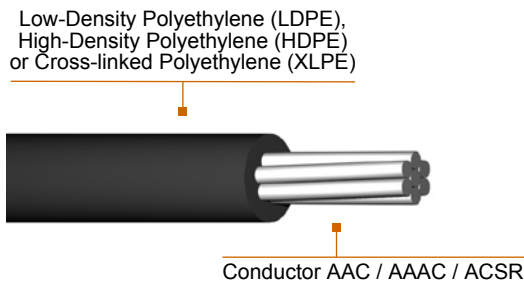


Covered Line Wire

Aluminum Covered Line Wire



Detail Description or Construction

Conductor

Aluminum alloy 1350-H19, 6201-T81,
or ACSR conductors

Insulation

Covered for weather proofing with Low-Density (LD) Polyethylene, High-Density Polyethylene (HD) or Cross-Linked Polyethylene (XLPE)

Application

Used primarily for overhead
and distribution lines.

Standards / Testing 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 Alloy Conductors.
- B-498 Zinc-Coated Steel Core Wire for Aluminum Conductors, Steel Reinforced (ACSR).
- Covered Line conductors meet all applicable requirements of ICEA S-70-547.

Marking

PHELPS DODGE - CONDUCTOR TYPE
AND SIZE - 600 V - INSULATION TYPE -
YEAR OF MANUFACTURE.

Installation

Installed on insulators, otherwise treated
as bare conductor in overhead lines.



Covered Line Wire

Aluminum Covered Line Wire

Code Word	Size	No. of Wires	Insulation Thickness	Nominal Diameter		Rated Strength	Nominal Weight				Ampacity	Standard Package	
				in			lbs / 1000'					Coils	Reels
	AWG or Kcmil		mils	Bare	OD	lbs	Aluminum	Total					
								LDPE	HDPE	XLPE	A	ft	ft
AAC													
Plum	6	7	30	0.184	0.244	563	24.6	34.04	34.45	34.45	100	4000	10100
Apricot	4	7	30	0.225	0.285	881	39.1	50.78	51.29	51.29	135	2500	7000
Peach	2	7	45	0.292	0.382	1,350	62.2	84.73	85.71	85.71	180	1500	7500
Nectarine	1	7	45	0.332	0.452	1,740	78.4	112.43	113.91	113.91	210	1200	6000
Quince	1/0	7	60	0.368	0.488	1,990	99.1	136.88	138.52	138.52	240	1000	4700
Haw	1/0	19	60	0.373	0.493	2,160	99.1	137.41	139.07	139.07	240	1000	4700
Orange	2/0	7	60	0.464	0.584	2,510	125	173.3	175.4	175.4	280	--	3800
Ironwood	2/0	19	60	0.419	0.539	2,670	125	168.27	170.15	170.15	280	--	3800
Fig	3/0	7	60	0.522	0.642	3,035	157	212.03	214.41	214.41	320	--	4400
Lemon	3/0	19	60	0.47	0.59	3,310	157	205.98	208.11	208.11	320	--	4400
Olive	4/0	7	60	0.522	0.642	3,810	199	254.03	256.41	256.41	370	--	3500
Pomegranate	4/0	19	60	0.528	0.648	4,020	199	254.74	257.16	257.16	370	--	3800
Sassafras	250	19	60	0.574	0.694	4,505	234.3	295.59	298.25	298.25	420	--	3000
Mulberry	266.8	19	60	0.575	0.695	4,810	250.1	311.52	314.18	314.18	430	--	3000
Basswood	300	19	60	0.628	0.748	5,300	282	350.04	352.99	352.99	478	--	2500
Anona	336.4	19	60	0.666	0.786	5,945	315.5	388.43	391.59	391.59	495	--	2500
Chinquapin	350	19	60	0.678	0.798	6,150	328	402.5	405.73	405.73	525	--	2000
Molles	397.5	19	80	0.724	0.884	6,885	373	475.28	479.71	479.71	550	--	2000
Sumac	450	37	80	0.772	0.932	8,200	422	532.06	536.83	536.83	600	--	3300
Huckleberry	477	37	80	0.795	0.955	8,400	447	560.85	565.79	565.79	610	--	3300

The above data are approximate and subject to normal manufacturing tolerances. Ampacity ratings based on 75°C conductor temperature 25°C ambient temperature elevation - sea level, Emissivity 0,91 coefficient of absorpion 0,95, Termal resistivity of cov. The code words as given apply to conventional polyethylene cables. For cross-linked, the suffix XLPE should be added, such as "Walnut XLPE."



