35 kV Shielded Three Conductor Solid Paper / Low Pressure Gas Filled
Lead Sheathed Power Cable
in Underground Duct Bank - Single Circuit

25°C Earth Ambient

Condr Size	60 Rho 75 LF	60 Rho 100 LF	90 Rho 75 LF	90 Rho 100 LF	120 Rho 75 LF	120 Rho 100 LF	delta Td for .0110 pf & Rho 60	90	120
	80°C - Copper Conductor - Compact Sector Strand								
2/0	214	206	207	197	201	188	1.1	1.3	1.4
3/0	243	234	235	223	227	212	1.2	1.3	1.5
4/0	277	266	267	253	258	241	1.2	1.4	1.5
250	304	292	293	277	283	263	1.3	1.4	1.6
300	336	323	324	305	313	290	1.3	1.5	1.7
350	366	351	352	332	340	315	1.4	1.6	1.7
400	394	377	378	356	364	338	1.4	1.6	1.8
450	419	401	403	378	388	359	1.5	1.6	1.8
500	444	425	426	400	410	379	1.5	1.7	1.9
550	467	446	448	419	430	397	1.5	1.7	1.9
600	488	466	468	438	449	415	1.5	1.8	2.0
650	508	485	487	456	467	431	1.6	1.8	2.0
700	527	503	505	472	484	446	1.6	1.8	2.1
750	546	520	522	487	500	460	1.6	1.9	2.1
800	563	536	538	502	516	474	1.6	1.9	2.1
900	596	566	569	530	544	499	1.7	1.9	2.2
1000	626	594	597	555	571	522	1.7	2.0	2.3
700	528	503	505	472	484	446	1.6	1.8	2.0
750	546	520	522	488	501	460	1.6	1.8	2.1
800	564	537	539	503	516	474	1.6	1.9	2.1
900	596	566	569	530	545	499	1.7	1.9	2.2
1000	626	594	597	555	571	522	1.7	2.0	2.3

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35 kV Shielded Three Conductor Solid Paper / Low Pressure Gas Filled
Lead Sheathed Power Cable
in Underground Duct Bank - Three Circuits

25°C Earth Ambient

Condr Size	60 Rho 75 LF	60 Rho 100 LF	90 Rho 75 LF	90 Rho 100 LF	120 Rho 75 LF	120 Rho 100 LF	delta Td for .0110 pf & Rho 60	delta Td for .0110 pf & Rho 90	delta Td for .0110 pf & Rho 120
	80°C - Copper Conductor - Compact Sector Strand								
2/0	194	179	181	162	169	150	1.5	1.9	2.2
3/0	219	202	204	183	191	169	1.6	2.0	2.4
4/0	249	229	231	207	216	190	1.7	2.1	2.5
250	272	250	253	226	236	207	1.8	2.2	2.6
300	300	275	278	248	259	227	1.9	2.3	2.8
350	326	298	301	268	280	246	2.0	2.4	2.9
400	349	319	322	287	300	262	2.0	2.5	3.0
450	372	338	342	304	318	278	2.1	2.6	3.1
500	392	357	361	320	335	292	2.1	2.7	3.2
550	411	374	378	335	350	306	2.2	2.7	3.3
600	430	390	395	349	365	318	2.2	2.8	3.4
650	447	405	410	362	379	330	2.3	2.9	3.4
700	462	418	424	374	391	340	2.3	2.9	3.5
750	477	432	437	386	404	350	2.4	3.0	3.6
800	492	444	450	397	415	359	2.4	3.1	3.7
900	520	468	474	417	436	377	2.5	3.2	3.8
1000	544	488	494	434	455	393	2.6	3.3	4.0
700	462	418	424	374	391	340	2.3	2.9	3.5
750	478	432	437	386	404	350	2.4	3.0	3.6
800	492	444	450	397	415	359	2.4	3.0	3.7
900	520	468	474	417	436	377	2.5	3.2	3.8
1000	544	488	494	434	455	393	2.6	3.3	4.0

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35 kV Shielded Three Conductor Solid Paper / Low Pressure Gas Filled
Lead Sheathed Power Cable
in Underground Duct Bank - Six Circuits

25°C Earth Ambient

Condr Size	60 Rho		90 Rho		120 Rho		delta Td for .0110 pf & Rho		
	75 LF	100 LF	75 LF	100 LF	75 LF	100 LF	60	90	120
	80°C - Copper Conductor - Compact Sector Strand								
2/0	170	150	152	131	139	118	2.2	2.9	3.6
3/0	192	169	171	148	156	132	2.4	3.1	3.9
4/0	217	191	193	166	175	148	2.5	3.3	4.1
250	237	208	210	180	190	161	2.6	3.5	4.3
300	260	228	231	198	208	176	2.7	3.7	4.6
350	281	247	249	213	225	190	2.9	3.8	4.8
400	301	263	266	227	240	202	3.0	4.0	5.0
450	319	279	281	240	253	213	3.1	4.1	5.2
500	336	293	296	252	266	224	3.2	4.3	5.4
550	352	307	309	263	278	233	3.3	4.4	5.5
600	367	319	322	274	289	243	3.3	4.5	5.7
650	381	331	334	284	299	251	3.4	4.6	5.8
700	393	341	344	292	309	258	3.5	4.7	5.9
750	406	352	355	301	318	266	3.6	4.8	6.1
800	417	361	364	309	326	272	3.6	4.9	6.2
900	438	379	382	323	341	285	3.8	5.1	6.5
1000	457	395	397	336	354	295	3.9	5.3	6.7

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35 kV Shielded Three Conductor Solid Paper / Low Pressure Gas Filled
Lead Sheathed Power Cable
in Underground Duct Bank - Nine Circuits

25°C Earth Ambient

Condr Size	60 Rho 75 LF	60 Rho 100 LF	90 Rho 75 LF	90 Rho 100 LF	120 Rho 75 LF	120 Rho 100 LF	delta Td for .0110 pf & Rho 60	delta Td for .0110 pf & Rho 90	delta Td for .0110 pf & Rho 120
	80°C - Copper Conductor - Compact Sector Strand								
2/0	154	133	136	115	123	102	2.8	3.8	4.7
3/0	173	150	153	129	137	115	3.0	4.0	5.0
4/0	195	168	172	145	154	128	3.2	4.3	5.4
250	213	183	187	157	168	139	3.4	4.5	5.7
300	233	200	204	172	183	152	3.6	4.8	6.0
350	252	216	220	185	197	163	3.7	5.0	6.3
400	270	230	235	197	210	173	3.9	5.2	6.6
450	286	243	248	208	222	183	4.0	5.4	6.8
500	302	256	260	218	232	192	4.2	5.6	7.1
550	313	267	272	227	242	200	4.3	5.8	7.3
600	326	278	283	236	252	208	4.4	5.9	7.5
650	338	287	293	244	260	214	4.5	6.1	7.6
700	349	296	302	251	268	220	4.6	6.2	7.8
750	359	305	310	259	275	226	4.7	6.4	8.0
800	369	313	318	265	282	232	4.8	6.5	8.2
900	387	328	333	277	295	243	5.0	6.8	8.6
1000	403	341	346	287	305	250	5.2	7.1	9.0

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35 kV Shielded Three Conductor Solid Paper / Low Pressure Gas Filled Lead Sheathed Power Cable Direct Buried - Single Circuit

25°C Earth Ambient

Condr Size	60 Rho Interface Temp	60 Rho Flux	60 Rho Amps	90 Rho Interface Temp	90 Rho Flux	90 Rho Amps	120 Rho Interface Temp	120 Rho Flux	120 Rho Amps	delta Td for .0110 pf & Rho 60	90	120
	°C	w/ft²		°C	w/ft²		°C	w/ft²				
75% LF												
80°C - Copper Conductor - Compact Sector Strand												
2/0	45	23.0	290	50	19.7	268	54	17.3	251	0.6	0.8	0.9
3/0	45	22.2	328	50	19.0	303	54	16.6	284	0.6	0.8	1.0
4/0	46	22.3	375	51	19.0	346	55	16.6	323	0.7	0.8	1.0
250	46	22.4	413	51	19.0	380	55	16.6	355	0.7	0.9	1.1
300	47	22.6	459	52	19.1	422	56	16.6	393	0.7	0.9	1.1
350	47	22.6	502	52	19.1	460	56	16.6	428	0.7	0.9	1.2
400	48	22.7	541	53	19.2	496	57	16.6	461	0.7	1.0	1.2
450	48	22.8	578	53	19.2	529	57	16.6	491	0.8	1.0	1.2
500	48	22.9	613	54	19.2	561	57	16.6	520	0.8	1.0	1.3
550	49	22.9	645	54	19.2	590	58	16.6	547	0.8	1.0	1.3
600	49	23.0	677	54	19.2	618	58	16.6	573	0.8	1.1	1.3
650	49	23.0	706	54	19.2	644	58	16.5	596	0.8	1.1	1.3
700	49	23.1	734	55	19.2	669	58	16.5	619	0.8	1.1	1.4
750	50	23.2	761	55	19.3	693	59	16.5	641	0.8	1.1	1.4
800	50	23.2	788	55	19.2	716	59	16.5	662	0.9	1.1	1.4
900	50	23.3	836	56	19.3	759	59	16.5	701	0.9	1.2	1.5
1000	51	23.4	883	56	19.3	800	60	16.5	738	0.9	1.2	1.5

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35 kV Shielded Three Conductor Solid Paper / Low Pressure Gas Filled
Lead Sheathed Power Cable
Direct Buried - Single Circuit

25°C Earth Ambient

Condr Size	60 Rho Interface Temp	60 Rho Flux	60 Rho Amps	90 Rho Interface Temp	90 Rho Flux	90 Rho Amps	120 Rho Interface Temp	120 Rho Flux	120 Rho Amps	delta Td for .0110 pf & Rho 60	90	120
	°C	w/ft²	Amps	°C	w/ft²	Amps	°C	w/ft²	Amps			
100% LF												
80°C - Copper Conductor - Compact Sector Strand												
2/0	50	20.1	271	55	16.5	245	59	13.9	225	0.6	0.8	0.9
3/0	50	19.2	306	55	15.7	276	59	13.3	254	0.6	0.8	1.0
4/0	51	19.4	349	56	15.7	314	60	13.3	288	0.7	0.8	1.0
250	51	19.4	383	57	15.7	344	60	13.2	315	0.7	0.9	1.1
300	52	19.4	424	57	15.6	381	61	13.1	348	0.7	0.9	1.1
350	52	19.3	463	58	15.6	414	61	13.0	378	0.7	0.9	1.2
400	53	19.3	498	58	15.5	445	62	13.0	406	0.7	1.0	1.2
450	53	19.4	531	58	15.4	474	62	12.9	432	0.8	1.0	1.2
500	53	19.3	563	59	15.4	501	63	12.8	456	0.8	1.0	1.3
550	54	19.3	591	59	15.3	526	63	12.8	478	0.8	1.0	1.3
600	54	19.3	619	59	15.3	550	63	12.7	500	0.8	1.1	1.3
650	54	19.3	645	60	15.3	573	63	12.7	520	0.8	1.1	1.3
700	55	19.3	669	60	15.2	594	64	12.6	538	0.8	1.1	1.4
750	55	19.3	693	60	15.2	614	64	12.5	556	0.8	1.1	1.4
800	55	19.2	716	61	15.1	633	64	12.4	574	0.9	1.1	1.4
900	56	19.2	758	61	15.1	669	65	12.4	605	0.9	1.2	1.5
1000	56	19.1	797	62	15.0	703	65	12.3	634	0.9	1.2	1.5

