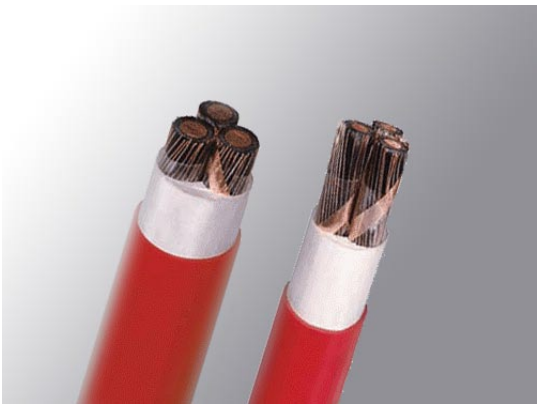
THREE CORE CABLES

Description

The three core cables are designed for distribution of electrical power with nominal voltage Uo/U ranging from 5KV to 46KV and frequency 50Hz. Three 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

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%. A mylar ribbon may be longitudinally applied under the copper tape for core identification. 1C red 1C Blue and 1C none. 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

EPR INSULATED CABLES MV-105

Tape Shielded Cables

5kV 100% Three Conductor												
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	2.03/80	33.3	1.31	1675	1126	1282	862	110	86	115	90
2 AWG	2.29/90	2.03/80	36.1	1.42	2136	1436	1512	1016	145	110	154	120
1 AWG	2.29/90	2.03/80	37.8	1.49	2443	1642	1654	1112	165	130	180	140
1/0 AWG	2.29/90	2.03/80	40.1	1.58	2848	1914	1839	1236	190	150	205	160
2/0 AWG	2.29/90	2.80/110	42.7	1.68	3444	2315	2144	1441	220	170	240	185
3/0 AWG	2.29/90	2.80/110	46.0	1.81	4138	2781	2555	1717	250	195	280	215
4/0 AWG	2.29/90	2.80/110	49.3	1.94	4877	3278	2888	1941	285	220	320	250
250 MCM	2.29/90	2.80/110	51.8	2.04	5542	3725	3197	2149	315	245	355	280
350 MCM	2.29/90	2.80/110	57.4	2.26	7247	4871	3946	2652	380	310	440	345
500 MCM	2.29/90	2.80/110	64.8	2.55	9806	6591	5099	3427	460	365	545	430
750 MCM	2.29/90	3.56/140	76.5	3.01	14267	9589	7058	4744	570	460	685	550
1000 MCM	2.29/90	3.56/140	84.8	3.34	18235	12256	8793	5910	645	535	790	650
5kV 133% Three Conductor												
4 AWG	2.92/115	2.03/80	35.8	1.41	1834	1233	969	969	110	86	115	90
2 AWG	2.92/115	2.03/80	38.6	1.52	2306	1550	1129	1130	145	110	154	120
1 AWG	2.92/115	2.03/80	40.6	1.60	2619	1760	1230	1230	165	130	180	140
1/0 AWG	2.92/115	2.03/80	42.9	1.69	3032	2038	1358	1359	190	150	205	160
2/0 AWG	2.92/115	2.80/110	46.2	1.82	3740	2514	1672	1672	220	170	240	185
3/0 AWG	2.92/115	2.80/110	48.8	1.92	4349	2923	1858	1859	250	195	280	215
4/0 AWG	2.92/115	2.80/110	51.8	2.04	5100	3428	2090	2091	285	220	320	250
250 MCM	2.92/115	2.80/110	54.6	2.15	5776	3882	2306	2306	315	245	355	280
350 MCM	2.92/115	2.80/110	60.2	2.37	7502	5042	2822	2823	380	310	440	345
500 MCM	2.92/115	2.80/110	67.6	2.66	10089	6781	3617	3617	460	365	545	430
750 MCM	2.92/115	3.56/140	79.0	3.11	14597	9811	4966	4967	570	460	685	550
1000 MCM	2.92/115	3.56/140	87.6	3.45	18598	12500	6152	6154	645	535	790	650

8kV 100%												
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	2.03/80	35.8	1.41	1834	1233	1442	969	125	96	135	105
2 AWG	2.92/115	2.03/80	38.6	1.52	2306	1550	1681	1130	160	125	185	145
1 AWG	2.92/115	2.03/80	40.6	1.60	2619	1760	1830	1230	185	145	210	165
1/0 AWG	2.92/115	2.80/110	42.9	1.69	3032	2038	2022	1359	210	165	240	185
2/0 AWG	2.92/115	2.80/110	46.2	1.82	3740	2514	2488	1672	235	185	275	215
3/0 AWG	2.92/115	2.80/110	48.8	1.92	4349	2923	2766	1859	270	210	315	245
4/0 AWG	2.92/115	2.80/110	51.8	2.04	5100	3428	3111	2091	305	240	360	285
250 MCM	2.92/115	2.80/110	54.6	2.15	5776	3882	3431	2306	335	265	400	315
350 MCM	2.92/115	2.80/110	60.2	2.37	7502	5042	4200	2823	400	315	490	385
500 MCM	2.92/115	3.56/140	67.6	2.66	10089	6781	5381	3617	485	385	600	475
750 MCM	2.92/115	3.56/140	79.0	3.11	14597	9811	7390	4967	585	475	745	600
1000 MCM	2.92/115	3.56/140	87.6	3.45	18598	12500	9156	6154	660	545	860	705
8kV 133%												
2 AWG	3.56/140	2.03/80	41.4	1.63	2485	1670	1861	1251	160	125	185	145
1 AWG	3.56/140	2.80/110	44.7	1.76	2952	1984	2162	1453	185	145	210	165
1/0 AWG	3.56/140	2.80/110	47.0	1.85	3382	2273	2369	1592	210	165	240	185
2/0 AWG	3.56/140	2.80/110	49.0	1.93	3952	2656	2700	1815	235	185	275	215
3/0 AWG	3.56/140	2.80/110	51.6	2.03	4572	3073	2988	2008	270	210	315	245
4/0 AWG	3.56/140	2.80/110	54.6	2.15	5334	3585	3345	2248	305	240	360	285
250 MCM	3.56/140	2.80/110	57.4	2.26	6020	4046	3675	2470	335	265	400	315
350 MCM	3.56/140	2.80/110	62.7	2.47	7766	5220	4465	3001	400	315	490	385
500 MCM	3.56/140	3.56/140	71.9	2.83	10617	7136	5910	3972	485	385	600	475
750 MCM	3.56/140	3.56/140	81.8	3.22	14938	10040	7731	5196	585	475	745	600
1000 MCM	3.56/140	3.56/140	90.4	3.56	18973	12752	9529	6405	660	545	860	705

