

Alcan Aluminum Multiplexed Overhead Service Cable

Alcan Cable's Multiplexed Overhead Service and Secondary Cables provide exceptional performance and reliability. Alcan provides a full range of overhead service and secondary cables available in constructions of one or more insulated conductors and one bare neutral conductor. Insulation on the phase conductors can be black low density crosslinked polyethylene (XLPE) or black high molecular weight – low density polyethylene (PE) depending upon the application. To ensure exceptional product quality, Alcan Multiplexed Overhead Service and Secondary cables meet or exceed requirements of ANSI/ICEA S-76-474.

The bare neutral conductor is available as:

1. Stranded All Aluminum (AAC); ASTM – B-231
2. Aluminum Conductor Steel Reinforced (ACSR); ASTM – B-232
3. Aluminum Alloy Conductor 6201 (AAAC); ASTM – B-399

Product Application and Features:

- Designed for use as a service drop from the power pole to the service entrance or as a secondary cable from pole to pole.
- XLPE insulated cables are rated for 90°C operation.
- Polyethylene insulated cables are rated for 75°C operation.



This catalog is intended to provide introductory technical data to aid the correct selection of wire and cable for permanent installation. Wire and cable products supplied by Alcan comply with the codes, standards and product specifications as indicated in this catalog. Weights and measurements are subject to manufacturing tolerances and product design changes. Consequently, Alcan does not accept responsibility for costs incurred by a purchaser as a result of weights and measurements not conforming exactly to those indicated.

Aluminum Multiplexed Overhead Service and Secondary Cable

Product Construction:

Alcan Multiplexed Overhead Service and Secondary Cables are constructed of:

- Phase conductors of either solid or compressed stranded 1350 H-19 (hard drawn) aluminum complying with ASTM-B230 and ASTM-B231.
- High molecular weight-low density polyethylene or black low density crosslinked polyethylene insulation on the phase conductor. High Density Polyethylene insulation is available upon request.
- A bare neutral conductor of stranded all aluminum (AAC), aluminum conductor steel reinforced (ACSR), or aluminum alloy conductor (6201).
- One or more insulated conductors twisted around the neutral conductor with a right hand lay length of 25 to 60 times the diameter of one phase conductor.

Product Markings:

Each cable assembly will bear the following surface markings at intervals not to exceed 24 inches:

- Alcan, (Plant of Manufacture), (Insulation Type), (Year of Manufacture).





Aluminum Multiplexed Overhead Service and Secondary Cables

AAC Neutral

Duplex Overhead Service Drop Cable

Code Word	PHASE CONDUCTORS				BARE NEUTRAL		NOMINAL WEIGHT (LBS. / 1000 FT.)				AMPACITY* (Amps)		STANDARD PACKAGE		
	Size & Number of Strands	Insulation Thickness (Mils)	Nominal Diameter		Size & Number of Strands	Rated Strength (Lbs.)	Aluminum	Compound		Total		PE	XLPE	Coil (Ft.)	Reel (Ft.)
			Bare (Mils)	O.D. (Mils)				PE	XLPE	PE	XLPE				
COLLIE	6-7	45	178	268	6-7	563	50	14	15	64	65	70	85	1000	3300
SPANIEL	4-7	45	225	315	4-7	881	79	18	19	97	98	90	115	1000	2200

