15 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 .0160 pf & Rho 60	90	120
90°C - Copper Conductor - Concentric Strand									
4	119	116	116	111	113	107	0.4	0.5	0.5
3	136	132	132	126	129	122	0.5	0.5	0.6
2	155	150	151	144	147	138	0.5	0.5	0.6
1	177	171	172	164	167	157	0.6	0.6	0.7
90°C - Copper Conductor - Compact Sector Strand									
1/0	197	191	191	182	186	175	0.5	0.6	0.6
2/0	225	217	218	208	212	199	0.6	0.6	0.7
3/0	258	249	250	237	242	227	0.6	0.6	0.7
4/0	295	284	286	271	277	259	0.6	0.7	0.8
250	326	313	315	298	304	284	0.6	0.7	0.8
300	361	347	349	329	337	314	0.7	0.7	0.8
350	395	379	381	359	368	341	0.7	0.8	0.9
400	425	408	410	386	395	367	0.7	0.8	0.9
450	454	435	437	411	422	390	0.7	0.8	0.9
500	483	461	464	436	447	413	0.7	0.8	0.9
550	508	485	488	458	470	434	0.8	0.9	1.0
600	533	509	511	479	492	454	0.8	0.9	1.0
650	554	528	531	497	511	471	0.8	0.9	1.0
700	576	549	552	517	531	489	0.8	0.9	1.0
750	597	569	572	535	550	506	0.8	0.9	1.1
800	618	588	591	552	568	522	0.8	1.0	1.1
900	655	623	626	584	601	551	0.9	1.0	1.1
1000	689	654	658	613	631	578	0.9	1.0	1.1

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15 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 .0160 pf & Rho 60	90	120
90°C - Copper Conductor - Concentric Strand									
4	110	103	104	94	98	88	0.6	0.7	0.8
3	125	116	118	107	111	99	0.6	0.7	0.9
2	142	132	134	121	126	113	0.7	0.8	0.9
1	162	150	152	137	143	127	0.8	0.9	1.1
90°C - Copper Conductor - Compact Sector Strand									
1/0	180	167	169	153	160	142	0.7	0.8	1.0
2/0	205	190	192	174	181	161	0.7	0.9	1.0
3/0	234	216	218	197	206	182	0.8	0.9	1.1
4/0	267	246	249	223	234	206	0.8	1.0	1.2
250	294	269	273	244	256	226	0.9	1.1	1.3
300	324	297	302	269	282	248	0.9	1.1	1.3
350	354	324	328	292	306	269	1.0	1.2	1.4
400	380	347	351	313	328	288	1.0	1.2	1.5
450	405	370	374	332	349	305	1.0	1.3	1.5
500	429	391	395	351	368	322	1.1	1.3	1.6
550	450	410	415	368	386	337	1.1	1.4	1.6
600	471	429	434	384	403	351	1.1	1.4	1.7
650	489	445	450	398	418	364	1.1	1.4	1.7
700	508	461	467	412	433	377	1.2	1.5	1.8
750	526	476	483	426	448	388	1.2	1.5	1.8
800	543	491	498	438	461	399	1.2	1.5	1.8
900	574	517	526	462	486	420	1.3	1.6	1.9
1000	602	541	550	483	508	439	1.3	1.7	2.0

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15 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 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 .0160 pf & Rho 60	90	120
90°C - Copper Conductor - Concentric Strand									
4	99	88	90	78	83	71	0.8	1.0	1.3
3	112	100	101	88	93	80	0.9	1.1	1.4
2	127	113	115	100	105	90	0.9	1.2	1.4
1	144	128	130	112	119	102	1.1	1.4	1.7
90°C - Copper Conductor - Compact Sector Strand									
1/0	160	143	145	126	133	114	1.0	1.3	1.5
2/0	182	162	164	142	150	129	1.0	1.3	1.6
3/0	206	183	186	160	170	145	1.1	1.4	1.8
4/0	235	207	210	181	192	164	1.2	1.6	1.9
250	257	226	230	197	209	178	1.3	1.7	2.1
300	283	249	253	217	230	196	1.3	1.8	2.2
350	307	270	274	234	249	211	1.4	1.8	2.3
400	329	288	293	250	266	226	1.4	1.9	2.4
450	350	306	311	265	282	239	1.5	2.0	2.5
500	370	323	328	279	297	251	1.6	2.1	2.6
550	388	338	343	292	310	262	1.6	2.1	2.7
600	405	353	359	304	323	273	1.7	2.2	2.8
650	420	365	371	315	335	283	1.7	2.3	2.9
700	435	378	384	326	346	292	1.7	2.3	2.9
750	449	390	396	336	358	301	1.8	2.4	3.0
800	463	401	408	345	368	307	1.8	2.5	3.1
900	488	422	429	363	387	322	1.9	2.6	3.2
1000	511	441	448	378	403	336	2.0	2.7	3.4

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15 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 .0160 pf & Rho 60	90	120
90°C - Copper Conductor - Concentric Strand									
4	90	79	81	69	74	62	1.0	1.3	1.6
3	102	89	92	78	84	70	1.1	1.4	1.8
2	116	101	104	88	94	79	1.2	1.5	1.9
1	131	114	117	99	106	89	1.3	1.8	2.2
90°C - Copper Conductor - Compact Sector Strand									
1/0	146	127	131	111	119	100	1.2	1.6	2.0
2/0	166	144	148	125	134	113	1.3	1.7	2.1
3/0	188	163	167	141	151	127	1.4	1.9	2.3
4/0	213	183	189	159	170	142	1.5	2.0	2.5
250	233	200	206	173	186	154	1.6	2.1	2.7
300	256	219	226	189	203	169	1.7	2.3	2.9
350	277	237	244	205	220	183	1.8	2.4	3.0
400	296	253	261	219	235	194	1.9	2.5	3.2
450	315	269	276	232	249	206	2.0	2.6	3.3
500	332	283	291	244	262	216	2.0	2.7	3.4
550	348	296	304	255	273	226	2.1	2.8	3.5
600	363	309	319	265	284	235	2.2	2.9	3.7
650	376	320	330	274	294	243	2.2	3.0	3.8
700	389	331	342	283	304	251	2.3	3.1	3.9
750	401	341	352	292	313	258	2.3	3.2	4.0
800	413	351	360	300	322	265	2.4	3.2	4.1
900	435	369	379	314	338	279	2.5	3.4	4.3
1000	454	384	398	327	353	290	2.6	3.5	4.5

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15 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 .0160 pf & Rho 60	90	120
						75% LF						
						90°C - Copper Conductor - Concentric Strand						
4	168	50	37.5	154	56	31.7	144	61	27.6	0.2	0.3	0.3
3	191	51	37.4	176	57	31.6	164	61	27.4	0.2	0.3	0.4
2	219	51	37.4	200	58	31.5	186	62	27.3	0.2	0.3	0.4
1	252	53	39.2	230	59	32.6	214	63	28.1	0.3	0.4	0.4
						90°C - Copper Conductor - Compact Sector Strand						
1/0	283	53	41.2	258	59	34.3	239	64	29.3	0.2	0.3	0.4
2/0	324	54	41.4	295	60	34.2	273	65	29.2	0.3	0.3	0.4
3/0	372	55	41.2	338	61	33.9	312	65	28.9	0.3	0.4	0.5
4/0	428	56	41.1	387	62	33.6	357	66	28.6	0.3	0.4	0.5
250	472	57	40.9	427	63	33.4	392	67	28.3	0.3	0.4	0.5
300	525	57	40.7	473	63	33.2	435	68	28.0	0.3	0.4	0.5
350	575	58	40.5	517	64	32.8	475	68	27.6	0.3	0.4	0.6
400	620	58	40.3	557	64	32.6	511	69	27.5	0.3	0.5	0.6
450	663	59	40.2	595	65	32.4	545	69	27.3	0.4	0.5	0.6
500	705	59	39.9	632	65	32.2	578	69	26.9	0.4	0.5	0.6
550	742	60	39.8	665	66	32.0	608	70	26.8	0.4	0.5	0.6
600	780	60	39.6	697	66	31.8	638	70	26.6	0.4	0.5	0.6
650	800	59	37.3	718	65	30.1	658	69	25.3	0.4	0.5	0.7
700	834	59	37.2	748	65	30.0	685	69	25.2	0.4	0.5	0.7
750	865	59	37.1	775	65	29.9	710	69	25.1	0.4	0.6	0.7
800	895	60	37.0	802	66	29.7	733	70	25.0	0.4	0.6	0.7
900	951	60	36.9	851	66	29.5	777	70	24.7	0.4	0.6	0.7
1000	1003	61	36.7	895	67	29.3	818	71	24.5	0.4	0.6	0.8

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15 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 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 .0160 pf & Rho 60	90	120
						100% LF						
						90°C - Copper Conductor - Concentric Strand						
4	157	55	33.1	142	62	26.9	130	66	22.7	0.2	0.3	0.3
3	179	56	32.9	161	62	26.7	148	67	22.3	0.2	0.3	0.4
2	204	56	32.7	183	63	26.4	168	67	22.2	0.2	0.3	0.4
1	235	58	34.0	210	64	27.2	192	69	22.7	0.3	0.4	0.4
						90°C - Copper Conductor - Compact Sector Strand						
1/0	264	58	35.7	235	65	28.5	214	69	23.8	0.2	0.3	0.4
2/0	301	59	35.6	268	65	28.3	244	70	23.5	0.3	0.3	0.4
3/0	344	60	35.4	306	66	27.8	278	71	23.0	0.3	0.4	0.5
4/0	395	61	35.0	349	67	27.4	316	71	22.6	0.3	0.4	0.5
250	434	62	34.6	384	68	27.0	347	72	22.1	0.3	0.4	0.5
300	482	62	34.3	424	69	26.7	383	73	21.8	0.3	0.4	0.5
350	526	63	33.9	462	69	26.2	417	73	21.4	0.3	0.4	0.6
400	566	64	33.6	497	70	26.0	448	74	21.1	0.3	0.5	0.6
450	604	64	33.3	529	70	25.6	477	74	20.9	0.4	0.5	0.6
500	640	65	33.0	560	71	25.4	504	74	20.5	0.4	0.5	0.6
550	673	65	32.8	589	71	25.1	529	75	20.4	0.4	0.5	0.6
600	706	65	32.5	616	71	24.9	554	75	20.1	0.4	0.5	0.6
650	726	64	30.8	636	70	23.6	572	74	19.2	0.4	0.5	0.7
700	755	65	30.6	660	71	23.5	594	74	19.0	0.4	0.5	0.7
750	782	65	30.4	683	71	23.3	614	75	18.8	0.4	0.6	0.7
800	808	65	30.2	705	71	23.0	634	75	18.7	0.4	0.6	0.7
900	856	66	29.9	746	72	22.8	670	75	18.4	0.4	0.6	0.7
1000	900	66	29.6	783	72	22.5	702	76	18.1	0.4	0.6	0.8