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	2.80/110	46.7	1.84	2907	1954	2282	1534	160	125	185	145
1 AWG	4.45/175	2.80/110	48.5	1.91	3243	2180	2453	1649	185	145	210	165
1/0 AWG	4.45/175	2.80/110	50.8	2.00	3685	2477	2672	1796	210	165	240	185
2/0 AWG	4.45/175	2.80/110	52.8	2.08	4267	2868	3016	2027	235	185	275	215
3/0 AWG	4.45/175	2.80/110	55.4	2.18	4899	3293	3316	2229	270	210	315	245
4/0 AWG	4.45/175	2.80/110	58.4	2.30	5679	3817	3690	2480	305	240	360	285
250 MCM	4.45/175	2.80/110	61.2	2.41	6378	4287	4035	2712	335	265	400	315
350 MCM	4.45/175	3.56/140	67.6	2.66	8250	5545	4947	3325	400	315	490	385
500 MCM	4.45/175	3.56/140	75.7	2.98	11059	7433	6351	4269	485	385	600	475
750 MCM	4.45/175	3.56/140	85.6	3.37	15433	10373	8226	5529	585	475	745	600
1000 MCM	4.45/175	3.56/140	95.0	3.74	19642	13202	10200	6856	660	545	860	705
15kV 133% to ICEA Standard												
2 AWG	5.59/220	2.80/110	51.8	2.04	3300	2218	2675	1798	160	125	185	145
1 AWG	5.59/220	2.80/110	53.6	2.11	3648	2452	2860	1922	185	145	210	165
1/0 AWG	5.59/220	2.80/110	55.9	2.20	4106	2760	3090	2077	210	165	240	185
2/0 AWG	5.59/220	2.80/110	57.7	2.27	4701	3160	3452	2320	235	185	275	215
3/0 AWG	5.59/220	2.80/110	60.5	2.38	5352	3597	3769	2533	270	210	315	245
4/0 AWG	5.59/220	2.80/110	63.5	2.50	6154	4136	4163	2798	305	240	360	285
250 MCM	5.59/220	2.80/110	67.1	2.64	6964	4681	4620	3105	335	265	400	315
350 MCM	5.59/220	3.56/140	73.9	2.91	9028	6068	5725	3848	400	315	490	385
500 MCM	5.59/220	3.56/140	80.5	3.17	11657	7835	6950	4671	485	385	600	475
750 MCM	5.59/220	3.56/140	90.7	3.57	16101	10822	8894	5978	585	475	745	600
1000 MCM	5.59/220	3.56/140	100.1	3.94	20374	13694	10932	7348	660	545	860	705

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	2.80/110	57.9	2.28	4038	2714	3248	2183	185	145	210	165
1/0 AWG	6.60/260	2.80/110	60.2	2.37	4510	3031	3492	2347	210	165	240	185
2/0 AWG	6.60/260	2.80/110	62.2	2.45	5117	3439	3867	2599	235	185	275	215
3/0 AWG	6.60/260	2.80/110	65.5	2.58	5874	3948	4291	2884	270	210	315	245
4/0 AWG	6.60/260	3.56/140	68.6	2.70	6698	4502	4707	3164	305	240	360	285
250 MCM	6.60/260	3.56/140	72.9	2.87	7674	5158	5329	3582	335	265	400	315
350 MCM	6.60/260	3.56/140	78.5	3.09	9547	6417	6246	4198	400	315	490	385
500 MCM	6.60/260	3.56/140	85.1	3.35	12216	8211	7509	5047	485	385	600	475
750 MCM	6.60/260	3.56/140	96.0	3.78	16854	11328	9645	6483	585	475	745	600
1000 MCM	6.60/260	3.56/140	104.4	4.11	21054	14151	11611	7804	660	545	860	705
25kV 133% to ICEA Standard												
1/0 AWG	8.76/345	3.56/140	72.1	2.84	5813	3907	4791	3220	210	165	240	185
2/0 AWG	8.76/345	3.56/140	74.2	2.92	6454	4338	5207	3500	235	185	275	215
3/0 AWG	8.76/345	3.56/140	76.7	3.02	7167	4817	5584	3753	270	210	315	245
4/0 AWG	8.76/345	3.56/140	79.8	3.14	8042	5405	6052	4068	305	240	360	285
250 MCM	8.76/345	3.56/140	82.6	3.25	8824	5931	6479	4355	335	265	400	315
350 MCM	8.76/345	3.56/140	87.9	3.46	10770	7239	7469	5020	400	315	490	385
500 MCM	8.76/345	3.56/140	95.5	3.76	13658	9180	8951	6016	485	385	600	475

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	3.56/140	72.1	2.84	5813	3907	4791	3220	210	165	240	185
2/0 AWG	8.76/345	3.56/140	74.2	2.92	6454	4338	5207	3500	235	185	275	215
3/0 AWG	8.76/345	3.56/140	76.7	3.02	7167	4817	5584	3753	270	210	315	245
4/0 AWG	8.76/345	3.56/140	79.8	3.14	8042	5405	6052	4068	305	240	360	285
250 MCM	8.76/345	3.56/140	82.6	3.25	8824	5931	6479	4355	335	265	400	315
350 MCM	8.76/345	3.56/140	87.9	3.46	10770	7239	7469	5020	400	315	490	385
500 MCM	8.76/345	3.56/140	95.5	3.76	13658	9180	8951	6016	485	385	600	475
35kV 133% to ICEA Standard												
1/0 AWG	10.67/420	3.56/140	80.5	3.17	6789	4563	5764	3874	210	165	240	185
2/0 AWG	10.67/420	3.56/140	82.3	3.24	7452	5009	6207	4172	235	185	275	215
3/0 AWG	10.67/420	3.56/140	84.8	3.34	8195	5508	6612	4444	270	210	315	245
4/0 AWG	10.67/420	3.56/140	87.9	3.46	9105	6120	7115	4782	305	240	360	285
250 MCM	10.67/420	3.56/140	90.7	3.57	9918	6666	7574	5091	335	265	400	315
350 MCM	10.67/420	3.56/140	97.0	3.82	12060	8106	8759	5887	400	315	490	385
500 MCM	10.67/420	3.56/140	103.6	4.08	14902	10016	10194	6852	485	385	600	475