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35 kV Shielded Three Conductor Solid Paper / Low Pressure Gas Filled
Lead Sheathed Power Cable
Direct Buried - Single Circuit

25°C Earth Ambient

Condr Size	60 Rho Amps	60 Rho Interface Temp °C	60 Rho Flux w/ft²	90 Rho Amps	90 Rho Interface Temp °C	90 Rho Flux w/ft²	120 Rho Amps	120 Rho Interface Temp °C	120 Rho Flux w/ft²	delta Td for .0110 pf & Rho 60	90	120
					75% LF							
					70°C - Copper Conductor - Compact Sector Strand							
2/0	266	42	18.8	246	46	16.1	230	49	14.1	0.6	0.8	0.9
3/0	301	42	18.1	278	46	15.5	260	49	13.6	0.6	0.8	1.0
4/0	344	42	18.3	317	46	15.6	296	49	13.7	0.7	0.8	1.0
250	379	43	18.4	349	47	15.6	325	50	13.6	0.7	0.9	1.1
300	421	43	18.5	387	47	15.7	360	50	13.6	0.7	0.9	1.1
350	460	43	18.5	422	48	15.7	392	51	13.6	0.7	0.9	1.2
400	496	44	18.7	454	48	15.7	422	51	13.6	0.7	1.0	1.2
450	529	44	18.7	484	48	15.7	450	51	13.6	0.8	1.0	1.2
500	562	44	18.7	513	49	15.7	476	52	13.6	0.8	1.0	1.3
550	591	44	18.8	540	49	15.7	500	52	13.5	0.8	1.0	1.3
600	620	45	18.8	565	49	15.7	524	52	13.6	0.8	1.1	1.3
650	646	45	18.9	589	49	15.8	545	52	13.5	0.8	1.1	1.3
700	672	45	18.9	612	49	15.8	566	52	13.5	0.8	1.1	1.4
750	697	45	19.0	633	50	15.8	585	53	13.5	0.8	1.1	1.4
800	721	46	19.1	655	50	15.8	604	53	13.5	0.9	1.1	1.4
900	764	46	19.1	693	50	15.8	639	53	13.5	0.9	1.2	1.5
1000	806	46	19.2	730	51	15.8	672	54	13.4	0.9	1.2	1.5

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35 kV Shielded Three Conductor Solid Paper / Low Pressure Gas Filled
Lead Sheathed Power Cable
Direct Buried - Single Circuit

25°C Earth Ambient

Condr Size	60 Rho Interface Temp Amps	60 Rho Interface Temp °C	60 Rho Flux w/ft²	90 Rho Interface Temp Amps	90 Rho Interface Temp °C	90 Rho Flux w/ft²	120 Rho Interface Temp Amps	120 Rho Interface Temp °C	120 Rho Flux w/ft²	delta Td for .0110 pf & Rho 60	90	120
					100% LF							
					70°C - Copper Conductor - Compact Sector Strand							
2/0	249	45	16.5	224	50	13.5	206	53	11.4	0.6	0.8	0.9
3/0	281	45	15.8	253	50	12.9	233	53	10.9	0.6	0.8	1.0
4/0	320	46	15.9	288	51	12.9	264	54	10.9	0.7	0.8	1.0
250	352	46	15.8	316	51	12.9	289	54	10.8	0.7	0.9	1.1
300	389	47	15.8	349	51	12.8	319	55	10.8	0.7	0.9	1.1
350	424	47	15.8	380	52	12.7	346	55	10.7	0.7	0.9	1.2
400	456	48	15.8	408	52	12.7	371	55	10.6	0.7	1.0	1.2
450	487	48	15.9	434	53	12.7	395	56	10.6	0.8	1.0	1.2
500	515	48	15.8	459	53	12.6	417	56	10.5	0.8	1.0	1.3
550	541	49	15.8	482	53	12.6	438	56	10.5	0.8	1.0	1.3
600	567	49	15.8	504	53	12.5	457	56	10.4	0.8	1.1	1.3
650	590	49	15.8	523	54	12.5	474	57	10.4	0.8	1.1	1.3
700	612	49	15.8	543	54	12.5	492	57	10.3	0.8	1.1	1.4
750	634	50	15.8	561	54	12.5	508	57	10.3	0.8	1.1	1.4
800	655	50	15.8	579	54	12.4	524	57	10.2	0.9	1.1	1.4
900	693	50	15.8	611	55	12.4	552	58	10.1	0.9	1.2	1.5
1000	728	51	15.7	641	55	12.3	578	58	10.0	0.9	1.2	1.5

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35 kV Shielded Three Conductor Solid Paper / Low Pressure Gas Filled
Lead Sheathed Power Cable
Direct Buried - Single Circuit

25°C Earth Ambient

Condr Size	---- 60 Rho--- Amps	Interface Temp °C	Flux w/ft²	---- 90 Rho--- Amps	Interface Temp °C	Flux w/ft²	----120 Rho--- Amps	Interface Temp °C	Flux w/ft²	delta Td for .0110 pf & Rho 60	90	120
					75% LF							
					65°C - Copper Conductor - Compact Sector Strand							
2/0	253	40	16.7	234	44	14.3	218	46	12.6	0.6	0.8	0.9
3/0	286	40	16.2	264	44	13.8	247	46	12.1	0.6	0.8	1.0
4/0	327	40	16.3	301	44	13.9	281	47	12.1	0.7	0.8	1.0
250	360	41	16.3	331	44	13.9	309	47	12.1	0.7	0.9	1.1
300	400	41	16.5	367	45	13.9	342	47	12.1	0.7	0.9	1.1
350	437	41	16.5	400	45	13.9	372	48	12.1	0.7	0.9	1.2
400	470	42	16.6	431	45	13.9	400	48	12.1	0.7	1.0	1.2
450	502	42	16.7	459	46	14.0	426	48	12.1	0.8	1.0	1.2
500	533	42	16.7	487	46	13.9	451	49	12.0	0.8	1.0	1.3
550	561	42	16.7	512	46	14.0	474	49	12.1	0.8	1.0	1.3
600	588	43	16.8	536	46	14.0	496	49	12.0	0.8	1.1	1.3
650	613	43	16.8	558	47	14.0	516	49	12.1	0.8	1.1	1.3
700	637	43	16.9	580	47	14.0	536	49	12.1	0.8	1.1	1.4
750	660	43	16.9	600	47	14.0	554	50	12.0	0.8	1.1	1.4
800	683	43	16.9	620	47	14.0	572	50	12.0	0.9	1.1	1.4
900	724	44	17.0	656	48	14.1	605	50	12.0	0.9	1.2	1.5
1000	763	44	17.1	691	48	14.0	636	51	12.0	0.9	1.2	1.5

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35 kV Shielded Three Conductor Solid Paper / Low Pressure Gas Filled
Lead Sheathed Power Cable
Direct Buried - Single Circuit

25°C Earth Ambient

Condr Size	60 Rho Amps	60 Rho Interface Temp °C	60 Rho Flux w/ft²	90 Rho Amps	90 Rho Interface Temp °C	90 Rho Flux w/ft²	120 Rho Amps	120 Rho Interface Temp °C	120 Rho Flux w/ft²	delta Td for .0110 pf & Rho 60	90	120
					100% LF							
					65°C - Copper Conductor - Compact Sector Strand							
2/0	236	43	14.7	213	47	11.9	196	50	10.1	0.6	0.8	0.9
3/0	266	43	14.0	240	47	11.5	221	50	9.8	0.6	0.8	1.0
4/0	304	44	14.1	273	48	11.5	250	51	9.7	0.7	0.8	1.0
250	334	44	14.1	300	48	11.4	274	51	9.6	0.7	0.9	1.1
300	370	44	14.1	331	49	11.4	302	51	9.5	0.7	0.9	1.1
350	403	45	14.1	360	49	11.4	329	52	9.5	0.7	0.9	1.2
400	433	45	14.1	387	49	11.3	352	52	9.4	0.7	1.0	1.2
450	462	46	14.1	412	50	11.3	375	52	9.4	0.8	1.0	1.2
500	489	46	14.1	435	50	11.2	395	52	9.3	0.8	1.0	1.3
550	514	46	14.1	457	50	11.2	415	53	9.3	0.8	1.0	1.3
600	538	46	14.1	477	50	11.2	433	53	9.2	0.8	1.1	1.3
650	559	47	14.1	496	50	11.1	449	53	9.2	0.8	1.1	1.3
700	581	47	14.0	514	51	11.1	466	53	9.2	0.8	1.1	1.4
750	601	47	14.0	532	51	11.1	481	53	9.1	0.8	1.1	1.4
800	620	47	14.0	548	51	11.0	496	54	9.1	0.9	1.1	1.4
900	656	48	14.0	578	51	11.0	522	54	9.1	0.9	1.2	1.5
1000	689	48	14.0	606	52	10.9	547	54	9.0	0.9	1.2	1.5

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35 kV Shielded Three Conductor Solid Paper / Low Pressure Gas Filled
Lead Sheathed Power Cable
Direct Buried - Single Circuit

25°C Earth Ambient

Condr Size	60 Rho Interface Temp	60 Rho Flux	60 Rho Amps	90 Rho Interface Temp	90 Rho Flux	90 Rho Amps	120 Rho Interface Temp	120 Rho Flux	120 Rho Amps	delta Td for .0110 pf & Rho 60	90	120
	°C	w/ft²	Amps	°C	w/ft²	Amps	°C	w/ft²	Amps			
					75% LF							
					50°C - Copper Conductor - Compact Sector Strand							
2/0	204	34	10.5	188	37	9.0	176	39	7.9	0.6	0.8	0.9
3/0	231	34	10.1	213	37	8.6	199	39	7.5	0.6	0.8	1.0
4/0	264	35	10.2	243	37	8.7	226	39	7.5	0.7	0.8	1.0
250	290	35	10.2	267	37	8.7	248	39	7.6	0.7	0.9	1.1
300	322	35	10.3	295	38	8.7	274	39	7.6	0.7	0.9	1.1
350	352	35	10.4	322	38	8.7	299	40	7.6	0.7	0.9	1.2
400	379	36	10.4	346	38	8.7	321	40	7.6	0.7	1.0	1.2
450	404	36	10.4	369	38	8.8	342	40	7.5	0.8	1.0	1.2
500	428	36	10.5	390	38	8.8	361	40	7.5	0.8	1.0	1.3
550	450	36	10.5	410	38	8.8	379	40	7.5	0.8	1.0	1.3
600	472	36	10.5	429	39	8.8	396	40	7.5	0.8	1.1	1.3
650	492	36	10.6	447	39	8.8	412	40	7.5	0.8	1.1	1.3
700	511	37	10.6	464	39	8.8	428	41	7.5	0.8	1.1	1.4
750	529	37	10.6	480	39	8.8	442	41	7.5	0.8	1.1	1.4
800	547	37	10.6	495	39	8.8	456	41	7.5	0.9	1.1	1.4
900	579	37	10.7	524	39	8.8	482	41	7.5	0.9	1.2	1.5
1000	610	37	10.7	550	40	8.8	505	41	7.5	0.9	1.2	1.5

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35 kV Shielded Three Conductor Solid Paper / Low Pressure Gas Filled Lead Sheathed Power Cable Direct Buried - Single Circuit

