull	1/0	19/w	60	1/0	6/1	4,380	288.7	280.3	160	160
6201 ALLOY NEUTRAL-MESSENGER										
Chihuahua	6	Solid	45	6	7/w	1,110	67.6	65.8	70	70
Vizsla	6	7/w	45	6	7/w	1,110	70.9	67.2	70	70
Harrier	4	Solid	45	4	7/w	1,760	102.0	99.9	90	90
Whippet	4	7/w	45	4	7/w	1760	107.0	101.9	90	90
Schnauzer	2	7/w	45	2	7/w	2,800	163.3	156.2	120	120
Heeler	1/0	19/w	60	1/0	7/w	4,460	259.2	250.8	160	160

*NOTE: See left page for details.

Triplex Service Drop- Aluminum Conductor



1.Applications

To supply power from the utility's lines to the consumer's weatherhead. 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 crosslinked insulation.

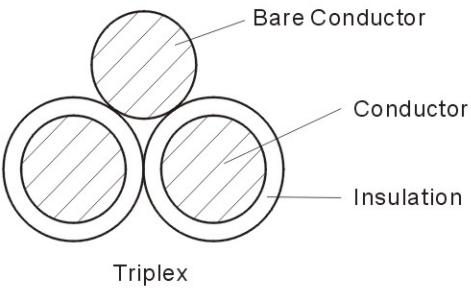
2.Construction

Concentric strand or compressed 1350-H19 conductor,polyethylene or crosslinked polyethylene insulation, concentric strand AAC, ACSR or 6201 alloy neutral messenger.

3.Standards

ASTM B-230,B-231,B-232 and B-339
ICEA S-76-474

4. The Diagram of Structure:



Triples Service Drop- Aluminum Conductor

Code Name	Phase Conductor			Bare Neutral Messenger			Weight Per 1000 ft (lbs)		Ampacity (amps)	
	Size AWG	Stranding	Insulation Thickness (mils)	Size AWG	Stranding	Breaking Strength (lbs)	XLPE	Poly	XLPE	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	113.2	105.7	85	70
Prawn	4	Solid	45	4	7	1,760	158.4	154.1	115	90
Barnacles	4	7	45	4	7	1,760	168.3	158.2	115	90
Shrimp	2	7	45	2	7	2,800	253.7	239.7	150	120
Gammarus	1/0	7	60	1/0	7	4,460	411.7	386.0	205	160
Leda	1/0	19	60	1/0	7	4,460	402.7	386.0	205	160
Dungenese	2/0	7	60	2/0	7	5,390	506.8	476.3	235	185
Cyclops	2/0	19	60	2/0	7	5,390	495.3	476.3	235	185
Flustra	3/0	19	60	3/0	7	6,790	611.4	589.1	275	215
Lepas	4/0	19	60	4/0	7	8,560	757.1	730.5	315	245
6201 ALLOY REDUCED NEUTRAL-MESSENGER										
Artemia	4	Solid	45	6	7	1,110	141.4	137.1	115	90
Crab	4	7	45	6	7	1,110	151.3	141.2	115	90
Solaster	2	7	45	4	7	1,760	226.6	212.6	150	120
Sandcrab	1/0	7	60	2	7	2,800	368.8	343.1	205	160
Echinus	1/0	19	60	2	7	2,800	358.8	343.1	205	160
Crayfish	2/0	7	60	1	7	3,530	452.6	422.5	235	185
Sipho	2/0	19	60	1	7	3,530	441.0	422.5	235	185
Fulgar	3/0	19	60	1/0	7	4,460	543.4	521.1	275	215
Arca	4/0	19	60	2/0	7	5,390	671.2	644.6	315	245
Code Name	Phase Conductor			Bare Neutral			Weight Per 1000 ft (lbs)		Ampacity (amps)	
	Size AWG or MCM	Stranding	Insulation Thickness (mils)	Size (AWG)	*Stranding	Rated Strength (lbs)	XLPE	Poly	XLPE	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	109.1	101.6	85	70
Fusus	4	Solid	45	4	7	881	151.9	147.6	115	90
Oyster	4	7/w	45	4	7	881	161.8	151.7	115	90
Clam	2	7/w	45	2	7	1,350	243.2	229.2	150	120
Murex	1/0	7/w	60	1/0	7	1,990	395.1	369.4	205	160
Purpura	1/0	19/w	60	1/0	7	1,990	386.1	369.4	205	160
Nassa	2/0	7/w	60	2/0	7	2,510	485.8	455.3	235	185

