



## SINGLE CORE CABLES

### Description

The single core cables are designed for distribution of electrical power with nominal voltage  $U_0/U$  ranging from 5KV to 46KV and frequency 50Hz. Single core cables are made of stranded copper or aluminium conductor, triple extruding insulating system consisting of thermosetting semi-conducting conductor shield, XLPE/TR-XLPE/EPR insulation and thermosetting semi-conducting insulation shield. There are a number of designs of metallic shields including the copper tape helically applied with overlap, copper wire shield, concentric neutral, longitudinally applied corrugated copper tape and metal sheath available, which are surrounded with fillers and grounding conductor, overall binder tape and overall PVC, LSZH or PE jacket.

### Standards

National Fire Protection Standard (NEPA 70): National Electric Code

AEIC CS8

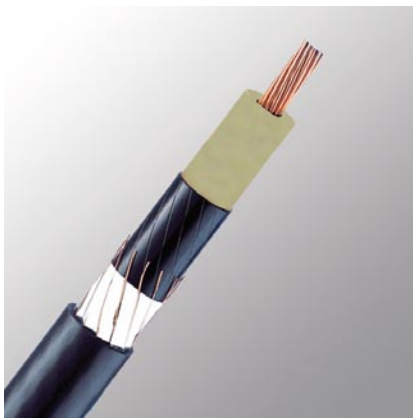
ICEA S-93-639 (NEMA WC74), Standard for shielded power cable 5KV-46KV

ICEA S-97-682

IEEE 1202 – Flame Testing of cables for use in cable tray

ICEA T29-520 Vertical

UL 1072 for medium voltage cables.



### Conductors

The conductor consists of uncoated Class B compressed concentric stranded aluminium alloy 1350 or soft drawn annealed copper meeting the requirement of ASTM B3. Unless otherwise specified, the conductor shall be supplied class B as per ASTM B496.

### Conductor Shield

Conductor shield consists of extruded thermosetting semi conducting compound which is free stripping from conductor and bonded to the insulation.



# Caledonian Medium Voltage Cables

## Insulation

The insulation is either XLPE or EPR extruded concentrically over the conductor. High dielectric strength tree retardant XLPE (TR-XLPE) can be offered as option to provide an optimum balance of mechanical and electrical properties, insuring resistance to treeing. 100% or 133% insulation level is available upon request. The insulation meets or exceeds electrical and physical requirements of ICEA S-96-659/NEMA WC71, and UL 1072.

## Insulation Shield

Insulation shield consists of extruded thermosetting semi-conducting compound with controlled adhesion to the insulation, providing required balance between electrical integrity and ease of stripping.

## Metallic Shielding

### 1) Copper Tape

For Copper tape shield, helically bare 5 mil copper tape shield over the insulation shield with minimum overlap of 20%. There are grounding conductor made of bare stranded copper conductor per each interstices, per UL, ICEA and AST

### 2) Wire Shield

Bare copper wire shield is evenly spaced with 5000 circular mils minimum per inch of core diameter. The shield insures a reliable shield that can be easily terminated.

### 3) Concentric Neutral

Either bare or tinned copper wire (#6 to #9AWG) is helically applied around the cores.

## Assembly

Cables are cabled together with a left hand lay and suitable filler to make the cable round. A binder tape is applied to maintain core geometry and mechanical stability. Fillers may be PP yarn, ramie yarn, plastics or other filler material.

## Armour (optional)

For armouring options, inner PVC jacket is applied over the binder type. Corrugated aluminium interlocking armour (AIA) is applied over the inner jacket.

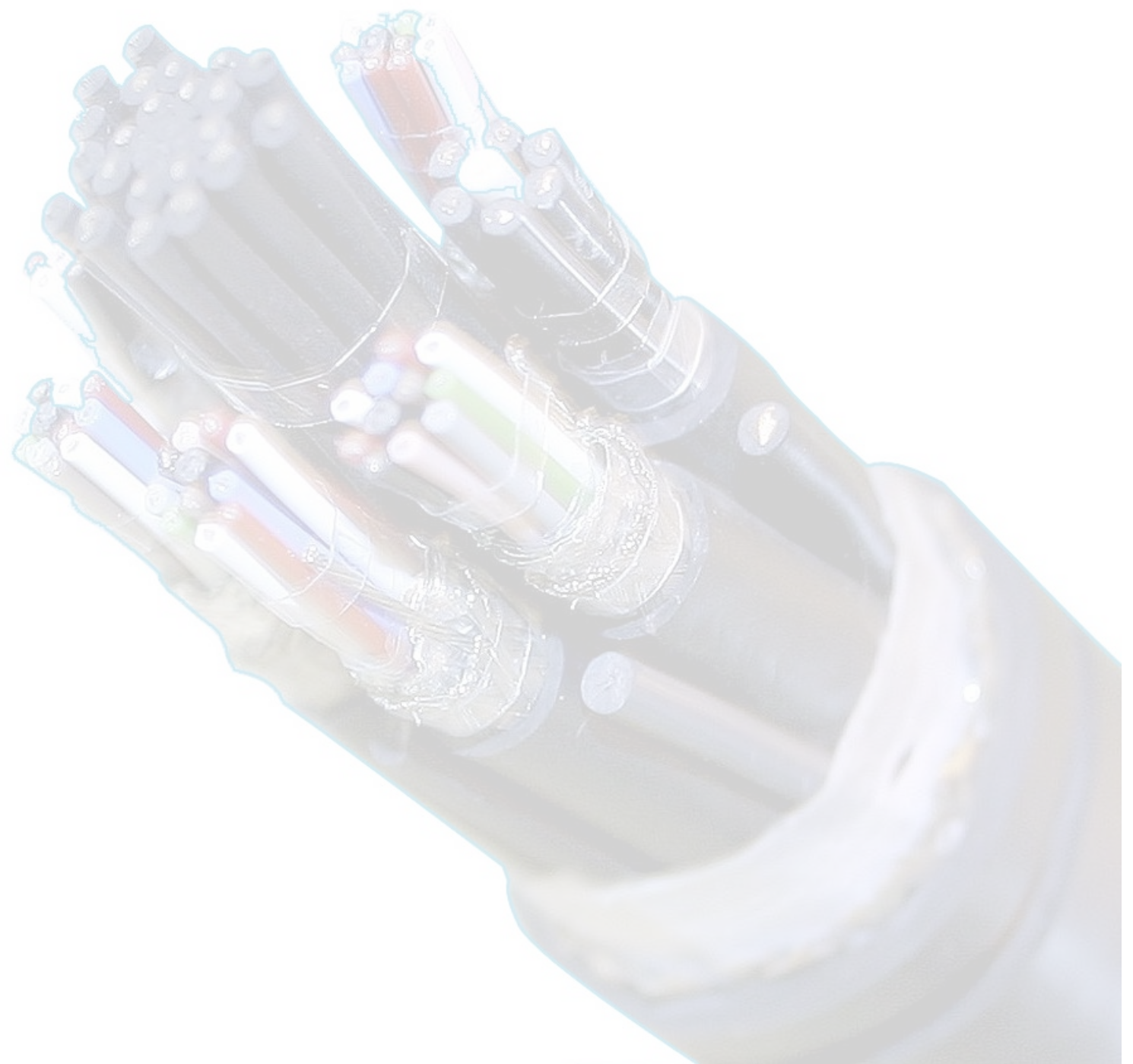
## Jacket

A protective sunlight and ozone resistant jacket of PVC is extruded for a tight fit over the welded armour or the core assembly.



## Options

- TR-XLPE insulation.
- Compact stranded conductor.
- Super smooth conductor shield.
- Zero or one grounding conductor.
- CPE, LLLPE, LSOH or low temperature PVC jacket.
- Oil resistant jacket.



# Addison Medium Voltage Cables



## EPR INSULATED CABLES MV-105 Wire Shielded Cables

5kV 100% Copper to ICEA Standard												
Conductor	Insulation Thickness (mm/mils)	Sheath Thickness (mm/mils)	Overall Diameter (mm/in.)		Cable Weight (kg/km / lbs/kft)				Ampacity (Amps)			
									90°C In Duct		90°C In Air	
			(D)		CU		AL		CU	AL	CU	AL
4 AWG	2.29/90	1.52/60	17.3	0.68	445	299	315	212	120	93	160	125
2 AWG	2.29/90	1.52/60	18.5	0.73	586	394	379	255	155	125	215	165
1 AWG	2.29/90	1.52/60	19.6	0.77	683	459	421	283	180	140	250	195
1/0 AWG	2.29/90	2.03/80	20.6	0.81	806	542	473	318	210	160	290	225
2/0 AWG	2.29/90	2.03/80	22.4	0.88	1001	673	585	393	235	185	330	260
3/0 AWG	2.29/90	2.03/80	23.6	0.93	1187	798	662	445	270	210	385	300
4/0 AWG	2.29/90	2.03/80	25.1	0.99	1418	953	759	510	310	245	445	350
250 MCM	2.29/90	2.03/80	26.2	1.03	1625	1092	848	570	345	270	495	385
350 MCM	2.29/90	2.03/80	28.7	1.13	2142	1440	1047	704	415	325	615	480
500 MCM	2.29/90	2.03/80	32.3	1.27	2924	1965	1363	916	505	400	775	605
750 MCM	2.29/90	2.03/80	37.1	1.46	4227	2841	1836	1234	630	505	1000	790
1000 MCM	2.29/90	2.79/110	41.1	1.62	5432	3651	2302	1547	720	590	1200	950
5kV 133% to ICEA Standard												
4 AWG	2.92/115	1.52/60	18.5	0.73	487	327	356	239	120	93	160	125
2 AWG	2.92/115	1.52/60	19.8	0.78	631	424	424	285	155	125	215	165
1 AWG	2.92/115	1.52/60	20.8	0.82	728	489	467	314	180	140	250	195
1/0 AWG	2.92/115	2.03/80	22.9	0.90	905	608	571	384	210	160	290	225
2/0 AWG	2.92/115	2.03/80	23.6	0.93	1053	708	637	428	235	185	330	260
3/0 AWG	2.92/115	2.03/80	25.1	0.99	1247	838	722	485	270	210	385	300
4/0 AWG	2.92/115	2.03/80	26.4	1.04	1479	994	818	550	310	245	445	350
250 MCM	2.92/115	2.03/80	27.4	1.08	1686	1133	909	611	345	270	495	385
350 MCM	2.92/115	2.03/80	30.0	1.18	2209	1485	1114	749	415	325	615	480
500 MCM	2.92/115	2.03/80	33.5	1.32	2999	2016	1439	967	505	400	775	605
750 MCM	2.92/115	2.03/80	38.4	1.51	4315	2900	1925	1294	630	505	1000	790
1000 MCM	2.92/115	2.79/110	43.9	1.73	5672	3812	2541	1708	720	590	1200	950