*40°C ambient, conductor temperature - 90°C XLPE, 75°C PE; sun and wind

Triplex Overhead Service Drop Cable

Code Word	PHASE CONDUCTORS				BARE NEUTRAL		NOMINAL WEIGHT (LBS. / 1000 FT.)				AMPACITY* (Amps)		STANDARD PACKAGE		
	Size & Number of Strands	Insulation Thickness (Mils)	Nominal Diameter		Size & Number of Strands	Rated Strength (Lbs.)	Aluminum	Compound		Total		PE	XLPE	Coil (Ft.)	Reel (Ft.)
			Bare (Mils)	O.D. (Mils)				PE	XLPE	PE	XLPE				
OYSTER	4-7	45	225	315	4-7	881	118	35	39	153	157	90	115	500	1500
CLAM	2-7	45	283	373	2-7	1350	188	45	49	233	237	115	150	500	1800
MUREX	1/0-7	60	357	477	1/0-7	1990	299	75	81	374	380	155	200	500	1200
PURPURA	1/0-19	60	362	482	1/0-7	1990	299	70	76	369	375	155	200	500	1200
NASSA	2/0-7	60	401	521	2/0-7	2510	377	85	92	462	469	180	230	-	1500
TROPHON	2/0-19	60	406	526	2/0-7	2510	377	78	84	455	461	180	230	-	1500
PORTUNUS	4/0-19	60	512	632	4/0-19	4020	599	97	106	696	705	235	310	-	1000
NANNYNOSE	336.4-19	80	646	806	336.4-19	6150	952	164	178	1116	1130	290	380	-	1000

*40°C ambient, conductor temperature - 90°C XLPE, 75°C PE; sun and wind

Quadruplex Overhead Service Drop Cable

Code Word	PHASE CONDUCTORS				BARE NEUTRAL		NOMINAL WEIGHT (LBS. / 1000 FT.)				AMPACITY* (Amps)		STANDARD PACKAGE		
	Size & Number of Strands	Insulation Thickness (Mils)	Nominal Diameter		Size & Number of Strands	Rated Strength (Lbs.)	Aluminum	Compound		Total		PE	XLPE	Coil (Ft.)	Reel (Ft.)
			Bare (Mils)	O.D. (Mils)				PE	XLPE	PE	XLPE				
PINTO	4-7	45	225	315	4-7	881	158	53	58	211	216	80	100	500	1700
MUSTANG	2-7	45	283	373	2-7	1350	251	67	73	318	324	105	135	-	1800
CRIOLLO	1/0-19	60	362	482	1/0-7	1990	398	104	113	502	511	135	180	-	1200
PERCHERON	2/0-19	60	406	526	2/0-7	2510	502	116	126	618	628	155	210	-	1500
HANOVERIAN	3/0-19	60	456	576	3/0-19	3310	633	130	141	763	774	180	240	-	1300
SINGLEFOOT	4/0-7	60	506	626	4/0-7	3830	798	163	178	961	976	205	280	-	1100
OLDENBURG	4/0-19	60	512	632	4/0-7	3830	798	146	159	944	957	205	280	-	1100
LIPPIZANER	336.4-19	80	646	806	336.4-19	6150	1270	246	267	1516	1537	240	330	-	1000

*40°C ambient, conductor temperature - 90°C XLPE, 75°C PE; sun and wind

Note: Add /XLP to code words to designate a crosslinked polyethylene covering. Add /HD to code words to designate a high density polyethylene covering.

Aluminum Multiplexed Overhead Service and Secondary Cables



ACSR Neutral

Duplex Overhead Service Drop Cable

Code Word	PHASE CONDUCTORS				BARE NEUTRAL		NOMINAL WEIGHT (LBS. / 1000 FT.)						AMPACITY* (Amps)		STANDARD PACKAGE	
	Size & Number of Strands	Insulation Thickness (Mils)	Nominal Diameter		Size & Number of Strands	Rated Strength (Lbs.)	Aluminum	Steel	Compound		Total		PE	XLPE	Coil (Ft.)	Reel (Ft.)
			Bare (Mils)	O.D. (Mils)					PE	XLPE	PE	XLPE				
SETTER	6 solid	45	162	252	6-6/1	1190	49	12	12	13	73	74	70	85	1000	3300
SHEPHERD	6-7	45	178	268	6-6/1	1190	50	12	14	15	76	77	70	85	1000	3300
TERRIER	4-7	45	225	315	4-6/1	1860	79	18	18	19	115	116	90	115	1000	2400