Armoured Tape Shielded Cables
AIA

5kV 100% Three Conductor AIA												
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	2.03/80	37.3	1.47	1882	1265	1489	1001	110	86	115	90
2 AWG	2.29/90	2.03/80	40.1	1.58	2358	1585	1733	1165	145	110	154	120
1 AWG	2.29/90	2.03/80	42.7	1.68	2721	1829	1931	1298	165	130	180	140
1/0 AWG	2.29/90	2.03/80	45.0	1.77	3141	2111	2129	1431	190	150	205	160
2/0 AWG	2.29/90	2.80/110	47.2	1.86	3779	2540	2526	1698	220	170	240	185
3/0 AWG	2.29/90	2.80/110	49.8	1.96	4391	2951	2807	1887	250	195	280	215
4/0 AWG	2.29/90	2.80/110	52.8	2.08	5145	3458	3156	2121	285	220	320	250
250 MCM	2.29/90	2.80/110	55.6	2.19	5823	3914	3478	2338	315	245	355	280
350 MCM	2.29/90	2.80/110	62.0	2.44	7656	5146	4355	2927	380	310	440	345
500 MCM	2.29/90	2.80/110	69.3	2.73	10263	6898	5555	3734	460	365	545	430
750 MCM	2.29/90	3.56/140	79.8	3.14	14628	9832	7420	4987	570	460	685	550
1000 MCM	2.29/90	3.56/140	88.4	3.48	18633	12524	9190	6177	645	535	790	650
5kV 133% Three Conductor AIA												
4 AWG	2.92/115	2.03/80	40.1	1.58	2055	1381	1662	1117	110	86	115	90
2 AWG	2.92/115	2.03/80	43.4	1.71	2589	1740	1965	1321	145	110	154	120
1 AWG	2.92/115	2.03/80	45.2	1.78	2915	1959	2126	1429	165	130	180	140
1/0 AWG	2.92/115	2.03/80	48.0	1.89	3420	2299	2409	1619	190	150	205	160
2/0 AWG	2.92/115	2.80/110	50.0	1.97	3993	2684	2742	1843	220	170	240	185
3/0 AWG	2.92/115	2.80/110	52.6	2.07	4615	3102	3032	2038	250	195	280	215
4/0 AWG	2.92/115	2.80/110	55.6	2.19	5381	3617	3392	2280	285	220	320	250
250 MCM	2.92/115	2.80/110	58.4	2.30	6070	4080	3725	2504	315	245	355	280
350 MCM	2.92/115	2.80/110	64.5	2.54	7929	5329	4627	3110	380	310	440	345
500 MCM	2.92/115	2.80/110	72.1	2.84	10565	7101	5858	3937	460	365	545	430
750 MCM	2.92/115	3.56/140	82.6	3.25	14970	10062	7763	5218	570	460	685	550
1000 MCM	2.92/115	3.56/140	91.2	3.59	19008	12776	9565	6429	645	535	790	650

8kV 100% Three Conductor AIA												
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	2.03/80	40.1	1.58	2055	1381	1662	1117	125	96	135	105
2 AWG	2.92/115	2.03/80	43.4	1.71	2589	1740	1965	1321	160	125	185	145
1 AWG	2.92/115	2.03/80	45.2	1.78	2915	1959	2126	1429	185	145	210	165
1/0 AWG	2.92/115	2.80/110	47.8	1.88	3420	2299	2409	1619	210	165	240	185
2/0 AWG	2.92/115	2.80/110	50.3	1.98	3993	2684	2742	1843	235	185	275	215
3/0 AWG	2.92/115	2.80/110	52.6	2.07	4615	3102	3032	2038	270	210	315	245
4/0 AWG	2.92/115	2.80/110	55.6	2.19	5381	3617	3392	2280	305	240	360	285
250 MCM	2.92/115	2.80/110	58.4	2.30	6070	4080	3725	2504	335	265	400	315
350 MCM	2.92/115	2.80/110	64.5	2.54	7929	5329	4627	3110	400	315	490	385
500 MCM	2.92/115	3.56/140	72.1	2.84	10565	7101	5858	3937	485	385	600	475
750 MCM	2.92/115	3.56/140	82.6	3.25	14970	10062	7763	5218	585	475	745	600
1000 MCM	2.92/115	3.56/140	91.2	3.59	19008	12776	9565	6429	660	545	860	705
8kV 133% Three Conductor AIA												
2 AWG	3.56/140	2.03/80	46.2	1.82	2787	1873	2163	1454	160	125	185	145
1 AWG	3.56/140	2.80/110	48.5	1.91	3197	2149	2409	1619	185	145	210	165
1/0 AWG	3.56/140	2.80/110	50.5	1.99	3639	2446	2624	1764	210	165	240	185
2/0 AWG	3.56/140	2.80/110	52.8	2.08	4219	2836	2968	1995	235	185	275	215
3/0 AWG	3.56/140	2.80/110	55.4	2.18	4850	3260	3267	2196	270	210	315	245
4/0 AWG	3.56/140	2.80/110	58.4	2.30	5628	3783	3639	2446	305	240	360	285
250 MCM	3.56/140	2.80/110	62.0	2.44	6429	4321	4084	2745	335	265	400	315
350 MCM	3.56/140	2.80/110	67.3	2.65	8211	5519	4910	3300	400	315	490	385
500 MCM	3.56/140	3.56/140	74.9	2.95	10876	7310	6168	4146	485	385	600	475
750 MCM	3.56/140	3.56/140	85.3	3.36	15323	10299	8116	5455	585	475	745	600
1000 MCM	3.56/140	3.56/140	93.7	3.69	19394	13035	9952	6689	660	545	860	705