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15 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 .0160 pf & Rho 60	90	120
					75% LF							
					80°C - Copper Conductor - Concentric Strand							
4	157	46	31.7	144	52	26.8	134	55	23.4	0.2	0.3	0.3
3	179	47	31.7	164	52	26.7	153	56	23.3	0.2	0.3	0.4
2	204	47	31.7	187	53	26.6	174	56	23.1	0.2	0.3	0.4
1	236	49	33.1	215	54	27.6	199	58	23.8	0.3	0.4	0.4
					80°C - Copper Conductor - Compact Sector Strand							
1/0	264	49	34.9	241	54	28.9	223	58	24.8	0.2	0.3	0.4
2/0	303	50	35.0	275	55	29.0	255	59	24.8	0.3	0.3	0.4
3/0	348	50	34.9	315	56	28.7	291	59	24.4	0.3	0.4	0.5
4/0	400	51	34.8	361	56	28.6	333	60	24.2	0.3	0.4	0.5
250	441	52	34.6	398	57	28.3	366	61	24.0	0.3	0.4	0.5
300	490	52	34.6	442	58	28.1	406	61	23.7	0.3	0.4	0.5
350	537	53	34.3	483	58	27.7	443	62	23.5	0.3	0.4	0.6
400	579	53	34.2	520	58	27.6	476	62	23.2	0.3	0.5	0.6
450	619	54	34.0	555	59	27.5	508	62	23.0	0.4	0.5	0.6
500	657	54	33.8	589	59	27.2	539	63	22.8	0.4	0.5	0.6
550	692	54	33.7	620	59	27.0	567	63	22.6	0.4	0.5	0.6
600	727	55	33.6	650	60	26.9	594	63	22.5	0.4	0.5	0.6
650	746	54	31.6	669	59	25.5	613	62	21.5	0.4	0.5	0.7
700	777	54	31.6	696	59	25.4	637	62	21.3	0.4	0.5	0.7
750	806	54	31.5	722	59	25.3	660	63	21.2	0.4	0.6	0.7
800	833	54	31.4	746	60	25.2	682	63	21.1	0.4	0.6	0.7
900	885	55	31.2	791	60	25.0	723	63	20.9	0.4	0.6	0.7
1000	932	55	31.1	832	60	24.8	760	64	20.7	0.4	0.6	0.8

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15 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 .0160 pf & Rho 60	90	120
					100% LF							
					80°C - Copper Conductor - Concentric Strand							
4	147	50	27.9	133	56	22.7	122	60	19.1	0.2	0.3	0.3
3	167	51	27.9	151	56	22.6	138	60	18.9	0.2	0.3	0.4
2	191	51	27.6	171	57	22.3	157	61	18.7	0.2	0.3	0.4
1	219	53	28.7	196	58	22.9	179	62	19.1	0.3	0.4	0.4
					80°C - Copper Conductor - Compact Sector Strand							
1/0	246	53	30.3	220	59	24.2	200	62	20.0	0.2	0.3	0.4
2/0	281	54	30.1	250	59	23.9	228	63	19.8	0.3	0.3	0.4
3/0	322	55	29.9	285	60	23.6	259	64	19.4	0.3	0.4	0.5
4/0	368	56	29.6	326	61	23.3	295	64	19.1	0.3	0.4	0.5
250	406	56	29.3	358	61	22.9	324	65	18.8	0.3	0.4	0.5
300	449	57	29.0	396	62	22.5	358	65	18.5	0.3	0.4	0.5
350	491	57	28.7	431	62	22.2	389	66	18.2	0.3	0.4	0.6
400	528	58	28.5	463	63	22.0	418	66	17.8	0.3	0.5	0.6
450	563	58	28.2	493	63	21.8	444	66	17.6	0.4	0.5	0.6
500	597	59	28.0	522	64	21.4	470	67	17.4	0.4	0.5	0.6
550	628	59	27.8	549	64	21.3	493	67	17.3	0.4	0.5	0.6
600	658	59	27.5	574	64	21.0	516	67	17.0	0.4	0.5	0.6
650	676	58	26.0	592	63	20.0	533	67	16.3	0.4	0.5	0.7
700	703	59	25.9	615	64	19.9	553	67	16.1	0.4	0.5	0.7
750	728	59	25.7	636	64	19.7	572	67	16.0	0.4	0.6	0.7
800	752	59	25.6	656	64	19.5	590	67	15.8	0.4	0.6	0.7
900	796	60	25.3	694	65	19.3	623	68	15.6	0.4	0.6	0.7
1000	837	60	25.1	728	65	19.0	653	68	15.3	0.4	0.6	0.8

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Not for Resale

15 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 .0160 pf & Rho 60	90	120
					75% LF							
					65°C - Copper Conductor - Concentric Strand							
4	137	41	23.1	126	44	19.6	117	47	17.0	0.2	0.3	0.3
3	156	41	23.0	143	45	19.4	133	47	16.9	0.2	0.3	0.4
2	178	41	23.1	163	45	19.4	152	48	16.8	0.2	0.3	0.4
1	206	42	24.1	188	46	20.0	174	49	17.3	0.3	0.4	0.4
					65°C - Copper Conductor - Compact Sector Strand							
1/0	231	42	25.4	210	46	21.1	195	49	18.1	0.2	0.3	0.4
2/0	264	43	25.4	240	47	21.1	222	49	18.0	0.3	0.3	0.4
3/0	303	44	25.4	275	47	20.9	254	50	17.7	0.3	0.4	0.5
4/0	349	44	25.3	315	48	20.7	290	51	17.6	0.3	0.4	0.5
250	385	45	25.2	347	48	20.6	319	51	17.4	0.3	0.4	0.5
300	427	45	25.1	385	49	20.4	354	51	17.2	0.3	0.4	0.5
350	468	45	25.0	421	49	20.2	386	52	17.0	0.3	0.4	0.6
400	504	46	24.9	453	49	20.1	415	52	16.9	0.3	0.5	0.6
450	539	46	24.8	483	50	19.9	442	52	16.8	0.4	0.5	0.6
500	572	46	24.6	513	50	19.8	469	52	16.6	0.4	0.5	0.6
550	602	46	24.6	539	50	19.7	493	53	16.5	0.4	0.5	0.6
600	632	47	24.5	565	50	19.6	516	53	16.4	0.4	0.5	0.6
650	648	46	23.0	582	50	18.6	532	52	15.6	0.4	0.5	0.7
700	675	46	23.0	605	50	18.5	553	52	15.5	0.4	0.5	0.7
750	700	46	22.9	626	50	18.4	573	53	15.4	0.4	0.6	0.7
800	724	47	22.9	647	50	18.3	591	53	15.3	0.4	0.6	0.7
900	768	47	22.8	686	51	18.2	626	53	15.2	0.4	0.6	0.7
1000	808	47	22.6	720	51	18.0	657	53	15.1	0.4	0.6	0.8

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15 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 .0160 pf & Rho 60	90	120
					100% LF							
					65°C - Copper Conductor - Concentric Strand							
4	128	44	20.4	116	48	16.5	106	50	13.9	0.2	0.3	0.3
3	146	44	20.2	132	48	16.4	120	51	13.7	0.2	0.3	0.4
2	167	44	20.1	150	48	16.3	137	51	13.6	0.2	0.3	0.4
1	192	45	20.9	171	49	16.8	156	52	14.0	0.3	0.4	0.4
					65°C - Copper Conductor - Compact Sector Strand							
1/0	215	45	22.0	192	49	17.5	175	52	14.6	0.2	0.3	0.4
2/0	246	46	22.0	218	50	17.4	199	53	14.4	0.3	0.3	0.4
3/0	281	47	21.8	249	51	17.1	226	53	14.2	0.3	0.4	0.5
4/0	321	47	21.5	284	51	16.9	257	54	13.9	0.3	0.4	0.5
250	354	48	21.3	312	52	16.7	282	54	13.6	0.3	0.4	0.5
300	392	48	21.2	345	52	16.5	312	54	13.4	0.3	0.4	0.5
350	428	49	20.9	376	52	16.1	339	55	13.2	0.3	0.4	0.6
400	460	49	20.7	403	53	16.0	363	55	13.0	0.3	0.5	0.6
450	491	49	20.5	430	53	15.8	387	55	12.8	0.4	0.5	0.6
500	520	49	20.3	455	53	15.6	409	55	12.7	0.4	0.5	0.6
550	546	50	20.3	477	53	15.5	429	56	12.5	0.4	0.5	0.6
600	572	50	20.0	499	54	15.3	448	56	12.4	0.4	0.5	0.6
650	588	49	19.0	514	53	14.6	463	55	11.9	0.4	0.5	0.7
700	611	50	18.9	534	53	14.4	480	56	11.7	0.4	0.5	0.7
750	632	50	18.8	552	53	14.3	496	56	11.6	0.4	0.6	0.7
800	653	50	18.6	569	54	14.2	511	56	11.5	0.4	0.6	0.7
900	691	50	18.5	601	54	14.1	539	56	11.3	0.4	0.6	0.7
1000	725	51	18.3	630	54	13.9	564	56	11.2	0.4	0.6	0.8

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15 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 .0160 pf & Rho 60	90	120
					75% LF							
					50°C - Copper Conductor - Concentric Strand							
4	111	35	14.5	102	37	12.2	95	39	10.7	0.2	0.3	0.3
3	126	35	14.4	116	37	12.2	108	39	10.6	0.2	0.3	0.4
2	144	35	14.4	132	38	12.1	123	39	10.4	0.2	0.3	0.4
1	167	36	15.1	152	38	12.6	141	40	10.8	0.3	0.4	0.4
					50°C - Copper Conductor - Compact Sector Strand							
1/0	187	36	15.8	170	38	13.1	157	40	11.3	0.2	0.3	0.4
2/0	214	36	16.0	194	39	13.2	180	40	11.2	0.3	0.3	0.4
3/0	245	37	15.9	222	39	13.0	205	41	11.2	0.3	0.4	0.5
4/0	282	37	15.9	255	39	13.0	234	41	10.9	0.3	0.4	0.5
250	311	37	15.8	280	40	12.8	258	41	10.8	0.3	0.4	0.5
300	345	38	15.7	311	40	12.8	285	42	10.7	0.3	0.4	0.5
350	378	38	15.6	339	40	12.6	311	42	10.6	0.3	0.4	0.6
400	407	38	15.6	365	40	12.6	334	42	10.5	0.3	0.5	0.6
450	435	38	15.5	390	41	12.4	356	42	10.5	0.4	0.5	0.6
500	462	38	15.4	413	41	12.4	377	42	10.3	0.4	0.5	0.6
550	486	38	15.3	434	41	12.3	396	42	10.3	0.4	0.5	0.6
600	509	39	15.3	455	41	12.2	415	42	10.2	0.4	0.5	0.6
650	522	38	14.4	468	41	11.6	428	42	9.7	0.4	0.5	0.7
700	543	38	14.4	486	41	11.5	444	42	9.7	0.4	0.5	0.7
750	563	38	14.3	503	41	11.5	460	42	9.7	0.4	0.6	0.7
800	582	39	14.3	519	41	11.5	474	42	9.5	0.4	0.6	0.7
900	616	39	14.2	550	41	11.4	501	43	9.5	0.4	0.6	0.7
1000	648	39	14.2	577	41	11.3	525	43	9.4	0.4	0.6	0.8

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15 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 °C	Flux w/ft²	---- 90 Rho--- Interface Temp Amps °C	Flux w/ft²	----120 Rho--- Interface Temp Amps °C	Flux w/ft²	delta Td for .0160 pf & Rho 60	90	120
100% LF									
50°C - Copper Conductor - Concentric Strand									
4	104	12.7	94	10.4	86	8.8	0.2	0.3	0.3
3	118	12.7	106	10.3	97	8.6	0.2	0.3	0.4
2	135	12.6	121	10.2	111	8.5	0.2	0.3	0.4
1	155	13.1	138	10.5	126	8.7	0.3	0.4	0.4
50°C - Copper Conductor - Compact Sector Strand									
1/0	174	13.8	155	11.0	141	9.2	0.2	0.3	0.4
2/0	199	13.8	177	10.9	161	9.1	0.3	0.3	0.4
3/0	227	13.6	201	10.7	183	8.9	0.3	0.4	0.5
4/0	260	13.5	230	10.6	208	8.6	0.3	0.4	0.5
250	286	13.4	252	10.4	228	8.5	0.3	0.4	0.5
300	317	13.2	279	10.3	251	8.4	0.3	0.4	0.5
350	345	13.1	303	10.1	273	8.3	0.3	0.4	0.6
400	371	13.0	325	10.0	293	8.1	0.3	0.5	0.6
450	396	12.9	346	9.9	311	8.1	0.4	0.5	0.6
500	419	12.8	366	9.8	329	7.9	0.4	0.5	0.6
550	440	12.7	384	9.7	345	7.9	0.4	0.5	0.6
600	461	12.6	402	9.6	360	7.7	0.4	0.5	0.6
650	473	11.9	414	9.1	372	7.4	0.4	0.5	0.7
700	491	11.9	429	9.0	385	7.3	0.4	0.5	0.7
750	508	11.7	443	9.0	398	7.3	0.4	0.6	0.7
800	525	11.7	457	8.9	410	7.2	0.4	0.6	0.7
900	554	11.6	482	8.8	432	7.1	0.4	0.6	0.7
1000	581	11.4	504	8.7	451	7.0	0.4	0.6	0.8