*40°C ambient, conductor temperature - 90°C XLPE, 75°C PE; sun and wind

Triplex Overhead Service Drop Cable

Code Word	PHASE CONDUCTORS				BARE NEUTRAL		NOMINAL WEIGHT (LBS. / 1000 FT.)						AMPACITY* (Amps)		STANDARD PACKAGE	
	Size & Number of Strands	Insulation Thickness (Mils)	Nominal Diameter		Size & Number of Strands	Rated Strength (Lbs.)	Aluminum	Steel	Compound		Total		PE	XLPE	Coil (Ft.)	Reel (Ft.)
			Bare (Mils)	O.D. (Mils)					PE	XLPE	PE	XLPE				
VOLUTA	6-7	45	178	268	6-6/1	1190	74	12	28	31	114	117	70	85	1000	2200
STROMBUS	4-7	45	225	315	6-6/1	1190	103	12	35	39	150	154	90	115	500	1500
WHELK	4-solid	45	204	294	4-6/1	1860	116	18	29	31	163	165	90	115	500	1700
PERIWINKLE	4-7	45	225	315	4-6/1	1860	118	18	35	39	171	175	90	115	500	1500
COCKLE	2-7	45	283	373	4-6/1	1860	164	18	45	49	227	231	115	150	500	1800
CONCH	2-7	45	283	373	2-6/1	2850	188	29	45	49	262	266	115	150	500	1800
JANTHINA	1/0-7	60	357	477	2-6/1	2850	262	29	75	81	366	372	155	200	500	1200
RANELLA	1/0-19	60	362	482	2-6/1	2850	262	29	70	76	361	367	155	200	500	1200
NERITINA	1/0-7	60	357	477	1/0-6/1	4380	298	47	75	81	420	426	155	200	500	1200
CENIA	1/0-19	60	362	482	1/0-6/1	4380	298	47	70	76	415	421	155	200	500	1200
RUNCINA	2/0-7	60	401	521	2/0-6/1	5300	376	59	85	92	520	527	180	230	-	1500
TRITON	2/0-19	60	406	526	2/0-6/1	5300	376	59	78	84	513	519	180	230	-	1500
MURSA	3/0-19	60	456	576	3/0-6/1	6620	474	74	87	94	635	642	205	265	-	1300
CERAPUS	4/0-19	60	512	632	2/0-6/1	5300	524	59	97	106	680	689	235	310	-	1000
ZUZARA	4/0-19	60	512	632	4/0-6/1	8350	598	93	97	106	788	797	235	310	-	1000
COWRY	336.4-19	80	646	806	4/0-6/1	8350	834	93	164	178	1091	1105	290	380	-	1000
LIMPET	336.4-19	80	646	806	336.4-18/1	8700	952	50	164	178	1166	1180	290	380	-	1000

*40°C ambient, conductor temperature - 90°C XLPE, 75°C PE; sun and wind

Quadruplex Overhead Service Drop Cable

Code Word	PHASE CONDUCTORS				BARE NEUTRAL		NOMINAL WEIGHT (LBS. / 1000 FT.)						AMPACITY* (Amps)		STANDARD PACKAGE	
	Size & Number of Strands	Insulation Thickness (Mils)	Nominal Diameter		Size & Number of Strands	Rated Strength (Lbs.)	Aluminum	Steel	Compound		Total		PE	XLPE	Coil (Ft.)	Reel (Ft.)
			Bare (Mils)	O.D. (Mils)					PE	XLPE	PE	XLPE				
HACKNEY	4-7	45	225	315	4-6/1	1860	157	18	53	58	228	233	80	100	500	1700
PALOMINO	2-7	45	283	373	2-6/1	2850	250	29	67	73	346	352	105	135	-	1800
COSTENA	1/0-19	60	362	482	1/0-6/1	4380	398	47	104	113	549	558	135	180	-	1200
GRULLO	2/0-19	60	406	526	2/0-6/1	5300	502	59	116	126	677	687	155	210	-	1500
SUFFOLK	3/0-19	60	456	576	3/0-6/1	6620	632	74	130	141	836	847	180	240	-	1300
STALLION	4/0-7	60	506	626	4/0-6/1	8350	798	93	163	178	1054	1069	205	280	-	1100
APPALOOSA	4/0-19	60	512	632	4/0-6/1	8350	798	93	146	159	1037	1050	205	280	-	1100
GELDING	336.4-19	80	646	806	4/0-6/1	8350	1151	93	246	267	1490	1511	240	330	-	1000
BRONCO	336.4-19	80	646	806	336.4-18/1	8700	1270	50	246	267	1566	1587	240	330	-	1000

*40°C ambient, conductor temperature - 90°C XLPE, 75°C PE; sun and wind

Note: Add/XLP to code words to designate a crosslinked polyethylene covering. Add /HD to code words to designate a high density polyethylene covering.