25°C Earth Ambient

Condr Size	60 Rho Interface Temp Amps	60 Rho Interface Temp °C	60 Rho Flux w/ft²	90 Rho Interface Temp Amps	90 Rho Interface Temp °C	90 Rho Flux w/ft²	120 Rho Interface Temp Amps	120 Rho Interface Temp °C	120 Rho Flux w/ft²	delta Td for .0110 pf & Rho 60	90	120
					100% LF							
					50°C - Copper Conductor - Compact Sector Strand							
2/0	191	36	9.1	172	39	7.5	157	41	6.3	0.6	0.8	0.9
3/0	215	37	8.8	194	39	7.2	178	41	6.1	0.6	0.8	1.0
4/0	245	37	8.9	220	39	7.2	201	41	6.0	0.7	0.8	1.0
250	269	37	8.8	241	40	7.2	220	41	6.0	0.7	0.9	1.1
300	298	37	8.9	266	40	7.2	243	42	6.0	0.7	0.9	1.1
350	324	38	8.9	289	40	7.1	264	42	6.0	0.7	0.9	1.2
400	349	38	8.9	311	40	7.1	282	42	5.9	0.7	1.0	1.2
450	371	38	8.8	330	41	7.1	300	42	5.9	0.8	1.0	1.2
500	393	38	8.8	349	41	7.1	316	42	5.9	0.8	1.0	1.3
550	412	38	8.8	366	41	7.0	331	43	5.9	0.8	1.0	1.3
600	431	39	8.8	382	41	7.1	346	43	5.8	0.8	1.1	1.3
650	449	39	8.8	397	41	7.0	359	43	5.8	0.8	1.1	1.3
700	465	39	8.9	411	41	7.0	372	43	5.8	0.8	1.1	1.4
750	481	39	8.8	425	41	7.0	384	43	5.7	0.8	1.1	1.4
800	497	39	8.9	438	42	6.9	395	43	5.7	0.9	1.1	1.4
900	525	39	8.8	461	42	6.9	415	43	5.7	0.9	1.2	1.5
1000	550	40	8.8	483	42	6.8	434	44	5.6	0.9	1.2	1.5

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35 kV Shielded Three Conductor Solid Paper / Low Pressure Gas Filled
Lead Sheathed Power Cable
Direct Buried - Double Circuit

25°C Earth Ambient

Condr Size	60 Rho Amps	60 Rho Interface Temp °C	60 Rho Flux w/ft²	90 Rho Amps	90 Rho Interface Temp °C	90 Rho Flux w/ft²	120 Rho Amps	120 Rho Interface Temp °C	120 Rho Flux w/ft²	delta Td for .0110 pf & Rho 60	90	120
						75% LF						
						80°C - Copper Conductor - Compact Sector Strand						
2/0	264	51	19.1	238	57	15.6	219	60	13.2	0.8	1.1	1.4
3/0	298	51	18.3	269	57	15.0	247	60	12.7	0.9	1.2	1.4
4/0	339	52	18.4	305	57	14.9	280	61	12.6	0.9	1.2	1.5
250	373	53	18.3	334	58	14.8	306	62	12.5	0.9	1.3	1.6
300	412	53	18.3	369	59	14.8	337	62	12.3	1.0	1.3	1.7
350	449	54	18.2	402	59	14.6	366	63	12.3	1.0	1.4	1.8
400	483	54	18.2	431	59	14.6	393	63	12.1	1.1	1.4	1.8
450	515	55	18.2	459	60	14.5	418	63	12.1	1.1	1.5	1.9
500	545	55	18.1	485	60	14.4	441	64	12.0	1.1	1.5	1.9
550	572	55	18.1	509	61	14.4	462	64	11.9	1.1	1.6	2.0
600	599	56	18.1	532	61	14.3	483	64	11.8	1.2	1.6	2.0
650	624	56	18.0	553	61	14.3	502	64	11.8	1.2	1.6	2.1
700	647	56	18.0	573	61	14.2	519	65	11.7	1.2	1.7	2.1
750	670	57	18.0	592	62	14.2	537	65	11.7	1.2	1.7	2.2
800	691	57	18.0	611	62	14.1	553	65	11.6	1.3	1.7	2.2
900	731	57	17.9	645	62	14.0	583	66	11.5	1.3	1.8	2.3
1000	768	58	17.8	676	63	13.9	610	66	11.4	1.3	1.9	2.4

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35 kV Shielded Three Conductor Solid Paper / Low Pressure Gas Filled
Lead Sheathed Power Cable
Direct Buried - Double Circuit

25°C Earth Ambient

Condr Size	60 Rho Interface Temp	60 Rho Flux	60 Rho Amps	90 Rho Interface Temp	90 Rho Flux	90 Rho Amps	120 Rho Interface Temp	120 Rho Flux	120 Rho Amps	delta Td for .0110 pf & Rho 60	90	120
	°C	w/ft²	Amps	°C	w/ft²	Amps	°C	w/ft²	Amps			
100% LF												
80°C - Copper Conductor - Compact Sector Strand												
2/0	57	15.7	238	62	12.1	210	65	10.0	189	0.8	1.1	1.4
3/0	57	15.0	269	62	11.6	236	65	9.5	213	0.9	1.2	1.4
4/0	57	14.9	305	63	11.5	268	66	9.4	241	0.9	1.2	1.5
250	58	14.8	334	63	11.4	292	66	9.2	263	0.9	1.3	1.6
300	59	14.7	369	64	11.2	322	67	9.1	289	1.0	1.3	1.7
350	59	14.5	400	64	11.1	349	67	9.0	313	1.0	1.4	1.8
400	60	14.4	430	65	11.0	374	68	9.0	335	1.1	1.4	1.8
450	60	14.4	457	65	10.9	397	68	8.8	355	1.1	1.5	1.9
500	60	14.3	482	65	10.8	419	68	8.7	374	1.1	1.5	1.9
550	61	14.2	506	66	10.7	438	68	8.6	392	1.1	1.6	2.0
600	61	14.2	529	66	10.7	458	69	8.6	408	1.2	1.6	2.0
650	61	14.1	550	66	10.6	475	69	8.5	424	1.2	1.6	2.1
700	62	14.0	569	66	10.5	491	69	8.4	438	1.2	1.7	2.1
750	62	14.0	588	67	10.5	507	69	8.4	452	1.2	1.7	2.2
800	62	13.9	606	67	10.4	522	70	8.3	465	1.3	1.7	2.2
900	63	13.8	639	67	10.3	550	70	8.2	489	1.3	1.8	2.3
1000	63	13.6	669	68	10.1	574	70	8.1	510	1.3	1.9	2.4

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35 kV Shielded Three Conductor Solid Paper / Low Pressure Gas Filled
Lead Sheathed Power Cable
Direct Buried - Double Circuit

25°C Earth Ambient

Condr Size	60 Rho Interface Temp Amps	60 Rho Interface Temp °C	60 Rho Flux w/ft²	90 Rho Interface Temp Amps	90 Rho Interface Temp °C	90 Rho Flux w/ft²	120 Rho Interface Temp Amps	120 Rho Interface Temp °C	120 Rho Flux w/ft²	delta Td for .0110 pf & Rho 60	90	120
					75% LF							
					70°C - Copper Conductor - Compact Sector Strand							
2/0	242	47	15.7	218	51	12.8	200	54	10.8	0.8	1.1	1.4
3/0	273	47	15.0	246	51	12.2	226	54	10.3	0.9	1.2	1.4
4/0	311	47	15.1	280	52	12.2	256	55	10.3	0.9	1.2	1.5
250	342	48	15.0	306	52	12.1	280	55	10.2	0.9	1.3	1.6
300	378	48	15.0	338	53	12.0	309	55	10.1	1.0	1.3	1.7
350	412	49	14.9	368	53	12.0	335	56	10.0	1.0	1.4	1.8
400	442	49	14.9	394	53	11.9	359	56	9.9	1.1	1.4	1.8
450	471	49	14.9	420	54	11.9	382	56	9.9	1.1	1.5	1.9
500	499	50	14.9	443	54	11.8	403	57	9.8	1.1	1.5	1.9
550	524	50	14.8	465	54	11.8	422	57	9.8	1.1	1.6	2.0
600	548	50	14.8	486	54	11.7	441	57	9.7	1.2	1.6	2.0
650	570	51	14.8	504	55	11.6	457	57	9.6	1.2	1.6	2.1
700	592	51	14.8	523	55	11.6	474	58	9.6	1.2	1.7	2.1
750	612	51	14.8	541	55	11.6	489	58	9.5	1.2	1.7	2.2
800	631	51	14.7	557	55	11.5	504	58	9.5	1.3	1.7	2.2
900	667	52	14.7	588	56	11.4	531	58	9.4	1.3	1.8	2.3
1000	701	52	14.6	616	56	11.4	555	59	9.3	1.3	1.9	2.4

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35 kV Shielded Three Conductor Solid Paper / Low Pressure Gas Filled
Lead Sheathed Power Cable
Direct Buried - Double Circuit

25°C Earth Ambient

Condr Size	60 Rho Amps	60 Rho Interface Temp °C	60 Rho Flux w/ft²	90 Rho Amps	90 Rho Interface Temp °C	90 Rho Flux w/ft²	120 Rho Amps	120 Rho Interface Temp °C	120 Rho Flux w/ft²	delta Td for .0110 pf & Rho 60	90	120
					100% LF							
					70°C - Copper Conductor - Compact Sector Strand							
2/0	219	51	12.8	192	55	10.0	174	58	8.1	0.8	1.1	1.4
3/0	246	51	12.2	217	55	9.5	195	58	7.8	0.9	1.2	1.4
4/0	280	52	12.2	245	56	9.4	221	59	7.7	0.9	1.2	1.5
250	306	52	12.1	268	56	9.3	241	59	7.6	0.9	1.3	1.6
300	338	53	12.0	295	57	9.2	265	59	7.5	1.0	1.3	1.7
350	367	53	12.0	320	57	9.2	286	60	7.4	1.0	1.4	1.8
400	393	53	11.8	342	57	9.0	306	60	7.3	1.1	1.4	1.8
450	418	54	11.8	363	58	9.0	325	60	7.2	1.1	1.5	1.9
500	442	54	11.7	383	58	8.9	342	60	7.1	1.1	1.5	1.9
550	463	54	11.6	401	58	8.8	358	61	7.1	1.1	1.6	2.0
600	484	55	11.6	418	59	8.8	373	61	7.1	1.2	1.6	2.0
650	502	55	11.6	433	59	8.7	386	61	7.0	1.2	1.6	2.1
700	520	55	11.5	448	59	8.6	399	61	6.9	1.2	1.7	2.1
750	537	55	11.4	463	59	8.6	412	61	6.9	1.2	1.7	2.2
800	553	56	11.4	476	59	8.5	423	62	6.8	1.3	1.7	2.2
900	583	56	11.3	501	60	8.4	445	62	6.7	1.3	1.8	2.3
1000	610	57	11.1	523	60	8.3	464	62	6.6	1.3	1.9	2.4

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35 kV Shielded Three Conductor Solid Paper / Low Pressure Gas Filled
Lead Sheathed Power Cable
Direct Buried - Double Circuit