# Caledonian Medium Voltage Cables

8kV 100% to ICEA Standard												
Conductor	Insulation Thickness (mm/mils)	Sheath Thickness (mm/mils)	Overall Diameter (mm/in.)		Cable Weight (kg/km / lbs/kft)				Ampacity (Amps)			
									90°C In Duct		90°C In Air	
			(D)		CU		AL		CU	AL	CU	AL
4 AWG	2.92/115	1.52/60	18.5	0.73	487	327	356	239	125	98	165	130
2 AWG	2.92/115	1.52/60	19.8	0.78	631	424	424	285	165	130	215	170
1 AWG	2.92/115	2.03/80	20.8	0.82	728	489	467	314	185	145	250	195
1/0 AWG	2.92/115	2.03/80	22.9	0.90	905	608	571	384	215	165	290	225
2/0 AWG	2.92/115	2.03/80	23.6	0.93	1053	708	637	428	245	190	335	260
3/0 AWG	2.92/115	2.03/80	25.1	0.99	1247	838	722	485	275	215	385	300
4/0 AWG	2.92/115	2.03/80	26.4	1.04	1479	994	818	550	315	245	445	350
250 MCM	2.92/115	2.03/80	27.4	1.08	1686	1133	909	611	345	270	495	385
350 MCM	2.92/115	2.03/80	30.0	1.18	2209	1485	1114	749	415	330	610	480
500 MCM	2.92/115	2.03/80	33.5	1.32	2999	2016	1439	967	500	400	765	600
750 MCM	2.92/115	2.03/80	38.4	1.51	4315	2900	1925	1294	610	490	990	780
1000 MCM	2.92/115	2.79/110	43.9	1.73	5672	3812	2541	1708	690	565	1185	940
8kV 133% to ICEA Standard												
2 AWG	3.56/140	2.03/80	21.1	0.83	680	457	473	318	165	130	215	170
1 AWG	3.56/140	2.03/80	23.1	0.91	827	556	567	381	185	145	250	195
1/0 AWG	3.56/140	2.03/80	24.4	0.96	963	647	623	419	215	165	290	225
2/0 AWG	3.56/140	2.03/80	25.1	0.99	1113	748	695	467	245	190	335	260
3/0 AWG	3.56/140	2.03/80	26.2	1.03	1305	877	780	524	275	215	385	300
4/0 AWG	3.56/140	2.03/80	27.7	1.09	1540	1035	881	592	315	245	445	350
250 MCM	3.56/140	2.03/80	28.7	1.13	1753	1178	976	656	345	270	495	385
350 MCM	3.56/140	2.03/80	31.8	1.25	2284	1535	1189	799	415	330	610	480
500 MCM	3.56/140	2.03/80	34.8	1.37	3080	2070	1519	1021	500	400	765	600
750 MCM	3.56/140	2.03/80	39.6	1.56	4404	2960	2014	1354	610	490	990	780
1000 MCM	3.56/140	2.79/110	45.2	1.78	5774	3881	2644	1777	690	565	1185	940

# Addison Medium Voltage Cables



15kV 100% to ICEA Standard												
Conductor	Insulation Thickness (mm/ mils)	Sheath Thickness (mm/ mils)	Overall Diameter (mm / in.)		Cable Weight (kg/km / lbs/kft)				Ampacity (Amps)			
									90°C In Duct		90°C In Air	
			(D)		CU		AL		CU	AL	CU	AL
2 AWG	4.45/175	2.03/80	23.9	0.94	800	538	594	399	165	130	215	170
1 AWG	4.45/175	2.03/80	25.1	0.99	908	610	646	434	185	145	250	195
1/0 AWG	4.45/175	2.03/80	25.9	1.02	1040	699	705	474	215	165	290	225
2/0 AWG	4.45/175	2.03/80	26.7	1.05	1195	803	780	524	245	190	335	260
3/0 AWG	4.45/175	2.03/80	27.9	1.10	1391	935	866	582	275	215	385	300
4/0 AWG	4.45/175	2.03/80	29.5	1.16	1634	1098	973	654	315	245	445	350
250 MCM	4.45/175	2.03/80	31.0	1.22	1852	1245	1074	722	345	270	495	385
350 MCM	4.45/175	2.03/80	33.5	1.32	2412	1621	1317	885	415	330	610	480
500 MCM	4.45/175	2.03/80	37.1	1.46	3200	2151	1640	1102	500	400	765	600
750 MCM	4.45/175	2.79/110	41.4	1.63	4533	3047	2144	1441	610	490	990	780
1000 MCM	4.45/175	2.79/110	47.8	1.88	5963	4008	2833	1904	690	565	1185	940
15kV 133% to ICEA Standard												
2 AWG	5.59/220	2.03/80	26.2	1.03	908	610	701	471	165	130	215	170
1 AWG	5.59/220	2.03/80	27.2	1.07	1015	682	753	506	185	145	250	195
1/0 AWG	5.59/220	2.03/80	28.4	1.12	1156	777	818	550	215	165	290	225
2/0 AWG	5.59/220	2.03/80	29.0	1.14	1312	882	896	602	245	190	335	260
3/0 AWG	5.59/220	2.03/80	30.5	1.20	1516	1019	992	667	275	215	385	300
4/0 AWG	5.59/220	2.03/80	31.8	1.25	1760	1183	1101	740	315	245	445	350
250 MCM	5.59/220	2.03/80	33.3	1.31	2007	1349	1230	827	345	270	495	385
350 MCM	5.59/220	2.03/80	35.8	1.41	2556	1718	1461	982	415	330	610	480
500 MCM	5.59/220	2.03/80	39.1	1.54	3356	2256	1796	1207	500	400	765	600
750 MCM	5.59/220	2.79/110	45.2	1.78	4858	3265	2468	1659	610	490	990	780
1000 MCM	5.59/220	2.79/110	49.5	1.95	6163	4142	3032	2038	690	565	1185	940



# Caledonian Medium Voltage Cables

25kV 100% to ICEA Standard												
Conductor	Insulation Thickness (mm/mils)	Sheath Thickness (mm/mils)	Overall Diameter (mm / in.)		Cable Weight (kg/km / lbs/kft)				Ampacity (Amps)			
									90°C In Duct		90°C In Air	
			(D)		CU		AL		CU	AL	CU	AL
1 AWG	6.60/260	2.03/80	29.2	1.15	1119	752	857	576	185	145	250	195
1/0 AWG	6.60/260	2.03/80	30.5	1.20	1266	851	925	622	215	165	290	225
2/0 AWG	6.60/260	2.03/80	31.2	1.23	1425	958	1010	679	245	190	330	260
3/0 AWG	6.60/260	2.03/80	32.8	1.29	1654	1112	1131	760	275	215	380	300
4/0 AWG	6.60/260	2.03/80	34.0	1.34	1907	1282	1247	838	315	245	445	345
250 MCM	6.60/260	2.03/80	35.3	1.39	2135	1435	1357	912	345	270	490	380
350 MCM	6.60/260	2.03/80	38.1	1.50	2696	1812	1601	1076	415	330	605	475
500 MCM	6.60/260	2.79/110	41.1	1.62	3502	2354	1942	1305	500	400	755	590
750 MCM	6.60/260	2.79/110	48.0	1.89	5070	3408	2681	1802	610	490	970	765
1000 MCM	6.60/260	2.79/110	51.6	2.03	6348	4267	3218	2163	690	565	1160	920
25kV 133% to ICEA Standard												
1/0 AWG	8.76/345	2.03/80	35.1	1.38	1550	1042	1214	816	215	165	290	225
2/0 AWG	8.76/345	2.03/80	35.8	1.41	1718	1155	1305	877	245	190	330	260
3/0 AWG	8.76/345	2.03/80	37.3	1.47	1939	1303	1413	950	275	215	380	300
4/0 AWG	8.76/345	2.03/80	38.9	1.53	2205	1482	1546	1039	315	245	445	345
250 MCM	8.76/345	2.03/80	40.1	1.58	2440	1640	1663	1118	345	270	490	380
350 MCM	8.76/345	2.79/110	44.2	1.74	3163	2126	2068	1390	415	330	605	475
500 MCM	8.76/345	2.79/110	47.8	1.88	4044	2718	2483	1669	500	400	755	590
750 MCM	8.76/345	2.79/110	52.1	2.05	5468	3675	3078	2069	610	490	970	765
1000 MCM	8.76/345	2.79/110	56.4	2.22	6789	4563	3657	2458	690	565	1160	920