Aluminum Multiplexed Overhead Service and Secondary Cables



6201 Neutral

Duplex Overhead Service Drop Cable

Code Word	PHASE CONDUCTORS				BARE NEUTRAL		NOMINAL WEIGHT (LBS. / 1000 FT.)				AMPACITY* (Amps)		STANDARD PACKAGE		
	Size & Number of Strands	Insulation Thickness (Mils)	Nominal Diameter		Size kcmil & Number of Strands	Rated Strength (Lbs.)	Aluminum	Compound		Total		PE	XLPE	Coil (Ft.)	Reel (Ft.)
			Bare (Mils)	O.D. (Mils)				PE	XLPE	PE	XLPE				
VIZSLA	6-7	45	178	268	30.58-7	1110	54	14	15	68	69	70	85	1000	3300
WHIPPET	4-7	45	225	315	48.69-7	1760	85	18	19	103	104	90	115	1000	2400

*40°C ambient, conductor temperature - 90°C XLPE, 75°C PE; sun and wind

Triplex Overhead Service Drop Cable

Code Word	PHASE CONDUCTORS				BARE NEUTRAL		NOMINAL WEIGHT (LBS. / 1000 FT.)				AMPACITY* (Amps)		STANDARD PACKAGE		
	Size & Number of Strands	Insulation Thickness (Mils)	Nominal Diameter		Size kcmil & Number of Strands	Rated Strength (Lbs.)	Aluminum	Compound		Total		PE	XLPE	Coil (Ft.)	Reel (Ft.)
			Bare (Mils)	O.D. (Mils)				PE	XLPE	PE	XLPE				
ARTEMIA	4-solid	45	204	294	30.58-7	1110	106	29	31	135	137	90	115	1000	1700
CRAB	4-7	45	225	315	30.58-7	1110	108	35	39	143	147	90	115	1000	1500
BARNACLES	4-7	45	225	315	48.69-7	1760	125	35	39	160	164	90	115	500	1500
SOLASTER	2-7	45	283	373	48.69-7	1760	171	45	49	216	220	115	150	500	1800
SHRIMP	2-7	45	283	373	77.47-7	2800	198	45	49	243	247	115	150	500	1800
SANDCRAB	1/0-7	60	357	477	77.47-7	2800	272	75	81	347	353	155	200	500	1200
ECHINUS	1/0-19	60	362	482	77.47-7	2800	272	70	76	342	348	155	200	500	1200
GAMMARUS	1/0-7	60	357	477	123.3-7	4270	316	75	81	391	392	155	200	500	1200
LEDA	1/0-19	60	362	482	123.3-7	4270	316	70	76	386	392	155	200	500	1200
DUNGENESE	2/0-7	60	401	521	155.4-7	5390	398	85	92	483	490	180	230	-	1500
CYCLOPS	2/0-19	60	406	526	155.4-7	5390	398	78	84	476	482	180	230	-	1500
KINGCRAB	4/0-7	60	506	626	246.9-7	8560	632	109	118	741	750	235	310	-	1000
ARCA	4/0-19	60	512	632	155.4-7	5390	544	97	106	641	650	235	310	-	1000
LEPAS	4/0-19	60	512	632	246.9-7	8560	630	97	106	727	736	235	310	-	1000
ARGONAUT	336.4-19	80	646	806	246.9-7	8560	868	164	178	1032	1046	290	380	-	1000
NAUTILUS	336.4-19	80	646	806	394.5-7	13300	1007	164	178	1171	1185	290	380	-	1000