AAC NEUTRAL-MESSENGER										
Melita	3/0	19/w	60	3/0	19	3,310	585.2	562.9	275	215
Portunus	4/0	19/w	60	4/0	19	4,020	723.9	697.3	315	245
Nannynose	336.4	19/w	80	336.4	19	6,146	1160.4	1118.0	420	325
WITH FULL SIZE ACSR MESSENGER										
Paludina	6	Solid	45	6	6/1	1,190	114	113	85	70
Voluta	6	7/w	45	6	6/1	1,190	120	113	85	70
Whelk	4	Solid	45	4	6/1	1,860	169	165	115	90
Periwinkle	4	7/w	45	4	6/1	1,860	176	172	115	90
Conch	2	7/w	45	2	6/1	2,850	267	261	150	120
Neritina	1/0	7/w	60	1/0	6/1	4,380	530	419	205	160
Cenia	1/0	19/w	60	1/0	6/1	4,380	426	416	205	160
Runcina	2/0	7/w	60	2/0	6/1	5,310	530	519	235	185
Triton	2/0	19/w	60	2/0	6/1	5,310	526	514	235	185
Cherrystone	3/0	7/w	60	3/0	6/1	6,620	656	643	250	200
Mursia	3/0	19/w	60	3/0	6/1	6,620	650	638	250	200
Razor	4/0	7/w	60	4/0	6/1	8,350	814	799	315	245
Zuzara	4/0	19/w	60	4/0	6/1	8,350	805	792	315	245
Limper	336.4	19/w	80	336.4	18/1	8,680	1209	1167	420	325
WITH ACSR REDUCED SIZE MESSENGER										
Code Name	Phase Conductors			Bare Neutral			Weight Per 1000 ft (lbs)		Ampacity (amps)	
	Size AWG or MCM	Stranding	Insulation Thickness (mils)	Size (AWG)	Stranding	Rated Strength (lbs)	XLPE	Poly	XLPE	Poly
Scallop	4	Solid	45	6	6/1	1,190	148	144	115	90
Strombus	4	7/w	45	6	6/1	1,190	158	148	115	90
Cockle	2	7/w	45	4	6/1	1,860	233	227	150	120
Janthina	1/0	7/w	60	2	6/1	2,850	376	365	205	160
Ranella	1/0	19/w	60	2	6/1	2,850	372	362	205	160
Cavolinia	2/0	7/w	60	1	6/1	3,550	462	451	235	185
Clio	2/0	19/w	60	1	6/1	3,550	458	446	235	185
Sanddollar	3/0	7/w	60	1/0	6/1	4,380	570	557	275	215
Aega	3/0	19/w	60	1/0	6/1	4,380	565	552	275	215
Cuttlefish	4/0	7/w	60	2/0	6/1	5,310	706	691	315	245
Cerapus	4/0	19/w	60	2/0	6/1	5,310	699	684	315	245
Cowry	336.4	19/w	80	4/0	6/1	8,350	1135	1093	420	325

NOTE: See left page for details.

Quadruplex Service Drop - Aluminum Conductor



1.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℃ for polyethylene insulated conductors or 90℃ for crosslinked polyethylene (X L PE) insulated conductors.

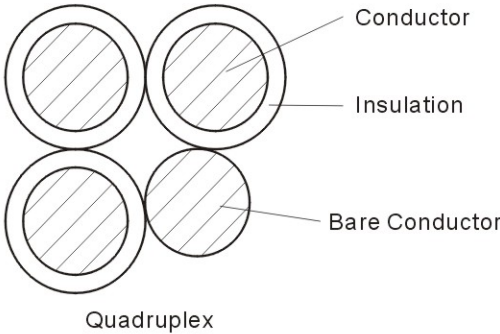
2.Construction

Conductors are concentrically stranded, compressed 1350-H19 aluminum. Insulated with either polyethylene or XLPE crosslinked polyethylene. Neutral messengers are concentrically stranded 6201,AAC, or ACSR. One conductor is manufactured with an extruded ridge for phase identification.