25°C Earth Ambient

Condr Size	60 Rho Interface Temp Amps	60 Rho Flux °C w/ft²		90 Rho Interface Temp Amps	90 Rho Flux °C w/ft²		120 Rho Interface Temp Amps	120 Rho Flux °C w/ft²		delta Td for .0110 pf & Rho 60	90	120
					75% LF							
					65°C - Copper Conductor - Compact Sector Strand							
2/0	230	44	13.9	207	48	11.3	190	51	9.6	0.8	1.1	1.4
3/0	259	44	13.3	234	48	10.9	214	51	9.2	0.9	1.2	1.4
4/0	295	45	13.3	265	49	10.8	243	51	9.1	0.9	1.2	1.5
250	324	45	13.3	291	49	10.8	266	52	9.0	0.9	1.3	1.6
300	359	46	13.3	321	50	10.7	293	52	9.0	1.0	1.3	1.7
350	391	46	13.2	349	50	10.7	318	53	8.9	1.0	1.4	1.8
400	420	46	13.3	374	50	10.6	340	53	8.8	1.1	1.4	1.8
450	447	47	13.3	398	51	10.6	361	53	8.8	1.1	1.5	1.9
500	473	47	13.2	420	51	10.5	381	53	8.7	1.1	1.5	1.9
550	497	47	13.2	441	51	10.5	400	54	8.6	1.1	1.6	2.0
600	520	48	13.1	460	51	10.4	417	54	8.6	1.2	1.6	2.0
650	540	48	13.1	478	52	10.4	433	54	8.6	1.2	1.6	2.1
700	560	48	13.1	495	52	10.3	448	54	8.5	1.2	1.7	2.1
750	580	48	13.1	512	52	10.3	463	54	8.5	1.2	1.7	2.2
800	598	48	13.1	527	52	10.3	476	55	8.4	1.3	1.7	2.2
900	632	49	13.1	556	53	10.2	502	55	8.4	1.3	1.8	2.3
1000	663	49	13.0	582	53	10.1	524	55	8.2	1.3	1.9	2.4

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2100

35 kV Shielded Three Conductor Solid Paper / Low Pressure Gas Filled
Lead Sheathed Power Cable
Direct Buried - Double Circuit

25°C Earth Ambient

Condr Size	60 Rho Interface Amps	60 Rho Interface Temp °C	60 Rho Flux w/ft²	90 Rho Interface Amps	90 Rho Interface Temp °C	90 Rho Flux w/ft²	120 Rho Interface Amps	120 Rho Interface Temp °C	120 Rho Flux w/ft²	delta Td for .0110 pf & Rho 60	90	120
					100% LF							
					65°C - Copper Conductor - Compact Sector Strand							
2/0	208	48	11.4	183	52	8.9	165	54	7.2	0.8	1.1	1.4
3/0	234	48	10.9	206	52	8.5	185	54	6.9	0.9	1.2	1.4
4/0	265	49	10.8	233	53	8.4	209	55	6.9	0.9	1.2	1.5
250	291	49	10.8	254	53	8.3	228	55	6.8	0.9	1.3	1.6
300	321	50	10.7	280	53	8.2	251	56	6.6	1.0	1.3	1.7
350	348	50	10.6	303	54	8.1	271	56	6.6	1.0	1.4	1.8
400	373	50	10.6	324	54	8.1	290	56	6.5	1.1	1.4	1.8
450	397	51	10.5	344	54	8.0	308	56	6.5	1.1	1.5	1.9
500	419	51	10.4	363	54	7.9	324	57	6.4	1.1	1.5	1.9
550	439	51	10.4	380	55	7.9	339	57	6.3	1.1	1.6	2.0
600	458	51	10.3	396	55	7.8	353	57	6.2	1.2	1.6	2.0
650	476	52	10.3	410	55	7.7	365	57	6.2	1.2	1.6	2.1
700	493	52	10.2	425	55	7.7	378	57	6.2	1.2	1.7	2.1
750	509	52	10.2	438	55	7.6	390	57	6.1	1.2	1.7	2.2
800	524	52	10.1	451	56	7.6	400	58	6.0	1.3	1.7	2.2
900	552	53	10.1	474	56	7.5	420	58	6.0	1.3	1.8	2.3
1000	577	53	9.9	494	56	7.4	438	58	5.9	1.3	1.9	2.4

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35 kV Shielded Three Conductor Solid Paper / Low Pressure Gas Filled
Lead Sheathed Power Cable
Direct Buried - Double Circuit

25°C Earth Ambient

Condr Size	60 Rho Amps	60 Rho Interface Temp °C	60 Rho Flux w/ft²	90 Rho Amps	90 Rho Interface Temp °C	90 Rho Flux w/ft²	120 Rho Amps	120 Rho Interface Temp °C	120 Rho Flux w/ft²	delta Td for .0110 pf & Rho 60	90	120
					75% LF							
					50°C - Copper Conductor - Compact Sector Strand							
2/0	185	37	8.7	167	40	7.1	152	41	6.0	0.8	1.1	1.4
3/0	209	37	8.3	188	40	6.8	172	41	5.7	0.9	1.2	1.4
4/0	238	38	8.4	213	40	6.8	194	42	5.7	0.9	1.2	1.5
250	261	38	8.4	233	40	6.8	212	42	5.6	0.9	1.3	1.6
300	288	38	8.4	257	41	6.7	234	42	5.6	1.0	1.3	1.7
350	314	38	8.3	279	41	6.7	253	42	5.5	1.0	1.4	1.8
400	337	39	8.3	299	41	6.6	271	43	5.5	1.1	1.4	1.8
450	359	39	8.3	318	41	6.6	288	43	5.4	1.1	1.5	1.9
500	379	39	8.3	335	41	6.5	303	43	5.4	1.1	1.5	1.9
550	397	39	8.3	351	42	6.6	317	43	5.4	1.1	1.6	2.0
600	415	39	8.2	367	42	6.5	331	43	5.3	1.2	1.6	2.0
650	432	39	8.2	381	42	6.5	343	43	5.3	1.2	1.6	2.1
700	448	40	8.2	394	42	6.4	355	44	5.3	1.2	1.7	2.1
750	463	40	8.2	407	42	6.4	366	44	5.3	1.2	1.7	2.2
800	477	40	8.2	419	42	6.4	377	44	5.3	1.3	1.7	2.2
900	503	40	8.2	441	42	6.3	396	44	5.2	1.3	1.8	2.3
1000	527	40	8.1	461	43	6.3	413	44	5.1	1.3	1.9	2.4

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2102

35 kV Shielded Three Conductor Solid Paper / Low Pressure Gas Filled
Lead Sheathed Power Cable
Direct Buried - Double Circuit

25°C Earth Ambient

Condr Size	60 Rho Amps	60 Rho Interface Temp °C	60 Rho Flux w/ft²	90 Rho Amps	90 Rho Interface Temp °C	90 Rho Flux w/ft²	120 Rho Amps	120 Rho Interface Temp °C	120 Rho Flux w/ft²	delta Td for .0110 pf & Rho 60	90	120
					100% LF							
					50°C - Copper Conductor - Compact Sector Strand							
2/0	167	40	7.2	147	42	5.5	132	44	4.5	0.8	1.1	1.4
3/0	188	40	6.8	165	42	5.3	149	44	4.4	0.9	1.2	1.4
4/0	214	40	6.8	187	42	5.3	168	44	4.3	0.9	1.2	1.5
250	234	40	6.8	204	43	5.2	183	44	4.3	0.9	1.3	1.6
300	258	41	6.7	224	43	5.2	200	44	4.2	1.0	1.3	1.7
350	280	41	6.7	243	43	5.1	217	45	4.1	1.0	1.4	1.8
400	299	41	6.6	259	43	5.0	231	45	4.1	1.1	1.4	1.8
450	318	41	6.6	275	43	5.0	245	45	4.1	1.1	1.5	1.9
500	335	41	6.5	289	44	5.0	257	45	4.0	1.1	1.5	1.9
550	351	42	6.6	303	44	4.9	269	45	4.0	1.1	1.6	2.0
600	366	42	6.5	315	44	4.9	280	45	3.9	1.2	1.6	2.0
650	380	42	6.5	327	44	4.8	290	45	3.9	1.2	1.6	2.1
700	394	42	6.4	338	44	4.8	299	45	3.8	1.2	1.7	2.1
750	406	42	6.4	348	44	4.8	308	45	3.9	1.2	1.7	2.2
800	418	42	6.4	358	44	4.7	317	46	3.8	1.3	1.7	2.2
900	440	43	6.3	376	45	4.7	332	46	3.8	1.3	1.8	2.3
1000	459	43	6.2	391	45	4.7	345	46	3.7	1.3	1.9	2.4

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35 kV Shielded Three Conductor Solid Paper / Low Pressure Gas Filled
Lead Sheathed Power Cable
in Conduit in Air

40°C Air Ambient

Condr Size	No Sun 0 Ft/s	No Sun 2 Ft/s	Full Sun 0 Ft/s	Full Sun 2 Ft/s	delta Td for .0110 pf No Sun 0 Ft/s	delta Td for .0110 pf No Sun 2 Ft/s
80°C - Copper Conductor - Compact Sector Strand						
2/0	170	176	102	125	1.2	1.1
3/0	193	200	116	142	1.3	1.2
4/0	219	227	132	161	1.3	1.2
250	241	249	144	177	1.4	1.3
300	266	276	159	195	1.4	1.3
350	289	300	173	212	1.5	1.3
400	311	323	186	228	1.5	1.4
450	339	350	199	242	1.5	1.4
500	359	371	211	256	1.5	1.4
550	377	390	221	269	1.5	1.4
600	395	408	232	282	1.5	1.4
650	411	424	241	293	1.6	1.5
700	426	441	250	304	1.6	1.5
750	440	456	258	315	1.6	1.5
800	455	471	266	325	1.6	1.5
900	481	498	282	343	1.7	1.6
1000	505	523	296	361	1.7	1.6

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2104

35 kV Shielded Three Conductor Solid Paper / Low Pressure Gas Filled
Lead Sheathed Power Cable
in Free Air

40°C Air Ambient

Condr Size	No Sun 0 Ft/s	No Sun 2 Ft/s	Full Sun 0 Ft/s	Full Sun 2 Ft/s	delta Td for .0110 pf No Sun 0 Ft/s	delta Td for .0110 pf No Sun 2 Ft/s
80°C - Copper Conductor - Compact Sector Strand						
2/0	198	232	141	192	0.8	0.6
3/0	227	266	161	219	0.9	0.6
4/0	260	304	183	250	0.9	0.6
250	287	335	202	275	0.9	0.6
300	318	372	223	305	0.9	0.7
350	348	407	244	333	1.0	0.7
400	376	439	262	358	1.0	0.7
450	402	469	280	382	1.0	0.7
500	427	498	297	405	1.0	0.7
550	450	525	312	425	1.0	0.7
600	472	551	327	446	1.0	0.7
650	492	574	341	464	1.0	0.7
700	512	598	354	482	1.1	0.7
750	532	620	366	500	1.1	0.8
800	550	642	379	516	1.1	0.8
900	585	681	401	547	1.1	0.8
1000	618	720	423	576	1.1	0.8

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35 kV Shielded Three Conductor Solid Paper / Low Pressure Gas Filled
Lead Sheathed Power Cable
in Unventilated Riser

40°C Air Ambient

Condr Size	No Sun 0 Ft/s	No Sun 2 Ft/s	Full Sun 0 Ft/s	Full Sun 2 Ft/s	delta Td for .0110 pf No Sun 0 Ft/s	delta Td for .0110 pf No Sun 2 Ft/s
80°C - Copper Conductor - Compact Sector Strand						
2/0	167	179	130	149	1.2	1.1
3/0	189	203	148	169	1.3	1.1
4/0	214	230	168	192	1.4	1.2
250	234	252	184	211	1.4	1.2
300	258	278	203	233	1.5	1.2
350	279	302	221	254	1.5	1.3
400	299	324	238	273	1.6	1.3
450	331	355	261	295	1.5	1.3
500	349	375	277	312	1.5	1.3
550	366	392	290	328	1.5	1.3
600	381	409	303	343	1.6	1.3
650	395	424	315	357	1.6	1.4
700	408	439	325	370	1.6	1.4
750	421	453	335	383	1.6	1.4
800	432	466	344	396	1.7	1.4
900	453	490	361	419	1.7	1.5
1000	472	511	376	440	1.8	1.5

