5 kV Belted Three Conductor Solid Paper 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	delta Td for .0160 pf & Rho 90	delta Td for .0160 pf & Rho 120
				90°C - Copper Conductor - Concentric Strand					
6	82	80	80	78	79	75	0.1	0.1	0.1
5	93	91	92	88	90	86	0.1	0.1	0.1
4	107	104	105	101	103	98	0.1	0.1	0.1
3	123	120	120	116	117	112	0.1	0.1	0.1
2	141	137	137	132	134	128	0.1	0.1	0.1
1	162	157	158	152	154	146	0.1	0.1	0.1
				90°C - Copper Conductor - Compact Sector Strand					
1/0	183	178	179	172	175	165	0.1	0.1	0.1
2/0	210	204	205	196	200	189	0.1	0.1	0.1
3/0	242	235	236	225	230	217	0.1	0.1	0.1
4/0	279	270	271	258	264	248	0.1	0.1	0.1
250	309	298	300	285	291	273	0.1	0.1	0.1
300	344	332	334	317	324	303	0.1	0.1	0.2
350	378	364	366	347	355	332	0.1	0.1	0.2
400	408	393	395	374	383	357	0.1	0.2	0.2
450	438	421	423	400	410	382	0.1	0.2	0.2
500	466	448	450	425	435	405	0.1	0.2	0.2
550	492	472	475	447	458	426	0.1	0.2	0.2
600	518	496	499	470	482	447	0.2	0.2	0.2
650	541	518	521	490	503	466	0.2	0.2	0.2
700	564	540	543	510	524	485	0.2	0.2	0.2
750	586	561	564	530	544	502	0.2	0.2	0.2
800	607	580	584	548	562	519	0.2	0.2	0.2
900	647	617	620	581	597	550	0.2	0.2	0.2
1000	680	648	652	610	627	577	0.2	0.2	0.2

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1992

5 kV Belted Three Conductor Solid Paper 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	delta Td for .0160 pf & Rho 90	delta Td for .0160 pf & Rho 120
				90°C - Copper Conductor - Concentric Strand					
6	77	73	74	68	71	64	0.1	0.1	0.1
5	88	83	84	78	80	73	0.1	0.1	0.1
4	100	95	95	88	91	83	0.1	0.1	0.2
3	115	108	109	101	104	94	0.1	0.1	0.2
2	131	123	124	114	118	107	0.1	0.2	0.2
1	150	141	142	131	135	122	0.1	0.2	0.2
				90°C - Copper Conductor - Compact Sector Strand					
1/0	170	159	161	147	153	138	0.1	0.1	0.2
2/0	194	182	184	168	174	156	0.1	0.2	0.2
3/0	223	207	210	191	199	178	0.1	0.2	0.2
4/0	255	237	240	217	227	201	0.2	0.2	0.2
250	282	261	264	239	249	220	0.2	0.2	0.2
300	314	289	293	264	276	243	0.2	0.2	0.2
350	343	315	320	287	301	265	0.2	0.2	0.3
400	369	340	344	309	323	285	0.2	0.2	0.3
450	395	363	367	329	345	304	0.2	0.2	0.3
500	419	385	390	348	365	321	0.2	0.2	0.3
550	441	403	410	366	384	337	0.2	0.3	0.3
600	463	423	430	383	402	352	0.2	0.3	0.3
650	483	441	448	398	418	366	0.2	0.3	0.3
700	503	458	466	413	434	380	0.2	0.3	0.3
750	522	474	482	428	450	392	0.2	0.3	0.3
800	540	489	498	441	464	405	0.2	0.3	0.3
900	573	518	526	466	491	426	0.2	0.3	0.4
1000	600	543	552	488	514	445	0.2	0.3	0.4

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5 kV Belted Three Conductor Solid Paper 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	delta Td for .0160 pf & Rho 90	delta Td for .0160 pf & Rho 120
90°C - Copper Conductor - Concentric Strand									
6	71	65	66	59	61	54	0.1	0.2	0.2
5	80	73	74	66	69	61	0.1	0.2	0.2
4	92	83	85	75	79	69	0.2	0.2	0.2
3	104	95	96	85	89	78	0.2	0.2	0.2
2	119	108	109	96	101	88	0.2	0.2	0.3
1	136	123	124	109	115	99	0.2	0.2	0.3
90°C - Copper Conductor - Compact Sector Strand									
1/0	153	139	140	123	130	112	0.2	0.2	0.3
2/0	175	157	159	139	147	127	0.2	0.2	0.3
3/0	199	179	181	158	167	143	0.2	0.3	0.3
4/0	228	204	207	179	190	162	0.2	0.3	0.3
250	250	223	227	196	208	177	0.2	0.3	0.4
300	277	245	250	216	230	195	0.2	0.3	0.4
350	302	267	272	234	250	211	0.3	0.3	0.4
400	325	286	292	251	268	226	0.3	0.3	0.4
450	346	305	311	266	284	239	0.3	0.4	0.5
500	367	322	328	281	300	252	0.3	0.4	0.5
550	385	338	344	295	315	264	0.3	0.4	0.5
600	404	353	360	307	329	276	0.3	0.4	0.5
650	421	367	374	320	340	286	0.3	0.4	0.5
700	437	381	388	331	353	296	0.3	0.4	0.5
750	453	394	401	342	365	306	0.3	0.4	0.5
800	467	406	414	352	376	315	0.3	0.5	0.6
900	494	429	437	371	396	331	0.4	0.5	0.6
1000	517	448	457	388	414	346	0.4	0.5	0.6