# Addison Medium Voltage Cables



35kV 100% to ICEA Standard												
Conductor	Insulation Thickness (mm/mils)	Sheath Thickness (mm/mils)	Overall Diameter (mm / in.)		Cable Weight (kg/km / lbs/kft)				Ampacity (Amps)			
									90°C In Duct		90°C In Air	
			(D)		CU		AL		CU	AL	CU	AL
1/0 AWG	8.76/345	2.03/80	34.8	1.37	1550	1042	1214	816	215	165	290	225
2/0 AWG	8.76/345	2.03/80	36.1	1.42	1718	1155	1305	877	245	190	330	260
3/0 AWG	8.76/345	2.03/80	37.3	1.47	1939	1303	1413	950	275	215	380	300
4/0 AWG	8.76/345	2.03/80	38.9	1.53	2205	1482	1546	1039	315	245	445	345
250 MCM	8.76/345	2.03/80	40.1	1.58	2440	1640	1663	1118	345	270	490	380
350 MCM	8.76/345	2.79/110	44.2	1.74	3163	2126	2068	1390	415	330	605	475
500 MCM	8.76/345	2.79/110	47.8	1.88	4044	2718	2483	1669	500	400	755	590
750 MCM	8.76/345	2.79/110	52.1	2.05	5468	3675	3078	2069	610	490	970	765
1000 MCM	8.76/345	2.79/110	56.4	2.22	6789	4563	3657	2458	690	565	1160	920
35kV 133% to ICEA Standard												
1/0 AWG	10.67/420	2.03/80	38.9	1.53	1811	1217	1474	991	215	165	290	225
2/0 AWG	10.67/420	2.03/80	40.1	1.58	1986	1335	1571	1056	245	190	330	260
3/0 AWG	10.67/420	2.03/80	41.1	1.62	2209	1485	1684	1132	275	215	380	300
4/0 AWG	10.67/420	2.79/110	44.2	1.74	2629	1767	1968	1323	315	245	445	345
250 MCM	10.67/420	2.79/110	45.5	1.79	2876	1933	2099	1411	345	270	490	380
350 MCM	10.67/420	2.79/110	48.5	1.91	3522	2367	2427	1631	415	330	605	475
500 MCM	10.67/420	2.79/110	51.3	2.02	4383	2946	2822	1897	500	400	755	590
750 MCM	10.67/420	2.79/110	55.9	2.20	5843	3927	3453	2321	610	765	970	765
1000 MCM	10.67/420	2.79/110	60.2	2.37	7192	4834	4062	2730	690	920	1160	920





# Caledonian Medium Voltage Cables

## Tape Shielded Cables

5kV 100% Copper to ICEA Standard												
Conductor	Insulation Thickness (mm/mils)	Sheath Thickness (mm/mils)	Overall Diameter (mm/in.)		Cable Weight (kg/km / lbs/kft)				Ampacity (Amps)			
									90°C In Duct		90°C In Air	
			(D)		CU		AL		CU	AL	CU	AL
4 AWG	2.29/90	1.52/60	16.5	0.65	481	323	350	235	120	93	160	125
2 AWG	2.29/90	1.52/60	17.8	0.70	626	421	420	282	155	125	215	165
1 AWG	2.29/90	1.52/60	18.5	0.73	725	487	463	311	180	140	250	195
1/0 AWG	2.29/90	1.52/60	19.6	0.77	853	573	519	349	210	160	290	225
2/0 AWG	2.29/90	2.03/80	20.6	0.81	1001	673	585	393	235	185	330	260
3/0 AWG	2.29/90	2.03/80	22.6	0.89	1239	833	714	480	270	210	385	300
4/0 AWG	2.29/90	2.03/80	24.1	0.95	1474	991	814	547	310	245	445	350
250 MCM	2.29/90	2.03/80	25.4	1.00	1684	1132	908	610	345	270	495	385
350 MCM	2.29/90	2.03/80	27.9	1.10	2209	1485	1116	750	415	325	615	480
500 MCM	2.29/90	2.03/80	31.5	1.24	3002	2018	1442	969	505	400	775	605
750 MCM	2.29/90	2.03/80	36.1	1.42	4319	2903	1930	1297	630	505	1000	790
1000 MCM	2.29/90	2.03/80	39.9	1.57	5538	3722	2407	1618	720	590	1200	950
5kV 133% to ICEA Standard												
4 AWG	2.92/115	1.52/60	17.8	0.70	527	354	396	266	120	93	160	125
2 AWG	2.92/115	1.52/60	19.1	0.75	675	454	469	315	155	125	215	165
1 AWG	2.92/115	1.52/60	19.8	0.78	775	521	515	346	180	140	250	195
1/0 AWG	2.92/115	1.52/60	20.8	0.82	906	609	571	384	210	160	290	225
2/0 AWG	2.92/115	2.03/80	22.9	0.90	1105	743	689	463	235	185	330	260
3/0 AWG	2.92/115	2.03/80	23.9	0.94	1300	874	775	521	270	210	385	300
4/0 AWG	2.92/115	2.03/80	25.4	1.00	1538	1034	878	590	310	245	445	350
250 MCM	2.92/115	2.03/80	26.7	1.05	1751	1177	975	655	345	270	495	385
350 MCM	2.92/115	2.03/80	29.2	1.15	2282	1534	1187	798	415	325	615	480
500 MCM	2.92/115	2.03/80	32.8	1.29	3084	2073	1524	1024	505	400	775	605
750 MCM	2.92/115	2.03/80	37.3	1.47	4410	2964	2020	1358	630	505	1000	790
1000 MCM	2.92/115	2.03/80	41.1	1.62	5637	3789	2507	1685	720	590	1200	950

# Addison Medium Voltage Cables



8kV 100% to ICEA Standard												
Conductor	Insulation Thickness (mm/mils)	Sheath Thickness (mm/mils)	Overall Diameter (mm/in.)		Cable Weight (kg/km / lbs/kft)				Ampacity (Amps)			
									90°C In Duct		90°C In Air	
			(D)		CU		AL		CU	AL	CU	AL
4 AWG	2.92/115	1.52/60	17.8	0.70	527	354	396	266	125	98	165	130
2 AWG	2.92/115	1.52/60	19.1	0.75	675	454	469	315	165	130	215	170
1 AWG	2.92/115	1.52/60	19.8	0.78	775	521	515	346	185	145	250	195
1/0 AWG	2.92/115	2.03/80	20.8	0.82	906	609	571	384	215	165	290	225
2/0 AWG	2.92/115	2.03/80	22.9	0.90	1105	743	689	463	245	190	335	260
3/0 AWG	2.92/115	2.03/80	23.9	0.94	1300	874	775	521	275	215	385	300
4/0 AWG	2.92/115	2.03/80	25.4	1.00	1538	1034	878	590	315	245	445	350
250 MCM	2.92/115	2.03/80	26.7	1.05	1751	1177	975	655	345	270	495	385
350 MCM	2.92/115	2.03/80	29.2	1.15	2282	1534	1187	798	415	330	610	480
500 MCM	2.92/115	2.03/80	32.8	1.29	3084	2073	1524	1024	500	400	765	600
750 MCM	2.92/115	2.03/80	37.3	1.47	4410	2964	2020	1358	610	490	990	780
1000 MCM	2.92/115	2.80/110	41.1	1.62	5637	3789	1132	1685	690	565	1185	940
8kV 133% to ICEA Standard												
2 AWG	3.56/140	1.52/60	20.3	0.80	728	489	521	350	165	130	215	170
1 AWG	3.56/140	2.03/80	21.1	0.83	829	557	568	382	185	145	250	195
1/0 AWG	3.56/140	2.03/80	23.1	0.91	1012	680	677	455	215	165	290	225
2/0 AWG	3.56/140	2.03/80	24.1	0.95	1166	784	750	504	245	190	335	260
3/0 AWG	3.56/140	2.03/80	25.1	0.99	1363	916	839	564	275	215	385	300
4/0 AWG	3.56/140	2.03/80	26.7	1.05	1605	1079	945	635	315	245	445	350
250 MCM	3.56/140	2.03/80	27.9	1.10	1821	1224	1043	701	345	270	495	385
350 MCM	3.56/140	2.03/80	30.5	1.20	2358	1585	1263	849	415	330	610	480
500 MCM	3.56/140	2.03/80	34.0	1.34	3168	2129	1607	1080	500	400	765	600
750 MCM	3.56/140	2.03/80	38.6	1.52	4504	3027	2114	1421	610	490	990	780
1000 MCM	3.56/140	2.80/110	43.9	1.73	5884	3955	2754	1851	690	565	1185	940



# Caledonian Medium Voltage Cables

15kV 100% to ICEA Standard												
Conductor	Insulation Thickness (mm/ mils)	Sheath Thickness (mm/ mils)	Overall Diameter (mm / in.)		Cable Weight (kg/km / lbs/kft)				Ampacity (Amps)			
									90°C In Duct		90°C In Air	
			(D)		CU		AL		CU	AL	CU	AL
2 AWG	4.45/175	2.03/80	21.6	0.85	781	525	647	435	165	130	215	170
1 AWG	4.45/175	2.03/80	23.1	0.91	922	620	699	470	185	145	250	195
1/0 AWG	4.45/175	2.03/80	24.1	0.95	1059	712	765	514	215	165	290	225
2/0 AWG	4.45/175	2.03/80	25.1	0.99	1216	817	841	565	245	190	335	260
3/0 AWG	4.45/175	2.03/80	26.2	1.03	1415	951	933	627	275	215	385	300
4/0 AWG	4.45/175	2.03/80	27.7	1.09	1659	1115	1043	701	315	245	445	350
250 MCM	4.45/175	2.03/80	29.0	1.14	1878	1262	1146	770	345	270	495	385
350 MCM	4.45/175	2.03/80	31.5	1.24	2419	1626	1402	942	415	330	610	480
500 MCM	4.45/175	2.03/80	35.1	1.38	3233	2173	1729	1162	500	400	765	600
750 MCM	4.45/175	2.03/80	39.6	1.56	4578	3077	2251	1513	610	490	990	780
1000 MCM	4.45/175	2.80/110	45.0	1.77	5968	4011	2946	1980	690	565	1185	940
15kV 133% to ICEA Standard												
2 AWG	5.59/220	2.03/80	25.4	1.00	967	650	760	511	165	130	215	170
1 AWG	5.59/220	2.03/80	26.2	1.03	1077	724	815	548	185	145	250	195
1/0 AWG	5.59/220	2.03/80	27.2	1.07	1220	820	884	594	215	165	290	225
2/0 AWG	5.59/220	2.03/80	28.2	1.11	1381	928	966	649	245	190	335	260
3/0 AWG	5.59/220	2.03/80	29.2	1.15	1587	1067	1062	714	275	215	385	300
4/0 AWG	5.59/220	2.03/80	30.7	1.21	1839	1236	1178	792	315	245	445	350
250 MCM	5.59/220	2.03/80	32.5	1.28	2090	1405	1314	883	345	270	495	385
350 MCM	5.59/220	2.03/80	35.1	1.38	2648	1780	1553	1044	415	330	610	480
500 MCM	5.59/220	2.03/80	38.1	1.50	3455	2322	1894	1273	500	400	765	600
750 MCM	5.59/220	2.80/110	44.2	1.74	4969	3340	2578	1733	610	490	990	780
1000 MCM	5.59/220	2.80/110	48.5	1.91	6286	4225	3156	2121	690	565	1185	940