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15 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 .0160 pf & Rho 60	90	120
					75% LF							
					90°C - Copper Conductor - Concentric Strand							
4	154	57	31.6	139	63	25.7	127	67	21.6	0.3	0.4	0.5
3	175	57	31.5	158	63	25.4	144	68	21.4	0.3	0.4	0.5
2	200	58	31.2	179	64	25.1	164	68	21.1	0.3	0.4	0.5
1	229	59	32.2	205	66	25.8	187	70	21.5	0.4	0.5	0.6
					90°C - Copper Conductor - Compact Sector Strand							
1/0	257	60	34.0	229	66	27.1	209	70	22.6	0.3	0.5	0.6
2/0	294	61	33.8	261	67	26.8	238	71	22.3	0.4	0.5	0.6
3/0	335	62	33.4	298	68	26.4	270	72	21.9	0.4	0.5	0.7
4/0	384	63	33.1	339	69	25.9	308	72	21.3	0.4	0.6	0.7
250	422	63	32.7	373	69	25.5	337	73	21.0	0.4	0.6	0.8
300	467	64	32.3	412	70	25.1	372	74	20.6	0.5	0.6	0.8
350	510	65	31.8	448	70	24.7	405	74	20.2	0.5	0.7	0.8
400	548	65	31.6	481	71	24.4	434	74	19.9	0.5	0.7	0.9
450	585	66	31.3	513	71	24.1	462	75	19.7	0.5	0.7	0.9
500	620	66	30.9	542	72	23.8	489	75	19.3	0.5	0.7	0.9
550	651	67	30.7	570	72	23.6	513	76	19.1	0.5	0.8	1.0
600	682	67	30.5	596	72	23.2	536	76	18.9	0.6	0.8	1.0
650	702	66	28.7	615	72	22.1	554	75	18.0	0.6	0.8	1.0
700	729	66	28.6	638	72	22.0	575	75	17.9	0.6	0.8	1.1
750	755	67	28.4	660	72	21.7	594	76	17.7	0.6	0.8	1.1
800	780	67	28.2	681	72	21.5	613	76	17.5	0.6	0.9	1.1
900	826	68	27.9	720	73	21.2	648	76	17.2	0.6	0.9	1.1
1000	868	68	27.5	756	73	20.9	679	77	16.9	0.7	0.9	1.2

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15 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 .0160 pf & Rho 60	90	120
100% LF												
90°C - Copper Conductor - Concentric Strand												
4	140	62	26.1	123	69	20.4	111	72	16.7	0.3	0.4	0.5
3	159	63	25.9	140	69	20.0	126	73	16.4	0.3	0.4	0.5
2	180	64	25.5	158	70	19.7	143	74	16.0	0.3	0.4	0.5
1	206	65	26.2	180	71	20.0	162	75	16.2	0.4	0.5	0.6
90°C - Copper Conductor - Compact Sector Strand												
1/0	232	65	27.6	202	71	21.1	182	75	17.0	0.3	0.5	0.6
2/0	263	66	27.3	229	72	20.7	206	76	16.7	0.4	0.5	0.6
3/0	300	67	26.9	260	73	20.3	233	76	16.3	0.4	0.5	0.7
4/0	342	68	26.3	296	74	19.7	264	77	15.8	0.4	0.6	0.7
250	375	69	25.8	324	74	19.3	289	78	15.4	0.4	0.6	0.8
300	414	70	25.4	357	75	18.9	318	78	15.1	0.5	0.6	0.8
350	450	70	24.9	387	75	18.5	345	78	14.7	0.5	0.7	0.8
400	483	71	24.5	415	76	18.1	369	79	14.4	0.5	0.7	0.9
450	514	71	24.2	441	76	17.8	392	79	14.2	0.5	0.7	0.9
500	543	72	23.8	465	77	17.5	413	79	13.9	0.5	0.7	0.9
550	570	72	23.6	488	77	17.3	433	80	13.7	0.5	0.8	1.0
600	596	72	23.2	509	77	17.0	452	80	13.5	0.6	0.8	1.0
650	614	72	22.1	526	77	16.3	467	79	12.9	0.6	0.8	1.0
700	637	72	21.8	545	77	16.0	484	80	12.7	0.6	0.8	1.1
750	659	72	21.6	563	77	15.9	500	80	12.5	0.6	0.8	1.1
800	679	73	21.4	580	77	15.6	514	80	12.4	0.6	0.9	1.1
900	717	73	21.0	612	78	15.4	542	80	12.1	0.6	0.9	1.1
1000	751	74	20.7	640	78	15.1	567	81	11.9	0.7	0.9	1.2

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15 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 .0160 pf & Rho 60	90	120
					75% LF							
					80°C - Copper Conductor - Concentric Strand							
4	144	52	26.8	129	57	21.7	119	61	18.3	0.3	0.4	0.5
3	164	52	26.6	147	58	21.5	135	61	18.1	0.3	0.4	0.5
2	186	53	26.4	167	58	21.3	153	62	17.8	0.3	0.4	0.5
1	214	54	27.3	191	59	21.8	174	63	18.3	0.4	0.5	0.6
					80°C - Copper Conductor - Compact Sector Strand							
1/0	240	54	28.8	214	60	23.0	195	63	19.1	0.3	0.5	0.6
2/0	274	55	28.6	244	60	22.7	222	64	18.9	0.4	0.5	0.6
3/0	313	56	28.3	278	61	22.4	252	64	18.5	0.4	0.5	0.7
4/0	358	57	28.0	317	62	21.9	287	65	18.1	0.4	0.6	0.7
250	394	57	27.6	348	62	21.6	315	66	17.7	0.4	0.6	0.8
300	436	58	27.3	384	63	21.3	347	66	17.4	0.5	0.6	0.8
350	476	59	26.9	418	64	20.9	378	67	17.0	0.5	0.7	0.8
400	511	59	26.8	449	64	20.6	405	67	16.9	0.5	0.7	0.9
450	545	60	26.5	478	64	20.4	431	67	16.6	0.5	0.7	0.9
500	578	60	26.2	506	65	20.0	455	68	16.3	0.5	0.7	0.9
550	607	60	26.0	531	65	19.9	478	68	16.2	0.5	0.8	1.0
600	636	61	25.7	555	65	19.7	499	68	15.9	0.6	0.8	1.0
650	654	60	24.4	572	65	18.8	516	67	15.3	0.6	0.8	1.0
700	679	60	24.2	594	65	18.5	535	68	15.1	0.6	0.8	1.1
750	703	60	24.0	614	65	18.4	553	68	14.9	0.6	0.8	1.1
800	726	61	23.8	634	65	18.2	570	68	14.8	0.6	0.9	1.1
900	768	61	23.6	670	66	17.9	602	68	14.5	0.6	0.9	1.1
1000	806	62	23.3	702	66	17.7	630	69	14.3	0.7	0.9	1.2

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15 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 .0160 pf & Rho 60	90	120
					100% LF							
					80°C - Copper Conductor - Concentric Strand							
4	131	57	22.2	115	62	17.2	104	65	14.1	0.3	0.4	0.5
3	148	57	21.9	130	62	16.9	118	66	13.9	0.3	0.4	0.5
2	169	58	21.6	148	63	16.7	133	66	13.5	0.3	0.4	0.5
1	193	59	22.2	168	64	17.0	151	67	13.7	0.4	0.5	0.6
					80°C - Copper Conductor - Compact Sector Strand							
1/0	216	59	23.4	189	64	17.8	170	67	14.5	0.3	0.5	0.6
2/0	246	60	23.1	214	65	17.6	192	68	14.2	0.4	0.5	0.6
3/0	280	61	22.7	243	66	17.1	218	68	13.7	0.4	0.5	0.7
4/0	319	62	22.2	276	66	16.7	247	69	13.4	0.4	0.6	0.7
250	350	62	21.8	302	67	16.4	269	69	13.0	0.4	0.6	0.8
300	386	63	21.5	333	67	15.9	296	70	12.8	0.5	0.6	0.8
350	420	63	21.0	361	68	15.6	321	70	12.4	0.5	0.7	0.8
400	450	64	20.7	387	68	15.4	344	71	12.2	0.5	0.7	0.9
450	479	64	20.5	411	68	15.1	365	71	11.9	0.5	0.7	0.9
500	506	65	20.1	434	69	14.8	385	71	11.7	0.5	0.7	0.9
550	531	65	19.9	454	69	14.6	403	71	11.6	0.5	0.8	1.0
600	555	65	19.7	475	69	14.4	421	72	11.4	0.6	0.8	1.0
650	572	65	18.7	490	69	13.7	435	71	10.9	0.6	0.8	1.0
700	593	65	18.5	507	69	13.6	450	71	10.8	0.6	0.8	1.1
750	613	65	18.3	524	69	13.4	465	71	10.7	0.6	0.8	1.1
800	632	65	18.1	540	69	13.2	478	72	10.5	0.6	0.9	1.1
900	667	66	17.8	569	70	13.0	504	72	10.3	0.6	0.9	1.1
1000	698	66	17.5	594	70	12.8	526	72	10.1	0.7	0.9	1.2

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15 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 .0160 pf & Rho 60	90	120
					75% LF							
					65°C - Copper Conductor - Concentric Strand							
4	125	44	19.4	113	48	15.9	104	51	13.3	0.3	0.4	0.5
3	143	45	19.3	128	49	15.6	118	51	13.2	0.3	0.4	0.5
2	163	45	19.2	146	49	15.4	133	52	13.0	0.3	0.4	0.5
1	187	46	19.9	167	50	15.9	152	53	13.2	0.4	0.5	0.6
					65°C - Copper Conductor - Compact Sector Strand							
1/0	210	46	21.0	187	50	16.7	170	53	13.9	0.3	0.5	0.6
2/0	239	47	20.8	213	51	16.5	194	53	13.7	0.4	0.5	0.6
3/0	273	48	20.7	242	51	16.3	220	54	13.5	0.4	0.5	0.7
4/0	312	48	20.4	276	52	16.0	250	54	13.1	0.4	0.6	0.7
250	343	49	20.1	303	52	15.7	274	55	12.9	0.4	0.6	0.8
300	380	49	19.9	335	53	15.4	302	55	12.7	0.5	0.6	0.8
350	414	50	19.6	364	53	15.2	328	55	12.4	0.5	0.7	0.8
400	445	50	19.4	391	53	15.0	352	56	12.2	0.5	0.7	0.9
450	475	50	19.3	416	54	14.8	374	56	12.0	0.5	0.7	0.9
500	503	51	19.0	439	54	14.6	396	56	11.8	0.5	0.7	0.9
550	528	51	18.9	461	54	14.5	415	56	11.8	0.5	0.8	1.0
600	553	51	18.7	482	54	14.3	433	56	11.6	0.6	0.8	1.0
650	568	50	17.7	497	54	13.6	447	56	11.1	0.6	0.8	1.0
700	590	51	17.6	515	54	13.5	464	56	10.9	0.6	0.8	1.1
750	610	51	17.5	533	54	13.4	479	56	10.8	0.6	0.8	1.1
800	630	51	17.3	549	54	13.2	493	56	10.8	0.6	0.9	1.1
900	666	51	17.2	580	55	13.0	520	57	10.6	0.6	0.9	1.1
1000	698	52	17.0	607	55	12.8	544	57	10.4	0.7	0.9	1.2