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	2.80/110	50.5	1.99	3163	2126	2538	1706	160	125	185	145
1 AWG	4.45/175	2.80/110	52.3	2.06	3508	2358	2720	1828	185	145	210	165
1/0 AWG	4.45/175	2.80/110	54.6	2.15	3962	2663	2946	1980	210	165	240	185
2/0 AWG	4.45/175	2.80/110	56.6	2.23	4553	3060	3301	2219	235	185	275	215
3/0 AWG	4.45/175	2.80/110	59.2	2.33	5198	3494	3615	2430	270	210	315	245
4/0 AWG	4.45/175	2.80/110	63.0	2.48	6096	4097	4106	2760	305	240	360	285
250 MCM	4.45/175	2.80/110	65.8	2.59	6813	4579	4468	3003	335	265	400	315
350 MCM	4.45/175	3.56/140	72.1	2.84	8725	5864	5423	3645	400	315	490	385
500 MCM	4.45/175	3.56/140	78.7	3.10	11330	7615	6622	4451	485	385	600	475
750 MCM	4.45/175	3.56/140	89.2	3.51	15836	10644	8628	5799	585	475	745	600
1000 MCM	4.45/175	3.56/140	98.6	3.88	20085	13500	10642	7153	660	545	860	705
15kV 133% to ICEA Standard												
2 AWG	5.59/220	2.80/110	55.6	2.19	3580	2406	2956	1987	160	125	185	145
1 AWG	5.59/220	2.80/110	57.4	2.26	3938	2647	3148	2116	185	145	210	165
1/0 AWG	5.59/220	2.80/110	59.7	2.35	4407	2962	3391	2279	210	165	240	185
2/0 AWG	5.59/220	2.80/110	62.2	2.45	5114	3437	3864	2597	235	185	275	215
3/0 AWG	5.59/220	2.80/110	64.8	2.55	5782	3886	4197	2821	270	210	315	245
4/0 AWG	5.59/220	2.80/110	68.1	2.68	6601	4437	4612	3100	305	240	360	285
250 MCM	5.59/220	2.80/110	71.6	2.82	7436	4998	5091	3422	335	265	400	315
350 MCM	5.59/220	3.56/140	77.0	3.03	9294	6247	5991	4027	400	315	490	385
500 MCM	5.59/220	3.56/140	84.1	3.31	12036	8090	7329	4926	485	385	600	475
750 MCM	5.59/220	3.56/140	94.2	3.71	16525	11107	9317	6262	585	475	745	600
1000 MCM	5.59/220	3.56/140	103.4	4.07	20838	14006	11395	7659	660	545	860	705

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	2.80/110	62.5	2.46	4450	2991	3661	2461	185	145	210	165
1/0 AWG	6.60/260	2.80/110	64.8	2.55	4938	3319	3919	2634	210	165	240	185
2/0 AWG	6.60/260	2.80/110	66.8	2.63	5557	3735	4309	2896	235	185	275	215
3/0 AWG	6.60/260	2.80/110	70.1	2.76	6338	4260	4755	3196	270	210	315	245
4/0 AWG	6.60/260	3.56/140	73.2	2.88	7182	4827	5191	3489	305	240	360	285
250 MCM	6.60/260	3.56/140	75.9	2.99	7936	5334	5593	3759	335	265	400	315
350 MCM	6.60/260	3.56/140	81.8	3.22	9918	6666	6616	4447	400	315	490	385
500 MCM	6.60/260	3.56/140	88.4	3.48	12617	8480	7909	5316	485	385	600	475
750 MCM	6.60/260	3.56/140	99.3	3.91	17300	11628	10092	6783	585	475	745	600
25kV 133% to ICEA Standard												
1/0 AWG	8.76/345	3.56/140	75.2	2.96	6073	4082	4081	2743	210	165	240	185
2/0 AWG	8.76/345	3.56/140	77.2	3.04	6720	4517	4515	3035	235	185	275	215
3/0 AWG	8.76/345	3.56/140	79.8	3.14	7442	5002	5001	3361	270	210	315	245
4/0 AWG	8.76/345	3.56/140	83.3	3.28	8418	5658	5657	3802	305	240	360	285
250 MCM	8.76/345	3.56/140	85.9	3.38	9213	6192	6191	4161	335	265	400	315
350 MCM	8.76/345	3.56/140	91.4	3.60	11182	7516	7515	5051	400	315	490	385
500 MCM	8.76/345	3.56/140	98.8	3.89	14103	9479	9477	6370	485	385	600	475

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	3.56/140	75.2	2.96	6073	4082	5051	3395	210	165	240	185
2/0 AWG	8.76/345	3.56/140	77.2	3.04	6720	4517	5475	3680	235	185	275	215
3/0 AWG	8.76/345	3.56/140	79.8	3.14	7442	5002	5859	3938	270	210	315	245
4/0 AWG	8.76/345	3.56/140	83.3	3.28	8418	5658	6429	4321	305	240	360	285
250 MCM	8.76/345	3.56/140	85.9	3.38	9213	6192	6868	4616	335	265	400	315
350 MCM	8.76/345	3.56/140	91.4	3.60	11182	7516	7881	5297	400	315	490	385
500 MCM	8.76/345	3.56/140	98.8	3.89	14103	9479	9396	6315	485	385	600	475
35kV 133% to ICEA Standard												
1/0 AWG	10.67/420	3.56/140	83.8	3.30	7168	4818	6142	4128	210	165	240	185
2/0 AWG	10.67/420	3.56/140	85.9	3.38	7839	5269	6595	4433	235	185	275	215
3/0 AWG	10.67/420	3.56/140	88.4	3.48	8594	5776	7011	4712	270	210	315	245
4/0 AWG	10.67/420	3.56/140	91.4	3.60	9518	6397	7527	5059	305	240	360	285
250 MCM	10.67/420	3.56/140	94.2	3.71	10342	6951	7997	5375	335	265	400	315
350 MCM	10.67/420	3.56/140	100.6	3.96	12511	8409	9210	6190	400	315	490	385