# Addison Medium Voltage Cables



25kV 100% to ICEA Standard												
Conductor	Insulation Thickness (mm/mils)	Sheath Thickness (mm/mils)	Overall Diameter (mm / in.)		Cable Weight (kg/km / lbs/kft)				Ampacity (Amps)			
									90°C In Duct		90°C In Air	
			(D)		CU		AL		CU	AL	CU	AL
1 AWG	6.60/260	2.03/80	28.2	1.11	1189	799	927	623	185	145	250	195
1/0 AWG	6.60/260	2.03/80	29.2	1.15	1335	897	1000	672	215	165	290	225
2/0 AWG	6.60/260	2.03/80	30.2	1.19	1500	1008	1085	729	245	190	330	260
3/0 AWG	6.60/260	2.03/80	31.8	1.25	1736	1167	1211	814	275	215	380	300
4/0 AWG	6.60/260	2.03/80	33.3	1.31	1994	1340	1335	897	315	245	445	345
250 MCM	6.60/260	2.03/80	34.5	1.36	2224	1495	1448	973	345	270	490	380
350 MCM	6.60/260	2.03/80	37.1	1.46	2793	1877	1698	1141	415	330	605	475
500 MCM	6.60/260	2.03/80	40.1	1.58	3609	2426	2049	1377	500	400	755	590
750 MCM	6.60/260	2.80/110	46.5	1.83	5185	3485	2796	1879	610	490	970	765
1000 MCM	6.60/260	2.80/110	50.5	1.99	6481	4356	3349	2251	690	565	1160	920
25kV 133% to ICEA Standard												
1/0 AWG	8.76/345	2.03/80	34.0	1.34	1640	1102	1302	875	215	165	290	225
2/0 AWG	8.76/345	2.03/80	35.1	1.38	1811	1217	1397	939	245	190	330	260
3/0 AWG	8.76/345	2.03/80	36.1	1.42	2032	1366	1507	1013	275	215	380	300
4/0 AWG	8.76/345	2.03/80	37.6	1.48	2302	1547	1641	1103	315	245	445	345
250 MCM	8.76/345	2.03/80	38.9	1.53	2543	1709	1765	1186	345	270	490	380
350 MCM	8.76/345	2.03/80	41.4	1.63	3130	2104	2035	1368	415	330	605	475
500 MCM	8.76/345	2.80/110	46.5	1.83	4157	2794	2596	1745	500	400	755	590
750 MCM	8.76/345	2.80/110	51.1	2.01	5602	3765	3212	2159	610	490	970	765
1000 MCM	8.76/345	2.80/110	54.9	2.16	6929	4657	3798	2553	690	565	1160	920



# Caledonian Medium Voltage Cables

35kV 100% to ICEA Standard												
Conductor	Insulation Thickness (mm/mils)	Sheath Thickness (mm/mils)	Overall Diameter (mm / in.)		Cable Weight (kg/km / lbs/kft)				Ampacity (Amps)			
									90°C In Duct		90°C In Air	
			(D)		CU		AL		CU	AL	CU	AL
1/0 AWG	8.76/345	2.03/80	34.0	1.34	1640	1102	1302	875	215	165	290	225
2/0 AWG	8.76/345	2.03/80	35.1	1.38	1811	1217	1397	939	245	190	330	260
3/0 AWG	8.76/345	2.03/80	36.1	1.42	2032	1366	1507	1013	275	215	380	300
4/0 AWG	8.76/345	2.03/80	37.6	1.48	2302	1547	1641	1103	315	245	445	345
250 MCM	8.76/345	2.03/80	38.9	1.53	2543	1709	1765	1186	345	270	490	380
350 MCM	8.76/345	2.03/80	41.4	1.63	3130	2104	2035	1368	415	330	605	475
500 MCM	8.76/345	2.80/110	46.5	1.83	4157	2794	2596	1745	500	400	755	590
750 MCM	8.76/345	2.80/110	51.1	2.01	5602	3765	3212	2159	610	490	970	765
1000 MCM	8.76/345	2.80/110	54.9	2.16	6929	4657	3798	2553	690	565	1160	920
35kV 133% to ICEA Standard												
1/0 AWG	10.67/420	2.03/80	37.8	1.49	1909	1283	1571	1056	215	165	290	225
2/0 AWG	10.67/420	2.03/80	38.9	1.53	2087	1403	1674	1125	245	190	330	260
3/0 AWG	10.67/420	2.03/80	39.9	1.57	2315	1556	1791	1204	275	215	380	300
4/0 AWG	10.67/420	2.03/80	41.4	1.63	2595	1744	1936	1301	315	245	445	345
250 MCM	10.67/420	2.80/110	44.2	1.74	2988	2008	2211	1486	345	270	490	380
350 MCM	10.67/420	2.80/110	47.2	1.86	3639	2446	2544	1710	415	330	605	475
500 MCM	10.67/420	2.80/110	50.3	1.98	4514	3034	2953	1985	500	400	755	590
750 MCM	10.67/420	2.80/110	54.9	2.16	5990	4026	3600	2420	610	490	970	765
1000 MCM	10.67/420	2.80/110	58.7	2.31	7344	4936	4212	2831	690	565	1160	920

# Addison Medium Voltage Cables



## Concentric Neutral Cables

5kV 100% Single Phase - Full Neutral														
Conductor	Insulation Thickness (mm/mils)	Sheath Thickness (mm/mils)	Overall Diameter (mm / in.)				Cable Weight (kg/km / lbs/kft)				Ampacity (Amps)			
			CU		AL		CU		AL		90°C In Duct		90°C In Air	
			CU	AL	CU	AL	CU	AL	CU	AL	CU	AL	CU	AL
2 SOLID	2.29/90	1.52/60	20.3	0.80	20.3	0.80	872	586	559	376	165	130	232	
2 AWG	2.29/90	2.03/80	20.8	0.82	20.8	0.82	894	601	583	392	167	131	234	
1 SOLID	2.29/90	2.03/80	21.8	0.86	21.1	0.83	1074	722	653	439	191	149	264	
1 AWG	2.29/90	2.03/80	22.9	0.90	21.8	0.86	1104	742	680	457	192	150	266	210
1/0 SOLID	2.29/90	2.03/80	22.9	0.90	21.8	0.86	1280	860	756	508	216	169	299	236
1/0 AWG	2.29/90	2.03/80	23.9	0.94	22.9	0.90	1314	883	789	530	219	171	301	238
2/0 AWG	2.29/90	2.03/80	25.9	1.02	24.9	0.98	1634	1098	966	649	252	197	342	271
3/0 AWG	2.29/90	2.03/80	27.2	1.07	26.2	1.03	1956	1315	1129	759	286	224	387	307
4/0 AWG	2.29/90	2.03/80	29.2	1.15	28.7	1.13	2404	1616	1400	941	327	258	438	348
250 MCM	2.29/90	2.03/80	-	-	30.0	1.18	-	-	1643	1104		288		386
350 MCM	2.29/90	2.03/80	-	-	33.3	1.31	-	-	2074	1394		342		454
5kV 100% Three Phase - One-Third Neutral														
2 SOLID	2.29/90	1.52/60	20.3	0.8	20.3	0.80	698	469	491	330	172	134	245	192
2 AWG	2.29/90	2.03/80	20.8	0.82	20.8	0.82	722	485	515	346	172	134	245	192
1 SOLID	2.29/90	2.03/80	21.1	0.83	21.1	0.83	809	544	533	358	195	152	276	218
1 AWG	2.29/90	2.03/80	21.8	0.86	21.8	0.86	839	564	559	376	196	153	277	218
1/0 SOLID	2.29/90	2.03/80	21.8	0.86	21.8	0.86	966	649	583	392	222	174	309	247
1/0 AWG	2.29/90	2.03/80	22.9	0.90	22.9	0.90	998	671	614	413	224	174	310	247
2/0 AWG	2.29/90	2.03/80	24.1	0.95	24.1	0.95	1184	796	698	469	254	199	346	279
3/0 AWG	2.29/90	2.03/80	25.4	1.00	25.4	1.00	1425	958	811	545	289	227	383	313
4/0 AWG	2.29/90	2.03/80	26.7	1.05	26.7	1.05	1729	1162	943	634	329	258	418	350
250 MCM	2.29/90	2.03/80	28.2	1.11	28.2	1.11	2000	1344	1073	721	360	284	445	377
350 MCM	2.29/90	2.03/80	31.5	1.24	30.7	1.21	2696	1812	1367	919	430	343	494	433
500 MCM	2.29/90	2.03/80	36.6	1.44	35.3	1.39	3806	2558	1869	1256	510	416	540	489
750 MCM	2.29/90	2.03/80	43.4	1.71	40.1	1.58	5599	3763	2581	1735	595	508	602	552
1000 MCM	2.29/90	2.79/110	48.0	1.89	46.5	1.83	7287	4898	3429	2305	647	574	660	591