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15 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 .0160 pf & Rho 60	90	120
	°C	w/ft²		°C	w/ft²		°C	w/ft²				
100% LF												
65°C - Copper Conductor - Concentric Strand												
4	114	48	16.1	100	52	12.6	91	54	10.3	0.3	0.4	0.5
3	130	48	15.9	114	52	12.3	103	55	10.0	0.3	0.4	0.5
2	147	49	15.7	129	53	12.1	116	55	9.8	0.3	0.4	0.5
1	168	50	16.1	147	53	12.3	132	56	9.9	0.4	0.5	0.6
65°C - Copper Conductor - Compact Sector Strand												
1/0	189	50	17.0	165	54	13.0	148	56	10.5	0.3	0.5	0.6
2/0	215	51	16.9	187	54	12.8	167	56	10.3	0.4	0.5	0.6
3/0	244	51	16.5	212	55	12.5	190	57	10.0	0.4	0.5	0.7
4/0	278	52	16.1	240	55	12.1	215	57	9.7	0.4	0.6	0.7
250	305	52	15.9	263	55	11.8	235	57	9.5	0.4	0.6	0.8
300	336	53	15.6	290	56	11.6	258	58	9.2	0.5	0.6	0.8
350	366	53	15.3	314	56	11.3	279	58	9.1	0.5	0.7	0.8
400	392	53	15.1	336	56	11.2	299	58	8.9	0.5	0.7	0.9
450	417	54	14.9	357	57	11.0	317	58	8.8	0.5	0.7	0.9
500	440	54	14.6	377	57	10.8	334	59	8.6	0.5	0.7	0.9
550	462	54	14.5	395	57	10.7	350	59	8.4	0.5	0.8	1.0
600	483	54	14.3	412	57	10.5	365	59	8.3	0.6	0.8	1.0
650	497	54	13.6	425	57	10.0	377	59	7.9	0.6	0.8	1.0
700	515	54	13.4	440	57	9.9	390	59	7.8	0.6	0.8	1.1
750	532	54	13.4	454	57	9.8	402	59	7.7	0.6	0.8	1.1
800	548	54	13.2	467	57	9.6	414	59	7.6	0.6	0.9	1.1
900	578	55	13.0	492	58	9.5	435	59	7.5	0.6	0.9	1.1
1000	604	55	12.8	514	58	9.3	454	59	7.3	0.7	0.9	1.2

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15 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 .0160 pf & Rho 60	90	120
					75% LF							
					50°C - Copper Conductor - Concentric Strand							
4	102	37	12.2	91	40	9.8	84	41	8.3	0.3	0.4	0.5
3	116	37	12.0	104	40	9.8	95	42	8.2	0.3	0.4	0.5
2	132	38	12.0	118	40	9.7	108	42	8.2	0.3	0.4	0.5
1	151	38	12.5	135	41	9.9	123	42	8.3	0.4	0.5	0.6
					50°C - Copper Conductor - Compact Sector Strand							
1/0	170	38	13.1	151	41	10.4	138	42	8.6	0.3	0.5	0.6
2/0	193	39	13.0	172	41	10.3	156	43	8.6	0.4	0.5	0.6
3/0	221	39	12.9	196	42	10.1	177	43	8.4	0.4	0.5	0.7
4/0	252	40	12.8	223	42	9.9	202	43	8.2	0.4	0.6	0.7
250	277	40	12.6	244	42	9.8	221	44	8.1	0.4	0.6	0.8
300	307	40	12.4	270	42	9.7	243	44	7.9	0.5	0.6	0.8
350	334	40	12.2	293	43	9.5	264	44	7.8	0.5	0.7	0.8
400	359	41	12.2	315	43	9.4	283	44	7.6	0.5	0.7	0.9
450	383	41	12.0	335	43	9.2	301	44	7.5	0.5	0.7	0.9
500	405	41	11.9	353	43	9.1	318	45	7.4	0.5	0.7	0.9
550	425	41	11.8	371	43	9.0	333	45	7.3	0.5	0.8	1.0
600	445	41	11.8	387	43	8.9	347	45	7.2	0.6	0.8	1.0
650	457	41	11.1	399	43	8.5	358	44	6.9	0.6	0.8	1.0
700	474	41	11.0	413	43	8.4	371	45	6.8	0.6	0.8	1.1
750	490	41	10.9	427	43	8.4	383	45	6.8	0.6	0.8	1.1
800	505	41	10.8	440	43	8.3	394	45	6.7	0.6	0.9	1.1
900	533	42	10.7	463	44	8.2	415	45	6.6	0.6	0.9	1.1
1000	559	42	10.6	484	44	8.0	433	45	6.5	0.7	0.9	1.2

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15 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 .0160 pf & Rho 60	90	120
	°C	w/ft²	Amps	°C	w/ft²	Amps	°C	w/ft²	Amps			
100% LF												
50°C - Copper Conductor - Concentric Strand												
4	39	10.1	92	42	7.8	81	43	6.4	73	0.3	0.4	0.5
3	40	9.9	105	42	7.7	92	44	6.3	83	0.3	0.4	0.5
2	40	9.8	119	42	7.6	104	44	6.1	94	0.3	0.4	0.5
1	41	10.1	136	43	7.7	119	44	6.3	106	0.4	0.5	0.6
50°C - Copper Conductor - Compact Sector Strand												
1/0	41	10.6	153	43	8.1	133	44	6.5	119	0.3	0.5	0.6
2/0	41	10.5	174	43	8.0	151	45	6.4	135	0.4	0.5	0.6
3/0	41	10.3	197	44	7.8	171	45	6.3	153	0.4	0.5	0.7
4/0	42	10.1	225	44	7.6	194	45	6.1	173	0.4	0.6	0.7
250	42	10.0	246	44	7.4	212	45	6.0	189	0.4	0.6	0.8
300	42	9.8	272	44	7.2	233	46	5.8	208	0.5	0.6	0.8
350	43	9.6	295	45	7.1	253	46	5.6	225	0.5	0.7	0.8
400	43	9.4	316	45	7.0	271	46	5.6	240	0.5	0.7	0.9
450	43	9.3	336	45	6.9	287	46	5.5	255	0.5	0.7	0.9
500	43	9.1	355	45	6.7	303	46	5.3	268	0.5	0.7	0.9
550	43	9.1	372	45	6.7	317	46	5.3	281	0.5	0.8	1.0
600	43	9.0	388	45	6.6	331	46	5.2	293	0.6	0.8	1.0
650	43	8.5	399	45	6.3	341	46	4.9	302	0.6	0.8	1.0
700	43	8.4	413	45	6.2	353	46	4.9	312	0.6	0.8	1.1
750	43	8.4	427	45	6.1	364	46	4.8	322	0.6	0.8	1.1
800	44	8.3	439	45	6.0	374	46	4.7	331	0.6	0.9	1.1
900	44	8.2	463	45	5.9	393	46	4.7	347	0.6	0.9	1.1
1000	44	8.0	483	46	5.8	410	47	4.6	362	0.7	0.9	1.2

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15 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 .0160 pf No Sun 0 Ft/s	delta Td for .0160 pf No Sun 2 Ft/s
90°C - Copper Conductor - Concentric Strand						
4	96	99	69	79	0.5	0.5
3	109	112	79	90	0.5	0.5
2	124	128	90	102	0.6	0.5
1	141	146	102	116	0.6	0.6
90°C - Copper Conductor - Compact Sector Strand						
1/0	157	162	114	129	0.6	0.6
2/0	179	185	129	148	0.6	0.6
3/0	204	211	148	169	0.7	0.6
4/0	233	242	169	193	0.7	0.7
250	256	266	186	212	0.7	0.7
300	284	295	206	235	0.8	0.7
350	320	330	229	259	0.7	0.7
400	344	356	247	279	0.8	0.7
450	367	380	263	298	0.8	0.7
500	390	403	280	316	0.8	0.7
550	410	424	294	333	0.8	0.8
600	430	445	308	349	0.8	0.8
650	447	463	320	363	0.9	0.8
700	464	481	333	377	0.9	0.8
750	481	499	345	391	0.9	0.8
800	497	516	357	404	0.9	0.8
900	527	547	378	429	0.9	0.9
1000	554	576	398	451	0.9	0.9

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15 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 .0160 pf No Sun 0 Ft/s	delta Td for .0160 pf No Sun 2 Ft/s
90°C - Copper Conductor - Concentric Strand						
4	112	135	91	120	0.4	0.2
3	128	154	104	137	0.4	0.2
2	147	176	119	156	0.4	0.3
1	168	202	136	179	0.4	0.3
90°C - Copper Conductor - Compact Sector Strand						
1/0	187	226	151	201	0.4	0.3
2/0	214	259	173	230	0.4	0.3
3/0	247	297	199	263	0.4	0.3
4/0	285	342	229	301	0.5	0.3
250	315	378	253	332	0.5	0.3
300	352	420	282	368	0.5	0.3
350	386	460	309	402	0.5	0.3
400	418	497	333	433	0.5	0.3
450	448	532	357	463	0.5	0.3
500	478	567	380	492	0.5	0.4
550	504	597	401	518	0.5	0.4
600	531	628	421	544	0.5	0.4
650	555	657	440	568	0.5	0.4
700	580	685	459	592	0.5	0.4
750	602	711	476	614	0.5	0.4
800	625	736	493	635	0.6	0.4
900	666	784	525	674	0.6	0.4
1000	704	827	554	711	0.6	0.4

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15 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 .0160 pf No Sun 0 Ft/s	delta Td for .0160 pf No Sun 2 Ft/s
90°C - Copper Conductor - Concentric Strand						
4	94	102	80	90	0.5	0.4
3	107	116	91	102	0.5	0.5
2	122	132	104	117	0.6	0.5
1	139	150	118	133	0.7	0.6
90°C - Copper Conductor - Compact Sector Strand						
1/0	154	167	131	148	0.6	0.5
2/0	176	190	149	169	0.6	0.5
3/0	200	217	170	193	0.7	0.6
4/0	228	248	194	221	0.7	0.6
250	250	273	213	244	0.8	0.6
300	276	302	235	270	0.8	0.7
350	318	342	270	302	0.7	0.6
400	341	367	290	325	0.8	0.6
450	362	391	308	347	0.8	0.7
500	383	414	326	368	0.8	0.7
550	402	434	342	388	0.8	0.7
600	420	454	357	407	0.8	0.7
650	434	469	369	422	0.9	0.7
700	449	487	382	438	0.9	0.7
750	463	503	394	452	0.9	0.8
800	476	518	406	466	0.9	0.8
900	501	545	427	491	0.9	0.8
1000	522	570	445	512	1.0	0.8

