

# Covered Overhead Conductor — Line Wire

## Single Conductor LLDPE or XLPE Covered Line Wire



### Product Construction:

#### Complete Cable:

Weatherproof line wire consists of single conductor covered with either Linear Low-Density Polyethylene (LLDPE) or Cross-linked Polyethylene (XLPE). Conductors may be compact or concentric strand of ACSR, A1 or A2 or solid, compact or concentric strand copper. Weatherproof line wire meets the requirements of CSA C68.9 and the ANSI/ICEA S-70-547 specification, as applicable.

#### Conductors:

Different conductor types are available. Solid or stranded MHD copper, compact or concentric HD aluminum, aluminum alloy, or ACSR are all options that are available.

The conductors meet the requirements of CSA C49.2, CAN/CSA C61089, ASTM B3, B8, B231, B232, B400, or B496 as applicable. For aluminum and ACSR conductors, the direction of lay of the outer layer of the strand is right-hand. For copper conductors, the direction of lay of the outer layer of the strand is left-hand.

For products manufactured with aluminum conductors, the product is available with conductor corrosion-resistant inhibitor treatment.

### Complete Cable (cont'd.):

#### Covering:

Black, Linear Low-Density Polyethylene (LLDPE) or black extruded Cross-linked Polyethylene (XLPE) coverings are available.

There is no voltage rating.

### Features and Benefits:

The covering provides mechanical protection to the conductor and is resistant to weathering and chemicals. If the conductors accidentally come into contact due to high winds, falling tree limbs, or other disturbances, the covering resists short circuits and the tendency for conductors to weld together.

### Applications:

Weatherproof line wire is used for overhead transmission and distribution lines. Covered line wire is not an electrically insulated cable. Therefore, it should be installed on insulators, and users should treat line wire as bare conductor for personal safety.

### Options:

- Medium-Density Polyethylene (MDPE)
- High-Density Cross-linked Polyethylene (HDXLPE)
- Annealed (soft drawn) copper for transformer drop and covered ground wire
- Conductor corrosion-resistant inhibitor treatment
- Sequential print marking

For other conductor sizes, designs and/or specific installation requirements not shown in the tables, contact your General Cable sales representative or e-mail [infoca@generalcable.com](mailto:infoca@generalcable.com).



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### COVERED ACSR ALUMINUM CONDUCTOR, STEEL-REINFORCED, COMPACT-LAY-STRADED

CODE WORD (1)	CONDUCTOR SIZE		NO. OF WIRES	CONDUCTOR O.D. (mm)	COVER THKN. (mm)	CABLE O.D. (mm)	NOMINAL MASS KG/KM			RATED STRENGTH kN	AMPACITY	
	AWG or kcmil	mm <sup>2</sup>					AL	TOTAL			PE (2)	XLPE (3)
								PE	XLPE			
Gum	#6	13.3	6/1	4.62	0.76	6.15	36.5	67.1	67.1	5.19	95	110
Solah	#6	13.3	6/1	4.90	0.76	6.43	36.5	85.3	85.3	7.67	95	115
-none-	#6	13.3	6/1	5.28	0.76	6.81	36.5	106.9	106.9	10.7	100	120
Teak	#4	21.2	6/1	5.82	0.76	7.34	57.7	102.4	102.4	8.15	125	145
-none-	#4	21.2	6/1	6.17	0.76	7.70	57.7	131.0	131.0	12.1	130	155
-none-	#4	21.2	6/1	6.71	0.76	8.23	57.7	164.9	164.9	16.4	130	160
Ebony	#2	33.6	6/1	7.37	1.14	9.65	92.0	167.9	167.9	12.4	160	190
-none-	#2	33.6	6/1	7.82	1.14	10.1	92.0	215.6	215.6	18.4	170	205
-none-	#2	33.6	6/1	8.41	1.14	10.7	92.0	268.0	268.0	25.7	175	210
Liana	#1	42.4	6/1	8.28	1.14	10.6	116.3	207.6	207.6	15.5	185	220
-none-	#1	42.4	6/1	8.79	1.14	11.1	116.3	265.2	265.2	23.0	195	240
Bamboo	1/0	53.5	6/1	9.27	1.52	12.3	146.6	267.1	267.1	18.9	210	250
-none-	1/0	53.5	6/1	9.86	1.52	12.9	146.6	339.8	339.8	28.8	225	275
Corypha	2/0	67.4	6/1	10.4	1.52	13.5	185.0	329.2	329.2	23.5	240	290
Mahogany	3/0	85.0	6/1	11.7	1.52	14.8	232.9	407.0	407.0	29.6	275	325
Eucalyptus	4/0	107.2	6/1	13.1	1.52	16.2	293.7	504.1	504.1	37.3	310	370
-none-	266.8	135.2	18/1	14.2	1.52	17.2	372.1	503.0	503.0	31.2	385	425
-none-	336.4	170.5	18/1	16.0	1.52	19.0	470.3	623.0	623.0	39.4	445	550