# Caledonian Medium Voltage Cables

5kV 133% Single Phase - Full Neutral														
Conductor	Insulation Thickness (mm/mils)	Sheath Thickness (mm/mils)	Overall Diameter (mm / in.)				Cable Weight (kg/km / lbs/kft)				Ampacity (Amps)			
			CU		AL		CU		AL		90°C In Duct		90°C In Air	
			CU	AL	CU	AL	CU	AL	CU	AL	CU	AL	CU	AL
2 SOLID	2.92/115	2.03/80	21.6	0.85	21.6	0.85	916	616	606	407	165	130	232	182
2 AWG	2.92/115	2.03/80	22.1	0.87	22.1	0.87	942	633	631	424	167	131	234	183
1 SOLID	2.92/115	2.03/80	23.1	0.91	22.4	0.88	1123	755	701	471	191	149	264	208
1 AWG	2.92/115	2.03/80	24.1	0.95	23.1	0.91	1156	777	729	490	192	150	266	210
1/0 SOLID	2.92/115	2.03/80	24.1	0.95	23.1	0.91	1330	894	805	541	216	169	299	236
1/0 AWG	2.92/115	2.03/80	25.1	0.99	24.1	0.95	1367	919	839	564	219	171	301	238
2/0 AWG	2.92/115	2.03/80	27.2	1.07	26.2	1.03	1692	1137	1022	687	252	197	342	271
3/0 AWG	2.92/115	2.03/80	28.4	1.12	27.4	1.08	2017	1356	1189	799	286	224	387	307
4/0 AWG	2.92/115	2.03/80	30.5	1.20	30.0	1.18	2470	1660	1464	984	327	258	438	348
250 MCM	2.92/115	2.03/80	-	-	31.2	1.23	-	-	1711	1150	-	288	-	386
350 MCM	2.92/115	2.03/80	-	-	34.5	1.36	-	-	2150	1445	-	342	-	454
5kV 133% Three Phase - One-Third Neutral														
2 SOLID	2.92/115	2.03/80	21.6	0.85	21.6	0.85	744	500	536	360	172	134	245	192
2 AWG	2.92/115	2.03/80	22.1	0.87	22.1	0.87	768	516	561	377	172	134	245	192
1 SOLID	2.92/115	2.03/80	22.4	0.88	22.4	0.88	857	576	579	389	195	152	276	218
1 AWG	2.92/115	2.03/80	23.1	0.91	23.1	0.91	888	597	609	409	196	153	277	218
1/0 SOLID	2.92/115	2.03/80	23.1	0.91	23.1	0.91	1015	682	632	425	222	174	309	247
1/0 AWG	2.92/115	2.03/80	24.1	0.95	24.1	0.95	1049	705	667	448	224	174	310	247
2/0 AWG	2.92/115	2.03/80	25.4	1.00	25.4	1.00	1239	833	751	505	254	199	346	279
3/0 AWG	2.92/115	2.03/80	26.7	1.05	26.7	1.05	1482	996	869	584	289	227	383	313
4/0 AWG	2.92/115	2.03/80	27.9	1.10	27.9	1.10	1790	1203	1003	674	329	258	418	350
250 MCM	2.92/115	2.03/80	29.5	1.16	29.5	1.16	2064	1387	1135	763	360	284	445	377
350 MCM	2.92/115	2.03/80	32.8	1.29	32.0	1.26	2767	1860	1436	965	430	343	494	433
500 MCM	2.92/115	2.03/80	37.8	1.49	36.6	1.44	3888	2613	1949	1310	510	416	540	489
750 MCM	2.92/115	2.79/110	44.7	1.76	41.4	1.63	5695	3828	2672	1796	595	508	602	552
1000 MCM	2.92/115	2.79/110	49.3	1.94	47.8	1.88	7394	4970	3534	2375	647	574	660	591

# Addison Medium Voltage Cables



15kV 100% Single Phase - Full Neutral														
Conductor	Insulation Thickness (mm/mils)	Sheath Thickness (mm/mils)	Overall Diameter (mm / in.)				Cable Weight (kg/km / lbs/kft)				Ampacity (Amps)			
			CU		AL		CU		AL		90°C In Duct		90°C In Air	
			CU	AL	CU	AL	CU	AL	CU	AL	CU	AL	CU	AL
2 SOLID	4.45/175	2.03/80	24.6	0.97	24.6	0.97	1038	698	726	488	172	135	233	182
2 AWG	4.45/175	2.03/80	25.1	0.99	25.1	0.99	1067	717	754	507	173	135	234	183
1 SOLID	4.45/175	2.03/80	26.2	1.03	25.4	1.00	1251	841	826	555	197	154	264	208
1 AWG	4.45/175	2.03/80	27.2	1.07	26.2	1.03	1290	867	860	578	199	156	266	210
1/0 SOLID	4.45/175	2.03/80	27.2	1.07	26.2	1.03	1464	984	936	629	223	175	299	236
1/0 AWG	4.45/175	2.03/80	28.2	1.11	27.2	1.07	1506	1012	975	655	226	176	302	237
2/0 AWG	4.45/175	2.03/80	30.2	1.19	29.2	1.15	1842	1238	1168	785	259	203	342	270
3/0 AWG	4.45/175	2.03/80	31.5	1.24	30.5	1.20	2175	1462	1341	901	294	231	388	307
4/0 AWG	4.45/175	2.03/80	33.5	1.32	33.0	1.30	2639	1774	1629	1095	335	265	439	348
250 MCM	4.45/175	2.03/80	-	-	34.3	1.35	-	-	1884	1266	-	295	-	386
350 MCM	4.45/175	2.03/80	-	-	38.1	1.50	-	-	2375	1596	-	350	-	453
15kV 100% Three Phase - One-Third Neutral														
2 SOLID	4.45/175	2.03/80	24.6	0.97	24.6	0.97	864	581	656	441	176	137	241	189
2 AWG	4.45/175	2.03/80	25.1	0.99	25.1	0.99	893	600	686	461	177	137	241	189
1 SOLID	4.45/175	2.03/80	25.4	1.00	25.4	1.00	982	660	704	473	200	156	272	214
1 AWG	4.45/175	2.03/80	26.2	1.03	26.2	1.03	1018	684	738	496	201	157	272	215
1/0 SOLID	4.45/175	2.03/80	26.2	1.03	26.2	1.03	1144	769	762	512	228	178	305	243
1/0 AWG	4.45/175	2.03/80	27.2	1.07	27.2	1.07	1184	796	802	539	229	178	306	243
2/0 AWG	4.45/175	2.03/80	28.4	1.12	28.4	1.12	1381	928	893	600	260	203	343	275
3/0 AWG	4.45/175	2.03/80	29.7	1.17	29.7	1.17	1631	1096	1016	683	295	231	380	309
4/0 AWG	4.45/175	2.03/80	31.0	1.22	31.0	1.22	1946	1308	1159	779	334	263	418	346
250 MCM	4.45/175	2.03/80	32.5	1.28	32.5	1.28	2229	1498	1300	874	366	289	445	374
350 MCM	4.45/175	2.03/80	36.3	1.43	35.6	1.40	2982	2004	1647	1107	437	348	498	432
500 MCM	4.45/175	2.03/80	40.9	1.61	39.6	1.56	4096	2753	2153	1447	516	420	547	491
750 MCM	4.45/175	2.79/110	47.8	1.88	46.0	1.81	5941	3993	3002	2018	603	512	610	554
1000 MCM	4.45/175	2.79/110	53.1	2.09	51.6	2.03	7735	5199	3867	2599	658	580	669	599





# Caledonian Medium Voltage Cables

15kV 133% Single Phase - Full Neutral														
Conductor	Insulation Thickness (mm/mils)	Sheath Thickness (mm/mils)	Overall Diameter (mm / in.)				Cable Weight (kg/km / lbs/kft)				Ampacity (Amps)			
			CU		AL		CU		AL		90°C In Duct		90°C In Air	
			CU	AL	CU	AL	CU	AL	CU	AL	CU	AL	CU	AL
2 SOLID	5.59/220	2.03/80	26.9	1.06	26.9	1.06	1140	766	827	556	172	135	233	182
2 AWG	5.59/220	2.03/80	27.4	1.08	27.4	1.08	1171	787	858	577	173	135	234	183
1 SOLID	5.59/220	2.03/80	28.4	1.12	27.7	1.09	1360	914	930	625	197	154	264	208
1 AWG	5.59/220	2.03/80	29.5	1.16	28.4	1.12	1400	941	969	651	199	156	266	210
1/0 SOLID	5.59/220	2.03/80	29.5	1.16	28.4	1.12	1576	1059	1044	702	223	175	299	236
1/0 AWG	5.59/220	2.03/80	30.5	1.20	29.5	1.16	1622	1090	1088	731	226	176	302	237
2/0 AWG	5.59/220	2.03/80	32.5	1.28	31.5	1.24	1965	1321	1287	865	259	203	342	270
3/0 AWG	5.59/220	2.03/80	33.8	1.33	32.8	1.29	2305	1549	1467	986	294	231	388	307
4/0 AWG	5.59/220	2.03/80	35.8	1.41	35.3	1.39	2776	1866	1765	1186	335	265	439	348
250 MCM	5.59/220	2.03/80	-	-	37.1	1.46	-	-	2059	1384	-	295	-	386
350 MCM	5.59/220	2.03/80	-	-	40.4	1.59	-	-	2531	1701	-	350	-	453
15kV 133% Three Phase - One-Third Neutral														
2 SOLID	5.59/220	2.03/80	26.9	1.06	26.9	1.06	966	649	757	509	176	137	241	189
2 AWG	5.59/220	2.03/80	27.4	1.08	27.4	1.08	997	670	790	531	177	137	241	189
1 SOLID	5.59/220	2.03/80	27.7	1.09	27.7	1.09	1086	730	809	544	200	156	272	214
1 AWG	5.59/220	2.03/80	28.4	1.12	28.4	1.12	1126	757	847	569	201	157	272	215
1/0 SOLID	5.59/220	2.03/80	28.4	1.12	28.4	1.12	1253	842	870	585	228	178	305	243
1/0 AWG	5.59/220	2.03/80	29.5	1.16	29.5	1.16	1297	872	914	614	229	178	306	243
2/0 AWG	5.59/220	2.03/80	30.7	1.21	30.7	1.21	1498	1007	1010	679	260	203	343	275
3/0 AWG	5.59/220	2.03/80	32.0	1.26	32.0	1.26	1753	1178	1140	766	295	231	380	309
4/0 AWG	5.59/220	2.03/80	33.3	1.31	33.3	1.31	2074	1394	1288	866	334	263	418	346
250 MCM	5.59/220	2.03/80	35.3	1.39	35.3	1.39	2394	1609	1465	985	366	289	445	374
350 MCM	5.59/220	2.03/80	38.6	1.52	37.8	1.49	3132	2105	1794	1206	437	348	498	432
500 MCM	5.59/220	2.03/80	44.7	1.76	43.4	1.71	4361	2931	2410	1620	516	420	547	491
750 MCM	5.59/220	2.79/110	50.0	1.97	48.3	1.90	6134	4123	3191	2145	603	512	610	554
1000 MCM	5.59/220	2.79/110	55.4	2.18	53.8	2.12	7951	5344	4078	2741	658	580	669	599