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2060

15 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 .0160 pf & Rho 60	90	120
90°C - Aluminum Conductor - Concentric Strand									
4	93	90	91	87	88	83	0.4	0.5	0.5
3	106	103	103	99	100	95	0.5	0.5	0.6
2	121	117	118	112	114	108	0.5	0.5	0.6
1	138	134	134	128	130	122	0.6	0.6	0.7
90°C - Aluminum Conductor - Compact Sector Strand									
1/0	154	149	149	142	145	136	0.5	0.6	0.6
2/0	176	170	170	162	165	155	0.6	0.6	0.7
3/0	201	194	195	185	189	177	0.6	0.6	0.7
4/0	231	222	223	211	216	202	0.6	0.7	0.8
250	255	245	246	233	238	222	0.6	0.7	0.8
300	283	272	273	258	264	246	0.7	0.7	0.8
350	310	297	299	281	288	268	0.7	0.8	0.9
400	334	320	322	303	311	288	0.7	0.8	0.9
450	358	342	344	324	332	307	0.7	0.8	0.9
500	381	364	366	344	353	326	0.7	0.8	0.9
550	401	384	386	362	371	343	0.8	0.9	1.0
600	422	403	405	380	390	360	0.8	0.9	1.0
650	440	420	422	395	406	374	0.8	0.9	1.0
700	459	438	440	412	423	390	0.8	0.9	1.0
750	477	454	457	427	439	404	0.8	0.9	1.1
800	495	471	473	442	455	418	0.8	1.0	1.1
900	528	502	505	471	484	444	0.9	1.0	1.1
1000	558	531	534	497	512	469	0.9	1.0	1.1

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15 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 .0160 pf & Rho 60	90	120
90°C - Aluminum Conductor - Concentric Strand									
4	86	80	81	74	76	69	0.6	0.7	0.8
3	98	91	92	83	87	78	0.6	0.7	0.9
2	111	103	104	94	98	88	0.7	0.8	0.9
1	126	117	118	107	111	99	0.8	0.9	1.1
90°C - Aluminum Conductor - Compact Sector Strand									
1/0	141	130	132	119	124	111	0.7	0.8	1.0
2/0	160	148	150	135	141	126	0.7	0.9	1.0
3/0	182	168	170	154	161	142	0.8	0.9	1.1
4/0	208	192	194	175	183	161	0.8	1.0	1.2
250	230	211	213	191	200	176	0.9	1.1	1.3
300	254	233	236	211	221	194	0.9	1.1	1.3
350	277	254	257	229	240	211	1.0	1.2	1.4
400	298	273	276	246	258	226	1.0	1.2	1.5
450	319	291	294	262	274	240	1.0	1.3	1.5
500	338	308	312	277	291	254	1.1	1.3	1.6
550	356	324	328	291	305	267	1.1	1.4	1.6
600	373	340	344	304	320	279	1.1	1.4	1.7
650	389	353	358	316	332	290	1.1	1.4	1.7
700	405	367	372	329	345	301	1.2	1.5	1.8
750	420	381	386	340	358	310	1.2	1.5	1.8
800	435	393	399	351	370	320	1.2	1.5	1.8
900	463	418	424	372	392	339	1.3	1.6	1.9
1000	489	439	446	392	413	356	1.3	1.7	2.0

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15 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 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 .0160 pf & Rho 60	90	120
90°C - Aluminum Conductor - Concentric Strand									
4	77	69	70	61	64	55	0.8	1.0	1.3
3	87	78	79	69	73	62	0.9	1.1	1.4
2	99	88	89	78	82	70	0.9	1.2	1.4
1	112	100	101	88	93	80	1.1	1.4	1.7
90°C - Aluminum Conductor - Compact Sector Strand									
1/0	125	111	113	98	104	89	1.0	1.3	1.5
2/0	142	126	128	111	117	101	1.0	1.3	1.6
3/0	161	143	145	125	133	113	1.1	1.4	1.8
4/0	183	162	164	141	150	128	1.2	1.6	1.9
250	201	177	180	154	164	140	1.3	1.7	2.1
300	222	195	198	170	180	153	1.3	1.8	2.2
350	241	211	215	184	195	166	1.4	1.8	2.3
400	259	227	230	197	209	177	1.4	1.9	2.4
450	276	241	245	209	222	188	1.5	2.0	2.5
500	292	255	259	220	234	198	1.6	2.1	2.6
550	307	267	272	231	246	208	1.6	2.1	2.7
600	321	280	284	241	257	217	1.7	2.2	2.8
650	334	290	295	251	266	225	1.7	2.3	2.9
700	347	301	306	260	276	233	1.7	2.3	2.9
750	359	312	317	269	286	241	1.8	2.4	3.0
800	371	322	327	277	295	246	1.8	2.5	3.1
900	394	341	346	293	312	260	1.9	2.6	3.2
1000	414	358	364	307	327	273	2.0	2.7	3.4

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15 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 .0160 pf & Rho 60	delta Td for .0160 pf & Rho 90	delta Td for .0160 pf & Rho 120
90°C - Aluminum Conductor - Concentric Strand									
4	70	62	63	54	58	49	1.0	1.3	1.6
3	80	70	71	61	65	55	1.1	1.4	1.8
2	90	79	81	69	74	62	1.2	1.5	1.9
1	102	89	91	77	83	70	1.3	1.8	2.2
90°C - Aluminum Conductor - Compact Sector Strand									
1/0	114	99	102	87	93	78	1.2	1.6	2.0
2/0	129	112	115	98	105	88	1.3	1.7	2.1
3/0	146	127	130	110	118	99	1.4	1.9	2.3
4/0	166	143	147	124	133	111	1.5	2.0	2.5
250	182	156	161	135	145	121	1.6	2.1	2.7
300	200	172	177	148	159	133	1.7	2.3	2.9
350	217	186	192	161	172	143	1.8	2.4	3.0
400	233	199	205	172	185	153	1.9	2.5	3.2
450	248	212	217	182	196	162	2.0	2.6	3.3
500	262	223	229	192	207	170	2.0	2.7	3.4
550	275	234	241	201	216	179	2.1	2.8	3.5
600	288	245	253	210	226	187	2.2	2.9	3.7
650	299	254	262	218	234	194	2.2	3.0	3.8
700	310	264	272	226	243	201	2.3	3.1	3.9
750	321	273	282	234	251	206	2.3	3.2	4.0
800	331	281	289	241	258	213	2.4	3.2	4.1
900	351	297	306	254	273	225	2.5	3.4	4.3
1000	369	312	321	266	286	236	2.6	3.5	4.5

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15 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 .0160 pf & Rho 60	90	120
					75% LF							
					90°C - Aluminum Conductor - Concentric Strand							
4	131	50	37.5	120	56	31.7	112	61	27.6	0.2	0.3	0.3
3	149	51	37.4	137	57	31.6	128	61	27.4	0.2	0.3	0.4
2	170	51	37.4	156	58	31.5	145	62	27.3	0.2	0.3	0.4
1	197	53	39.0	180	59	32.6	166	63	28.1	0.3	0.4	0.4
					90°C - Aluminum Conductor - Compact Sector Strand							
1/0	221	53	41.2	201	59	34.3	186	64	29.3	0.2	0.3	0.4
2/0	253	54	41.2	230	60	34.2	213	65	29.2	0.3	0.3	0.4
3/0	290	55	41.2	263	61	33.9	243	65	28.9	0.3	0.4	0.5
4/0	334	56	41.1	302	62	33.6	278	66	28.6	0.3	0.4	0.5
250	369	57	40.8	333	63	33.4	307	67	28.3	0.3	0.4	0.5
300	411	57	40.6	370	63	33.1	340	67	28.0	0.3	0.4	0.5
350	451	58	40.4	405	64	32.7	372	68	27.6	0.3	0.4	0.6
400	487	58	40.2	437	64	32.5	401	68	27.4	0.3	0.5	0.6
450	521	59	40.0	468	65	32.3	429	69	27.2	0.4	0.5	0.6
500	555	59	39.7	498	65	32.0	456	69	26.8	0.4	0.5	0.6
550	586	59	39.6	525	65	31.9	481	69	26.7	0.4	0.5	0.6
600	617	60	39.5	552	66	31.6	505	70	26.5	0.4	0.5	0.6
650	635	59	37.2	570	65	30.0	523	69	25.2	0.4	0.5	0.7
700	663	59	37.0	595	65	29.8	545	69	25.0	0.4	0.5	0.7
750	690	59	36.9	618	65	29.7	566	69	24.9	0.4	0.6	0.7
800	716	59	36.7	641	66	29.5	587	69	24.8	0.4	0.6	0.7
900	765	60	36.6	684	66	29.3	626	70	24.5	0.4	0.6	0.7
1000	811	60	36.4	725	66	29.1	663	70	24.3	0.4	0.6	0.8

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15 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 .0160 pf & Rho 60	90	120
					100% LF							
					90°C - Aluminum Conductor - Concentric Strand							
4	123	55	33.1	111	62	26.8	101	66	22.7	0.2	0.3	0.3
3	140	56	32.9	126	62	26.7	115	67	22.3	0.2	0.3	0.4
2	159	56	32.7	143	63	26.4	131	67	22.2	0.2	0.3	0.4
1	183	58	33.9	164	64	27.1	149	69	22.7	0.3	0.4	0.4
					90°C - Aluminum Conductor - Compact Sector Strand							
1/0	205	58	35.7	183	65	28.5	167	69	23.8	0.2	0.3	0.4
2/0	235	59	35.6	209	65	28.2	190	70	23.4	0.3	0.3	0.4
3/0	269	60	35.3	239	66	27.8	217	70	23.0	0.3	0.4	0.5
4/0	308	61	34.9	273	67	27.4	247	71	22.6	0.3	0.4	0.5
250	340	62	34.6	300	68	27.0	271	72	22.1	0.3	0.4	0.5
300	377	62	34.2	332	69	26.6	300	73	21.8	0.3	0.4	0.5
350	412	63	33.8	362	69	26.2	327	73	21.3	0.3	0.4	0.6
400	444	64	33.5	390	70	25.9	352	73	21.1	0.3	0.5	0.6
450	475	64	33.2	416	70	25.6	375	74	20.8	0.4	0.5	0.6
500	505	64	32.9	442	70	25.3	398	74	20.5	0.4	0.5	0.6
550	532	65	32.7	465	71	25.0	418	74	20.3	0.4	0.5	0.6
600	559	65	32.4	488	71	24.8	439	75	20.0	0.4	0.5	0.6
650	576	64	30.6	505	70	23.5	455	74	19.1	0.4	0.5	0.7
700	600	65	30.4	526	70	23.4	473	74	19.0	0.4	0.5	0.7
750	624	65	30.2	546	71	23.2	491	74	18.8	0.4	0.6	0.7
800	646	65	30.0	565	71	22.9	508	75	18.6	0.4	0.6	0.7
900	689	66	29.7	601	71	22.7	540	75	18.3	0.4	0.6	0.7
1000	729	66	29.4	635	72	22.3	570	75	18.0	0.4	0.6	0.8

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15 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 Interface Flux w/ft²	90 Rho Amps	90 Rho Interface Temp °C	90 Rho Interface Flux w/ft²	120 Rho Amps	120 Rho Interface Temp °C	120 Rho Interface Flux w/ft²	delta Td for .0160 pf & Rho 60	90	120
					75% LF							
					80°C - Aluminum Conductor - Concentric Strand							
4	122	46	31.7	112	52	26.8	105	55	23.4	0.2	0.3	0.3
3	139	47	31.7	128	52	26.7	119	56	23.3	0.2	0.3	0.4
2	159	47	31.6	146	53	26.6	136	56	23.1	0.2	0.3	0.4
1	184	49	33.1	168	54	27.6	155	57	23.7	0.3	0.4	0.4
					80°C - Aluminum Conductor - Compact Sector Strand							
1/0	206	49	34.8	188	54	28.9	174	58	24.8	0.2	0.3	0.4
2/0	236	50	35.0	215	55	28.9	199	59	24.8	0.3	0.3	0.4
3/0	271	50	34.9	246	56	28.7	227	59	24.4	0.3	0.4	0.5
4/0	312	51	34.8	282	56	28.5	260	60	24.2	0.3	0.4	0.5
250	345	52	34.6	311	57	28.2	286	60	23.9	0.3	0.4	0.5
300	384	52	34.4	346	57	28.0	318	61	23.7	0.3	0.4	0.5
350	421	53	34.2	379	58	27.7	347	61	23.4	0.3	0.4	0.6
400	454	53	34.0	408	58	27.6	374	62	23.2	0.3	0.5	0.6
450	487	54	33.9	437	59	27.4	400	62	23.0	0.4	0.5	0.6
500	518	54	33.7	465	59	27.0	425	62	22.7	0.4	0.5	0.6
550	547	54	33.5	490	59	26.9	448	63	22.6	0.4	0.5	0.6
600	576	54	33.4	515	60	26.8	471	63	22.4	0.4	0.5	0.6
650	593	54	31.5	532	59	25.4	488	62	21.3	0.4	0.5	0.7
700	619	54	31.3	555	59	25.3	508	62	21.2	0.4	0.5	0.7
750	643	54	31.2	577	59	25.2	528	63	21.1	0.4	0.6	0.7
800	668	54	31.1	598	59	25.0	547	63	20.9	0.4	0.6	0.7
900	713	55	31.0	638	60	24.9	583	63	20.8	0.4	0.6	0.7
1000	756	55	30.8	676	60	24.6	617	63	20.6	0.4	0.6	0.8