Three Conductor GSIA

5kV 100% Three Conductor GSIA												
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	2.03/80	36.8	1.45	2239	1505	1846	1241	110	86	115	90
2 AWG	2.29/90	2.03/80	39.6	1.56	2748	1847	2123	1427	145	110	154	120
1 AWG	2.29/90	2.03/80	42.2	1.66	3132	2105	2342	1574	165	130	180	140
1/0 AWG	2.29/90	2.03/80	44.5	1.75	3577	2404	2563	1723	190	150	205	160
2/0 AWG	2.29/90	2.80/110	47.0	1.85	4380	2944	3129	2103	220	170	240	185
3/0 AWG	2.29/90	2.80/110	49.5	1.95	5030	3381	3446	2316	250	195	280	215
4/0 AWG	2.29/90	2.80/110	52.6	2.07	5829	3918	3840	2581	285	220	320	250
250 MCM	2.29/90	2.80/110	55.4	2.18	6546	4400	4202	2824	315	245	355	280
350 MCM	2.29/90	2.80/110	61.7	2.43	8461	5687	5158	3467	380	310	440	345
500 MCM	2.29/90	2.80/110	69.1	2.72	11178	7513	6470	4349	460	365	545	430
750 MCM	2.29/90	3.56/140	79.5	3.13	15689	10545	8482	5701	570	460	685	550
1000 MCM	2.29/90	3.56/140	88.1	3.47	19821	13322	10377	6975	645	535	790	650
5kV 133% Three Conductor GSIA												
4 AWG	2.92/115	2.03/80	39.6	1.56	2444	1643	2052	1379	110	86	115	90
2 AWG	2.92/115	2.03/80	42.9	1.69	3010	2023	2386	1604	145	110	154	120
1 AWG	2.92/115	2.03/80	44.7	1.76	3356	2256	2568	1726	165	130	180	140
1/0 AWG	2.92/115	2.03/80	47.8	1.88	4033	2711	3017	2028	190	150	205	160
2/0 AWG	2.92/115	2.80/110	49.8	1.96	4635	3115	3385	2275	220	170	240	185
3/0 AWG	2.92/115	2.80/110	52.3	2.06	5295	3559	3712	2495	250	195	280	215
4/0 AWG	2.92/115	2.80/110	55.4	2.18	6106	4104	4117	2767	285	220	320	250
250 MCM	2.92/115	2.80/110	58.2	2.29	6834	4593	4489	3017	315	245	355	280
350 MCM	2.92/115	2.80/110	64.3	2.53	8774	5897	5472	3678	380	310	440	345
500 MCM	2.92/115	2.80/110	71.9	2.83	11519	7742	6811	4578	460	365	545	430
750 MCM	2.92/115	3.56/140	82.3	3.24	16073	10803	8866	5959	570	460	685	550
1000 MCM	2.92/115	3.56/140	90.9	3.58	20236	13601	10793	7254	645	535	790	650

8kV 100% Three Conductor GSIA												
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	2.03/80	39.6	1.56	2444	1643	2052	1379	125	96	135	105
2 AWG	2.92/115	2.03/80	42.9	1.69	3010	2023	2386	1604	160	125	185	145
1 AWG	2.92/115	2.03/80	44.7	1.76	3356	2256	2568	1726	185	145	210	165
1/0 AWG	2.92/115	2.80/110	47.8	1.88	4033	2711	3017	2028	210	165	240	185
2/0 AWG	2.92/115	2.80/110	49.8	1.96	4635	3115	3385	2275	235	185	275	215
3/0 AWG	2.92/115	2.80/110	52.3	2.06	5295	3559	3712	2495	270	210	315	245
4/0 AWG	2.92/115	2.80/110	55.4	2.18	6106	4104	4117	2767	305	240	360	285
250 MCM	2.92/115	2.80/110	58.2	2.29	6834	4593	4489	3017	335	265	400	315
350 MCM	2.92/115	2.80/110	64.3	2.53	8774	5897	5472	3678	400	315	490	385
500 MCM	2.92/115	3.56/140	71.9	2.83	11519	7742	6811	4578	485	385	600	475
750 MCM	2.92/115	3.56/140	82.3	3.24	16073	10803	8866	5959	585	475	745	600
1000 MCM	2.92/115	3.56/140	90.9	3.58	20236	13601	10793	7254	660	545	860	705
8kV 133% Three Conductor GSIA												
2 AWG	3.56/140	2.03/80	45.7	1.80	3239	2177	2616	1758	160	125	185	145
1 AWG	3.56/140	2.80/110	48.3	1.90	3816	2565	3028	2035	185	145	210	165
1/0 AWG	3.56/140	2.80/110	50.5	1.99	4292	2885	3275	2201	210	165	240	185
2/0 AWG	3.56/140	2.80/110	52.6	2.07	4901	3294	3651	2454	235	185	275	215
3/0 AWG	3.56/140	2.80/110	55.1	2.17	5570	3744	3987	2680	270	210	315	245
4/0 AWG	3.56/140	2.80/110	58.2	2.29	6395	4298	4404	2960	305	240	360	285
250 MCM	3.56/140	2.80/110	61.7	2.43	7232	4861	4889	3286	335	265	400	315
350 MCM	3.56/140	2.80/110	67.1	2.64	9096	6114	5795	3895	400	315	490	385
500 MCM	3.56/140	3.56/140	74.7	2.94	11871	7979	7164	4815	485	385	600	475
750 MCM	3.56/140	3.56/140	85.1	3.35	16467	11068	9259	6223	585	475	745	600
1000 MCM	3.56/140	3.56/140	93.5	3.68	20661	13887	11220	7541	660	545	860	705