### COVERED ACSR ALUMINUM CONDUCTOR, STEEL-REINFORCED, CONCENTRIC-LAY-STRADED

CODE WORD (1)	CONDUCTOR SIZE		NO. OF WIRES	CONDUCTOR O.D. (mm)	COVER THKN. (mm)	CABLE O.D. (mm)	NOMINAL MASS KG/KM			RATED STRENGTH kN	AMPACITY	
	AWG or kcmil	mm <sup>2</sup>					AL	TOTAL			PE (2)	XLPE (3)
								PE	XLPE			
Walnut	#6	13.3	6/1	5.04	0.762	6.60	36.5	69.8	69.8	5.19	95	115
Butternut	#4	21.1	6/1	6.36	0.762	7.92	57.7	106.1	106.1	8.14	125	150
Hickory	#4	21.1	7/1	6.53	0.762	8.10	57.7	121.1	121.1	10.2	125	150
Pignut	#2	33.6	6/1	8.01	1.14	10.3	92.0	174.4	174.4	12.4	165	195
Chestnut	#1	42.4	6/1	9.00	1.14	11.3	116.3	214.1	214.1	15.5	190	225
Almond	1/0	53.5	6/1	10.1	1.52	13.1	146.6	274.6	274.6	18.9	215	255
Pecan	2/0	67.4	6/1	11.3	1.52	14.3	185.0	337.7	337.7	23.5	245	295
Filbert	3/0	85	6/1	12.8	1.52	15.7	232.9	416.8	416.8	29.6	280	335
Buckeye	4/0	107.2	6/1	14.3	1.52	17.3	293.7	515.7	515.7	37.3	320	395
Hackberry	266.8	135.2	18/1	15.5	1.52	18.5	371.1	516.4	516.4	31.2	395	475
Redbud	266.8	135.2	18/1	15.5	2.03	19.6	371.1	546.2	546.2	31.2	395	475
Mockernut	336.4	170.5	18/1	17.4	1.52	20.4	470.3	640.0	640.0	39.6	455	545
Aspen	336.4	170.5	18/1	17.4	2.03	21.5	470.3	672.7	672.7	39.6	455	545

(1) Code words shown are for PE covered products. Add the suffix "/XLPE" to the code word name to identify the code word for XLPE products. Example Walnut/XLPE.

(2) The ampacity rating is based on a conductor temperature of 75°C at 60 Hz and the following conditions, 32°C ambient temperature, 1.98 ft/sec (0.6 m/sec) crosswind (90° to conductor), 0.91 coefficient of emissivity, 0.95 coefficient of absorptivity, 42° northern latitude, sea level elevation, 90° azimuth of line (East-West), clear atmosphere, and a date and time of noon on July 1 (resulting in 95.0 W/ft<sup>2</sup> of solar and sky radiated heat). Actual ampacity will differ based on local conditions. For specific ampacities, please contact your General Cable sales representative.

(3) The ampacity rating is based on a conductor temperature of 90°C at 60 Hz and the following conditions, 32°C ambient temperature, 1.98 ft/sec (0.6 m/sec) crosswind (90° to conductor), 0.91 coefficient of emissivity, 0.95 coefficient of absorptivity, 42° northern latitude, sea level elevation, 90° azimuth of line (East-West), clear atmosphere, and a date and time of noon on July 1 (resulting in 95.0 W/ft<sup>2</sup> of solar and sky radiated heat). Actual ampacity will differ based on local conditions. For specific ampacities, please contact your General Cable sales representative.

Dimensions and weights not designated minimum or maximum are nominal values and subject to manufacturing tolerances. In this context, weight means mass.