3.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,6210-T81-Aluminum
Service Drop cable meets or exceeds all applicable requirements of ICEA-S-76-474

4.The Diagram of Structure:



NOTE: Designated sizes are: ACSR 6/1 diameter equivalent and AAC with equivalent resistivity per ASTM B-399 for 6201.

Conductor temperature of 90℃ XLPE ,75℃ for Poly; ambient temperatures of 40℃;emissivity 0.9; 2ft/sec/wind in sun.To determine current ampacity by conductor size, please consult The National Electric Code, latest edition.

Code Name	Phase Conductor		Bare Neutral Messenger				Weight Per 1000 ft (lbs)		Rating (Amps)	
	Size AWG	Strand	Insulation Thickness (mils)	Size AWG	Strand	Breaking Strength (lbs)	XLPE	Poly	XLPE	Poly
AAC NEUTRAL-MESSENGER										
Clydesdale	4	Solid	45	4	7	881	208	201.8	100	80
Pinto	4	7/w	45	4	7	881	223	207.9	100	80

Code Name	Phase Conductor			Bare Neutral Messenger			Weight Per 1000 ft (lbs)		Rating (Amps)	
	Size AWG	Strand	Insulation Thickness (mils)	Size AWG	Strand	Breaking Strength (lbs)	XLPE	POLY	XLPE	Poly
AAC NEUTRAL-MESSENGER										
Mustang	2	7/w	45	2	7	1,350	333	312.6	135	105
Criollo	1/0	19/w	60	1/0	7	1,990	529	504.5	180	140
Percheron	2/0	19/w	60	2/0	7	2,510	649	620.5	205	160
Hanoverian	3/0	19/w	60	3/0	19	3,310	799	765.6	235	185
Oldenburg	4/0	19/w	60	4/0	19	4,020	986	946.7	275	210
Lippizaner	336.4	19/w	80	336.4	19	6,146	1,546	1,519.2	370	280
ACSR NEUTRAL-MESSENGER										
Morochuca	6	Solid	45	6	6/1	1,190	152	147.4	75	60
Chola	6	7/w	45	6	6/1	1,190	162	151.7	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	226.1	100	80
Palomino	2	7/w	45	2	6/1	2,850	362	342.6	135	105
Costena	1/0	19/w	60	1/0	6/1	4,380	575	550.6	180	140
Grullo	2/0	19/w	60	2/0	6/1	5,310	707	678.7	205	160
Suffolk	3/0	19/w	60	3/0	6/1	6,620	872	838.9	235	185
Appaloosa	4/0	19/w	60	4/0	6/1	8,350	1,079	1,039.2	275	210
Bronco	336.4	19/w	80	336.4	18/1	8,580	1,613	1,568.2	370	280
Gelding	336.4	19/w	80	4/0	6/1	8,350	1,548	1,494.3	370	280
6201 ALLOY NEUTRAL-MESSENGER										
Code Name	Phase Conductor			Bare Neutral Messenger			Weight Per 1000 ft (lbs)		Rating (Amps)	
	Size AWG	Strand	Insulation Thickness (mils)	Size AWG	Strand	Breaking Strength (lbs)	XLPE	POLY	XLPE	POLY
Bay	6	Solid	45	6	7	1,110	145	140.0	75	60
French Coach	6	7/w	45	6	7	1,110	155	144.3	75	60
German Coach	4	Solid	45	4	7	1,760	214	208.3	100	80
Arabian	4	7/w	45	4	7	1,760	229	214.4	100	80
Belgian	2	7/w	45	2	7	2,800	344	323.1	135	105
Shetland	1/0	19/w	60	1/0	7	4,460	546	521.1	180	140
Thoroughbred	2/0	19/w	60	2/0	7	5,390	670	641.5	205	160
Trotter	3/0	19/w	60	3/0	7	6,790	825	791.8	235	185
Walking	4/0	19/w	60	4/0	7	8,560	1,019	979.7	275	210

*NOTE: See left page for details.