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15 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 .0160 pf & Rho 60	90	120
					100% LF							
					80°C - Aluminum Conductor - Concentric Strand							
4	115	50	27.9	103	56	22.7	95	60	19.1	0.2	0.3	0.3
3	131	51	27.8	117	56	22.6	108	60	18.9	0.2	0.3	0.4
2	149	51	27.6	134	57	22.3	122	61	18.7	0.2	0.3	0.4
1	171	53	28.7	153	58	22.9	139	62	19.1	0.3	0.4	0.4
					80°C - Aluminum Conductor - Compact Sector Strand							
1/0	192	53	30.3	171	59	24.2	156	62	20.0	0.2	0.3	0.4
2/0	219	54	30.1	195	59	23.9	178	63	19.8	0.3	0.3	0.4
3/0	251	55	29.9	223	60	23.6	202	64	19.4	0.3	0.4	0.5
4/0	288	55	29.6	255	61	23.2	231	64	19.1	0.3	0.4	0.5
250	317	56	29.3	280	61	22.9	253	65	18.7	0.3	0.4	0.5
300	352	57	29.0	310	62	22.5	280	65	18.4	0.3	0.4	0.5
350	385	57	28.7	338	62	22.1	305	66	18.1	0.3	0.4	0.6
400	415	58	28.4	364	63	21.9	328	66	17.8	0.3	0.5	0.6
450	443	58	28.1	389	63	21.7	350	66	17.6	0.4	0.5	0.6
500	471	58	27.9	412	63	21.3	371	67	17.3	0.4	0.5	0.6
550	497	59	27.7	434	64	21.2	390	67	17.2	0.4	0.5	0.6
600	522	59	27.4	456	64	20.9	409	67	17.0	0.4	0.5	0.6
650	537	58	25.9	471	63	20.0	424	66	16.2	0.4	0.5	0.7
700	560	58	25.7	490	64	19.8	441	67	16.0	0.4	0.5	0.7
750	582	59	25.6	509	64	19.6	457	67	15.9	0.4	0.6	0.7
800	603	59	25.4	527	64	19.4	473	67	15.7	0.4	0.6	0.7
900	642	59	25.2	560	64	19.2	503	67	15.5	0.4	0.6	0.7
1000	679	60	24.9	592	65	18.9	531	68	15.2	0.4	0.6	0.8

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15 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 .0160 pf & Rho 60	90	120
					75% LF							
					65°C - Aluminum Conductor - Concentric Strand							
4	107	41	23.1	98	44	19.6	91	47	17.0	0.2	0.3	0.3
3	122	41	23.0	112	45	19.4	104	47	16.9	0.2	0.3	0.4
2	139	41	23.1	127	45	19.4	118	48	16.7	0.2	0.3	0.4
1	161	42	24.1	146	46	20.0	136	49	17.3	0.3	0.4	0.4
					65°C - Aluminum Conductor - Compact Sector Strand							
1/0	180	42	25.4	164	46	21.1	152	49	18.1	0.2	0.3	0.4
2/0	206	43	25.4	188	47	21.1	173	49	18.0	0.3	0.3	0.4
3/0	237	43	25.3	215	47	20.9	198	50	17.7	0.3	0.4	0.5
4/0	273	44	25.3	246	48	20.7	227	51	17.6	0.3	0.4	0.5
250	301	44	25.1	272	48	20.6	250	51	17.4	0.3	0.4	0.5
300	335	45	25.1	302	49	20.4	277	51	17.2	0.3	0.4	0.5
350	367	45	24.9	330	49	20.2	303	52	17.0	0.3	0.4	0.6
400	397	46	24.8	356	49	20.0	326	52	16.9	0.3	0.5	0.6
450	425	46	24.7	381	50	19.8	349	52	16.7	0.4	0.5	0.6
500	452	46	24.5	405	50	19.7	371	52	16.5	0.4	0.5	0.6
550	477	46	24.4	427	50	19.6	391	52	16.4	0.4	0.5	0.6
600	502	47	24.3	449	50	19.5	410	53	16.3	0.4	0.5	0.6
650	516	46	22.8	463	50	18.5	424	52	15.5	0.4	0.5	0.7
700	539	46	22.8	483	50	18.4	442	52	15.4	0.4	0.5	0.7
750	560	46	22.8	502	50	18.3	459	52	15.3	0.4	0.6	0.7
800	581	46	22.6	520	50	18.2	476	53	15.2	0.4	0.6	0.7
900	621	47	22.5	555	50	18.1	507	53	15.1	0.4	0.6	0.7
1000	658	47	22.4	587	51	17.9	536	53	14.9	0.4	0.6	0.8

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15 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 .0160 pf & Rho 60	90	120
					100% LF							
					65°C - Aluminum Conductor - Concentric Strand							
4	100	44	20.4	90	48	16.5	83	50	13.9	0.2	0.3	0.3
3	114	44	20.2	103	48	16.4	94	51	13.7	0.2	0.3	0.4
2	130	44	20.1	117	48	16.2	107	51	13.6	0.2	0.3	0.4
1	149	45	20.9	134	49	16.8	122	52	14.0	0.3	0.4	0.4
					65°C - Aluminum Conductor - Compact Sector Strand							
1/0	168	45	22.0	150	49	17.5	136	52	14.6	0.2	0.3	0.4
2/0	192	46	22.0	171	50	17.4	155	53	14.4	0.3	0.3	0.4
3/0	219	47	21.8	195	51	17.1	177	53	14.2	0.3	0.4	0.5
4/0	251	47	21.5	222	51	16.9	201	54	13.8	0.3	0.4	0.5
250	277	48	21.3	244	52	16.6	221	54	13.6	0.3	0.4	0.5
300	307	48	21.0	271	52	16.4	244	54	13.4	0.3	0.4	0.5
350	336	48	20.8	295	52	16.1	266	55	13.2	0.3	0.4	0.6
400	362	49	20.6	318	53	16.0	286	55	13.0	0.3	0.5	0.6
450	387	49	20.5	339	53	15.8	305	55	12.8	0.4	0.5	0.6
500	411	49	20.2	359	53	15.6	323	55	12.6	0.4	0.5	0.6
550	433	50	20.1	378	53	15.4	340	56	12.5	0.4	0.5	0.6
600	455	50	20.0	397	53	15.2	356	56	12.4	0.4	0.5	0.6
650	468	49	18.8	410	53	14.5	369	55	11.8	0.4	0.5	0.7
700	488	49	18.8	427	53	14.4	384	55	11.7	0.4	0.5	0.7
750	507	50	18.6	443	53	14.3	398	56	11.6	0.4	0.6	0.7
800	525	50	18.5	458	53	14.1	411	56	11.5	0.4	0.6	0.7
900	559	50	18.3	487	54	14.0	437	56	11.3	0.4	0.6	0.7
1000	591	50	18.1	514	54	13.7	461	56	11.1	0.4	0.6	0.8

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15 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 .0160 pf & Rho 60	90	120
					75% LF							
					50°C - Aluminum Conductor - Concentric Strand							
4	86	35	14.4	79	37	12.2	74	39	10.7	0.2	0.3	0.3
3	99	35	14.4	91	37	12.2	84	39	10.6	0.2	0.3	0.4
2	113	35	14.4	103	38	12.1	96	39	10.4	0.2	0.3	0.4
1	130	36	15.1	119	38	12.6	110	40	10.8	0.3	0.4	0.4
					50°C - Aluminum Conductor - Compact Sector Strand							
1/0	146	36	15.8	133	38	13.1	123	40	11.3	0.2	0.3	0.4
2/0	167	36	15.8	152	39	13.2	140	40	11.2	0.3	0.3	0.4
3/0	192	37	15.8	174	39	13.0	160	41	11.1	0.3	0.4	0.5
4/0	221	37	15.8	199	39	12.9	183	41	10.9	0.3	0.4	0.5
250	244	37	15.7	220	40	12.8	202	41	10.8	0.3	0.4	0.5
300	271	38	15.6	244	40	12.8	224	41	10.7	0.3	0.4	0.5
350	297	38	15.5	267	40	12.5	245	42	10.6	0.3	0.4	0.6
400	321	38	15.5	288	40	12.5	263	42	10.5	0.3	0.5	0.6
450	343	38	15.4	308	40	12.4	281	42	10.4	0.4	0.5	0.6
500	365	38	15.3	327	41	12.3	299	42	10.3	0.4	0.5	0.6
550	385	38	15.2	345	41	12.2	315	42	10.2	0.4	0.5	0.6
600	405	39	15.2	362	41	12.2	331	42	10.2	0.4	0.5	0.6
650	417	38	14.3	374	40	11.5	342	42	9.7	0.4	0.5	0.7
700	435	38	14.3	389	41	11.5	356	42	9.6	0.4	0.5	0.7
750	452	38	14.3	404	41	11.5	370	42	9.6	0.4	0.6	0.7
800	469	38	14.2	419	41	11.4	383	42	9.5	0.4	0.6	0.7
900	500	39	14.1	447	41	11.3	407	42	9.5	0.4	0.6	0.7
1000	530	39	14.0	472	41	11.2	430	43	9.3	0.4	0.6	0.8

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15 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 .0160 pf & Rho 60	90	120
					100% LF							
					50°C - Aluminum Conductor - Concentric Strand							
4	81	37	12.7	73	39	10.4	67	41	8.8	0.2	0.3	0.3
3	92	37	12.7	83	39	10.3	76	41	8.6	0.2	0.3	0.4
2	105	37	12.6	94	40	10.2	86	41	8.5	0.2	0.3	0.4
1	121	38	13.1	108	40	10.5	98	42	8.7	0.3	0.4	0.4
					50°C - Aluminum Conductor - Compact Sector Strand							
1/0	136	38	13.8	121	40	11.0	110	42	9.2	0.2	0.3	0.4
2/0	155	38	13.7	138	41	10.9	125	42	9.1	0.3	0.3	0.4
3/0	178	39	13.6	157	41	10.7	143	43	8.9	0.3	0.4	0.5
4/0	203	39	13.5	180	41	10.6	163	43	8.6	0.3	0.4	0.5
250	224	39	13.4	198	42	10.4	179	43	8.5	0.3	0.4	0.5
300	249	40	13.2	219	42	10.3	197	43	8.4	0.3	0.4	0.5
350	272	40	13.1	239	42	10.1	215	44	8.3	0.3	0.4	0.6
400	293	40	12.9	257	42	10.0	231	44	8.1	0.3	0.5	0.6
450	313	40	12.8	274	42	9.8	246	44	8.0	0.4	0.5	0.6
500	332	40	12.7	290	43	9.7	261	44	7.9	0.4	0.5	0.6
550	350	40	12.6	305	43	9.7	274	44	7.9	0.4	0.5	0.6
600	367	41	12.5	320	43	9.5	287	44	7.7	0.4	0.5	0.6
650	378	40	11.9	331	43	9.1	297	44	7.4	0.4	0.5	0.7
700	394	40	11.8	344	43	9.0	309	44	7.3	0.4	0.5	0.7
750	409	40	11.6	357	43	8.9	320	44	7.2	0.4	0.6	0.7
800	423	41	11.6	369	43	8.8	331	44	7.1	0.4	0.6	0.7
900	450	41	11.5	392	43	8.8	351	44	7.1	0.4	0.6	0.7
1000	476	41	11.3	413	43	8.6	370	45	7.0	0.4	0.6	0.8