# Covered Overhead Conductor — Line Wire

## Single Conductor LLDPE or XLPE Covered Line Wire

### COVERED ASC ALUMINUM CONDUCTOR, CONCENTRIC-LAY-STRANDED

CODE WORD (1)	CONDUCTOR SIZE		NO. OF WIRES	CONDUCTOR O.D. (mm)	COVER THKN. (mm)	CABLE O.D. (mm)	NOMINAL MASS KG/KM (2)			RATED STRENGTH kN	AMPACITY	
	AWG or kcmil	mm <sup>2</sup>					AL	TOTAL			PE (2)	XLPE (3)
								PE	XLPE			
Apple	#6	13.3	1	4.11	0.76	5.69	36.5	49.7	49.7	2.18	95	110
Plum	#6	13.3	7	4.68	0.76	6.22	36.5	51.5	51.5	2.61	95	110
Pear	#4	21.1	1	5.19	0.76	6.76	57.7	74.9	74.9	3.47	125	150
Apricot	#4	21.1	7	5.88	0.76	7.44	57.7	77.4	77.4	4.12	125	150
Cherry	#2	33.6	1	6.54	1.14	8.89	92.0	123.8	123.8	5.38	165	200
Peach	#2	33.6	7	7.41	1.14	9.75	92.0	128.1	128.1	6.21	165	200
Nectarine	#1	42.4	7	8.34	1.14	10.7	116.3	157.0	157.0	7.44	185	215
Quince	1/0	53.5	7	9.36	1.52	12.5	146.6	201.7	201.7	9.10	220	260
Orange	2/0	67.4	7	10.5	1.52	13.6	185.0	246.4	246.4	11.4	260	310
Fig	3/0	85.0	7	11.8	1.52	14.9	232.9	302.3	302.3	14.0	295	350
Olive	4/0	107.2	7	13.3	1.52	16.4	293.7	371.0	371.0	17.7	340	405
Mulberry	266.8	135.2	19	15.1	1.52	18.2	372.1	456.9	456.9	23.0	390	470
Silverbelt	266.8	135.2	19	15.1	2.03	19.2	372.1	485.2	485.2	23.0	390	470
Anona	336.4	170.5	19	16.9	1.52	20.0	470.3	564.0	564.0	29.0	450	545
Crabapple	336.4	170.5	19	16.9	2.03	21.1	470.3	595.3	595.3	29.0	445	535
Chinquapin	350	177.4	19	17.3	1.52	20.4	488.7	584.9	584.9	30.2	460	555
Ginko	350	177.4	19	17.3	2.03	21.4	488.7	616.1	616.1	30.2	460	555
Moles	397.5	201.4	19	18.4	2.03	22.5	553.1	690.5	690.5	34.2	495	595
Ash	400	202.7	19	18.5	2.03	22.6	559.1	695.0	695.0	34.5	495	600
Huckleberry	477	241.7	37	20.2	2.03	24.4	665.5	815.5	815.5	42.2	555	670
Paw Paw	556.5	282.0	37	21.8	2.03	26.0	781.0	939.1	939.1	48.1	605	735
Breadfruit	636	322.3	61	23.3	2.41	28.3	891.1	1088	1088	57.8	650	790
Persimmon	795	402.8	61	26.1	2.41	31.0	1117	1333	1333	70.5	743	918
Grapefruit	1033.5	523.7	61	29.8	2.41	34.7	1455	1700	1700	89.2	800	980
Mango	1590	805.7	61	36.9	2.79	42.6	2233	2588	2588	133	1110	1370

### COVERED ASC ALUMINUM CONDUCTOR, COMPACT-LAY-STRANDED

CODE WORD (1)	CONDUCTOR SIZE		NO. OF WIRES	CONDUCTOR O.D. (mm)	COVER THKN. (mm)	CABLE O.D. (mm)	NOMINAL MASS KG/KM (2)			RATED STRENGTH kN	AMPACITY	
	AWG or kcmil	mm <sup>2</sup>					AL	TOTAL			PE (2)	XLPE (3)
								PE	XLPE			
Bay	#6	13.3	7	4.28	0.76	5.81	36.5	55.8	55.8	2.59	95	110
Hop	#4	21.1	7	5.41	0.76	6.93	57.7	82.0	82.0	4.12	125	145
Sloe	#2	33.6	7	6.81	1.14	9.10	92.0	121.7	121.7	6.22	165	195
Alder	#1	42.4	7	7.59	1.14	9.90	116.3	149.3	149.3	7.42	190	225
Aspen	1/0	53.5	7	8.53	1.52	11.6	146.6	193.6	193.6	9.10	215	255
Thorn	2/0	67.4	7	9.55	1.52	12.6	185.0	236.9	236.9	11.4	255	305
Barwood	3/0	85.0	7	10.7	1.52	13.8	232.9	291.2	291.2	14.0	285	340
Camwood	3/0	85.0	18	10.7	1.52	13.8	232.9	292.3	292.3	15.7	285	340
Dogwood	4/0	107.2	7	12.1	1.52	15.1	293.7	359.0	359.0	17.7	330	395
Oakwood	4/0	107.2	18	12.1	1.52	15.1	293.7	360.4	360.4	18.8	330	395
-none-	250	126.7	7	13.2	1.52	16.3	346.3	418.2	418.2	20.9	365	440
Redwood	266.8	135.2	7	13.6	1.52	16.7	371.1	440.5	440.5	22.2	385	460
Corkwood	266.8	135.2	18	13.6	1.52	16.7	372.1	442.0	442.0	22.3	385	460
Hornbeam	300	152.0	18	14.5	1.52	17.5	419.0	492.6	492.6	25.8	410	480
Ironwood	336.4	170.5	18	15.3	1.52	18.4	468.8	546.2	546.2	29.0	440	530
Beachwood	397.5	201.4	18	16.7	1.52	19.8	555.1	638.4	638.4	33.2	490	590
Buttonwood	477	241.7	18	18.3	2.03	22.4	665.2	790.2	790.2	39.9	540	650
-none-	500	253.4	18	18.7	2.03	22.8	698.0	824.5	824.5	41.8	555	670