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1994

5 kV Belted Three Conductor Solid Paper 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								
6	66	59	60	53	56	48	0.2	0.2	0.3
5	75	67	69	60	63	54	0.2	0.2	0.3
4	85	76	78	67	72	61	0.2	0.2	0.3
3	97	86	88	76	81	69	0.2	0.3	0.3
2	110	97	100	86	92	78	0.2	0.3	0.3
1	126	110	113	98	104	88	0.2	0.3	0.4
	90°C - Copper Conductor - Compact Sector Strand								
1/0	142	125	128	110	117	99	0.2	0.3	0.3
2/0	161	141	145	124	133	112	0.2	0.3	0.4
3/0	183	160	165	140	151	126	0.2	0.3	0.4
4/0	209	181	187	159	170	143	0.3	0.4	0.4
250	229	199	204	173	186	156	0.3	0.4	0.5
300	253	219	225	190	204	171	0.3	0.4	0.5
350	275	237	244	206	222	185	0.3	0.4	0.5
400	294	254	262	220	237	197	0.3	0.5	0.6
450	313	269	278	234	252	209	0.4	0.5	0.6
500	331	284	294	247	265	220	0.4	0.5	0.6
550	348	298	308	259	278	231	0.4	0.5	0.6
600	364	311	321	270	291	241	0.4	0.5	0.7
650	378	323	334	280	302	250	0.4	0.5	0.7
700	393	336	346	290	313	258	0.4	0.6	0.7
750	406	347	357	299	323	266	0.4	0.6	0.7
800	419	357	368	308	332	274	0.4	0.6	0.7
900	442	376	388	324	350	289	0.5	0.6	0.8
1000	462	393	406	338	365	301	0.5	0.6	0.8

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5 kV Belted Three Conductor Solid Paper 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 .0160 pf & Rho 60	90	120
	°C	w/ft²		°C	w/ft²		°C	w/ft²				
75% LF												
90°C - Copper Conductor - Concentric Strand												
6	115	46	41.2	107	52	35.7	101	56	31.5	0.0	0.0	0.1
5	132	47	41.1	122	53	35.5	115	57	31.4	0.0	0.1	0.1
4	151	47	41.0	140	53	35.3	131	58	31.0	0.0	0.1	0.1
3	173	48	40.7	160	54	34.9	150	58	30.6	0.0	0.1	0.1
2	199	49	40.6	184	55	34.5	172	59	30.2	0.0	0.1	0.1
1	229	49	39.9	211	56	33.9	197	60	29.7	0.1	0.1	0.1
90°C - Copper Conductor - Compact Sector Strand												
1/0	268	52	47.2	245	59	39.4	227	63	33.9	0.0	0.1	0.1
2/0	309	53	47.4	282	60	39.2	261	64	33.7	0.0	0.1	0.1
3/0	357	54	47.1	324	61	38.9	299	65	33.3	0.0	0.1	0.1
4/0	404	54	43.5	368	60	36.0	340	65	30.9	0.1	0.1	0.1
250	449	55	43.3	407	61	35.7	376	65	30.4	0.1	0.1	0.1
300	501	56	43.1	454	62	35.3	418	66	30.1	0.1	0.1	0.1
350	551	56	42.8	498	63	34.9	458	67	29.7	0.1	0.1	0.1
400	596	57	42.7	538	63	34.7	494	67	29.4	0.1	0.1	0.1
450	640	57	42.4	576	64	34.4	529	68	29.0	0.1	0.1	0.1
500	682	58	42.2	613	64	34.2	563	68	28.8	0.1	0.1	0.1
550	720	58	42.1	647	65	34.0	593	69	28.5	0.1	0.1	0.1
600	758	59	41.8	680	65	33.6	623	69	28.2	0.1	0.1	0.1
650	793	59	41.6	711	65	33.5	651	69	28.1	0.1	0.1	0.1
700	828	60	41.5	741	66	33.3	678	70	27.9	0.1	0.1	0.1
750	861	60	41.3	770	66	33.1	704	70	27.7	0.1	0.1	0.1
800	892	60	41.1	797	66	32.9	729	70	27.5	0.1	0.1	0.1
900	951	61	40.9	849	67	32.6	775	71	27.2	0.1	0.1	0.1
1000	988	60	38.4	885	66	30.8	810	70	25.8	0.1	0.1	0.1

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1996

5 kV Belted Three Conductor Solid Paper Lead Sheathed Power Cable

Direct Buried - Single 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		°C	w/ft²		°C	w/ft²				
100% LF												
90°C - Copper Conductor - Concentric Strand												
6	50	37.3	110	57	31.3	100	61	27.0	93	0.0	0.0	0.1
5	51	37.3	125	57	31.1	114	62	26.6	106	0.0	0.1	0.1
4	52	37.0	143	58	30.8	131	63	26.4	121	0.0	0.1	0.1
3	52	36.4	164	59	30.3	149	63	25.7	138	0.0	0.1	0.1
2	53	36.2	188	60	29.8	170	64	25.3	157	0.0	0.1	0.1
1	54	35.5	216	61	29.1	195	65	24.5	180	0.1	0.1	0.1
90°C - Copper Conductor - Compact Sector Strand												
1/0	57	41.6	252	63	33.4	226	68	28.0	206	0.0	0.1	0.1
2/0	58	41.4	289	64	33.1	258	69	27.4	235	0.0	0.1	0.1
3/0	59	40.9	332	65	32.3	296	70	26.8	269	0.0	0.1	0.1
4/0	59	37.6	376	65	29.9	335	70	24.8	305	0.1	0.1	0.1
250	60	37.2	416	66	29.4	370	70	24.3	336	0.1	0.1	0.1
300	61	36.8	463	67	28.9	410	71	23.8	372	0.1	0.1	0.1
350	61	36.4	508	68	28.4	449	72	23.4	406	0.1	0.1	0.1
400	62	36.1	548	68	28.1	483	72	23.0	437	0.1	0.1	0.1
450	63	35.7	587	69	27.7	517	73	22.7	467	0.1	0.1	0.1
500	63	35.3	624	69	27.3	549	73	22.2	495	0.1	0.1	0.1
550	64	35.1	658	70	27.1	577	73	22.0	521	0.1	0.1	0.1
600	64	34.7	691	70	26.7	606	74	21.7	546	0.1	0.1	0.1
650	65	34.5	722	70	26.5	632	74	21.5	569	0.1	0.1	0.1
700	65	34.2	752	71	26.3	658	74	21.2	592	0.1	0.1	0.1
750	65	34.0	781	71	25.9	682	75	21.0	613	0.1	0.1	0.1
800	66	33.7	808	71	25.7	705	75	20.7	634	0.1	0.1	0.1
900	66	33.4	859	72	25.3	748	75	20.4	672	0.1	0.1	0.1
1000	65	31.4	893	71	23.9	780	75	19.3	701	0.1	0.1	0.1