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35 kV Shielded Three Conductor Solid Paper / Low Pressure Gas Filled
Lead Sheathed Power Cable
in Underground Duct Bank - Single Circuit

25°C Earth Ambient

Condr Size	60 Rho 75 LF	60 Rho 100 LF	90 Rho 75 LF	90 Rho 100 LF	120 Rho 75 LF	120 Rho 100 LF	delta Td for .0110 pf & Rho 60	90	120
	80°C - Aluminum Conductor - Compact Sector Strand								
2/0	167	161	162	153	157	147	1.1	1.3	1.4
3/0	190	183	184	174	178	166	1.2	1.3	1.5
4/0	216	208	209	198	202	188	1.2	1.4	1.5
250	238	229	229	217	222	206	1.3	1.4	1.6
300	264	253	254	239	245	228	1.3	1.5	1.7
350	288	276	277	261	267	248	1.4	1.6	1.7
400	310	297	298	280	287	266	1.4	1.6	1.8
450	331	317	318	299	306	283	1.5	1.6	1.8
500	351	336	337	316	324	300	1.5	1.7	1.9
550	370	353	355	332	341	315	1.5	1.7	1.9
600	388	370	372	348	357	330	1.5	1.8	2.0
650	405	386	388	363	372	343	1.6	1.8	2.0
700	421	402	403	377	387	356	1.6	1.8	2.1
750	437	416	418	391	401	369	1.6	1.9	2.1
800	453	431	433	404	415	381	1.6	1.9	2.1
900	481	458	460	429	440	404	1.7	1.9	2.2
1000	509	484	486	452	465	426	1.7	2.0	2.3

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35 kV Shielded Three Conductor Solid Paper / Low Pressure Gas Filled
Lead Sheathed Power Cable
in Underground Duct Bank - Three Circuits

25°C Earth Ambient

Condr Size	60 Rho		90 Rho		120 Rho		delta Td for .0110 pf & Rho		
	75 LF	100 LF	75 LF	100 LF	75 LF	100 LF	60	90	120
	80°C - Aluminum Conductor - Compact Sector Strand								
2/0	151	140	141	127	132	117	1.5	1.9	2.2
3/0	171	158	159	143	149	132	1.6	2.0	2.4
4/0	195	179	181	162	169	149	1.7	2.1	2.5
250	213	196	198	177	184	162	1.8	2.2	2.6
300	235	216	218	195	203	178	1.9	2.3	2.8
350	256	234	237	211	220	193	2.0	2.4	2.9
400	275	251	253	226	236	207	2.0	2.5	3.0
450	293	267	270	240	251	219	2.1	2.6	3.1
500	310	282	286	254	265	231	2.1	2.7	3.2
550	326	296	300	266	278	242	2.2	2.7	3.3
600	341	310	314	278	290	253	2.2	2.8	3.4
650	356	322	327	289	302	263	2.3	2.9	3.5
700	369	334	339	299	313	273	2.3	2.9	3.5
750	383	346	351	310	324	282	2.4	3.0	3.6
800	396	357	362	319	334	290	2.4	3.1	3.7
900	420	379	383	338	353	306	2.5	3.2	3.8
1000	443	398	403	354	371	321	2.6	3.3	4.0

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35 kV Shielded Three Conductor Solid Paper / Low Pressure Gas Filled
Lead Sheathed Power Cable
in Underground Duct Bank - Six Circuits

25°C Earth Ambient

Condr Size	60 Rho		90 Rho		120 Rho		delta Td for .0110 pf & Rho		
	75 LF	100 LF	75 LF	100 LF	75 LF	100 LF	60	90	120
	80°C - Aluminum Conductor - Compact Sector Strand								
2/0	133	117	119	103	108	92	2.2	2.9	3.6
3/0	150	132	134	115	122	103	2.4	3.1	3.9
4/0	170	149	151	130	137	116	2.5	3.3	4.1
250	185	163	165	141	149	126	2.6	3.5	4.3
300	204	179	181	155	164	138	2.7	3.7	4.6
350	221	194	196	168	177	149	2.9	3.8	4.8
400	237	207	210	179	189	159	3.0	4.0	5.0
450	252	220	222	190	200	168	3.1	4.1	5.2
500	266	232	234	200	211	177	3.2	4.3	5.4
550	279	243	246	209	221	185	3.3	4.4	5.5
600	292	254	256	218	230	193	3.3	4.5	5.7
650	304	264	266	226	239	200	3.4	4.6	5.8
700	315	273	276	234	247	207	3.5	4.7	5.9
750	325	282	285	242	255	214	3.6	4.8	6.1
800	336	291	293	249	263	220	3.6	4.9	6.2
900	355	307	310	262	277	231	3.8	5.1	6.5
1000	373	322	325	274	289	241	3.9	5.3	6.7

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35 kV Shielded Three Conductor Solid Paper / Low Pressure Gas Filled
Lead Sheathed Power Cable
in Underground Duct Bank - Nine Circuits

25°C Earth Ambient

Condr Size	60 Rho 75 LF	60 Rho 100 LF	90 Rho 75 LF	90 Rho 100 LF	120 Rho 75 LF	120 Rho 100 LF	delta Td for .0110 pf & Rho 60	delta Td for .0110 pf & Rho 90	delta Td for .0110 pf & Rho 120
	80°C - Aluminum Conductor - Compact Sector Strand								
2/0	120	104	106	90	96	80	2.8	3.8	4.7
3/0	135	117	119	101	107	90	3.0	4.0	5.0
4/0	153	132	134	113	121	100	3.2	4.3	5.4
250	167	144	146	123	131	109	3.4	4.5	5.7
300	183	157	160	135	144	119	3.6	4.8	6.0
350	198	170	173	145	155	128	3.7	5.0	6.3
400	212	181	185	155	165	137	3.9	5.2	6.6
450	226	192	196	164	175	144	4.0	5.4	6.8
500	239	202	206	172	184	152	4.2	5.6	7.1
550	250	212	216	180	192	159	4.3	5.8	7.3
600	259	221	225	188	200	165	4.4	5.9	7.5
650	270	229	234	195	208	172	4.5	6.1	7.6
700	279	237	242	201	214	177	4.6	6.2	7.8
750	289	245	249	208	221	182	4.7	6.4	8.0
800	297	253	257	214	227	187	4.8	6.5	8.2
900	314	266	270	225	239	197	5.0	6.8	8.6
1000	329	278	283	235	249	205	5.2	7.1	9.0

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2110

35 kV Shielded Three Conductor Solid Paper / Low Pressure Gas Filled
Lead Sheathed Power Cable
Direct Buried - Single Circuit

25°C Earth Ambient

Condr Size	60 Rho Interface Temp Amps	60 Rho Interface Temp °C	60 Rho Flux w/ft²	90 Rho Interface Temp Amps	90 Rho Interface Temp °C	90 Rho Flux w/ft²	120 Rho Interface Temp Amps	120 Rho Interface Temp °C	120 Rho Flux w/ft²	delta Td for .0110 pf & Rho 60	90	120
					75% LF							
					80°C - Aluminum Conductor - Compact Sector Strand							
2/0	226	45	23.0	209	50	19.6	196	54	17.2	0.6	0.8	0.9
3/0	256	45	22.1	237	50	18.9	221	54	16.6	0.6	0.8	1.0
4/0	293	46	22.3	270	51	19.0	253	55	16.6	0.7	0.8	1.0
250	323	46	22.3	298	51	19.0	278	55	16.6	0.7	0.9	1.1
300	359	47	22.5	330	52	19.0	308	56	16.5	0.7	0.9	1.1
350	393	47	22.5	361	52	19.0	336	56	16.5	0.7	0.9	1.2
400	425	47	22.6	390	53	19.0	362	56	16.5	0.7	1.0	1.2
450	455	48	22.6	416	53	19.1	387	57	16.5	0.8	1.0	1.2
500	484	48	22.6	443	53	19.0	411	57	16.4	0.8	1.0	1.3
550	510	48	22.7	466	54	19.0	433	57	16.4	0.8	1.0	1.3
600	536	49	22.7	490	54	19.0	454	58	16.4	0.8	1.1	1.3
650	561	49	22.8	512	54	19.0	474	58	16.4	0.8	1.1	1.3
700	585	49	22.8	533	54	19.0	494	58	16.4	0.8	1.1	1.4
750	608	49	22.8	554	55	19.0	513	58	16.3	0.8	1.1	1.4
800	631	50	22.8	574	55	19.0	531	58	16.3	0.9	1.1	1.4
900	673	50	22.9	612	55	19.0	566	59	16.3	0.9	1.2	1.5
1000	715	51	22.9	649	56	18.9	599	59	16.2	0.9	1.2	1.5

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35 kV Shielded Three Conductor Solid Paper / Low Pressure Gas Filled
Lead Sheathed Power Cable
Direct Buried - Single Circuit

25°C Earth Ambient

Condr Size	60 Rho Amps	60 Rho Interface Temp °C	60 Rho Flux w/ft²	90 Rho Amps	90 Rho Interface Temp °C	90 Rho Flux w/ft²	120 Rho Amps	120 Rho Interface Temp °C	120 Rho Flux w/ft²	delta Td for .0110 pf & Rho 60	90	120
					100% LF							
					80°C - Aluminum Conductor - Compact Sector Strand							
2/0	211	50	20.0	191	55	16.4	175	59	13.8	0.6	0.8	0.9
3/0	239	50	19.2	216	55	15.7	198	59	13.3	0.6	0.8	1.0
4/0	272	50	19.3	245	56	15.7	225	60	13.2	0.7	0.8	1.0
250	300	51	19.3	270	57	15.7	247	60	13.2	0.7	0.9	1.1
300	332	51	19.3	298	57	15.6	273	61	13.1	0.7	0.9	1.1
350	363	52	19.2	325	58	15.5	297	61	12.9	0.7	0.9	1.2
400	391	52	19.2	350	58	15.4	319	62	12.9	0.7	1.0	1.2
450	418	53	19.2	373	58	15.4	340	62	12.8	0.8	1.0	1.2
500	444	53	19.2	396	59	15.3	360	62	12.7	0.8	1.0	1.3
550	468	53	19.1	417	59	15.3	379	63	12.7	0.8	1.0	1.3
600	491	54	19.1	437	59	15.2	397	63	12.6	0.8	1.1	1.3
650	513	54	19.1	456	59	15.1	414	63	12.5	0.8	1.1	1.3
700	534	54	19.0	474	60	15.1	430	63	12.5	0.8	1.1	1.4
750	554	55	19.0	491	60	15.0	446	64	12.4	0.8	1.1	1.4
800	574	55	19.0	508	60	14.9	461	64	12.4	0.9	1.1	1.4
900	611	55	18.9	540	61	14.9	489	64	12.3	0.9	1.2	1.5
1000	647	56	18.8	571	61	14.8	516	65	12.1	0.9	1.2	1.5

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2112

35 kV Shielded Three Conductor Solid Paper / Low Pressure Gas Filled
Lead Sheathed Power Cable
Direct Buried - Single Circuit