*40°C ambient, conductor temperature - 90°C XLPE, 75°C PE; sun and wind

Quadruplex Overhead Service Drop Cable

Code Word	PHASE CONDUCTORS				BARE NEUTRAL		NOMINAL WEIGHT (LBS. / 1000 FT.)				AMPACITY* (Amps)		STANDARD PACKAGE		
	Size & Number of Strands	Insulation Thickness (Mils)	Nominal Diameter		Size kcmil & Number of Strands	Rated Strength (Lbs.)	Aluminum	Compound		Total		PE	XLPE	Coil (Ft.)	Reel (Ft.)
			Bare (Mils)	O.D. (Mils)				PE	XLPE	PE	XLPE				
ARABIAN	4-7	45	225	315	48.69-7	1760	164	53	58	217	222	80	100	500	1700
BELGIAN	2-7	45	283	373	77.47-7	2800	261	67	73	328	334	105	135	-	1800
SHETLAND	1/0-19	60	362	482	123.3-7	4270	415	104	113	519	528	135	180	-	1200
THOROUGHbred	2/0-19	60	406	526	155.4-7	5390	523	116	126	639	649	155	210	-	1500
TROTTER	3/0-19	60	456	576	195.4-7	6790	657	130	141	787	798	180	240	-	1300
WALKING	4/0-19	60	512	632	246.9-7	8560	830	146	159	976	989	205	280	-	1100
EXMOOR	336.4-19	80	646	806	246.9-19	8560	1182	246	267	1428	1449	240	330	-	1000
BRETON	336.4-19	80	646	806	394.5-19	13300	1324	246	267	1570	1591	240	330	-	1000

*40°C ambient, conductor temperature - 90°C XLPE, 75°C PE; sun and wind

Note: Add /XLP to code words to designate a crosslinked polyethylene covering. Add /HD to code words to designate a high density polyethylene covering.



Aluminum Multiplexed Overhead Service and Secondary Cables

Impedance Data

<i>Triplex Overhead Service Drop Cable</i>					
Phase	Neutral	AC RESISTANCE (OHMS/1000 FT.)			INDUCTIVE REACTANCE (OHMS/1000 FT.)
		25°C	50°C	75°C	X1
#6	#6	0.6725	0.7392	0.8059	0.0287
#4	#6	0.4227	0.4645	0.5064	0.0268
#4	#4	0.4227	0.4645	0.5064	0.0286
#2	#4	0.2655	0.2929	0.3182	0.0258
#2	#2	0.2655	0.2929	0.3182	0.0276
1/0	#2	0.1671	0.1837	0.2002	0.0252
1/0	1/0	0.1671	0.1837	0.2002	0.0269
2/0	2/0	0.1326	0.1456	0.1587	0.0264
3/0	3/0	0.1053	0.1157	0.1259	0.0261
4/0	4/0	0.0835	0.0917	0.1001	0.0257
336.4	4/0	0.0527	0.0578	0.0629	0.0233
336.4	336.4	0.0527	0.0578	0.0629	0.0248

NOTES: Neutral sizes are ACSR or AAAC
Soil (RHO) Resistivity = 100

<i>Quadruplex Overhead Service Drop Cable</i>					
Phase	Neutral	AC RESISTANCE (OHMS/1000 FT.)			INDUCTIVE REACTANCE (OHMS/1000 FT.)
		25°C	50°C	75°C	X1
#4	#4	0.4227	0.4645	0.5064	0.0290
#2	#2	0.2655	0.2929	0.3182	0.0280
1/0	1/0	0.1671	0.1837	0.2002	0.0273
2/0	2/0	0.1326	0.1456	0.1587	0.0266
3/0	3/0	0.1053	0.1157	0.1259	0.0264
4/0	4/0	0.0835	0.0917	0.1001	0.0260
336.4	4/0	0.0527	0.0578	0.0629	0.0240
336.4	336.4	0.0527	0.0578	0.0629	0.0251

NOTES: Neutral sizes are ACSR or AAAC
Soil (RHO) Resistivity = 100