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5 kV Belted Three Conductor Solid Paper 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 .0160 pf & Rho 60	90	120
	°C	w/ft²		°C	w/ft²		°C	w/ft²				
75% LF												
80°C - Copper Conductor - Concentric Strand												
6	107	43	34.9	100	48	30.3	94	52	26.6	0.0	0.0	0.1
5	123	43	34.7	114	48	30.1	107	52	26.6	0.0	0.1	0.1
4	141	44	34.7	131	49	29.9	123	53	26.4	0.0	0.1	0.1
3	162	44	34.5	150	50	29.6	140	53	25.9	0.0	0.1	0.1
2	186	45	34.2	172	50	29.3	160	54	25.6	0.0	0.1	0.1
1	214	46	33.8	197	51	28.8	184	55	25.1	0.1	0.1	0.1
80°C - Copper Conductor - Compact Sector Strand												
1/0	251	48	39.9	229	53	33.4	212	57	28.8	0.0	0.1	0.1
2/0	289	49	40.1	263	54	33.2	244	58	28.5	0.0	0.1	0.1
3/0	333	50	39.8	303	55	32.9	280	59	28.1	0.0	0.1	0.1
4/0	378	50	36.8	344	55	30.4	318	59	26.0	0.1	0.1	0.1
250	419	50	36.6	380	56	30.2	351	59	25.7	0.1	0.1	0.1
300	468	51	36.6	424	56	29.9	390	60	25.4	0.1	0.1	0.1
350	514	52	36.2	465	57	29.6	428	60	25.0	0.1	0.1	0.1
400	556	52	36.1	502	57	29.4	462	61	24.9	0.1	0.1	0.1
450	597	52	35.9	538	58	29.1	494	61	24.5	0.1	0.1	0.1
500	636	53	35.8	572	58	28.9	525	62	24.4	0.1	0.1	0.1
550	672	53	35.6	603	58	28.7	553	62	24.2	0.1	0.1	0.1
600	707	54	35.3	635	59	28.5	581	62	24.0	0.1	0.1	0.1
650	740	54	35.3	663	59	28.3	607	62	23.8	0.1	0.1	0.1
700	772	54	35.1	691	59	28.2	632	63	23.6	0.1	0.1	0.1
750	802	55	35.0	718	60	28.0	656	63	23.5	0.1	0.1	0.1
800	831	55	34.8	743	60	27.9	679	63	23.2	0.1	0.1	0.1
900	886	55	34.6	790	60	27.6	722	64	23.0	0.1	0.1	0.1
1000	920	55	32.5	823	60	26.1	753	63	21.9	0.1	0.1	0.1

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1998

5 kV Belted Three Conductor Solid Paper 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												
6	102	46	31.7	94	52	26.4	87	56	22.8	0.0	0.0	0.1
5	117	47	31.4	107	52	26.4	99	56	22.5	0.0	0.1	0.1
4	134	48	31.4	122	53	26.0	113	57	22.3	0.0	0.1	0.1
3	153	48	31.0	139	54	25.5	129	58	21.8	0.0	0.1	0.1
2	176	49	30.7	159	54	25.1	147	58	21.5	0.0	0.1	0.1
1	202	50	30.0	182	55	24.5	168	59	20.7	0.1	0.1	0.1
80°C - Copper Conductor - Compact Sector Strand												
1/0	235	52	35.1	211	57	28.3	193	61	23.7	0.0	0.1	0.1
2/0	270	53	35.0	241	58	27.9	220	62	23.2	0.0	0.1	0.1
3/0	310	54	34.6	276	59	27.5	251	63	22.7	0.0	0.1	0.1
4/0	351	54	31.8	313	59	25.4	285	63	20.9	0.1	0.1	0.1
250	389	54	31.5	345	60	24.9	314	63	20.6	0.1	0.1	0.1
300	432	55	31.2	383	61	24.5	348	64	20.2	0.1	0.1	0.1
350	474	56	30.8	419	61	24.1	379	65	19.8	0.1	0.1	0.1
400	512	56	30.6	451	62	23.8	408	65	19.5	0.1	0.1	0.1
450	548	57	30.2	482	62	23.4	436	65	19.1	0.1	0.1	0.1
500	582	57	30.0	512	63	23.1	462	66	18.9	0.1	0.1	0.1
550	614	58	29.7	539	63	23.0	486	66	18.7	0.1	0.1	0.1
600	645	58	29.5	565	63	22.6	509	66	18.4	0.1	0.1	0.1
650	673	58	29.2	589	63	22.5	531	67	18.2	0.1	0.1	0.1
700	701	59	29.0	613	64	22.2	552	67	17.9	0.1	0.1	0.1
750	728	59	28.8	636	64	21.9	571	67	17.8	0.1	0.1	0.1
800	753	59	28.6	657	64	21.8	590	67	17.6	0.1	0.1	0.1
900	800	60	28.3	697	65	21.4	625	68	17.3	0.1	0.1	0.1
1000	831	59	26.6	726	64	20.3	652	67	16.4	0.1	0.1	0.1

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5 kV Belted Three Conductor Solid Paper 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							
6	94	38	25.2	87	42	22.0	82	44	19.4	0.0	0.0	0.1
5	107	38	25.2	100	42	21.9	94	45	19.2	0.0	0.1	0.1
4	123	39	25.3	114	42	21.7	107	45	19.1	0.0	0.1	0.1
3	141	39	25.0	131	43	21.5	123	46	18.8	0.0	0.1	0.1
2	162	40	25.0	150	43	21.3	140	46	18.6	0.0	0.1	0.1
1	187	40	24.7	172	44	20.9	161	47	18.2	0.1	0.1	0.1
					65°C - Copper Conductor - Compact Sector Strand							
1/0	219	42	29.1	200	46	24.2	186	48	21.0	0.0	0.1	0.1
2/0	252	42	29.2	230	46	24.2	213	49	20.8	0.0	0.1	0.1
3/0	291	43	29.0	264	47	23.9	244	50	20.4	0.0	0.1	0.1
4/0	330	43	26.9	300	47	22.2	277	49	19.0	0.1	0.1	0.1
250	366	43	26.6	332	47	21.9	306	50	18.7	0.1	0.1	0.1
300	408	44	26.5	370	48	21.8	341	50	18.5	0.1	0.1	0.1
350	449	44	26.3	406	48	21.6	373	51	18.2	0.1	0.1	0.1
400	486	45	26.3	438	48	21.3	403	51	18.1	0.1	0.1	0.1
450	521	45	26.1	469	49	21.2	431	51	17.9	0.1	0.1	0.1
500	555	45	26.0	499	49	21.1	458	52	17.7	0.1	0.1	0.1
550	585	46	25.9	526	49	20.9	482	52	17.6	0.1	0.1	0.1
600	616	46	25.8	553	50	20.7	506	52	17.4	0.1	0.1	0.1
650	644	46	25.6	577	50	20.7	529	52	17.3	0.1	0.1	0.1
700	672	46	25.6	602	50	20.6	550	53	17.2	0.1	0.1	0.1
750	698	47	25.4	624	50	20.3	571	53	17.0	0.1	0.1	0.1
800	723	47	25.4	646	50	20.3	591	53	16.9	0.1	0.1	0.1
900	770	47	25.3	687	51	20.1	627	53	16.8	0.1	0.1	0.1
1000	799	47	23.7	715	50	19.0	654	53	15.9	0.1	0.1	0.1