Covered Line Wire

Aluminum Covered Line Wire

Code Word	Size	No. of Wires	Insulation Thickness	Nominal Diameter		Rated Strength	Nominal Weight				Ampacity	Standard Package	
				in			lbs / 1000'					Coils	Reels
	AWG or Kcmil		mils	Bare	OD	lbs	Aluminum	Total					
								LDPE	HDPE	XLPE	A	ft	ft
AAAC													
Maple	6	7	30	0.198	0.258	1,110	28.5	40	41	41	78	2700	8800
Hornbeam	4	7	30	0.25	0.31	1,760	45.4	60	61	61.9	145	2000	6200
Linden	2	7	45	0.316	0.406	2,800	72.2	99	99	100	190	1000	6700
Oilnut	1/0	7	60	0.348	0.468	4,460	114.9	160	166	166	250	1000	4000
Waterash	2/0	7	60	0.447	0.567	5,390	144.9	196	203	203	290	--	3400
Shellbark	3/0	7	60	0.502	0.622	6,790	182.5	241	249	249	335	--	3400
Planetree	4/0	7	60	0.563	0.683	8,560	230.2	298	307	307	385	--	3000
ACSR													
Walnut	6	6/1	30	0.198	0.258	1,190	24.5	47	48	48	105	2700	8800
Butternut	4	6/1	30	0.25	0.31	1,860	39	72	72	73	135	2200	6200
Hickory	4	7/1	30	0.257	0.317	2,360	39	81	82	83	135	2000	6000
Pignut	2	6/1	45	0.316	0.406	2,850	62	118	119	120	180	1200	6700
Beech	2	7/1	45	0.329	0.419	3,640	62	134	134	136	180	1100	6700
Chestnut	1	6/1	45	0.55	0.445	3,550	78.2	146	147	148	210	1000	5300
Almond	1/0	6/1	60	0.398	0.518	4,380	98.6	190	191	193	235	1000	4000
Pecan	2/0	6/1	60	0.447	0.567	5,300	124.3	234	235	235	290	--	3400
Filbert	3/0	6/1	60	0.502	0.622	6,620	156.8	289	291	294	305	--	3900
Buckeye	4/0	6/1	60	0.563	0.683	8,350	197.7	357	360	363	345	--	3000
Hackberry	266.8	18/1	60	0.609	0.729	6,880	250.4	353	355	359	356	--	2600

The above data are approximate and subject to normal manufacturing tolerances. Ampacity ratings based on 75°C conductor temperature 25°C ambient temperature elevation - sea level, Emissivity 0,91 coefficient of absorpion 0,95, Termal resistivity of cov. The code words as given apply to conventional polyethylene cables. For cross-linked, the suffix XLPE should be added, such as "Walnut XLPE."



Covered Line Wire

Aluminum Covered Line Wire

Code Word	Size	No. of Wires	Insulation Thickness	Nominal Diameter		Rated Strength	Nominal Weight				Ampacity	Standard Package	
				mm			kg / km					Coils	Reels
	AWG or Kcmil			mm	Bare		OD	kg	Aluminum	Total			
										LDPE		HDPE	XLPE
AAC													
Plum	6	7	0.762	4.674	6.198	255	36.61	50.66	51.27	51.27	100	1000	3000
Apricot	4	7	0.762	5.715	7.239	400	58.19	75.57	76.33	76.33	135	500	2000
Peach	2	7	1.143	7.417	9.703	612	92.56	126.09	127.55	127.55	180	500	2000
Nectarine	1	7	1.143	8.433	11.481	789	116.67	167.31	169.52	169.52	210	305	1500
Quince	1/0	7	1.524	9.347	12.395	903	147.48	203.70	206.14	206.14	240	305	1000
Haw	1/0	19	1.524	9.474	12.522	980	147.48	204.49	206.96	206.96	240	305	1000
Orange	2/0	7	1.524	11.786	14.834	1,139	186.02	257.90	261.02	261.02	280	--	1000
Ironwood	2/0	19	1.524	10.643	13.691	1,211	186.02	250.41	253.21	253.21	280	--	1000
Fig	3/0	7	1.524	13.259	16.307	1,377	233.64	315.53	319.08	319.08	320	--	1000
Lemon	3/0	19	1.524	11.938	14.986	1,501	233.64	306.53	309.70	309.70	320	--	1000
Olive	4/0	7	1.524	13.259	16.307	1,728	296.14	378.04	381.58	381.58	370	--	1000
Pomegranate	4/0	19	1.524	13.411	16.459	1,823	296.14	379.09	382.69	382.69	370	--	1000
Sassafras	250	19	1.524	14.580	17.628	2,043	348.68	439.88	443.84	443.84	420	--	500
Mulberry	266.8	19	1.524	14.605	17.653	2,182	372.19	463.59	467.55	467.55	430	--	500
Basswood	300	19	1.524	15.951	18.999	2,404	419.66	520.91	525.30	525.30	478	--	500
Anona	336.4	19	1.524	16.916	19.964	2,697	469.51	578.04	582.75	582.75	495	--	500
Chinquapin	350	19	1.524	17.221	20.269	2,790	488.12	598.98	603.79	603.79	525	--	500
Molles	397.5	19	2.032	18.390	22.454	3,123	555.08	707.29	713.88	713.88	550	--	500
Sumac	450	37	2.032	19.609	23.673	3,719	628.00	791.79	798.89	798.89	600	--	1000
Huckleberry	477	37	2.032	20.193	24.257	3,810	665.21	834.63	841.98	841.98	610	--	1000