# Addison Medium Voltage Cables



25kV 100% Single Phase - Full Neutral														
Conductor	Insulation Thickness (mm/mils)	Sheath Thickness (mm/mils)	Overall Diameter (mm / in.)				Cable Weight (kg/km / lbs/kft)				Ampacity (Amps)			
			CU		AL		CU		AL		90°C In Duct		90°C In Air	
			CU	AL	CU	AL	CU	AL	CU	AL	CU	AL	CU	AL
1 SOLID	6.6/260	2.03/80	25.9	1.02	29.7	1.17	1463	983	1031	693	202	158	264	208
1 AWG	6.6/260	2.03/80	31.5	1.24	30.5	1.20	1507	1013	1073	721	204	160	265	209
1/0 SOLID	6.6/260	2.03/80	31.5	1.24	30.5	1.20	1683	1131	1149	772	229	179	299	235
1/0 AWG	6.6/260	2.03/80	32.5	1.28	31.5	1.24	1727	1161	1196	804	231	181	301	237
2/0 AWG	6.6/260	2.03/80	34.5	1.36	33.5	1.32	2084	1401	1402	942	265	207	342	270
3/0 AWG	6.6/260	2.03/80	36.3	1.43	35.3	1.39	2459	1653	1617	1087	301	236	387	306
4/0 AWG	6.6/260	2.03/80	38.4	1.51	37.8	1.49	2941	1977	1925	1294	342	271	438	347
250 MCM	6.6/260	2.03/80	-	-	39.1	1.54	-	-	2193	1474	-	301	-	384
350 MCM	6.6/260	2.79/110	-	-	43.9	1.73	-	-	2773	1864	-	356	-	449
25kV 100% Three Phase - One-Third Neutral														
1 SOLID	6.6/260	2.03/80	29.7	1.17	29.7	1.17	1187	798	909	611	204	159	269	211
1 AWG	6.6/260	2.03/80	30.5	1.20	30.5	1.20	1230	827	951	639	204	159	269	212
1/0 SOLID	6.6/260	2.03/80	30.5	1.20	30.5	1.20	1357	912	975	655	232	181	302	239
1/0 AWG	6.6/260	2.03/80	31.5	1.24	31.5	1.24	1406	945	1022	687	232	181	303	239
2/0 AWG	6.6/260	2.03/80	32.8	1.29	32.8	1.29	1610	1082	1122	754	264	206	340	271
3/0 AWG	6.6/260	2.03/80	34.5	1.36	34.5	1.36	1901	1278	1287	865	300	235	378	305
4/0 AWG	6.6/260	2.03/80	35.8	1.41	35.8	1.41	2229	1498	1442	969	339	266	416	342
250 MCM	6.6/260	2.03/80	37.3	1.47	37.3	1.47	2523	1696	1595	1072	371	292	445	371
350 MCM	6.6/260	2.03/80	40.6	1.60	39.9	1.57	3273	2200	1933	1299	442	351	501	430
500 MCM	6.6/260	2.79/110	46.7	1.84	45.5	1.79	4523	3040	2568	1726	520	424	550	490
750 MCM	6.6/260	2.79/110	52.8	2.08	51.1	2.01	6387	4293	3435	2309	611	517	618	560
1000 MCM	6.6/260	2.79/110	57.4	2.26	55.9	2.20	8150	5478	4273	2872	665	584	676	606



# Caledonian Medium Voltage Cables

25kV 133% Single Phase - Full Neutral														
Conductor	Insulation Thickness (mm/mils)	Sheath Thickness (mm/mils)	Overall Diameter (mm / in.)				Cable Weight (kg/km / lbs/kft)				Ampacity (Amps)			
			CU		AL		CU		AL		90°C In Duct		90°C In Air	
			CU	AL	CU	AL	CU	AL	CU	AL	CU	AL	CU	AL
1 SOLID	8.1/320	2.03/80	33.5	1.32	32.8	1.29	1638	1101	1202	808	202	158	264	208
1 AWG	8.1/320	2.03/80	34.5	1.36	33.8	1.33	1687	1134	1248	839	204	160	265	209
1/0 SOLID	8.1/320	2.03/80	34.5	1.36	33.8	1.33	1864	1253	1326	891	229	179	299	235
1/0 AWG	8.1/320	2.03/80	36.1	1.42	35.3	1.39	1951	1311	1410	948	231	181	301	237
2/0 AWG	8.1/320	2.03/80	38.4	1.51	37.1	1.46	2317	1557	1628	1094	265	207	342	270
3/0 AWG	8.1/320	2.03/80	39.6	1.56	38.4	1.51	2668	1793	1821	1224	301	236	387	306
4/0 AWG	8.1/320	2.03/80	41.7	1.64	40.9	1.61	3160	2124	2142	1440	342	271	438	347
250 MCM	8.1/320	2.79/110	-	-	43.9	1.73	-	-	2513	1689	-	301	-	384
350 MCM	8.1/320	2.79/110	-	-	46.2	1.82	-	-	3022	2031	-	356	-	449
25kV 133% Three Phase - One-Third Neutral														
1 SOLID	8.1/320	2.03/80	32.8	1.29	32.8	1.29	1358	913	1080	726	204	159	269	211
1 AWG	8.1/320	2.03/80	33.8	1.33	33.8	1.33	1406	945	1126	757	204	159	269	212
1/0 SOLID	8.1/320	2.03/80	33.8	1.33	33.8	1.33	1534	1031	1152	774	232	181	302	239
1/0 AWG	8.1/320	2.03/80	35.3	1.39	35.3	1.39	1619	1088	1236	831	232	181	303	239
2/0 AWG	8.1/320	2.03/80	36.3	1.43	36.3	1.43	1831	1231	1343	903	264	206	340	271
3/0 AWG	8.1/320	2.03/80	37.6	1.48	37.6	1.48	2099	1411	1486	999	300	235	378	305
4/0 AWG	8.1/320	2.03/80	39.1	1.54	39.1	1.54	2436	1637	1648	1108	339	266	416	342
250 MCM	8.1/320	2.03/80	40.4	1.59	40.4	1.59	2738	1840	1809	1216	371	292	445	371
350 MCM	8.1/320	2.79/110	45.5	1.79	44.5	1.75	3606	2424	2260	1519	442	351	501	430
500 MCM	8.1/320	2.79/110	49.8	1.96	48.8	1.92	4788	3218	2828	1901	520	424	550	490
750 MCM	8.1/320	2.79/110	55.9	2.20	54.4	2.14	6686	4494	3727	2505	611	517	618	560
1000 MCM	8.1/320	2.79/110	62.8	2.38	59.2	2.33	8475	5696	4591	3086	665	584	676	606

# Addison Medium Voltage Cables



35kV 100% Single Phase - Full Neutral														
Conductor	Insulation Thickness (mm/mils)	Sheath Thickness (mm/mils)	Overall Diameter (mm / in.)				Cable Weight (kg/km / lbs/kft)				Ampacity (Amps)			
			CU		AL		CU		AL		90°C In Duct		90°C In Air	
			CU	AL	CU	AL	CU	AL	CU	AL	CU	AL	CU	AL
1/0 SOLID	8.76/345	2.03/80	36.3	1.43	35.6	1.40	1974	1327	1433	963	234	183	298	234
1/0 AWG	8.76/345	2.03/80	37.3	1.47	36.6	1.44	2032	1366	1489	1001	236	184	300	236
2/0 AWG	8.76/345	2.03/80	39.6	1.56	38.4	1.51	2401	1614	1712	1151	270	212	341	269
3/0 AWG	8.76/345	2.03/80	40.9	1.61	39.6	1.56	2757	1853	1907	1282	306	240	386	305
4/0 AWG	8.76/345	2.03/80	44.5	1.75	43.7	1.72	3351	2252	2330	1566	348	275	434	346
250 MCM	8.76/345	2.79/110	-	-	45.2	1.78	-	-	2611	1755	-	305	-	380
350 MCM	8.76/345	2.79/110	-	-	48.3	1.90	-	-	3127	2102	-	360	-	449
35kV 100% Three Phase - One-Third Neutral														
1/0 SOLID	8.76/345	2.03/80	35.6	1.40	35.6	1.40	1643	1104	1259	846	235	183	299	236
1/0 AWG	8.76/345	2.03/80	36.6	1.44	36.6	1.44	1699	1142	1315	884	235	183	300	236
2/0 AWG	8.76/345	2.03/80	37.6	1.48	37.6	1.48	1913	1286	1425	958	267	208	337	268
3/0 AWG	8.76/345	2.03/80	38.9	1.53	38.9	1.53	2186	1469	1571	1056	302	237	376	302
4/0 AWG	8.76/345	2.03/80	40.4	1.59	40.4	1.59	2525	1697	1738	1168	342	269	415	340
250 MCM	8.76/345	2.79/110	43.2	1.70	43.2	1.70	2924	1965	1995	1341	375	295	443	367
350 MCM	8.76/345	2.79/110	46.7	1.84	45.7	1.80	3709	2493	2360	1586	445	354	501	427
500 MCM	8.76/345	2.79/110	51.8	2.04	50.8	2.00	4969	3340	3007	2021	525	426	557	491
750 MCM	8.76/345	2.79/110	57.2	2.25	55.6	2.19	6811	4578	3849	2587	616	519	624	563
1000 MCM	8.76/345	2.79/110	61.7	2.43	60.5	2.38	8610	5787	4724	3175	671	587	682	611