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2000

5 kV Belted Three Conductor Solid Paper 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												
6	89	41	23.0	82	45	19.4	76	47	16.5	0.0	0.0	0.1
5	102	41	22.9	93	45	19.2	86	48	16.5	0.0	0.1	0.1
4	117	41	22.8	107	45	18.9	99	48	16.2	0.0	0.1	0.1
3	134	42	22.5	122	46	18.7	112	49	15.8	0.0	0.1	0.1
2	153	42	22.3	139	46	18.3	128	49	15.6	0.0	0.1	0.1
1	176	43	21.8	159	47	17.9	147	50	15.1	0.1	0.1	0.1
65°C - Copper Conductor - Compact Sector Strand												
1/0	205	45	25.6	184	49	20.6	168	51	17.2	0.0	0.1	0.1
2/0	236	45	25.5	211	49	20.3	192	52	16.9	0.0	0.1	0.1
3/0	271	46	25.2	241	50	20.0	220	53	16.5	0.0	0.1	0.1
4/0	307	46	23.1	273	50	18.5	249	52	15.3	0.1	0.1	0.1
250	339	46	22.9	301	50	18.1	274	53	14.9	0.1	0.1	0.1
300	378	47	22.7	334	51	17.8	303	53	14.7	0.1	0.1	0.1
350	414	47	22.4	366	51	17.5	331	54	14.3	0.1	0.1	0.1
400	446	48	22.3	394	52	17.3	356	54	14.2	0.1	0.1	0.1
450	478	48	22.0	421	52	17.0	380	54	13.9	0.1	0.1	0.1
500	508	49	21.8	446	52	16.9	403	55	13.7	0.1	0.1	0.1
550	535	49	21.6	469	53	16.7	423	55	13.5	0.1	0.1	0.1
600	562	49	21.4	492	53	16.5	444	55	13.4	0.1	0.1	0.1
650	586	49	21.3	513	53	16.3	462	55	13.2	0.1	0.1	0.1
700	610	50	21.1	534	53	16.2	480	56	13.1	0.1	0.1	0.1
750	633	50	20.9	553	53	16.0	497	56	13.0	0.1	0.1	0.1
800	655	50	20.8	571	54	15.8	513	56	12.8	0.1	0.1	0.1
900	695	50	20.6	605	54	15.6	543	56	12.6	0.1	0.1	0.1
1000	721	50	19.3	630	54	14.7	566	56	11.9	0.1	0.1	0.1

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5 kV Belted Three Conductor Solid Paper 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 .0160 pf & Rho 60	90	120
	°C	w/ft²		°C	w/ft²		°C	w/ft²				
75% LF												
50°C - Copper Conductor - Concentric Strand												
6	76	33	15.7	71	35	13.7	67	37	12.1	0.0	0.0	0.1
5	87	33	15.9	81	36	13.6	76	37	12.0	0.0	0.1	0.1
4	100	34	15.8	93	36	13.6	87	38	11.9	0.0	0.1	0.1
3	115	34	15.7	106	36	13.4	99	38	11.8	0.0	0.1	0.1
2	132	34	15.6	122	36	13.2	114	38	11.6	0.0	0.1	0.1
1	152	34	15.4	140	37	13.0	130	38	11.5	0.1	0.1	0.1
50°C - Copper Conductor - Compact Sector Strand												
1/0	178	36	18.2	162	38	15.2	150	40	13.1	0.0	0.1	0.1
2/0	204	36	18.2	186	38	15.1	172	40	13.0	0.0	0.1	0.1
3/0	236	36	18.2	214	39	14.9	198	40	12.8	0.0	0.1	0.1
4/0	267	36	16.8	243	39	13.9	225	40	11.8	0.1	0.1	0.1
250	296	37	16.6	269	39	13.8	248	41	11.7	0.1	0.1	0.1
300	331	37	16.7	299	39	13.6	276	41	11.5	0.1	0.1	0.1
350	364	37	16.5	328	40	13.5	302	41	11.4	0.1	0.1	0.1
400	393	37	16.4	354	40	13.4	326	41	11.3	0.1	0.1	0.1
450	422	38	16.3	380	40	13.2	349	42	11.2	0.1	0.1	0.1
500	449	38	16.2	403	40	13.1	370	42	11.1	0.1	0.1	0.1
550	473	38	16.3	425	40	13.1	390	42	11.0	0.1	0.1	0.1
600	498	38	16.1	447	40	13.0	409	42	10.9	0.1	0.1	0.1
650	520	38	16.1	466	41	12.9	427	42	10.8	0.1	0.1	0.1
700	543	38	16.0	486	41	12.8	444	42	10.8	0.1	0.1	0.1
750	563	39	15.9	504	41	12.8	461	42	10.7	0.1	0.1	0.1
800	583	39	15.8	521	41	12.7	476	42	10.6	0.1	0.1	0.1
900	620	39	15.8	553	41	12.6	505	43	10.4	0.1	0.1	0.1
1000	643	39	14.8	575	41	11.9	526	42	9.9	0.1	0.1	0.1