The above data are approximate and subject to normal manufacturing tolerances, Ampacity ratings based on 75°C conductor temperature 25°C ambient temperature elevation - sea level, Emissivity 0.91 coefficient of absorption 0.95, Thermal resistivity of cov. The code words as given apply to conventional polyethylene cables. For cross-linked, the suffix XLPE should be added, such as "Walnut XLPE."



Covered Line Wire

Aluminum Covered Line Wire

Code Word	Size	No. of Wires	Insulation Thickness	Nominal Diameter		Rated Strength	Nominal Weight				Ampacity	Standard Package	
	AWG or Kcmil			mm			kg / km					Coils	Reels
				Bare	OD		Aluminum	Total					
								LDPE	HDPE	XLPE			
AAAC													
Maple	6	7	0.762	5.029	6.553	503	42.41	59.53	61.01	61.01	78	823	2500
Hornbeam	4	7	0.762	6.350	7.874	798	67.56	89.29	90.78	92.12	145	500	1500
Linden	2	7	1.143	8.026	10.312	1,270	107.44	147.33	147.33	148.82	190	305	2000
Oilnut	1/0	7	1.524	8.839	11.887	2,023	170.99	238.11	247.03	247.03	250	305	1000
Waterash	2/0	7	1.524	11.354	14.402	2,445	215.63	291.68	302.01	302.01	290	--	1000
Shellbark	3/0	7	1.524	12.751	15.799	3,080	271.59	358.65	370.55	370.55	335	--	1000
Planetree	4/0	7	1.524	14.300	17.348	3,883	342.57	443.47	456.86	456.86	385	--	914
ACSR													
Walnut	6	6/1	0.762	5.029	6.553	540	36.46	69.94	71.43	71.43	105	823	2500
Butternut	4	6/1	0.762	6.350	7.874	844	58.04	107.15	107.15	108.64	135	500	1889
Hickory	4	7/1	0.762	6.528	8.052	1,070	58.04	120.54	122.03	123.52	135	500	1828
Pignut	2	6/1	1.143	8.026	10.312	1,293	92.27	175.60	177.09	178.58	180	366	2000
Beech	2	7/1	1.143	8.357	10.643	1,651	92.27	199.41	199.41	202.39	180	335	2000
Chestnut	1	6/1	1.143	13.970	11.303	1,610	116.37	217.27	218.76	220.25	210	305	1500
Almond	1/0	6/1	1.524	10.109	13.157	1,987	146.73	282.75	284.24	287.21	235	305	1000
Pecan	2/0	6/1	1.524	11.354	14.402	2,404	184.98	348.23	349.72	349.72	290	--	1000
Filbert	3/0	6/1	1.524	12.751	15.799	3,003	233.34	430.08	433.05	437.52	305	--	1000
Buckeye	4/0	6/1	1.524	14.300	17.348	3,787	294.21	531.27	535.74	540.20	345	--	914
Hackberry	266.8	18/1	1.524	15.469	18.517	3,121	372.63	525.32	528.30	534.25	356	--	500

The above data are approximate and subject to normal manufacturing tolerances, Ampacity ratings based on 75°C conductor temperature 25°C ambient temperature elevation - sea level, Emissivity 0.91 coefficient of absorption 0.95, Thermal resistivity of cov. The code words as given apply to conventional polyethylene cables. For cross-linked, the suffix XLPE should be added, such as "Walnut XLPE."