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15 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 Interface Flux w/ft²	90 Rho Amps	90 Rho Interface Temp °C	90 Rho Interface Flux w/ft²	120 Rho Amps	120 Rho Interface Temp °C	120 Rho Interface Flux w/ft²	delta Td for .0160 pf & Rho 60	90	120
					75% LF							
					90°C - Aluminum Conductor - Concentric Strand							
4	120	57	31.6	108	63	25.7	99	67	21.6	0.3	0.4	0.5
3	136	57	31.5	123	63	25.4	113	68	21.4	0.3	0.4	0.5
2	155	58	31.2	140	64	25.1	128	68	21.0	0.3	0.4	0.5
1	179	59	32.2	160	66	25.8	146	70	21.5	0.4	0.5	0.6
					90°C - Aluminum Conductor - Compact Sector Strand							
1/0	200	60	34.0	179	66	27.1	163	70	22.6	0.3	0.5	0.6
2/0	229	61	33.8	204	67	26.8	185	71	22.2	0.4	0.5	0.6
3/0	262	62	33.4	232	68	26.4	211	71	21.9	0.4	0.5	0.7
4/0	300	63	33.1	265	69	25.9	240	72	21.3	0.4	0.6	0.7
250	330	63	32.6	291	69	25.4	264	73	20.9	0.4	0.6	0.8
300	366	64	32.2	322	70	25.1	292	73	20.5	0.5	0.6	0.8
350	400	65	31.8	351	70	24.7	318	74	20.2	0.5	0.7	0.8
400	430	65	31.5	378	71	24.4	341	74	19.9	0.5	0.7	0.9
450	460	66	31.2	403	71	24.1	364	75	19.6	0.5	0.7	0.9
500	488	66	30.8	428	72	23.7	386	75	19.3	0.5	0.7	0.9
550	515	66	30.6	450	72	23.5	406	75	19.1	0.5	0.8	1.0
600	540	67	30.3	472	72	23.2	425	76	18.8	0.6	0.8	1.0
650	557	66	28.6	488	71	22.1	440	75	18.0	0.6	0.8	1.0
700	580	66	28.4	508	72	21.9	458	75	17.8	0.6	0.8	1.1
750	603	66	28.3	527	72	21.6	475	75	17.6	0.6	0.8	1.1
800	624	67	28.0	546	72	21.4	491	76	17.4	0.6	0.9	1.1
900	665	67	27.6	580	73	21.1	522	76	17.2	0.6	0.9	1.1
1000	703	68	27.3	613	73	20.8	550	76	16.8	0.7	0.9	1.2

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15 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 .0160 pf & Rho 60	90	120
					100% LF							
					90°C - Aluminum Conductor - Concentric Strand							
4	109	62	26.1	96	69	20.4	87	72	16.7	0.3	0.4	0.5
3	124	63	25.9	109	69	20.0	98	73	16.4	0.3	0.4	0.5
2	141	64	25.5	123	70	19.7	111	74	16.0	0.3	0.4	0.5
1	161	65	26.2	141	71	20.0	126	75	16.2	0.4	0.5	0.6
					90°C - Aluminum Conductor - Compact Sector Strand							
1/0	181	65	27.6	158	71	21.1	142	75	17.0	0.3	0.5	0.6
2/0	205	66	27.3	179	72	20.7	160	76	16.7	0.4	0.5	0.6
3/0	234	67	26.7	203	73	20.3	182	76	16.3	0.4	0.5	0.7
4/0	267	68	26.3	231	74	19.7	206	77	15.8	0.4	0.6	0.7
250	293	69	25.8	253	74	19.2	226	78	15.4	0.4	0.6	0.8
300	324	70	25.3	279	75	18.9	249	78	15.0	0.5	0.6	0.8
350	353	70	24.8	304	75	18.5	270	78	14.7	0.5	0.7	0.8
400	379	71	24.5	326	76	18.1	290	79	14.4	0.5	0.7	0.9
450	404	71	24.2	347	76	17.8	308	79	14.2	0.5	0.7	0.9
500	428	72	23.8	367	77	17.5	326	79	13.8	0.5	0.7	0.9
550	450	72	23.5	386	77	17.3	342	80	13.7	0.5	0.8	1.0
600	472	72	23.2	404	77	17.0	358	80	13.5	0.6	0.8	1.0
650	488	72	22.0	418	76	16.2	371	79	12.9	0.6	0.8	1.0
700	507	72	21.7	434	77	16.0	386	80	12.7	0.6	0.8	1.1
750	526	72	21.6	450	77	15.8	399	80	12.5	0.6	0.8	1.1
800	544	72	21.3	465	77	15.6	412	80	12.4	0.6	0.9	1.1
900	578	73	21.0	493	78	15.3	437	80	12.1	0.6	0.9	1.1
1000	609	73	20.6	519	78	15.0	460	81	11.8	0.7	0.9	1.2

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15 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 Interface Flux	60 Rho Amps	90 Rho Interface Temp	90 Rho Interface Flux	90 Rho Amps	120 Rho Interface Temp	120 Rho Interface Flux	120 Rho Amps	delta Td for .0160 pf & Rho 60	90	120
	°C	w/ft²	Amps	°C	w/ft²	Amps	°C	w/ft²	Amps			
					75% LF							
					80°C - Aluminum Conductor - Concentric Strand							
4	52	26.7	112	57	21.7	101	61	18.3	93	0.3	0.4	0.5
3	52	26.6	128	58	21.5	115	61	18.1	105	0.3	0.4	0.5
2	53	26.4	145	58	21.3	130	62	17.8	119	0.3	0.4	0.5
1	54	27.3	167	59	21.8	149	63	18.3	136	0.4	0.5	0.6
					80°C - Aluminum Conductor - Compact Sector Strand							
1/0	54	28.8	187	60	23.0	167	63	19.1	152	0.3	0.5	0.6
2/0	55	28.6	214	60	22.7	190	64	18.9	173	0.4	0.5	0.6
3/0	56	28.3	244	61	22.4	217	64	18.5	197	0.4	0.5	0.7
4/0	57	28.0	280	62	21.9	247	65	18.1	224	0.4	0.6	0.7
250	57	27.6	308	62	21.6	272	66	17.7	246	0.4	0.6	0.8
300	58	27.3	342	63	21.3	301	66	17.4	272	0.5	0.6	0.8
350	59	26.9	373	63	20.8	328	67	17.0	296	0.5	0.7	0.8
400	59	26.7	402	64	20.6	353	67	16.9	318	0.5	0.7	0.9
450	59	26.4	429	64	20.3	376	67	16.6	339	0.5	0.7	0.9
500	60	26.1	456	65	20.0	399	67	16.3	360	0.5	0.7	0.9
550	60	25.8	480	65	19.8	420	68	16.2	378	0.5	0.8	1.0
600	60	25.7	504	65	19.6	440	68	15.9	396	0.6	0.8	1.0
650	60	24.2	520	64	18.7	455	67	15.2	410	0.6	0.8	1.0
700	60	24.0	541	65	18.5	474	68	15.0	427	0.6	0.8	1.1
750	60	23.9	562	65	18.4	491	68	14.9	442	0.6	0.8	1.1
800	60	23.7	582	65	18.1	509	68	14.8	458	0.6	0.9	1.1
900	61	23.5	620	65	17.9	541	68	14.5	486	0.6	0.9	1.1
1000	61	23.1	655	66	17.6	570	69	14.3	512	0.7	0.9	1.2

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15 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 .0160 pf & Rho 60	90	120
					100% LF							
					80°C - Aluminum Conductor - Concentric Strand							
4	102	57	22.2	90	62	17.2	81	65	14.1	0.3	0.4	0.5
3	116	57	21.8	102	62	16.9	92	66	13.9	0.3	0.4	0.5
2	131	58	21.6	115	63	16.7	104	66	13.5	0.3	0.4	0.5
1	150	59	22.2	131	64	17.0	118	67	13.7	0.4	0.5	0.6
					80°C - Aluminum Conductor - Compact Sector Strand							
1/0	169	59	23.4	147	64	17.8	132	67	14.5	0.3	0.5	0.6
2/0	192	60	23.1	167	65	17.5	150	68	14.2	0.4	0.5	0.6
3/0	219	61	22.7	190	66	17.1	170	68	13.7	0.4	0.5	0.7
4/0	249	62	22.2	216	66	16.7	193	69	13.4	0.4	0.6	0.7
250	273	62	21.8	236	67	16.4	211	69	13.0	0.4	0.6	0.8
300	302	63	21.5	261	67	15.9	232	70	12.8	0.5	0.6	0.8
350	329	63	21.0	283	68	15.6	252	70	12.4	0.5	0.7	0.8
400	354	64	20.7	304	68	15.4	270	71	12.2	0.5	0.7	0.9
450	377	64	20.4	324	68	15.1	288	71	11.9	0.5	0.7	0.9
500	400	65	20.0	342	69	14.8	304	71	11.7	0.5	0.7	0.9
550	420	65	19.9	360	69	14.6	319	71	11.6	0.5	0.8	1.0
600	440	65	19.6	377	69	14.4	334	71	11.4	0.6	0.8	1.0
650	455	64	18.6	390	69	13.7	346	71	10.8	0.6	0.8	1.0
700	473	65	18.5	405	69	13.5	359	71	10.7	0.6	0.8	1.1
750	490	65	18.3	419	69	13.4	372	71	10.6	0.6	0.8	1.1
800	507	65	18.1	433	69	13.2	384	72	10.4	0.6	0.9	1.1
900	538	66	17.7	459	70	13.0	407	72	10.3	0.6	0.9	1.1
1000	567	66	17.4	483	70	12.7	428	72	10.0	0.7	0.9	1.2