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2002

5 kV Belted Three Conductor Solid Paper 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 - Copper Conductor - Concentric Strand							
6	73	35	14.3	66	37	12.1	62	39	10.3	0.0	0.0	0.1
5	83	35	14.4	76	37	12.0	70	39	10.3	0.0	0.1	0.1
4	95	35	14.3	86	38	11.9	80	40	10.0	0.0	0.1	0.1
3	109	36	14.1	99	38	11.6	91	40	9.9	0.0	0.1	0.1
2	124	36	13.9	113	38	11.4	104	40	9.7	0.0	0.1	0.1
1	143	36	13.7	129	39	11.2	119	40	9.4	0.1	0.1	0.1
					50°C - Copper Conductor - Compact Sector Strand							
1/0	167	37	16.0	149	40	12.8	136	41	10.7	0.0	0.1	0.1
2/0	191	38	15.9	171	40	12.7	156	42	10.5	0.0	0.1	0.1
3/0	220	38	15.7	196	41	12.5	178	42	10.4	0.0	0.1	0.1
4/0	249	38	14.5	221	41	11.6	202	42	9.5	0.1	0.1	0.1
250	275	38	14.3	244	41	11.3	222	42	9.3	0.1	0.1	0.1
300	306	39	14.2	271	41	11.1	246	43	9.1	0.1	0.1	0.1
350	335	39	14.1	296	41	11.0	268	43	8.9	0.1	0.1	0.1
400	361	39	14.0	319	42	10.8	288	43	8.9	0.1	0.1	0.1
450	387	40	13.8	340	42	10.7	307	43	8.7	0.1	0.1	0.1
500	411	40	13.6	361	42	10.5	326	44	8.6	0.1	0.1	0.1
550	432	40	13.5	379	42	10.4	342	44	8.5	0.1	0.1	0.1
600	454	40	13.4	398	42	10.3	358	44	8.3	0.1	0.1	0.1
650	474	40	13.3	415	43	10.2	373	44	8.2	0.1	0.1	0.1
700	493	40	13.2	431	43	10.1	387	44	8.1	0.1	0.1	0.1
750	511	41	13.1	446	43	10.0	401	44	8.1	0.1	0.1	0.1
800	528	41	13.1	461	43	9.9	414	44	8.0	0.1	0.1	0.1
900	560	41	12.9	488	43	9.7	437	45	7.9	0.1	0.1	0.1
1000	581	41	12.1	507	43	9.3	455	44	7.5	0.1	0.1	0.1

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5 kV Belted Three Conductor Solid Paper 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												
6	108	52	36.1	99	58	30.3	91	62	26.0	0.0	0.1	0.1
5	123	52	35.9	112	59	29.9	104	63	25.6	0.1	0.1	0.1
4	141	53	35.7	128	59	29.5	119	64	25.3	0.1	0.1	0.1
3	161	54	35.2	146	60	29.1	135	64	24.8	0.1	0.1	0.1
2	184	55	34.9	167	61	28.5	154	65	24.3	0.1	0.1	0.1
1	211	55	34.1	191	62	27.8	176	66	23.6	0.1	0.1	0.1
90°C - Copper Conductor - Compact Sector Strand												
1/0	246	58	39.7	221	65	31.9	202	69	26.8	0.1	0.1	0.1
2/0	282	59	39.4	252	66	31.5	230	70	26.3	0.1	0.1	0.1
3/0	324	61	38.9	289	67	30.8	263	71	25.6	0.1	0.1	0.1
4/0	367	60	35.8	327	67	28.4	298	71	23.6	0.1	0.1	0.1
250	405	61	35.4	360	67	27.9	328	71	23.1	0.1	0.1	0.1
300	451	62	34.9	400	68	27.4	363	72	22.7	0.1	0.1	0.1
350	494	63	34.5	437	69	26.9	396	73	22.2	0.1	0.1	0.2
400	533	64	34.1	470	69	26.5	426	73	21.8	0.1	0.1	0.2
450	570	64	33.7	502	70	26.1	455	74	21.4	0.1	0.1	0.2
500	606	65	33.3	533	70	25.8	482	74	21.1	0.1	0.1	0.2
550	638	65	33.1	561	71	25.5	506	74	20.9	0.1	0.1	0.2
600	670	66	32.7	588	71	25.2	531	75	20.5	0.1	0.1	0.2
650	700	66	32.4	613	72	24.9	553	75	20.3	0.1	0.1	0.2
700	728	66	32.2	638	72	24.6	575	75	20.1	0.1	0.2	0.2
750	756	67	31.9	661	72	24.4	596	76	19.8	0.1	0.2	0.2
800	782	67	31.6	683	73	24.2	615	76	19.6	0.1	0.2	0.2
900	830	68	31.2	724	73	23.7	652	76	19.2	0.1	0.2	0.2
1000	863	67	29.3	755	72	22.5	680	76	18.2	0.1	0.2	0.2

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2004

5 kV Belted Three Conductor Solid Paper Lead Sheathed Power Cable

Direct Buried - Double 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 .0160 pf & Rho 60	90	120
					100% LF							
					90°C - Copper Conductor - Concentric Strand							
6	100	57	31.1	90	63	25.0	82	68	20.8	0.0	0.1	0.1
5	114	58	30.9	102	64	24.7	93	69	20.6	0.1	0.1	0.1
4	130	59	30.5	116	65	24.1	105	69	20.1	0.1	0.1	0.1
3	148	59	29.8	132	66	23.6	120	70	19.5	0.1	0.1	0.1
2	169	60	29.3	150	67	23.0	136	71	18.9	0.1	0.1	0.1
1	193	61	28.4	171	67	22.3	155	71	18.4	0.1	0.1	0.1
					90°C - Copper Conductor - Compact Sector Strand							
1/0	224	64	32.7	196	70	25.2	177	74	20.6	0.1	0.1	0.1
2/0	255	65	32.3	223	71	24.8	201	74	20.1	0.1	0.1	0.1
3/0	292	66	31.6	255	72	23.9	229	75	19.4	0.1	0.1	0.1
4/0	330	66	28.9	288	72	22.0	258	75	17.8	0.1	0.1	0.1
250	363	67	28.4	316	73	21.5	283	76	17.3	0.1	0.1	0.1
300	403	68	27.9	349	73	21.0	313	77	16.8	0.1	0.1	0.1
350	440	69	27.3	380	74	20.4	340	77	16.3	0.1	0.1	0.2
400	473	69	26.9	409	74	20.1	365	78	16.0	0.1	0.1	0.2
450	505	70	26.4	435	75	19.7	388	78	15.7	0.1	0.1	0.2
500	535	70	26.0	461	75	19.3	410	78	15.4	0.1	0.1	0.2
550	562	71	25.7	484	76	19.0	431	79	15.1	0.1	0.1	0.2
600	589	71	25.3	506	76	18.7	451	79	14.8	0.1	0.1	0.2
650	614	72	25.0	527	76	18.4	469	79	14.6	0.1	0.1	0.2
700	638	72	24.7	547	77	18.1	486	80	14.4	0.1	0.2	0.2
750	661	72	24.4	566	77	17.9	503	80	14.1	0.1	0.2	0.2
800	683	73	24.2	584	77	17.7	519	80	14.0	0.1	0.2	0.2
900	723	73	23.6	618	78	17.3	548	80	13.7	0.1	0.2	0.2
1000	752	73	22.3	644	77	16.3	571	80	12.9	0.1	0.2	0.2