25°C Earth Ambient

Condr Size	60 Rho Amps	60 Rho Interface Temp °C	60 Rho Flux w/ft²	90 Rho Amps	90 Rho Interface Temp °C	90 Rho Flux w/ft²	120 Rho Amps	120 Rho Interface Temp °C	120 Rho Flux w/ft²	delta Td for .0110 pf & Rho 60	90	120
					75% LF							
					70°C - Aluminum Conductor - Compact Sector Strand							
2/0	208	42	18.8	192	46	16.1	180	49	14.1	0.6	0.8	0.9
3/0	235	42	18.0	217	46	15.5	203	49	13.6	0.6	0.8	1.0
4/0	269	42	18.2	248	46	15.6	232	49	13.6	0.7	0.8	1.0
250	297	42	18.3	273	47	15.6	255	50	13.6	0.7	0.9	1.1
300	330	43	18.4	303	47	15.6	282	50	13.6	0.7	0.9	1.1
350	361	43	18.5	331	47	15.6	308	50	13.5	0.7	0.9	1.2
400	390	44	18.5	357	48	15.6	332	51	13.5	0.7	1.0	1.2
450	417	44	18.6	382	48	15.6	355	51	13.5	0.8	1.0	1.2
500	444	44	18.5	406	48	15.6	376	51	13.4	0.8	1.0	1.3
550	468	44	18.6	427	49	15.5	396	52	13.4	0.8	1.0	1.3
600	492	44	18.6	449	49	15.5	416	52	13.4	0.8	1.1	1.3
650	514	45	18.6	469	49	15.6	434	52	13.4	0.8	1.1	1.3
700	536	45	18.7	488	49	15.6	452	52	13.4	0.8	1.1	1.4
750	557	45	18.7	507	49	15.5	469	52	13.4	0.8	1.1	1.4
800	578	45	18.7	526	50	15.5	486	53	13.3	0.9	1.1	1.4
900	617	46	18.8	560	50	15.6	517	53	13.3	0.9	1.2	1.5
1000	655	46	18.8	594	50	15.6	548	53	13.3	0.9	1.2	1.5

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35 kV Shielded Three Conductor Solid Paper / Low Pressure Gas Filled
Lead Sheathed Power Cable
Direct Buried - Single Circuit

25°C Earth Ambient

Condr Size	60 Rho Amps	60 Rho Interface Temp °C	60 Rho Flux w/ft²	90 Rho Amps	90 Rho Interface Temp °C	90 Rho Flux w/ft²	120 Rho Amps	120 Rho Interface Temp °C	120 Rho Flux w/ft²	delta Td for .0110 pf & Rho 60	90	120
					100% LF							
					70°C - Aluminum Conductor - Compact Sector Strand							
2/0	194	45	16.4	175	50	13.4	161	53	11.4	0.6	0.8	0.9
3/0	219	45	15.7	198	50	12.9	182	53	10.9	0.6	0.8	1.0
4/0	250	46	15.8	225	50	12.9	206	54	10.8	0.7	0.8	1.0
250	275	46	15.8	247	51	12.8	226	54	10.8	0.7	0.9	1.1
300	305	47	15.8	274	51	12.8	250	54	10.7	0.7	0.9	1.1
350	333	47	15.7	298	52	12.7	272	55	10.6	0.7	0.9	1.2
400	359	48	15.8	321	52	12.7	293	55	10.6	0.7	1.0	1.2
450	384	48	15.7	342	52	12.6	312	55	10.5	0.8	1.0	1.2
500	407	48	15.7	363	53	12.5	330	56	10.4	0.8	1.0	1.3
550	429	48	15.7	382	53	12.5	347	56	10.4	0.8	1.0	1.3
600	450	49	15.7	400	53	12.5	364	56	10.3	0.8	1.1	1.3
650	470	49	15.6	417	53	12.4	379	56	10.3	0.8	1.1	1.3
700	489	49	15.6	434	54	12.4	394	56	10.2	0.8	1.1	1.4
750	508	49	15.6	450	54	12.3	408	57	10.2	0.8	1.1	1.4
800	526	50	15.5	465	54	12.3	422	57	10.1	0.9	1.1	1.4
900	560	50	15.5	495	54	12.2	447	57	10.1	0.9	1.2	1.5
1000	592	50	15.4	522	55	12.1	472	58	9.9	0.9	1.2	1.5

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2114

35 kV Shielded Three Conductor Solid Paper / Low Pressure Gas Filled
Lead Sheathed Power Cable
Direct Buried - Single Circuit

25°C Earth Ambient

Condr Size	60 Rho Amps	60 Rho Interface Temp °C	60 Rho Flux w/ft²	90 Rho Amps	90 Rho Interface Temp °C	90 Rho Flux w/ft²	120 Rho Amps	120 Rho Interface Temp °C	120 Rho Flux w/ft²	delta Td for .0110 pf & Rho 60	90	120
					75% LF							
					65°C - Aluminum Conductor - Compact Sector Strand							
2/0	198	40	16.7	182	44	14.3	171	46	12.5	0.6	0.8	0.9
3/0	223	40	16.1	206	44	13.8	193	46	12.1	0.6	0.8	1.0
4/0	256	40	16.2	236	44	13.8	220	47	12.1	0.7	0.8	1.0
250	282	41	16.2	259	44	13.8	242	47	12.1	0.7	0.9	1.1
300	313	41	16.4	288	45	13.9	268	47	12.0	0.7	0.9	1.1
350	343	41	16.4	315	45	13.9	293	48	12.0	0.7	0.9	1.2
400	370	42	16.4	339	45	13.8	315	48	12.0	0.7	1.0	1.2
450	396	42	16.5	362	46	13.8	336	48	12.0	0.8	1.0	1.2
500	421	42	16.5	385	46	13.9	357	48	12.0	0.8	1.0	1.3
550	444	42	16.5	406	46	13.9	376	49	11.9	0.8	1.0	1.3
600	467	42	16.6	426	46	13.8	394	49	11.9	0.8	1.1	1.3
650	488	43	16.6	445	46	13.9	412	49	11.9	0.8	1.1	1.3
700	509	43	16.6	463	47	13.8	429	49	11.9	0.8	1.1	1.4
750	528	43	16.7	481	47	13.9	445	49	11.9	0.8	1.1	1.4
800	548	43	16.7	499	47	13.9	461	50	11.9	0.9	1.1	1.4
900	585	43	16.7	531	47	13.8	490	50	11.8	0.9	1.2	1.5
1000	621	44	16.7	563	48	13.8	519	50	11.8	0.9	1.2	1.5

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35 kV Shielded Three Conductor Solid Paper / Low Pressure Gas Filled
Lead Sheathed Power Cable
Direct Buried - Single Circuit

25°C Earth Ambient

Condr Size	---- 60 Rho--- Interface Temp Amps	Flux °C	w/ft²	---- 90 Rho--- Interface Temp Amps	Flux °C	w/ft²	----120 Rho--- Interface Temp Amps	Flux °C	w/ft²	delta Td for .0110 pf & Rho 60	90	120
					100% LF							
					65°C - Aluminum Conductor - Compact Sector Strand							
2/0	184	43	14.6	166	47	11.9	153	50	10.1	0.6	0.8	0.9
3/0	208	43	14.0	188	47	11.5	173	50	9.7	0.6	0.8	1.0
4/0	238	44	14.1	214	48	11.4	196	50	9.7	0.7	0.8	1.0
250	261	44	14.1	235	48	11.4	215	51	9.6	0.7	0.9	1.1
300	290	44	14.0	260	48	11.3	237	51	9.5	0.7	0.9	1.1
350	316	45	14.0	283	49	11.3	258	52	9.5	0.7	0.9	1.2
400	341	45	14.0	305	49	11.3	278	52	9.4	0.7	1.0	1.2
450	364	45	14.0	325	49	11.2	296	52	9.4	0.8	1.0	1.2
500	387	46	13.9	344	50	11.1	313	52	9.3	0.8	1.0	1.3
550	407	46	13.9	362	50	11.1	329	52	9.3	0.8	1.0	1.3
600	427	46	13.9	380	50	11.1	345	53	9.2	0.8	1.1	1.3
650	446	46	13.9	396	50	11.0	359	53	9.2	0.8	1.1	1.3
700	464	46	13.9	411	50	11.0	373	53	9.1	0.8	1.1	1.4
750	482	47	13.9	427	51	11.0	387	53	9.1	0.8	1.1	1.4
800	499	47	13.9	441	51	10.9	400	53	9.0	0.9	1.1	1.4
900	531	47	13.8	469	51	10.9	424	54	8.9	0.9	1.2	1.5
1000	562	48	13.7	495	52	10.8	447	54	8.8	0.9	1.2	1.5

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35 kV Shielded Three Conductor Solid Paper / Low Pressure Gas Filled
Lead Sheathed Power Cable
Direct Buried - Single Circuit

25°C Earth Ambient

Condr Size	60 Rho Amps	60 Rho Interface Temp °C	60 Rho Flux w/ft²	90 Rho Amps	90 Rho Interface Temp °C	90 Rho Flux w/ft²	120 Rho Amps	120 Rho Interface Temp °C	120 Rho Flux w/ft²	delta Td for .0110 pf & Rho 60	90	120
					75% LF							
					50°C - Aluminum Conductor - Compact Sector Strand							
2/0	160	34	10.5	147	37	9.0	137	39	7.8	0.6	0.8	0.9
3/0	180	34	10.1	166	37	8.6	155	38	7.5	0.6	0.8	1.0
4/0	206	35	10.2	190	37	8.6	177	39	7.5	0.7	0.8	1.0
250	227	35	10.2	209	37	8.7	194	39	7.6	0.7	0.9	1.1
300	253	35	10.2	232	38	8.7	215	39	7.5	0.7	0.9	1.1
350	276	35	10.3	253	38	8.6	235	39	7.5	0.7	0.9	1.2
400	298	36	10.3	273	38	8.7	253	40	7.5	0.7	1.0	1.2
450	319	36	10.3	291	38	8.7	270	40	7.5	0.8	1.0	1.2
500	339	36	10.3	309	38	8.6	286	40	7.5	0.8	1.0	1.3
550	357	36	10.4	326	38	8.6	301	40	7.5	0.8	1.0	1.3
600	375	36	10.4	342	38	8.7	316	40	7.5	0.8	1.1	1.3
650	392	36	10.4	357	39	8.7	330	40	7.4	0.8	1.1	1.3
700	409	36	10.4	372	39	8.7	343	40	7.4	0.8	1.1	1.4
750	425	36	10.5	386	39	8.7	356	41	7.4	0.8	1.1	1.4
800	441	37	10.5	400	39	8.7	368	41	7.4	0.9	1.1	1.4
900	470	37	10.5	425	39	8.6	392	41	7.4	0.9	1.2	1.5
1000	498	37	10.5	450	39	8.7	414	41	7.4	0.9	1.2	1.5

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35 kV Shielded Three Conductor Solid Paper / Low Pressure Gas Filled
Lead Sheathed Power Cable
Direct Buried - Single Circuit