15kV 100% Three Conductor GSIA												
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	2.80/110	50.3	1.98	3812	2562	3188	2143	160	125	185	145
1 AWG	4.45/175	2.80/110	52.1	2.05	4184	2812	3395	2282	185	145	210	165
1/0 AWG	4.45/175	2.80/110	54.4	2.14	4672	3140	3653	2455	210	165	240	185
2/0 AWG	4.45/175	2.80/110	56.4	2.22	5291	3556	4042	2717	235	185	275	215
3/0 AWG	4.45/175	2.80/110	58.9	2.32	5974	4015	4391	2951	270	210	315	245
4/0 AWG	4.45/175	2.80/110	62.7	2.47	6917	4649	4928	3312	305	240	360	285
250 MCM	4.45/175	2.80/110	65.5	2.58	7674	5158	5329	3582	335	265	400	315
350 MCM	4.45/175	3.56/140	71.9	2.83	9680	6506	6378	4287	400	315	490	385
500 MCM	4.45/175	3.56/140	78.5	3.09	12382	8322	7674	5158	485	385	600	475
750 MCM	4.45/175	3.56/140	88.9	3.50	17035	11450	9828	6606	585	475	745	600
1000 MCM	4.45/175	3.56/140	98.3	3.87	21421	14398	11980	8052	660	545	860	705
15kV 133% Three Conductor GSIA												
2 AWG	5.59/220	2.80/110	55.4	2.18	4303	2892	3678	2472	160	125	185	145
1 AWG	5.59/220	2.80/110	57.2	2.25	4687	3150	3898	2620	185	145	210	165
1/0 AWG	5.59/220	2.80/110	59.4	2.34	5189	3488	4169	2802	210	165	240	185
2/0 AWG	5.59/220	2.80/110	62.0	2.44	5924	3982	4678	3144	235	185	275	215
3/0 AWG	5.59/220	2.80/110	64.5	2.54	6630	4456	5047	3392	270	210	315	245
4/0 AWG	5.59/220	2.80/110	67.8	2.67	7496	5038	5506	3701	305	240	360	285
250 MCM	5.59/220	2.80/110	71.4	2.81	8382	5634	6039	4059	335	265	400	315
350 MCM	5.59/220	3.56/140	76.7	3.02	10321	6937	7019	4718	400	315	490	385
500 MCM	5.59/220	3.56/140	83.8	3.30	13161	8846	8454	5682	485	385	600	475
750 MCM	5.59/220	3.56/140	94.0	3.70	17797	11962	10589	7117	585	475	745	600
1000 MCM	5.59/220	3.56/140	103.1	4.06	22249	14954	12806	8607	660	545	860	705

25kV 100% Three Conductor GSIA												
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	2.80/110	62.2	2.45	5264	3538	4475	3008	185	145	210	165
1/0 AWG	6.60/260	2.80/110	64.5	2.54	5785	3888	4762	3201	210	165	240	185
2/0 AWG	6.60/260	2.80/110	66.5	2.62	6432	4323	5186	3486	235	185	275	215
3/0 AWG	6.60/260	2.80/110	69.9	2.75	7263	4882	5680	3818	270	210	315	245
4/0 AWG	6.60/260	3.56/140	72.9	2.87	8153	5480	6163	4142	305	240	360	285
250 MCM	6.60/260	3.56/140	75.7	2.98	8948	6014	6603	4438	335	265	400	315
350 MCM	6.60/260	3.56/140	81.5	3.21	11010	7400	7708	5181	400	315	490	385
500 MCM	6.60/260	3.56/140	88.1	3.47	13805	9279	9098	6115	485	385	600	475
750 MCM	6.60/260	3.56/140	99.1	3.90	18650	12535	11443	7691	585	475	745	600
25kV 133% Three Conductor GSIA												
1/0 AWG	8.76/345	3.56/140	74.9	2.95	7075	4755	6048	4065	210	165	240	185
2/0 AWG	8.76/345	3.56/140	77.0	3.03	7750	5209	6506	4373	235	185	275	215
3/0 AWG	8.76/345	3.56/140	79.5	3.13	8509	5719	6926	4655	270	210	315	245
4/0 AWG	8.76/345	3.56/140	83.1	3.27	9531	6406	7540	5068	305	240	360	285
250 MCM	8.76/345	3.56/140	85.6	3.37	10364	6966	8019	5390	335	265	400	315
350 MCM	8.76/345	3.56/140	91.2	3.59	12416	8345	9113	6125	400	315	490	385
500 MCM	8.76/345	3.56/140	98.6	3.88	15445	10381	10738	7217	485	385	600	475

35kV 100% Three Conductor GSIA												
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	3.56/140	74.9	2.95	7075	4755	6048	4065	210	165	240	185
2/0 AWG	8.76/345	3.56/140	77.0	3.03	7750	5209	6506	4373	235	185	275	215
3/0 AWG	8.76/345	3.56/140	79.5	3.13	8509	5719	6926	4655	270	210	315	245
4/0 AWG	8.76/345	3.56/140	83.1	3.27	9531	6406	7540	5068	305	240	360	285
250 MCM	8.76/345	3.56/140	85.6	3.37	10364	6966	8019	5390	335	265	400	315
350 MCM	8.76/345	3.56/140	91.2	3.59	12416	8345	9113	6125	400	315	490	385
500 MCM	8.76/345	3.56/140	98.6	3.88	15445	10381	10738	7217	485	385	600	475
35kV 133% Three Conductor GSIA												
1/0 AWG	10.67/420	3.56/140	83.6	3.29	8290	5572	7261	4880	210	165	240	185
2/0 AWG	10.67/420	3.56/140	85.6	3.37	8991	6043	7749	5208	235	185	275	215
3/0 AWG	10.67/420	3.56/140	88.1	3.47	9782	6575	8198	5510	270	210	315	245
4/0 AWG	10.67/420	3.56/140	91.2	3.59	10751	7226	8760	5888	305	240	360	285
250 MCM	10.67/420	3.56/140	94.0	3.70	11615	7807	9271	6231	335	265	400	315
350 MCM	10.67/420	3.56/140	100.3	3.95	13878	9328	10577	7109	400	315	490	385