# Caledonian Medium Voltage Cables

35kV 133% Single Phase - Full Neutral														
Conductor	Insulation Thickness (mm/mils)	Sheath Thickness (mm/mils)	Overall Diameter (mm / in.)				Cable Weight (kg/km / lbs/kft)				Ampacity (Amps)			
			CU		AL		CU		AL		90°C In Duct		90°C In Air	
			CU	AL	CU	AL	CU	AL	CU	AL	CU	AL	CU	AL
1/0 SOLID	10.67/420	2.03/80	40.1	1.58	39.4	1.55	2229	1498	1683	1131	234	183	298	234
1/0 AWG	10.67/420	2.03/80	41.1	1.62	40.4	1.59	2294	1542	1745	1173	236	184	300	236
2/0 AWG	10.67/420	2.03/80	45.0	1.77	43.7	1.72	2775	1865	2077	1396	270	212	341	269
3/0 AWG	10.67/420	2.79/110	46.2	1.82	45.0	1.77	3141	2111	2284	1535	306	240	386	305
4/0 AWG	10.67/420	2.79/110	48.3	1.90	47.5	1.87	3656	2457	2632	1769	348	275	434	346
250 MCM	10.67/420	2.79/110	-	-	49.0	1.93	-	-	2924	1965	-	305	-	380
350 MCM	10.67/420	2.79/110	-	-	52.8	2.08	-	-	3532	2374	-	360	-	449
35kV 133% Three Phase - One-Third Neutral														
1/0 SOLID	10.67/420	2.03/80	39.4	1.55	39.4	1.55	1892	1272	1509	1014	235	183	299	236
1/0 AWG	10.67/420	2.03/80	40.4	1.59	40.4	1.59	1955	1314	1571	1056	235	183	300	236
2/0 AWG	10.67/420	2.03/80	41.4	1.63	41.4	1.63	2177	1463	1690	1136	267	208	337	268
3/0 AWG	10.67/420	2.79/110	44.2	1.74	44.2	1.74	2555	1717	1940	1304	302	237	376	302
4/0 AWG	10.67/420	2.79/110	45.7	1.80	45.7	1.80	2907	1954	2120	1425	342	269	415	340
250 MCM	10.67/420	2.79/110	47.0	1.85	47.0	1.85	3224	2167	2296	1543	375	295	443	367
350 MCM	10.67/420	2.79/110	51.3	2.02	50.3	1.98	4102	2757	2748	1847	445	354	501	427
500 MCM	10.67/420	2.79/110	55.6	2.19	54.6	2.15	5326	3580	3358	2257	525	426	557	491
750 MCM	10.67/420	2.79/110	61.0	2.40	59.4	2.34	7205	4843	4234	2846	616	519	624	563
1000 MCM	10.67/420	2.79/110	65.5	2.58	64.3	2.53	9035	6073	5140	3455	671	587	682	611

# Addison Medium Voltage Cables



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5kV 100%/133% Copper Single Conductor												
Conductor	Insulation Thickness (mm/mils)	Sheath Thickness (mm/mils)	Inner Jacket Diameter (mm/in)		Armour Diameter (mm)		Overall Diameter (mm/in.)		Cable Weight (kg/km / lbs/ kft)		Equivalent Bonding Conductor Size	Ampacity (Amps)
							(D)					90°C
6 AWG	2.29/90	1.52/60	16.33	0.643	21.41	0.843	23.70	0.933	634	426.03	8 AWG	100
4 AWG	2.29/90	1.52/60	18.19	0.716	23.27	0.916	25.61	1.008	824	553.70	6 AWG	145
2 AWG	2.29/90	1.52/60	19.59	0.771	25.18	0.991	27.51	1.083	1047	703.55	6 AWG	190
1 AWG	2.29/90	1.52/60	20.38	0.802	25.96	1.022	28.30	1.114	1223	821.82	4 AWG	225
1/0 AWG	2.29/90	2.03/80	21.37	0.841	26.95	1.061	29.29	1.153	1357	911.86	4 AWG	260
2/0 AWG	2.29/90	2.03/80	22.38	0.881	27.97	1.101	30.31	1.193	1517	1019.38	4 AWG	300
3/0 AWG	2.29/90	2.03/80	24.13	0.950	29.72	1.170	32.06	1.262	1785	1199.46	3 AWG	345
4/0 AWG	2.29/90	2.03/80	26.22	1.032	31.80	1.252	34.14	1.344	2085	1401.06	3 AWG	400
250 MCM	2.29/90	2.03/80	27.56	1.085	33.15	1.305	35.48	1.397	2374	1595.25	2 AWG	445
350 MCM	2.29/90	2.03/80	30.67	1.207	36.26	1.428	38.60	1.520	3025	2032.71	1 AWG	550
500 MCM	2.29/90	2.03/80	33.72	1.328	39.31	1.548	42.10	1.657	3960	2661.00	1/0 AWG	695
750 MCM	2.29/90	2.03/80	41.07	1.617	47.42	1.867	50.21	1.977	5717	3841.65	2/0 AWG	900
1000 MCM	2.29/90	2.79/110	44.85	1.766	51.20	2.016	54.00	2.126	7028	4722.60	2/0 AWG	1075



# Caledonian Medium Voltage Cables

8kV 100% Copper Single Conductor												
Conductor	Insulation Thickness (mm/mils)	Sheath Thickness (mm/mils)	Inner Jacket Diameter (mm/in)		Armour Diameter (mm/in)		Overall Diameter (mm/in.)		Cable Weight (kg/km / lbs/kft)		Equivalent Bonding Conductor Size	Ampacity (Amps)
							(D)					90°C
4 AWG	2.92/115	1.52/60	20.13	0.793	25.72	1.013	28.06	1.105	976	655.84	6 AWG	150
2 AWG	2.92/115	2.03/80	22.53	0.887	28.12	1.107	30.45	1.199	1203	808.38	6 AWG	195
1 AWG	2.92/115	2.03/80	23.32	0.918	28.90	1.138	31.24	1.230	1382	928.66	4 AWG	225
1/0 AWG	2.92/115	2.03/80	24.31	0.957	29.89	1.177	32.23	1.269	1521	1022.06	4 AWG	260
2/0 AWG	2.92/115	2.03/80	25.32	0.997	30.91	1.217	33.25	1.309	1686	1132.94	4 AWG	300
3/0 AWG	2.92/115	2.03/80	27.07	1.066	32.66	1.286	35.00	1.378	1962	1318.40	3 AWG	345
4/0 AWG	2.92/115	2.03/80	28.40	1.118	33.98	1.338	36.32	1.430	2214	1487.74	3 AWG	400
250 MCM	2.92/115	2.03/80	29.80	1.173	35.39	1.393	37.72	1.485	2511	1687.31	2 AWG	445
350 MCM	2.92/115	2.03/80	32.91	1.296	38.50	1.516	41.29	1.626	3213	2159.04	1 AWG	550
500 MCM	2.92/115	2.03/80	36.42	1.434	42.01	1.654	44.80	1.764	4155	2792.03	1/0 AWG	685
750 MCM	2.92/115	2.79/110	44.97	1.770	51.32	2.020	54.11	2.130	6091	4092.96	1/0 AWG	885
1000 MCM	2.92/115	2.79/110	48.75	1.919	55.10	2.169	57.90	2.280	7427	4990.71	2/0 AWG	1060
8kV 133% Copper Single Conductor												
2 AWG	3.56/140	2.03/80	23.81	0.937	29.40	1.157	31.73	1.249	1265	850.04	6 AWG	195
1 AWG	3.56/140	2.03/80	24.60	0.969	30.18	1.188	32.52	1.280	1446	971.67	4 AWG	225
1/0 AWG	3.56/140	2.03/80	25.59	1.007	31.17	1.227	33.51	1.319	1587	1066.41	4 AWG	260
2/0 AWG	3.56/140	2.03/80	26.60	1.047	32.19	1.267	34.53	1.359	1754	1178.63	4 AWG	300
3/0 AWG	3.56/140	2.03/80	28.35	1.116	33.94	1.336	36.28	1.428	2033	1366.11	3 AWG	345
4/0 AWG	3.56/140	2.03/80	29.68	1.169	35.26	1.388	37.60	1.480	2286	1536.12	3 AWG	400
250 MCM	3.56/140	2.03/80	31.08	1.224	36.67	1.444	39.00	1.535	2586	1737.71	2 AWG	445
350 MCM	3.56/140	2.03/80	34.19	1.346	39.78	1.566	42.57	1.676	3294	2213.47	1 AWG	550
500 MCM	3.56/140	2.03/80	37.70	1.484	43.29	1.704	46.08	1.814	4243	2851.16	1/0 AWG	685
750 MCM	3.56/140	2.79/110	46.25	1.821	52.60	2.071	55.39	2.181	6197	4164.19	1/0 AWG	885
1000 MCM	3.56/140	2.79/110	50.03	1.970	56.38	2.220	59.18	2.330	7541	5067.32	2/0 AWG	1060