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5 kV Belted Three Conductor Solid Paper 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												
6	101	47	30.7	92	53	25.6	85	57	22.0	0.0	0.1	0.1
5	115	48	30.5	105	53	25.4	97	57	21.7	0.1	0.1	0.1
4	131	49	30.3	120	54	25.1	111	58	21.4	0.1	0.1	0.1
3	150	49	29.8	137	55	24.6	126	58	21.0	0.1	0.1	0.1
2	172	50	29.5	156	55	24.1	144	59	20.6	0.1	0.1	0.1
1	198	51	28.9	179	56	23.6	164	60	20.0	0.1	0.1	0.1
80°C - Copper Conductor - Compact Sector Strand												
1/0	230	53	33.6	206	58	26.9	188	62	22.7	0.1	0.1	0.1
2/0	264	54	33.4	236	59	26.6	215	63	22.2	0.1	0.1	0.1
3/0	303	55	32.9	270	60	26.1	246	64	21.7	0.1	0.1	0.1
4/0	343	55	30.3	305	60	24.1	278	64	20.0	0.1	0.1	0.1
250	379	56	29.9	336	61	23.6	306	64	19.5	0.1	0.1	0.1
300	421	56	29.6	373	62	23.3	339	65	19.2	0.1	0.1	0.1
350	461	57	29.1	408	62	22.8	370	65	18.7	0.1	0.1	0.2
400	497	58	28.8	439	63	22.5	398	66	18.5	0.1	0.1	0.2
450	532	58	28.5	469	63	22.1	424	66	18.1	0.1	0.1	0.2
500	565	59	28.2	497	64	21.8	449	67	17.8	0.1	0.1	0.2
550	595	59	28.0	523	64	21.6	472	67	17.6	0.1	0.1	0.2
600	625	59	27.6	548	64	21.3	495	67	17.4	0.1	0.1	0.2
650	652	60	27.4	572	64	21.1	516	67	17.2	0.1	0.1	0.2
700	679	60	27.3	595	65	20.9	536	68	17.0	0.1	0.2	0.2
750	704	60	27.0	616	65	20.6	555	68	16.7	0.1	0.2	0.2
800	728	61	26.8	636	65	20.5	573	68	16.6	0.1	0.2	0.2
900	773	61	26.4	674	66	20.1	607	68	16.2	0.1	0.2	0.2
1000	803	61	24.8	702	65	19.0	633	68	15.4	0.1	0.2	0.2

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2006

5 kV Belted Three Conductor Solid Paper 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							
6	93	52	26.2	84	58	21.2	76	61	17.6	0.0	0.1	0.1
5	106	53	26.0	95	58	20.8	87	62	17.3	0.1	0.1	0.1
4	121	53	25.8	108	59	20.4	99	62	16.9	0.1	0.1	0.1
3	138	54	25.2	123	59	19.9	112	63	16.6	0.1	0.1	0.1
2	158	55	24.8	140	60	19.4	127	64	16.1	0.1	0.1	0.1
1	181	56	24.0	160	61	18.9	145	64	15.6	0.1	0.1	0.1
					80°C - Copper Conductor - Compact Sector Strand							
1/0	209	58	27.8	183	63	21.3	165	66	17.4	0.1	0.1	0.1
2/0	239	59	27.4	209	64	20.9	188	67	17.0	0.1	0.1	0.1
3/0	273	60	26.7	238	65	20.3	214	68	16.3	0.1	0.1	0.1
4/0	308	60	24.5	269	65	18.6	241	68	15.0	0.1	0.1	0.1
250	339	61	24.0	295	65	18.2	265	68	14.7	0.1	0.1	0.1
300	376	61	23.5	326	66	17.8	292	69	14.3	0.1	0.1	0.1
350	410	62	23.1	355	66	17.3	317	69	13.8	0.1	0.1	0.2
400	441	62	22.7	381	67	17.0	341	70	13.6	0.1	0.1	0.2
450	471	63	22.3	406	67	16.7	362	70	13.2	0.1	0.1	0.2
500	499	63	22.0	430	68	16.3	383	70	13.0	0.1	0.1	0.2
550	525	64	21.7	451	68	16.2	402	70	12.8	0.1	0.1	0.2
600	550	64	21.4	472	68	15.8	420	71	12.5	0.1	0.1	0.2
650	573	64	21.2	491	69	15.6	437	71	12.3	0.1	0.1	0.2
700	595	65	21.0	510	69	15.4	453	71	12.1	0.1	0.2	0.2
750	616	65	20.6	528	69	15.1	469	71	11.9	0.1	0.2	0.2
800	636	65	20.5	544	69	15.0	483	72	11.8	0.1	0.2	0.2
900	673	66	20.1	575	70	14.6	510	72	11.5	0.1	0.2	0.2
1000	700	65	18.8	599	69	13.8	532	72	10.9	0.1	0.2	0.2