25°C Earth Ambient

Condr Size	60 Rho Interface Temp	60 Rho Flux	60 Rho Amps	90 Rho Interface Temp	90 Rho Flux	90 Rho Amps	120 Rho Interface Temp	120 Rho Flux	120 Rho Amps	delta Td for .0110 pf & Rho 60	90	120
	°C	w/ft²	Amps	°C	w/ft²	Amps	°C	w/ft²	Amps			
100% LF												
50°C - Aluminum Conductor - Compact Sector Strand												
2/0	149	36	9.1	134	39	7.5	123	41	6.3	0.6	0.8	0.9
3/0	168	36	8.8	152	39	7.2	139	41	6.1	0.6	0.8	1.0
4/0	192	37	8.8	172	39	7.2	158	41	6.0	0.7	0.8	1.0
250	211	37	8.8	189	40	7.2	173	41	6.0	0.7	0.9	1.1
300	234	37	8.8	209	40	7.1	191	42	6.0	0.7	0.9	1.1
350	255	38	8.8	228	40	7.1	208	42	5.9	0.7	0.9	1.2
400	275	38	8.8	245	40	7.0	223	42	5.9	0.7	1.0	1.2
450	293	38	8.8	261	40	7.0	237	42	5.9	0.8	1.0	1.2
500	311	38	8.8	277	41	7.0	251	42	5.8	0.8	1.0	1.3
550	327	38	8.8	291	41	7.0	264	42	5.8	0.8	1.0	1.3
600	343	38	8.8	305	41	7.0	276	43	5.8	0.8	1.1	1.3
650	358	38	8.8	317	41	6.9	287	43	5.7	0.8	1.1	1.3
700	373	39	8.7	330	41	6.9	299	43	5.7	0.8	1.1	1.4
750	387	39	8.7	342	41	6.9	309	43	5.7	0.8	1.1	1.4
800	401	39	8.7	354	41	6.9	319	43	5.6	0.9	1.1	1.4
900	426	39	8.7	375	42	6.8	338	43	5.6	0.9	1.2	1.5
1000	450	39	8.7	396	42	6.8	356	43	5.6	0.9	1.2	1.5

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35 kV Shielded Three Conductor Solid Paper / Low Pressure Gas Filled
Lead Sheathed Power Cable
Direct Buried - Double Circuit

25°C Earth Ambient

Condr Size	60 Rho Amps	60 Rho Interface Temp °C	60 Rho Flux w/ft²	90 Rho Amps	90 Rho Interface Temp °C	90 Rho Flux w/ft²	120 Rho Amps	120 Rho Interface Temp °C	120 Rho Flux w/ft²	delta Td for .0110 pf & Rho 60	90	120
					75% LF							
					80°C - Aluminum Conductor - Compact Sector Strand							
2/0	206	51	19.1	186	57	15.6	171	60	13.1	0.8	1.1	1.4
3/0	233	51	18.3	210	57	14.9	193	60	12.6	0.9	1.2	1.4
4/0	265	52	18.3	239	57	14.9	219	61	12.5	0.9	1.2	1.5
250	292	53	18.2	262	58	14.8	240	61	12.4	0.9	1.3	1.6
300	323	53	18.2	289	58	14.7	265	62	12.3	1.0	1.3	1.7
350	353	54	18.2	315	59	14.6	288	62	12.2	1.0	1.4	1.8
400	380	54	18.1	339	59	14.5	309	63	12.1	1.1	1.4	1.8
450	405	54	18.1	361	60	14.4	329	63	12.0	1.1	1.5	1.9
500	430	55	18.0	383	60	14.3	348	63	11.9	1.1	1.5	1.9
550	453	55	18.0	403	60	14.3	366	64	11.8	1.1	1.6	2.0
600	475	55	17.9	422	61	14.2	383	64	11.8	1.2	1.6	2.0
650	496	56	17.8	440	61	14.1	400	64	11.7	1.2	1.6	2.1
700	516	56	17.8	457	61	14.1	415	64	11.7	1.2	1.7	2.1
750	535	56	17.8	474	61	14.0	430	65	11.6	1.2	1.7	2.2
800	554	57	17.7	490	62	13.9	444	65	11.5	1.3	1.7	2.2
900	590	57	17.6	521	62	13.8	471	65	11.4	1.3	1.8	2.3
1000	624	58	17.6	550	63	13.7	497	66	11.3	1.3	1.9	2.4

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35 kV Shielded Three Conductor Solid Paper / Low Pressure Gas Filled
Lead Sheathed Power Cable
Direct Buried - Double Circuit

25°C Earth Ambient

Condr Size	60 Rho Amps	60 Rho Interface Temp °C	60 Rho Flux w/ft²	90 Rho Amps	90 Rho Interface Temp °C	90 Rho Flux w/ft²	120 Rho Amps	120 Rho Interface Temp °C	120 Rho Flux w/ft²	delta Td for .0110 pf & Rho 60	90	120
					100% LF							
					80°C - Aluminum Conductor - Compact Sector Strand							
2/0	186	57	15.6	164	62	12.1	148	65	10.0	0.8	1.1	1.4
3/0	210	57	14.9	185	62	11.6	167	65	9.5	0.9	1.2	1.4
4/0	238	57	14.8	209	63	11.5	188	66	9.3	0.9	1.2	1.5
250	261	58	14.7	229	63	11.3	206	66	9.2	0.9	1.3	1.6
300	289	58	14.6	252	64	11.2	227	67	9.1	1.0	1.3	1.7
350	314	59	14.5	274	64	11.1	246	67	9.0	1.0	1.4	1.8
400	338	59	14.4	294	64	11.0	264	67	8.9	1.1	1.4	1.8
450	360	60	14.4	313	65	10.9	280	68	8.8	1.1	1.5	1.9
500	381	60	14.2	331	65	10.8	296	68	8.7	1.1	1.5	1.9
550	401	61	14.1	347	65	10.7	311	68	8.6	1.1	1.6	2.0
600	420	61	14.0	364	66	10.6	325	69	8.6	1.2	1.6	2.0
650	437	61	13.9	379	66	10.6	338	69	8.5	1.2	1.6	2.1
700	454	61	13.9	393	66	10.5	350	69	8.4	1.2	1.7	2.1
750	471	62	13.9	406	66	10.4	362	69	8.4	1.2	1.7	2.2
800	487	62	13.7	420	67	10.3	374	69	8.3	1.3	1.7	2.2
900	516	62	13.6	445	67	10.2	396	70	8.1	1.3	1.8	2.3
1000	544	63	13.4	468	67	10.0	416	70	8.0	1.3	1.9	2.4

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35 kV Shielded Three Conductor Solid Paper / Low Pressure Gas Filled
Lead Sheathed Power Cable
Direct Buried - Double Circuit

25°C Earth Ambient

Condr Size	---- 60 Rho--- Interface Temp Flux Amps °C w/ft²			---- 90 Rho--- Interface Temp Flux Amps °C w/ft²			----120 Rho--- Interface Temp Flux Amps °C w/ft²			delta Td for .0110 pf & Rho 60	90	120
						75% LF						
						70°C - Aluminum Conductor - Compact Sector Strand						
2/0	189	47	15.6	170	51	12.8	156	54	10.8	0.8	1.1	1.4
3/0	214	47	15.0	192	51	12.2	177	54	10.3	0.9	1.2	1.4
4/0	243	47	15.0	219	52	12.2	200	55	10.3	0.9	1.2	1.5
250	268	48	14.9	240	52	12.1	219	55	10.1	0.9	1.3	1.6
300	296	48	14.9	265	52	12.0	242	55	10.1	1.0	1.3	1.7
350	323	49	14.8	289	53	11.9	263	56	10.0	1.0	1.4	1.8
400	348	49	14.8	311	53	11.8	283	56	9.9	1.1	1.4	1.8
450	372	49	14.8	331	54	11.8	301	56	9.9	1.1	1.5	1.9
500	394	50	14.7	351	54	11.7	319	57	9.8	1.1	1.5	1.9
550	415	50	14.7	369	54	11.7	335	57	9.7	1.1	1.6	2.0
600	435	50	14.6	386	54	11.6	351	57	9.7	1.2	1.6	2.0
650	454	50	14.6	402	55	11.6	365	57	9.6	1.2	1.6	2.1
700	473	50	14.6	418	55	11.5	379	57	9.5	1.2	1.7	2.1
750	490	51	14.6	434	55	11.5	393	58	9.5	1.2	1.7	2.2
800	507	51	14.5	448	55	11.4	406	58	9.4	1.3	1.7	2.2
900	540	51	14.4	476	56	11.3	430	58	9.3	1.3	1.8	2.3
1000	570	52	14.3	502	56	11.2	453	59	9.2	1.3	1.9	2.4

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35 kV Shielded Three Conductor Solid Paper / Low Pressure Gas Filled
Lead Sheathed Power Cable
Direct Buried - Double Circuit

25°C Earth Ambient

Condr Size	60 Rho Interface Temp	60 Rho Flux	60 Rho Amps	90 Rho Interface Temp	90 Rho Flux	90 Rho Amps	120 Rho Interface Temp	120 Rho Flux	120 Rho Amps	delta Td for .0110 pf & Rho 60	90	120
	°C	w/ft²	Amps	°C	w/ft²	Amps	°C	w/ft²	Amps			
100% LF												
70°C - Aluminum Conductor - Compact Sector Strand												
2/0	51	12.8	171	55	10.0	150	58	8.1	136	0.8	1.1	1.4
3/0	51	12.2	193	55	9.5	169	58	7.8	153	0.9	1.2	1.4
4/0	52	12.2	219	56	9.4	192	59	7.7	173	0.9	1.2	1.5
250	52	12.1	240	56	9.3	210	59	7.6	189	0.9	1.3	1.6
300	52	12.0	265	57	9.2	231	59	7.5	208	1.0	1.3	1.7
350	53	11.9	288	57	9.1	251	60	7.3	225	1.0	1.4	1.8
400	53	11.8	310	57	9.0	270	60	7.3	241	1.1	1.4	1.8
450	54	11.7	330	58	8.9	287	60	7.2	257	1.1	1.5	1.9
500	54	11.6	349	58	8.8	303	60	7.1	271	1.1	1.5	1.9
550	54	11.6	367	58	8.8	318	61	7.0	284	1.1	1.6	2.0
600	54	11.5	384	58	8.7	333	61	7.0	297	1.2	1.6	2.0
650	55	11.4	400	59	8.6	346	61	6.9	308	1.2	1.6	2.1
700	55	11.4	416	59	8.6	359	61	6.9	320	1.2	1.7	2.1
750	55	11.4	431	59	8.6	372	61	6.9	331	1.2	1.7	2.2
800	55	11.3	445	59	8.5	384	61	6.7	341	1.3	1.7	2.2
900	56	11.2	472	59	8.4	406	62	6.7	361	1.3	1.8	2.3
1000	56	11.0	498	60	8.2	427	62	6.5	379	1.3	1.9	2.4

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2122

35 kV Shielded Three Conductor Solid Paper / Low Pressure Gas Filled
Lead Sheathed Power Cable
Direct Buried - Double Circuit