(1) Code words shown are for PE covered products. Add the suffix "XLPE" to the code word name to identify the code word for XLPE products. Example Walnut/XLPE.  
 (2) The ampacity rating is based on a conductor temperature of 75°C at 60 Hz and the following conditions, 32°C ambient temperature, 1.98 ft/sec (0.6 m/sec) crosswind (90° to conductor), 0.91 coefficient of emissivity, 0.95 coefficient of absorptivity, 42° northern latitude, sea level elevation, 90° azimuth of line (East-West), clear atmosphere, and a date and time of noon on July 1 (resulting in 95.0 W/ft<sup>2</sup> of solar and sky radiated heat). Actual ampacity will differ based on local conditions. For specific ampacities, please contact your General Cable sales representative.  
 (3) The ampacity rating is based on a conductor temperature of 90°C at 60 Hz and the following conditions, 32°C ambient temperature, 1.98 ft/sec (0.6 m/sec) crosswind (90° to conductor), 0.91 coefficient of emissivity, 0.95 coefficient of absorptivity, 42° northern latitude, sea level elevation, 90° azimuth of line (East-West), clear atmosphere, and a date and time of noon on July 1 (resulting in 95.0 W/ft<sup>2</sup> of solar and sky radiated heat). Actual ampacity will differ based on local conditions. For specific ampacities, please contact your General Cable sales representative.  
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# Covered Overhead Conductor — Line Wire

## Single Conductor LLDPE or XLPE Covered Line Wire

### COVERED MHD COPPER CONDUCTOR, CONCENTRIC-LAY-STRANDED

CODE WORD (1)	CONDUCTOR SIZE		NO. OF WIRES	CONDUCTOR O.D. (mm)	COVER THKN. (mm)	CABLE O.D. (mm)	NOMINAL MASS KG/KM			RATED STRENGTH kN	AMPACITY	
	AWG OR kcmil	mm <sup>2</sup>					CU	TOTAL			PE (2)	XLPE (3)
								PE	XLPE			
<b>MEDIUM HARD DRAWN COPPER</b>												
-none-	4	21.1	7	5.89	0.76	7.42	189.9	210.4	210.4	7.4	160	190
-none-	2	33.6	7	7.42	1.14	9.70	302.4	339.8	339.8	11.6	210	250
-none-	1/0	53.5	7	9.35	1.52	12.4	481.7	538.1	538.1	18.2	275	330
-none-	2/0	67.4	19	10.6	1.52	13.7	606.6	671.5	671.5	23.7	320	380
-none-	4/0	107.2	19	13.4	1.52	16.4	965.0	1048	1048	37.0	425	510

(1) Code words shown are for PE covered products. Add the suffix "/XLPE" to the code word name to identify the code word for XLPE products. Example Walnut/XLPE.

(2) The ampacity rating is based on a conductor temperature of 75°C at 60 Hz and the following conditions, 32°C ambient temperature, 1.98 ft/sec (0.6 m/sec) crosswind (90° to conductor), 0.91 coefficient of emissivity, 0.95 coefficient of absorptivity, 42° northern latitude, sea level elevation, 90° azimuth of line (East-West), clear atmosphere, and a date and time of noon on July 1 (resulting in 95.0 W/ft<sup>2</sup> of solar and sky radiated heat). Actual ampacity will differ based on local conditions. For specific ampacities, please contact your General Cable sales representative.

(3) The ampacity rating is based on a conductor temperature of 90°C at 60 Hz and the following conditions, 32°C ambient temperature, 1.98 ft/sec (0.6 m/sec) crosswind (90° to conductor), 0.91 coefficient of emissivity, 0.95 coefficient of absorptivity, 42° northern latitude, sea level elevation, 90° azimuth of line (East-West), clear atmosphere, and a date and time of noon on July 1 (resulting in 95.0 W/ft<sup>2</sup> of solar and sky radiated heat). Actual ampacity will differ based on local conditions. For specific ampacities, please contact your General Cable sales representative.

Dimensions and weights not designated minimum or maximum are nominal values and subject to manufacturing tolerances. In this context, weight means mass.