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5 kV Belted Three Conductor Solid Paper 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												
6	88	41	22.2	80	45	18.6	75	48	15.9	0.0	0.1	0.1
5	100	42	22.1	92	46	18.4	85	48	15.9	0.1	0.1	0.1
4	115	42	21.9	105	46	18.2	97	49	15.6	0.1	0.1	0.1
3	131	43	21.7	119	47	17.8	110	49	15.3	0.1	0.1	0.1
2	150	43	21.5	136	47	17.6	126	50	14.9	0.1	0.1	0.1
1	173	44	20.9	156	48	17.1	143	50	14.5	0.1	0.1	0.1
65°C - Copper Conductor - Compact Sector Strand												
1/0	201	46	24.5	180	49	19.6	165	52	16.4	0.1	0.1	0.1
2/0	230	46	24.3	206	50	19.5	188	53	16.2	0.1	0.1	0.1
3/0	264	47	23.9	235	51	18.9	214	53	15.7	0.1	0.1	0.1
4/0	299	47	22.0	267	51	17.5	243	53	14.6	0.1	0.1	0.1
250	331	47	21.8	294	51	17.2	267	54	14.2	0.1	0.1	0.1
300	368	48	21.5	326	52	16.9	296	54	13.9	0.1	0.1	0.1
350	402	48	21.2	356	52	16.6	323	54	13.6	0.1	0.1	0.2
400	434	49	21.0	383	52	16.4	347	55	13.4	0.1	0.1	0.2
450	464	49	20.8	409	53	16.1	370	55	13.2	0.1	0.1	0.2
500	493	50	20.5	433	53	15.9	392	55	13.0	0.1	0.1	0.2
550	519	50	20.4	456	53	15.7	412	55	12.8	0.1	0.1	0.2
600	545	50	20.1	478	54	15.5	431	56	12.6	0.1	0.1	0.2
650	568	50	20.0	498	54	15.3	449	56	12.5	0.1	0.1	0.2
700	591	51	19.8	517	54	15.2	466	56	12.3	0.1	0.2	0.2
750	613	51	19.6	536	54	15.0	483	56	12.2	0.1	0.2	0.2
800	633	51	19.4	553	54	14.9	498	56	12.0	0.1	0.2	0.2
900	672	51	19.2	586	55	14.6	527	57	11.9	0.1	0.2	0.2
1000	697	51	18.1	609	54	13.8	549	56	11.2	0.1	0.2	0.2

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5 kV Belted Three Conductor Solid Paper Lead Sheathed Power Cable

Direct Buried - Double Circuit

25°C Earth Ambient

Condr Size	---- 60 Rho--- Interface Temp	Flux	Amps	---- 90 Rho--- Interface Temp	Flux	Amps	----120 Rho--- Interface Temp	Flux	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												
6	45	19.2	82	49	15.3	73	51	12.9	67	0.0	0.1	0.1
5	45	19.0	93	49	15.1	83	52	12.6	76	0.1	0.1	0.1
4	46	18.8	106	50	14.9	95	52	12.4	86	0.1	0.1	0.1
3	46	18.3	121	50	14.4	108	53	12.0	98	0.1	0.1	0.1
2	47	17.9	138	51	14.2	122	53	11.7	111	0.1	0.1	0.1
1	47	17.6	158	51	13.7	139	54	11.3	126	0.1	0.1	0.1
65°C - Copper Conductor - Compact Sector Strand												
1/0	49	20.1	182	53	15.5	160	55	12.6	144	0.1	0.1	0.1
2/0	50	19.9	208	53	15.2	182	55	12.3	164	0.1	0.1	0.1
3/0	50	19.5	238	54	14.8	208	56	11.9	186	0.1	0.1	0.1
4/0	50	17.9	269	54	13.5	235	56	10.9	211	0.1	0.1	0.1
250	51	17.4	296	54	13.2	258	56	10.6	231	0.1	0.1	0.1
300	51	17.2	328	55	12.9	285	57	10.4	255	0.1	0.1	0.1
350	52	16.8	358	55	12.6	310	57	10.0	277	0.1	0.1	0.2
400	52	16.6	385	55	12.3	333	57	9.8	297	0.1	0.1	0.2
450	53	16.2	411	56	12.1	354	58	9.7	316	0.1	0.1	0.2
500	53	16.0	435	56	11.9	375	58	9.5	334	0.1	0.1	0.2
550	53	15.8	457	56	11.8	393	58	9.3	350	0.1	0.1	0.2
600	53	15.5	479	57	11.5	411	58	9.1	366	0.1	0.1	0.2
650	54	15.4	499	57	11.3	428	58	8.9	380	0.1	0.1	0.2
700	54	15.2	518	57	11.2	444	59	8.8	394	0.1	0.2	0.2
750	54	15.0	536	57	11.1	459	59	8.7	407	0.1	0.2	0.2
800	54	14.9	553	57	10.9	473	59	8.6	420	0.1	0.2	0.2
900	55	14.6	585	58	10.6	500	59	8.4	443	0.1	0.2	0.2
1000	54	13.7	607	57	10.0	520	59	7.9	461	0.1	0.2	0.2

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5 kV Belted Three Conductor Solid Paper 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												
6	71	35	13.9	65	38	11.7	60	39	10.1	0.0	0.1	0.1
5	81	36	13.8	74	38	11.5	69	40	9.9	0.1	0.1	0.1
4	93	36	13.7	85	38	11.3	78	40	9.7	0.1	0.1	0.1
3	107	36	13.6	97	39	11.1	89	40	9.5	0.1	0.1	0.1
2	122	36	13.4	110	39	11.1	102	41	9.4	0.1	0.1	0.1
1	140	37	13.0	126	39	10.7	116	41	9.1	0.1	0.1	0.1
50°C - Copper Conductor - Compact Sector Strand												
1/0	163	38	15.3	146	40	12.3	133	42	10.2	0.1	0.1	0.1
2/0	187	38	15.2	167	41	12.2	152	42	10.1	0.1	0.1	0.1
3/0	214	39	14.9	191	41	11.9	174	43	9.9	0.1	0.1	0.1
4/0	243	39	13.8	216	41	10.9	197	43	9.1	0.1	0.1	0.1
250	268	39	13.6	238	41	10.7	216	43	8.9	0.1	0.1	0.1
300	298	39	13.4	264	42	10.5	239	43	8.8	0.1	0.1	0.1
350	326	40	13.2	288	42	10.4	261	43	8.5	0.1	0.1	0.2
400	351	40	13.1	310	42	10.3	281	44	8.4	0.1	0.1	0.2
450	375	40	13.0	331	42	10.1	299	44	8.2	0.1	0.1	0.2
500	399	40	12.8	350	43	9.9	317	44	8.2	0.1	0.1	0.2
550	419	41	12.7	368	43	9.9	332	44	8.0	0.1	0.1	0.2
600	440	41	12.6	386	43	9.6	348	44	7.9	0.1	0.1	0.2
650	459	41	12.5	402	43	9.6	362	44	7.9	0.1	0.1	0.2
700	477	41	12.4	417	43	9.5	376	44	7.8	0.1	0.2	0.2
750	494	41	12.3	432	43	9.4	389	45	7.7	0.1	0.2	0.2
800	511	41	12.2	446	43	9.3	401	45	7.5	0.1	0.2	0.2
900	541	42	12.0	472	44	9.2	424	45	7.4	0.1	0.2	0.2
1000	561	41	11.3	490	43	8.7	441	45	7.0	0.1	0.2	0.2