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15 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 .0160 pf & Rho 60	90	120
	°C	w/ft²	Amps	°C	w/ft²	Amps	°C	w/ft²	Amps			
75% LF												
65°C - Aluminum Conductor - Concentric Strand												
4	44	19.4	98	48	15.7	88	51	13.3	81	0.3	0.4	0.5
3	45	19.3	111	49	15.6	100	51	13.1	92	0.3	0.4	0.5
2	45	19.2	127	49	15.4	114	52	13.0	104	0.3	0.4	0.5
1	46	19.9	146	50	15.9	130	53	13.2	119	0.4	0.5	0.6
65°C - Aluminum Conductor - Compact Sector Strand												
1/0	46	21.0	164	50	16.7	146	53	13.9	133	0.3	0.5	0.6
2/0	47	20.8	187	51	16.5	166	53	13.7	151	0.4	0.5	0.6
3/0	48	20.5	213	51	16.3	189	54	13.4	172	0.4	0.5	0.7
4/0	48	20.4	244	52	15.9	216	54	13.1	196	0.4	0.6	0.7
250	49	20.1	269	52	15.7	237	55	12.8	215	0.4	0.6	0.8
300	49	19.9	298	53	15.4	262	55	12.7	237	0.5	0.6	0.8
350	50	19.6	326	53	15.2	286	55	12.3	258	0.5	0.7	0.8
400	50	19.4	351	53	15.0	308	56	12.2	277	0.5	0.7	0.9
450	50	19.2	374	54	14.8	328	56	12.0	295	0.5	0.7	0.9
500	50	18.9	397	54	14.5	348	56	11.8	313	0.5	0.7	0.9
550	51	18.8	418	54	14.4	366	56	11.7	329	0.5	0.8	1.0
600	51	18.6	439	54	14.3	383	56	11.6	345	0.6	0.8	1.0
650	50	17.6	453	54	13.6	396	56	11.0	357	0.6	0.8	1.0
700	50	17.5	471	54	13.4	412	56	10.9	371	0.6	0.8	1.1
750	51	17.4	489	54	13.4	427	56	10.8	384	0.6	0.8	1.1
800	51	17.2	506	54	13.2	442	56	10.7	397	0.6	0.9	1.1
900	51	17.1	539	55	13.0	469	57	10.6	422	0.6	0.9	1.1
1000	52	16.8	569	55	12.8	495	57	10.4	444	0.7	0.9	1.2

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15 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 .0160 pf & Rho 60	90	120
					100% LF							
					65°C - Aluminum Conductor - Concentric Strand							
4	89	48	16.1	78	52	12.4	71	54	10.3	0.3	0.4	0.5
3	101	48	15.9	89	52	12.3	80	55	10.0	0.3	0.4	0.5
2	115	49	15.7	101	53	12.1	91	55	9.8	0.3	0.4	0.5
1	131	50	16.1	115	53	12.3	103	56	9.9	0.4	0.5	0.6
					65°C - Aluminum Conductor - Compact Sector Strand							
1/0	147	50	17.0	128	54	13.0	115	56	10.5	0.3	0.5	0.6
2/0	168	50	16.9	146	54	12.8	131	56	10.3	0.4	0.5	0.6
3/0	191	51	16.5	166	55	12.5	148	57	10.0	0.4	0.5	0.7
4/0	217	52	16.1	188	55	12.1	168	57	9.7	0.4	0.6	0.7
250	239	52	15.9	206	55	11.8	184	57	9.5	0.4	0.6	0.8
300	264	53	15.6	227	56	11.6	202	58	9.2	0.5	0.6	0.8
350	287	53	15.3	247	56	11.3	220	58	9.0	0.5	0.7	0.8
400	309	53	15.1	265	56	11.2	236	58	8.8	0.5	0.7	0.9
450	329	54	14.8	282	57	11.0	250	58	8.7	0.5	0.7	0.9
500	348	54	14.6	298	57	10.8	265	59	8.5	0.5	0.7	0.9
550	366	54	14.4	313	57	10.7	278	59	8.4	0.5	0.8	1.0
600	384	54	14.3	328	57	10.5	290	59	8.3	0.6	0.8	1.0
650	396	54	13.6	339	57	10.0	301	59	7.9	0.6	0.8	1.0
700	412	54	13.4	352	57	9.9	312	59	7.8	0.6	0.8	1.1
750	427	54	13.3	365	57	9.8	323	59	7.7	0.6	0.8	1.1
800	441	54	13.2	376	57	9.6	333	59	7.6	0.6	0.9	1.1
900	468	55	12.9	399	57	9.5	353	59	7.5	0.6	0.9	1.1
1000	493	55	12.7	420	58	9.2	371	59	7.3	0.7	0.9	1.2

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15 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 .0160 pf & Rho 60	90	120
					75% LF							
					50°C - Aluminum Conductor - Concentric Strand							
4	79	37	12.2	71	40	9.8	65	41	8.3	0.3	0.4	0.5
3	90	37	12.0	81	40	9.8	74	42	8.2	0.3	0.4	0.5
2	103	38	12.0	92	40	9.7	84	42	8.2	0.3	0.4	0.5
1	118	38	12.5	105	41	9.9	96	42	8.3	0.4	0.5	0.6
					50°C - Aluminum Conductor - Compact Sector Strand							
1/0	132	38	13.0	118	41	10.4	107	42	8.6	0.3	0.5	0.6
2/0	151	39	13.0	134	41	10.3	122	43	8.6	0.4	0.5	0.6
3/0	173	39	12.9	153	42	10.1	139	43	8.4	0.4	0.5	0.7
4/0	198	40	12.7	174	42	9.9	158	43	8.2	0.4	0.6	0.7
250	217	40	12.6	192	42	9.8	173	44	8.1	0.4	0.6	0.8
300	241	40	12.4	212	42	9.7	191	44	7.9	0.5	0.6	0.8
350	263	40	12.2	231	43	9.5	208	44	7.8	0.5	0.7	0.8
400	283	41	12.1	248	43	9.3	223	44	7.6	0.5	0.7	0.9
450	302	41	12.0	264	43	9.2	238	44	7.5	0.5	0.7	0.9
500	321	41	11.8	280	43	9.0	252	44	7.4	0.5	0.7	0.9
550	338	41	11.8	295	43	9.0	265	45	7.3	0.5	0.8	1.0
600	354	41	11.7	309	43	8.9	277	45	7.2	0.6	0.8	1.0
650	365	41	11.0	319	43	8.4	287	44	6.9	0.6	0.8	1.0
700	380	41	10.9	332	43	8.3	298	45	6.8	0.6	0.8	1.1
750	394	41	10.9	344	43	8.3	308	45	6.7	0.6	0.8	1.1
800	408	41	10.8	355	43	8.3	319	45	6.7	0.6	0.9	1.1
900	433	41	10.6	377	44	8.1	338	45	6.5	0.6	0.9	1.1
1000	457	42	10.5	397	44	8.0	355	45	6.5	0.7	0.9	1.2

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15 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 .0160 pf & Rho 60	90	120
					100% LF							
					50°C - Aluminum Conductor - Concentric Strand							
4	72	39	10.1	63	42	7.8	57	43	6.4	0.3	0.4	0.5
3	82	40	9.9	72	42	7.7	65	44	6.3	0.3	0.4	0.5
2	93	40	9.8	81	42	7.6	73	44	6.1	0.3	0.4	0.5
1	106	41	10.1	93	43	7.7	83	44	6.3	0.4	0.5	0.6
					50°C - Aluminum Conductor - Compact Sector Strand							
1/0	119	41	10.6	104	43	8.1	93	44	6.5	0.3	0.5	0.6
2/0	136	41	10.5	118	43	8.0	106	45	6.4	0.4	0.5	0.6
3/0	154	41	10.3	134	44	7.8	120	45	6.3	0.4	0.5	0.7
4/0	176	42	10.1	152	44	7.6	136	45	6.1	0.4	0.6	0.7
250	193	42	10.0	166	44	7.4	148	45	6.0	0.4	0.6	0.8
300	213	42	9.8	183	44	7.2	163	46	5.8	0.5	0.6	0.8
350	232	43	9.6	199	45	7.1	177	46	5.6	0.5	0.7	0.8
400	249	43	9.4	214	45	6.9	190	46	5.6	0.5	0.7	0.9
450	266	43	9.3	227	45	6.8	202	46	5.5	0.5	0.7	0.9
500	281	43	9.1	240	45	6.7	213	46	5.3	0.5	0.7	0.9
550	295	43	9.0	252	45	6.7	223	46	5.3	0.5	0.8	1.0
600	309	43	8.9	264	45	6.6	233	46	5.2	0.6	0.8	1.0
650	319	43	8.4	273	45	6.2	242	46	4.9	0.6	0.8	1.0
700	332	43	8.3	283	45	6.2	251	46	4.8	0.6	0.8	1.1
750	344	43	8.3	293	45	6.1	259	46	4.8	0.6	0.8	1.1
800	355	43	8.2	302	45	6.0	267	46	4.7	0.6	0.9	1.1
900	376	44	8.1	320	45	5.9	283	46	4.7	0.6	0.9	1.1
1000	396	44	8.0	336	46	5.8	297	47	4.6	0.7	0.9	1.2

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15 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 .0160 pf No Sun 0 Ft/s	delta Td for .0160 pf No Sun 2 Ft/s
90°C - Aluminum Conductor - Concentric Strand						
4	74	77	54	61	0.5	0.5
3	85	88	61	70	0.5	0.5
2	96	100	70	80	0.6	0.5
1	110	114	80	91	0.6	0.6
90°C - Aluminum Conductor - Compact Sector Strand						
1/0	122	126	89	101	0.6	0.6
2/0	139	144	101	115	0.6	0.6
3/0	159	165	115	132	0.7	0.6
4/0	182	189	132	151	0.7	0.7
250	201	208	145	166	0.7	0.7
300	222	231	161	184	0.8	0.7
350	251	259	180	203	0.7	0.7
400	270	280	194	219	0.8	0.7
450	289	299	207	235	0.8	0.7
500	308	318	221	250	0.8	0.7
550	324	336	232	263	0.8	0.8
600	341	353	244	277	0.8	0.8
650	355	368	254	288	0.9	0.8
700	370	384	265	301	0.9	0.8
750	384	399	276	312	0.9	0.8
800	399	413	286	324	0.9	0.8
900	425	441	305	345	0.9	0.9
1000	450	467	322	366	0.9	0.9

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15 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 .0160 pf No Sun 0 Ft/s	delta Td for .0160 pf No Sun 2 Ft/s
90°C - Aluminum Conductor - Concentric Strand						
4	87	105	71	94	0.4	0.2
3	100	120	81	107	0.4	0.2
2	114	137	93	121	0.4	0.3
1	131	158	106	140	0.4	0.3
90°C - Aluminum Conductor - Compact Sector Strand						
1/0	145	176	118	157	0.4	0.3
2/0	167	202	135	179	0.4	0.3
3/0	192	232	155	205	0.4	0.3
4/0	222	267	179	235	0.5	0.3
250	247	295	198	259	0.5	0.3
300	275	329	221	288	0.5	0.3
350	303	361	242	315	0.5	0.3
400	328	390	262	340	0.5	0.3
450	352	419	281	364	0.5	0.3
500	377	447	300	388	0.5	0.4
550	398	472	316	409	0.5	0.4
600	420	497	333	431	0.5	0.4
650	441	521	349	451	0.5	0.4
700	461	545	365	471	0.5	0.4
750	481	567	380	490	0.6	0.4
800	500	589	395	508	0.6	0.4
900	536	631	422	543	0.6	0.4
1000	570	670	449	575	0.6	0.4

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15 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 .0160 pf No Sun 0 Ft/s	delta Td for .0160 pf No Sun 2 Ft/s
90°C - Aluminum Conductor - Concentric Strand						
4	74	79	62	70	0.5	0.4
3	84	90	71	80	0.5	0.5
2	95	103	81	91	0.6	0.5
1	108	117	92	104	0.7	0.6
90°C - Aluminum Conductor - Compact Sector Strand						
1/0	121	130	102	115	0.6	0.5
2/0	137	149	117	132	0.6	0.5
3/0	157	170	133	151	0.7	0.6
4/0	179	194	152	173	0.7	0.6
250	196	214	167	191	0.8	0.6
300	217	237	185	212	0.8	0.7
350	250	269	213	237	0.7	0.6
400	269	290	229	255	0.8	0.6
450	287	310	244	273	0.8	0.7
500	305	329	259	291	0.8	0.7
550	321	346	273	306	0.8	0.7
600	336	363	286	322	0.8	0.7
650	349	377	297	335	0.9	0.7
700	363	392	308	349	0.9	0.7
750	376	407	320	363	0.9	0.8
800	388	421	330	376	0.9	0.8
900	411	447	350	401	0.9	0.8
1000	433	471	369	424	1.0	0.8

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