# Addison Medium Voltage Cables



15kV 100% Copper Single Conductor												
Conductor	Insulation Thickness (mm/mils)	Sheath Thickness (mm/mils)	Inner Jacket Diameter (mm/in)		Armour Diameter (mm/in)		Overall Diameter (mm/in.)		Cable Weight (kg/km / lbs/ kft)		Equivalent Bonding Conductor Size	Ampacity (Amps)
							(D)					90°C
2 AWG	4.45/175	2.03/80	25.64	1.009	31.23	1.230	33.56	1.321	1359	913.21	6 AWG	195
1 AWG	4.45/175	2.03/80	26.43	1.041	32.01	1.260	34.35	1.352	1543	1036.85	4 AWG	225
1/0 AWG	4.45/175	2.03/80	27.42	1.080	33.00	1.299	35.34	1.391	1686	1132.94	4 AWG	260
2/0 AWG	4.45/175	2.03/80	28.43	1.119	34.02	1.339	36.36	1.431	1856	1247.17	4 AWG	300
3/0 AWG	4.45/175	2.03/80	30.19	1.189	35.77	1.408	38.11	1.500	2138	1436.67	3 AWG	345
4/0 AWG	4.45/175	2.03/80	31.51	1.241	37.09	1.460	39.43	1.552	2395	1609.37	3 AWG	400
250 MCM	4.45/175	2.03/80	32.91	1.296	38.50	1.516	41.29	1.626	2739	1840.52	2 AWG	445
350 MCM	4.45/175	2.03/80	36.48	1.436	42.07	1.656	44.86	1.766	3450	2318.29	1 AWG	550
500 MCM	4.45/175	2.03/80	39.53	1.556	45.88	1.806	48.67	1.916	4501	3024.53	1/0 AWG	685
750 MCM	4.45/175	2.79/110	48.08	1.893	54.43	2.143	57.22	2.253	6355	4270.36	1/0 AWG	885
1000 MCM	4.45/175	2.79/110	52.73	2.076	59.08	2.326	62.48	2.460	7885	5298.48	2/0 AWG	1060
15kV 133% Copper Single Conductor												
2 AWG	5.59/220	2.03/80	27.97	1.101	33.56	1.321	35.89	1.413	1487	999.22	6 AWG	195
1 AWG	5.59/220	2.03/80	28.76	1.132	34.34	1.352	36.68	1.444	1673	1124.20	4 AWG	225
1/0 AWG	5.59/220	2.03/80	29.75	1.171	35.34	1.391	37.67	1.483	1819	1222.31	4 AWG	260
2/0 AWG	5.59/220	2.03/80	30.76	1.211	36.35	1.431	38.69	1.523	1992	1338.56	4 AWG	300
3/0 AWG	5.59/220	2.03/80	32.52	1.280	38.10	1.500	40.90	1.610	2319	1558.30	3 AWG	345
4/0 AWG	5.59/220	2.03/80	33.84	1.332	39.42	1.552	42.22	1.662	2582	1735.02	3 AWG	400
250 MCM	5.59/220	2.03/80	35.24	1.387	40.83	1.607	43.62	1.717	2892	1943.33	2 AWG	445
350 MCM	5.59/220	2.03/80	38.81	1.528	45.16	1.778	47.96	1.888	3738	2511.82	1 AWG	550
500 MCM	5.59/220	2.03/80	41.86	1.648	48.21	1.898	51.00	2.008	4680	3144.81	1/0 AWG	685
750 MCM	5.59/220	2.79/110	50.41	1.985	56.76	2.235	59.55	2.344	6562	4409.46	1/0 AWG	885
1000 MCM	5.59/220	2.79/110	55.06	2.168	61.41	2.418	64.81	2.552	8112	5451.01	2/0 AWG	1060





# Caledonian Medium Voltage Cables

25kV 100% Copper Single Conductor												
Conductor	Insulation Thickness (mm/mils)	Sheath Thickness (mm/mils)	Inner Jacket Diameter (mm/in)		Armour Diameter (mm/in)		Overall Diameter (mm/in.)		Cable Weight (kg/km / lbs/ kft)		Equivalent Bonding Conductor Size	Ampacity (Amps) 90°C
1 AWG	6.60/260	2.03/80	30.83	1.214	36.42	1.434	38.75	1.526	1795	1206.18	4 AWG	225
1/0 AWG	6.60/260	2.03/80	31.82	1.253	37.41	1.473	39.74	1.565	1944	1306.31	4 AWG	260
2/0 AWG	6.60/260	2.03/80	32.83	1.293	38.42	1.513	41.22	1.623	2161	1452.12	4 AWG	300
3/0 AWG	6.60/260	2.03/80	34.59	1.362	40.17	1.581	42.97	1.692	2453	1648.34	3 AWG	345
4/0 AWG	6.60/260	2.03/80	36.36	1.431	41.95	1.652	44.75	1.762	2755	1851.27	3 AWG	395
250 MCM	6.60/260	2.03/80	37.77	1.487	43.36	1.707	46.15	1.817	3070	2062.94	2 AWG	440
350 MCM	6.60/260	2.03/80	40.88	1.609	47.23	1.859	50.03	1.970	3895	2617.32	1 AWG	545
500 MCM	6.60/260	2.79/110	45.53	1.793	51.88	2.043	54.67	2.152	5033	3382.02	1/0 AWG	680
750 MCM	6.60/260	2.79/110	53.34	2.100	59.69	2.350	63.10	2.484	6931	4657.42	1/0 AWG	870
1000 MCM	6.60/260	2.79/110	57.13	2.249	63.48	2.499	66.88	2.633	8320	5590.78	2/0 AWG	1040
25kV 133% Copper Single Conductor												
1/0 AWG	8/320	2.03/80	35.44	1.395	41.03	1.615	43.82	1.725	2225	1495.13	4 AWG	260
2/0 AWG	8/320	2.03/80	36.45	1.435	42.04	1.655	44.84	1.765	2408	1618.10	4 AWG	300
3/0 AWG	8/320	2.03/80	38.21	1.504	44.56	1.754	47.35	1.864	2830	1901.67	3 AWG	345
4/0 AWG	8/320	2.03/80	39.53	1.556	45.88	1.806	48.67	1.916	3108	2088.48	3 AWG	395
250 MCM	8/320	2.03/80	40.93	1.611	47.28	1.861	50.07	1.971	3433	2306.87	2 AWG	440
350 MCM	8/320	2.79/110	45.64	1.797	51.99	2.047	54.79	2.157	4334	2912.31	1 AWG	545
500 MCM	8/320	2.79/110	48.69	1.917	55.04	2.167	57.84	2.277	5309	3567.48	1/0 AWG	680
750 MCM	8/320	2.79/110	56.51	2.225	62.86	2.475	66.26	2.609	7244	4867.74	1/0 AWG	870
1000 MCM	8/320	2.79/110	60.29	2.374	66.64	2.624	70.04	2.757	8650	5812.53	2/0 AWG	1040

# Addison Medium Voltage Cables



28kV 100% Copper Single Conductor											
Conductor	Insulation Thickness (mm/mils)	Sheath Thickness (mm/mils)	Inner Jacket Diameter (mm/in)		Armour Diameter (mm/in)		Overall Diameter (mm/in.)		Cable Weight (kg/km / lbs/kft)	Equivalent Bonding Conductor Size	Ampacity (Amps)
							(D)				90°C
1 AWG	7.1/280	2.03/80	31.90	1.256	37.49	1.476	39.82	1.568	1860	4 AWG	225
1/0 AWG	7.1/280	2.03/80	32.89	1.295	38.48	1.515	41.27	1.625	2052	4 AWG	260
2/0 AWG	7.1/280	2.03/80	33.91	1.335	39.49	1.555	42.29	1.665	2231	4 AWG	300
3/0 AWG	7.1/280	2.03/80	36.11	1.422	41.70	1.642	44.50	1.752	2560	3 AWG	345
4/0 AWG	7.1/280	2.03/80	37.44	1.474	43.02	1.694	45.82	1.804	2830	3 AWG	395
250 MCM	7.1/280	2.03/80	38.84	1.529	45.19	1.779	47.98	1.889	3273	2 AWG	440
350 MCM	7.1/280	2.79/110	43.55	1.715	49.90	1.965	52.70	2.075	4159	1 AWG	545
500 MCM	7.1/280	2.79/110	46.60	1.835	52.95	2.085	55.74	2.194	5125	1/0 AWG	680
750 MCM	7.1/280	2.79/110	54.41	2.142	60.76	2.392	64.17	2.526	7036	1/0 AWG	870
1000 MCM	7.1/280	2.79/110	58.20	2.291	64.55	2.541	67.95	2.675	8430	2/0 AWG	1040
28kV 133% Copper Single Conductor											
1 AWG	8.76/345	2.03/80	35.81	1.410	41.40	1.630	44.19	1.740	2162	4 AWG	225
1/0 AWG	8.76/345	2.03/80	36.80	1.449	42.39	1.669	45.18	1.779	2319	4 AWG	260
2/0 AWG	8.76/345	2.03/80	37.81	1.489	43.40	1.709	46.20	1.819	2504	4 AWG	300
3/0 AWG	8.76/345	2.03/80	39.57	1.558	45.92	1.808	48.71	1.918	2932	3 AWG	345
4/0 AWG	8.76/345	2.03/80	40.89	1.610	47.24	1.860	50.03	1.970	3213	3 AWG	395
250 MCM	8.76/345	2.79/110	43.89	1.728	50.24	1.978	53.04	2.088	3723	2 AWG	440
350 MCM	8.76/345	2.79/110	47.01	1.851	53.36	2.101	56.15	2.211	4451	1 AWG	545
500 MCM	8.76/345	2.79/110	50.05	1.970	56.40	2.220	59.20	2.331	5433	1/0 AWG	680
750 MCM	8.76/345	2.79/110	57.87	2.278	64.22	2.528	67.62	2.662	7383	1/0 AWG	870
1000 MCM	8.76/345	2.79/110	61.65	2.427	68.00	2.677	71.41	2.811	8797	2/0 AWG	1040