AIA ARMOURED 3C

5kV 100% 133% Copper Three Conductor									
Conductor	Insulation Thickness (mm/mils)	Sheath Thickness (mm/mils)	Armour Diameter (mm/in)		Overall Diameter (mm/in.)		Cable Weight (kg/km / lbs/kft)		Ampacity (Amps) 90°C
					(D)				
6 AWG	2.29/90	2.03/80	35.97	1.42	38.30	1.51	1625	2418	65
4 AWG	2.29/90	2.03/80	38.43	1.51	41.22	1.62	1963	2921	105
2 AWG	2.29/90	2.03/80	41.45	1.63	44.24	1.74	2482	3693	140
1 AWG	2.29/90	2.03/80	4315	169.88	45.94	1.81	2798	4163	160
1/0 AWG	2.29/90	2.80/110	46.05	1.81	48.84	1.92	3325	4947	185
2/0 AWG	2.29/90	2.80/110	49.77	1.96	52.56	2.07	3981	5923	215
3/0 AWG	2.29/90	2.80/110	52.55	2.07	55.35	2.18	4672	6951	250
4/0 AWG	2.29/90	2.80/110	55.41	2.18	58.20	2.29	5422	8067	285
250 MCM	2.29/90	2.80/110	58.31	2.30	61.72	2.43	6195	9217	320
350 MCM	2.29/90	2.80/110	63.58	2.50	66.98	2.64	7901	11755	395
500 MCM	2.29/90	2.80/110	70.16	2.76	73.57	2.90	10318	15351	485
750 MCM	2.29/90	3.56/140	85.83	3.38	89.74	3.53	15213	22634	615
1000 MCM	2.29/90	3.56/140	94.28	3.71	98.19	3.87	19443	28927	705

8kV 100% Three Conduct									
Conductor	Insulation Thickness (mm/mils)	Sheath Thickness (mm/mils)	Armour Diameter (mm/in)		Overall Diameter (mm/ in.)		Cable Weight (kg/km / lbs/ kft)		Ampacity (Amps) 90°C
					(D)				
4 AWG	2.92/115	2.03/80	41.01	1.61	43.80	1.72	2126	3163	120
2 AWG	2.92/115	2.03/80	44.79	1.76	47.58	1.87	2781	4138	165
1 AWG	2.92/115	2.03/80	46.49	1.83	49.29	1.94	3110	4627	185
1/0 AWG	2.92/115	2.80/110	50.21	1.98	53.00	2.09	3703	5509	215
2/0 AWG	2.92/115	2.80/110	52.55	2.07	55.35	2.18	4212	6267	245
3/0 AWG	2.92/115	2.80/110	55.19	2.17	57.98	2.28	4907	7301	285
4/0 AWG	2.92/115	2.80/110	58.04	2.29	61.44	2.42	5751	8556	325
250 MCM	2.92/115	2.80/110	61.06	2.40	64.46	2.54	6471	9628	360
350 MCM	2.92/115	2.80/110	66.32	2.61	69.73	2.75	8204	12206	435
500 MCM	2.92/115	3.56/140	73.89	2.91	77.30	3.04	10768	16021	535
750 MCM	2.92/115	3.56/140	88.79	3.50	92.70	3.65	15691	23345	670
1000 MCM	2.92/115	3.56/140	97.23	3.83	101.15	3.98	19987	29737	770
8kV 133% Three Conductor									
2 AWG	3.56/140	2.03/80	47.64	1.88	50.44	1.99	3163	4706	165
1 AWG	3.56/140	2.80/110	51.07	2.01	53.87	2.12	4138	6157	185
1/0 AWG	3.56/140	2.80/110	53.21	2.09	56.00	2.20	4627	6884	215
2/0 AWG	3.56/140	2.80/110	55.41	2.18	58.20	2.29	5509	8196	245
3/0 AWG	3.56/140	2.80/110	58.04	2.29	61.44	2.42	6267	9324	285
4/0 AWG	3.56/140	2.80/110	60.89	2.40	64.30	2.53	7301	10862	325
250 MCM	3.56/140	2.80/110	63.91	2.52	67.31	2.65	8556	12730	360
350 MCM	3.56/140	2.80/110	69.18	2.72	72.58	2.86	9628	14325	435
500 MCM	3.56/140	3.56/140	78.53	3.09	82.44	3.25	12206	18160	535
750 MCM	3.56/140	3.56/140	91.64	3.61	95.55	3.76	16021	23836	670
1000 MCM	3.56/140	3.56/140	100.09	3.94	104.00	4.09	23345	34733	**770**

15kV 100% Three Conductor									
Conductor	Insulation Thickness (mm/mils)	Sheath Thickness (mm/mils)	Armour Diameter (mm/in)		Overall Diameter (mm/in.)		Cable Weight (kg/km / lbs/kft)		Ampacity (Amps) 90°C
2 AWG	4.5/175	2.80/110	53.21	2.09	56.00	2.20	3437	5114	165
1 AWG	4.5/175	2.80/110	54.91	2.16	57.71	2.27	3782	5627	185
1/0 AWG	4.5/175	2.80/110	57.05	2.25	60.46	2.38	4298	6395	215
2/0 AWG	4.5/175	2.80/110	59.25	2.33	62.65	2.47	4817	7167	245
3/0 AWG	4.5/175	2.80/110	61.88	2.44	65.28	2.57	5533	8232	285
4/0 AWG	4.5/175	2.80/110	64.73	2.55	68.14	2.68	6319	9401	325
250 MCM	4.5/175	2.80/110	67.75	2.67	71.15	2.80	7059	10502	360
350 MCM	4.5/175	3.56/140	74.00	2.91	77.41	3.05	8934	13292	435
500 MCM	4.5/175	3.56/140	82.37	3.24	86.28	3.40	11878	17672	535
750 MCM	4.5/175	3.56/140	945.48	37.22	99.39	3.91	16486	24528	670
1000 MCM	4.5/175	3.56/140	105.02	4.13	108.94	4.29	21016	31268	770
15kV 133% Three Conductor									
2 AWG	5.6/220	2.80/110	58.26	2.29	61.66	2.43	3912	5820	165
1 AWG	5.6/220	2.80/110	59.96	2.36	63.36	2.49	4268	6350	185
1/0 AWG	5.6/220	2.80/110	62.10	2.44	65.50	2.58	4717	7018	215
2/0 AWG	5.6/220	2.80/110	64.29	2.53	67.70	2.67	5247	7807	245
3/0 AWG	5.6/220	2.80/110	66.93	2.64	70.33	2.77	5976	8891	285
4/0 AWG	5.6/220	2.80/110	69.78	2.75	73.18	2.88	6776	10081	325
250 MCM	5.6/220	2.80/110	72.80	2.87	76.20	3.00	7531	11205	360
350 MCM	5.6/220	3.56/140	80.83	3.18	84.74	3.34	9867	14680	435
500 MCM	5.6/220	3.56/140	87.41	3.44	91.33	3.60	12441	18510	535
750 MCM	5.6/220	3.56/140	100.53	3.96	104.44	4.11	17115	25464	670