25°C Earth Ambient

Condr Size	60 Rho Amps	60 Rho Interface Temp °C	60 Rho Flux w/ft²	90 Rho Amps	90 Rho Interface Temp °C	90 Rho Flux w/ft²	120 Rho Amps	120 Rho Interface Temp °C	120 Rho Flux w/ft²	delta Td for .0110 pf & Rho 60	90	120
					75% LF							
					65°C - Aluminum Conductor - Compact Sector Strand							
2/0	180	44	13.8	162	48	11.3	148	51	9.6	0.8	1.1	1.4
3/0	203	44	13.3	183	48	10.9	167	51	9.2	0.9	1.2	1.4
4/0	231	45	13.3	208	49	10.8	190	51	9.1	0.9	1.2	1.5
250	254	45	13.3	228	49	10.8	208	52	9.0	0.9	1.3	1.6
300	281	46	13.3	252	49	10.7	230	52	9.0	1.0	1.3	1.7
350	307	46	13.2	274	50	10.6	250	52	8.9	1.0	1.4	1.8
400	330	46	13.2	295	50	10.5	268	53	8.8	1.1	1.4	1.8
450	353	47	13.1	314	50	10.5	286	53	8.7	1.1	1.5	1.9
500	374	47	13.1	333	51	10.4	302	53	8.6	1.1	1.5	1.9
550	394	47	13.1	350	51	10.4	317	53	8.6	1.1	1.6	2.0
600	413	47	13.0	366	51	10.3	332	54	8.6	1.2	1.6	2.0
650	431	48	13.0	381	51	10.3	346	54	8.5	1.2	1.6	2.1
700	448	48	13.0	396	52	10.2	359	54	8.5	1.2	1.7	2.1
750	465	48	12.9	411	52	10.2	372	54	8.4	1.2	1.7	2.2
800	481	48	12.9	425	52	10.1	384	54	8.3	1.3	1.7	2.2
900	511	49	12.9	451	52	10.1	407	55	8.3	1.3	1.8	2.3
1000	540	49	12.8	475	53	10.0	429	55	8.2	1.3	1.9	2.4

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35 kV Shielded Three Conductor Solid Paper / Low Pressure Gas Filled
Lead Sheathed Power Cable
Direct Buried - Double Circuit

25°C Earth Ambient

Condr Size	60 Rho Amps	60 Rho Interface Temp °C	60 Rho Flux w/ft²	90 Rho Amps	90 Rho Interface Temp °C	90 Rho Flux w/ft²	120 Rho Amps	120 Rho Interface Temp °C	120 Rho Flux w/ft²	delta Td for .0110 pf & Rho 60	90	120
					100% LF							
					65°C - Aluminum Conductor - Compact Sector Strand							
2/0	162	48	11.4	143	52	8.9	129	54	7.2	0.8	1.1	1.4
3/0	183	48	10.9	161	52	8.5	145	54	6.9	0.9	1.2	1.4
4/0	208	49	10.8	182	52	8.4	164	55	6.9	0.9	1.2	1.5
250	228	49	10.7	199	53	8.3	179	55	6.8	0.9	1.3	1.6
300	252	49	10.7	220	53	8.2	197	56	6.6	1.0	1.3	1.7
350	274	50	10.6	238	54	8.1	214	56	6.6	1.0	1.4	1.8
400	294	50	10.5	256	54	8.0	229	56	6.5	1.1	1.4	1.8
450	313	50	10.4	272	54	8.0	243	56	6.5	1.1	1.5	1.9
500	331	51	10.3	287	54	7.9	257	56	6.4	1.1	1.5	1.9
550	348	51	10.3	302	54	7.8	269	57	6.3	1.1	1.6	2.0
600	365	51	10.3	315	55	7.7	281	57	6.2	1.2	1.6	2.0
650	380	51	10.2	328	55	7.7	292	57	6.2	1.2	1.6	2.1
700	394	52	10.1	340	55	7.6	303	57	6.1	1.2	1.7	2.1
750	409	52	10.1	352	55	7.6	313	57	6.1	1.2	1.7	2.2
800	422	52	10.0	364	55	7.5	323	57	6.0	1.3	1.7	2.2
900	448	52	9.9	385	56	7.4	342	58	5.9	1.3	1.8	2.3
1000	472	53	9.8	405	56	7.3	359	58	5.8	1.3	1.9	2.4

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35 kV Shielded Three Conductor Solid Paper / Low Pressure Gas Filled
Lead Sheathed Power Cable
Direct Buried - Double Circuit

25°C Earth Ambient

Condr Size	60 Rho Amps	60 Rho Interface Temp °C	60 Rho Flux w/ft²	90 Rho Amps	90 Rho Interface Temp °C	90 Rho Flux w/ft²	120 Rho Amps	120 Rho Interface Temp °C	120 Rho Flux w/ft²	delta Td for .0110 pf & Rho 60	90	120
					75% LF							
					50°C - Aluminum Conductor - Compact Sector Strand							
2/0	145	37	8.7	130	40	7.1	119	41	6.0	0.8	1.1	1.4
3/0	163	37	8.3	147	40	6.8	134	41	5.7	0.9	1.2	1.4
4/0	186	38	8.4	167	40	6.7	152	42	5.6	0.9	1.2	1.5
250	205	38	8.3	183	40	6.7	167	42	5.6	0.9	1.3	1.6
300	226	38	8.3	202	41	6.6	184	42	5.5	1.0	1.3	1.7
350	247	38	8.3	220	41	6.6	200	42	5.5	1.0	1.4	1.8
400	266	39	8.2	236	41	6.6	214	43	5.5	1.1	1.4	1.8
450	283	39	8.2	251	41	6.5	228	43	5.4	1.1	1.5	1.9
500	300	39	8.2	266	41	6.5	241	43	5.4	1.1	1.5	1.9
550	316	39	8.2	279	41	6.5	253	43	5.4	1.1	1.6	2.0
600	331	39	8.1	292	42	6.4	264	43	5.3	1.2	1.6	2.0
650	345	39	8.1	305	42	6.4	275	43	5.3	1.2	1.6	2.1
700	359	39	8.1	317	42	6.4	286	43	5.2	1.2	1.7	2.1
750	372	40	8.1	328	42	6.3	295	43	5.2	1.2	1.7	2.2
800	385	40	8.1	339	42	6.3	305	44	5.2	1.3	1.7	2.2
900	409	40	8.1	359	42	6.3	323	44	5.1	1.3	1.8	2.3
1000	432	40	8.0	378	43	6.2	339	44	5.1	1.3	1.9	2.4

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35 kV Shielded Three Conductor Solid Paper / Low Pressure Gas Filled
Lead Sheathed Power Cable
Direct Buried - Double Circuit

25°C Earth Ambient

Condr Size	60 Rho Interface Temp Amps	60 Rho Interface Temp °C	60 Rho Flux w/ft²	90 Rho Interface Temp Amps	90 Rho Interface Temp °C	90 Rho Flux w/ft²	120 Rho Interface Temp Amps	120 Rho Interface Temp °C	120 Rho Flux w/ft²	delta Td for .0110 pf & Rho 60	90	120
					100% LF							
					50°C - Aluminum Conductor - Compact Sector Strand							
2/0	131	40	7.2	115	42	5.5	103	44	4.5	0.8	1.1	1.4
3/0	147	40	6.8	129	42	5.3	116	44	4.4	0.9	1.2	1.4
4/0	167	40	6.8	146	42	5.2	131	44	4.3	0.9	1.2	1.5
250	183	40	6.8	160	43	5.2	143	44	4.3	0.9	1.3	1.6
300	202	40	6.7	176	43	5.2	158	44	4.1	1.0	1.3	1.7
350	220	41	6.7	191	43	5.1	171	44	4.1	1.0	1.4	1.8
400	236	41	6.6	205	43	5.0	183	45	4.1	1.1	1.4	1.8
450	252	41	6.5	218	43	5.0	194	45	4.1	1.1	1.5	1.9
500	266	41	6.5	230	44	5.0	205	45	4.0	1.1	1.5	1.9
550	279	41	6.5	241	44	4.9	214	45	4.0	1.1	1.6	2.0
600	292	42	6.4	252	44	4.9	224	45	3.9	1.2	1.6	2.0
650	304	42	6.4	262	44	4.8	233	45	3.9	1.2	1.6	2.1
700	316	42	6.4	272	44	4.8	241	45	3.8	1.2	1.7	2.1
750	327	42	6.3	281	44	4.8	249	45	3.8	1.2	1.7	2.2
800	338	42	6.3	290	44	4.7	257	45	3.8	1.3	1.7	2.2
900	358	42	6.3	306	44	4.7	271	46	3.8	1.3	1.8	2.3
1000	377	43	6.2	322	45	4.6	284	46	3.6	1.3	1.9	2.4

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35 kV Shielded Three Conductor Solid Paper / Low Pressure Gas Filled
Lead Sheathed Power Cable
in Conduit in Air

40°C Air Ambient

Condr Size	No Sun 0 Ft/s	No Sun 2 Ft/s	Full Sun 0 Ft/s	Full Sun 2 Ft/s	delta Td for .0110 pf No Sun 0 Ft/s	delta Td for .0110 pf No Sun 2 Ft/s
80°C - Aluminum Conductor - Compact Sector Strand						
2/0	133	137	80	97	1.2	1.1
3/0	151	156	91	111	1.3	1.2
4/0	172	178	103	126	1.3	1.2
250	188	195	113	138	1.4	1.3
300	208	216	125	153	1.4	1.3
350	227	236	136	167	1.5	1.3
400	245	254	146	180	1.5	1.4
450	268	276	157	191	1.5	1.4
500	284	293	167	203	1.5	1.4
550	299	309	175	213	1.5	1.4
600	313	324	184	224	1.5	1.4
650	327	338	192	234	1.6	1.5
700	340	352	199	243	1.6	1.5
750	353	365	207	252	1.6	1.5
800	365	378	214	261	1.6	1.5
900	389	403	228	278	1.7	1.6
1000	411	426	240	294	1.7	1.6

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35 kV Shielded Three Conductor Solid Paper / Low Pressure Gas Filled
Lead Sheathed Power Cable
in Free Air

40°C Air Ambient

Condr Size	No Sun 0 Ft/s	No Sun 2 Ft/s	Full Sun 0 Ft/s	Full Sun 2 Ft/s	delta Td for .0110 pf No Sun 0 Ft/s	delta Td for .0110 pf No Sun 2 Ft/s
80°C - Aluminum Conductor - Compact Sector Strand						
2/0	155	181	110	150	0.8	0.6
3/0	177	208	126	171	0.9	0.6
4/0	203	238	143	196	0.9	0.6
250	224	262	158	215	0.9	0.6
300	250	292	175	239	0.9	0.7
350	274	320	191	261	1.0	0.7
400	296	345	206	281	1.0	0.7
450	317	370	221	301	1.0	0.7
500	337	393	234	319	1.0	0.7
550	356	415	247	336	1.0	0.7
600	374	436	259	353	1.0	0.7
650	392	456	271	369	1.1	0.7
700	409	476	282	384	1.1	0.7
750	425	495	293	399	1.1	0.8
800	442	514	304	413	1.1	0.8
900	472	549	324	441	1.1	0.8
1000	502	584	343	467	1.1	0.8

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35 kV Shielded Three Conductor Solid Paper / Low Pressure Gas Filled
Lead Sheathed Power Cable
in Unventilated Riser

40°C Air Ambient

Condr Size	No Sun 0 Ft/s	No Sun 2 Ft/s	Full Sun 0 Ft/s	Full Sun 2 Ft/s	delta Td for .0110 pf No Sun 0 Ft/s	delta Td for .0110 pf No Sun 2 Ft/s
80°C - Aluminum Conductor - Compact Sector Strand						
2/0	131	140	102	116	1.2	1.1
3/0	148	159	115	132	1.3	1.1
4/0	168	181	131	150	1.4	1.2
250	184	198	144	165	1.4	1.2
300	203	219	159	183	1.5	1.2
350	221	239	174	200	1.5	1.3
400	237	257	187	215	1.6	1.3
450	263	282	206	232	1.5	1.3
500	279	299	219	247	1.5	1.3
550	293	314	230	260	1.5	1.3
600	306	329	241	272	1.6	1.3
650	319	342	252	284	1.6	1.4
700	331	355	262	296	1.6	1.4
750	342	368	272	307	1.6	1.4
800	353	381	281	318	1.7	1.4
900	374	403	297	338	1.7	1.5
1000	393	425	313	358	1.8	1.5

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