25kV 100%Three Conductor									
Conductor	Insulation Thickness (mm/mils)	Sheath Thickness (mm/mils)	Armour Diameter (mm/in)		Overall Diameter (mm/in.)		Cable Weight (kg/km / lbs/kft)		Ampacity (Amps) 90°C
1 AWG	6.6/260	2.80/110	64.46	2.54	67.86	2.67	4653	6923	185
1/0 AWG	6.6/260	2.80/110	66.60	2.62	70.00	2.76	5112	7606	215
2/0 AWG	6.6/260	2.80/110	68.79	2.71	72.20	2.84	5652	8409	245
3/0 AWG	6.6/260	2.80/110	71.43	2.81	74.83	2.95	6392	9510	285
4/0 AWG	6.6/260	3.56/140	75.27	2.96	78.67	3.10	7314	10882	325
250 MCM	6.6/260	3.56/140	80.06	3.15	83.97	3.31	8510	12661	360
350 MCM	6.6/260	3.56/140	85.33	3.36	89.24	3.51	10362	15417	435
500 MCM	6.6/260	3.56/140	91.91	3.62	95.82	3.77	12693	18885	535
750 MCM	6.6/260	3.56/140	106.12	4.18	110.03	4.33	17862	26575	670
25kV 133% Three Conductor									
1 AWG	8.1/320	3.56/140	71.32	2.81	74.73	2.94	5243	7801	185
1/0 AWG	8.1/320	3.56/140	74.39	2.93	77.79	3.06	5855	8711	215
2/0 AWG	8.1/320	3.56/140	78.36	3.09	82.27	3.24	6827	10157	245
3/0 AWG	8.1/320	3.56/140	80.99	3.19	84.91	3.34	7602	11310	285
4/0 AWG	8.1/320	3.56/140	83.85	3.30	87.76	3.46	8452	12575	325
250 MCM	8.1/320	3.56/140	86.86	3.42	90.78	3.57	9260	13777	360
350 MCM	8.1/320	3.56/140	92.13	3.63	96.04	3.78	11147	16585	435
500 MCM	8.1/320	3.56/140	97.72	3.85	102.63	4.04	13794	20523	535

28kV 100% Three Conductor									
Conductor	Insulation Thickness (mm/mils)	Sheath Thickness (mm/mils)	Armour Diameter (mm/in)		Overall Diameter (mm/in.)		Cable Weight (kg/km / lbs/kft)		Ampacity (Amps) 90°C
1 AWG	7.1/280	2.80/110	66.76	2.63	70.17	2.76	4858	3264.43	185
1/0 AWG	7.1/280	2.80/110	68.90	2.71	72.31	2.85	5322	3576.22	215
2/0 AWG	7.1/280	2.80/110	71.10	2.80	74.50	2.93	5866	3941.77	245
3/0 AWG	7.1/280	2.80/110	74.72	2.94	78.12	3.08	6722	4516.98	285
4/0 AWG	7.1/280	3.56/140	79.35	3.12	83.26	3.28	7965	5352.23	325
250 MCM	7.1/280	3.56/140	82.37	3.24	86.28	3.40	8759	5885.78	360
350 MCM	7.1/280	3.56/140	87.63	3.45	91.54	3.60	10625	7139.67	435
500 MCM	7.1/280	3.56/140	94.22	3.71	98.13	3.86	13241	8897.54	535
28kV 133% Copper Single Conductor									
1 AWG	8.8/345	3.56/140	75.21	2.96	78.62	3.10	5667	3808.05	185
1/0 AWG	8.8/345	3.56/140	79.13	3.12	83.04	3.27	6568	4413.49	215
2/0 AWG	8.8/345	3.56/140	81.32	3.20	85.24	3.36	7143	4799.87	245
3/0 AWG	8.8/345	3.56/140	83.96	3.31	87.87	3.46	7926	5326.03	285
4/0 AWG	8.8/345	3.56/140	86.81	3.42	90.72	3.57	8784	5902.58	325
250 MCM	8.8/345	3.56/140	89.83	3.54	93.74	3.69	9601	6451.57	360
350 MCM	8.8/345	3.56/140	95.09	3.74	99.01	3.90	11504	7730.33	435
500 MCM	8.8/345	3.56/140	101.68	4.00	105.59	4.16	14170	9521.80	535

35kV 100% Three Conductor									
Conductor	Insulation Thickness (mm/mils)	Sheath Thickness (mm/mils)	Armour Diameter (mm/in)		Overall Diameter (mm/in.)		Cable Weight (kg/km / lbs/kft)		Ampacity (Amps) 90°C
1/0 AWG	8.8/345	3.56/140	79.13	3.12	83.04	3.27	6568	4413.49	215
2/0 AWG	8.8/345	3.56/140	81.32	3.20	85.24	3.36	7143	4799.87	245
3/0 AWG	8.8/345	3.56/140	83.96	3.31	87.87	3.46	7926	5326.03	285
4/0 AWG	8.8/345	3.56/140	86.81	3.42	90.72	3.57	8784	5902.58	325
250 MCM	8.8/345	3.56/140	89.83	3.54	93.74	3.69	9601	6451.57	360
350 MCM	8.8/345	3.56/140	95.09	3.74	99.01	3.90	11504	7730.33	435
500 MCM	8.8/345	3.56/140	101.68	4.00	105.59	4.16	14170	9521.80	535
35kV 133% Three Conductor									
1/0 AWG	10.7/420	3.56/140	87.69	3.45	91.6	3.61	7510	5046.49	215
2/0 AWG	10.7/420	3.56/140	89.88	3.54	93.79	3.69	8105	5446.31	245
3/0 AWG	10.7/420	3.56/140	92.52	3.64	96.43	3.80	8910	5987.24	285
4/0 AWG	10.7/420	3.56/140	95.37	3.75	99.28	3.91	9793	6580.59	325
250 MCM	10.7/420	3.56/140	98.39	3.87	102.30	4.03	10634	7145.72	360
350 MCM	10.7/420	3.56/140	104.75	4.12	108.66	4.28	12745	8564.24	435