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5 kV Belted Three Conductor Solid Paper Lead Sheathed Power Cable

Direct Buried - Double 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 .0160 pf & Rho 60	90	120
					100% LF							
					50°C - Copper Conductor - Concentric Strand							
6	66	37	11.9	59	40	9.7	54	42	8.1	0.0	0.1	0.1
5	75	38	11.8	67	40	9.5	61	42	8.0	0.1	0.1	0.1
4	86	38	11.7	77	40	9.3	70	42	7.8	0.1	0.1	0.1
3	98	38	11.4	87	41	9.0	79	42	7.6	0.1	0.1	0.1
2	112	39	11.2	99	41	8.9	90	43	7.4	0.1	0.1	0.1
1	128	39	11.0	113	41	8.6	102	43	7.1	0.1	0.1	0.1
					50°C - Copper Conductor - Compact Sector Strand							
1/0	148	40	12.6	130	42	9.7	117	44	7.8	0.1	0.1	0.1
2/0	169	40	12.5	148	43	9.6	133	44	7.8	0.1	0.1	0.1
3/0	193	41	12.2	168	43	9.3	151	44	7.5	0.1	0.1	0.1
4/0	218	41	11.2	190	43	8.5	171	44	6.9	0.1	0.1	0.1
250	240	41	10.9	209	43	8.3	187	45	6.7	0.1	0.1	0.1
300	266	42	10.8	230	44	8.1	206	45	6.5	0.1	0.1	0.1
350	290	42	10.5	251	44	7.9	224	45	6.3	0.1	0.1	0.2
400	312	42	10.4	269	44	7.7	240	45	6.1	0.1	0.1	0.2
450	332	42	10.2	286	44	7.6	255	45	6.0	0.1	0.1	0.2
500	352	43	10.0	303	44	7.4	270	46	5.9	0.1	0.1	0.2
550	370	43	9.9	318	45	7.3	283	46	5.8	0.1	0.1	0.2
600	387	43	9.7	332	45	7.2	295	46	5.7	0.1	0.1	0.2
650	403	43	9.6	345	45	7.1	307	46	5.7	0.1	0.1	0.2
700	418	43	9.5	358	45	7.0	318	46	5.5	0.1	0.2	0.2
750	432	43	9.4	370	45	6.9	328	46	5.5	0.1	0.2	0.2
800	446	43	9.3	381	45	6.9	338	46	5.4	0.1	0.2	0.2
900	471	44	9.1	402	45	6.7	356	46	5.3	0.1	0.2	0.2
1000	489	43	8.6	418	45	6.3	371	46	5.0	0.1	0.2	0.2

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5 kV Belted Three Conductor Solid Paper 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						
6	65	67	48	55	0.1	0.1
5	74	77	55	63	0.1	0.1
4	84	87	62	72	0.1	0.1
3	99	102	72	82	0.1	0.1
2	114	117	82	93	0.1	0.1
1	130	134	95	107	0.1	0.1
90°C - Copper Conductor - Compact Sector Strand						
1/0	147	151	107	121	0.1	0.1
2/0	168	174	122	139	0.1	0.1
3/0	193	200	141	160	0.1	0.1
4/0	222	229	162	184	0.1	0.1
250	245	254	179	203	0.1	0.1
300	273	283	199	226	0.1	0.1
350	299	310	218	248	0.2	0.1
400	322	335	235	268	0.2	0.1
450	345	359	252	287	0.2	0.1
500	367	381	268	305	0.2	0.2
550	387	402	282	322	0.2	0.2
600	419	433	302	341	0.2	0.2
650	438	453	316	356	0.2	0.2
700	457	472	329	372	0.2	0.2
750	474	491	342	386	0.2	0.2
800	491	508	354	400	0.2	0.2
900	522	541	377	426	0.2	0.2
1000	549	569	396	448	0.2	0.2

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5 kV Belted Three Conductor Solid Paper 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						
6	74	91	61	82	0.1	0.0
5	85	104	70	94	0.1	0.0
4	98	119	80	108	0.1	0.0
3	112	137	92	123	0.1	0.1
2	129	157	106	141	0.1	0.1
1	150	181	123	162	0.1	0.1
90°C - Copper Conductor - Compact Sector Strand						
1/0	170	209	139	188	0.1	0.1
2/0	196	241	160	216	0.1	0.1
3/0	227	278	185	248	0.1	0.1
4/0	264	322	215	287	0.1	0.1
250	294	357	239	317	0.1	0.1
300	329	399	267	353	0.1	0.1
350	364	439	294	388	0.1	0.1
400	395	475	318	419	0.1	0.1
450	425	510	342	449	0.1	0.1
500	455	544	365	478	0.1	0.1
550	481	575	386	504	0.1	0.1
600	508	606	407	530	0.1	0.1
650	533	634	426	554	0.1	0.1
700	557	663	445	578	0.1	0.1
750	581	690	464	601	0.1	0.1
800	604	716	481	623	0.1	0.1
900	646	765	514	664	0.1	0.1
1000	685	811	544	702	0.1	0.1

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5 kV Belted Three Conductor Solid Paper 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						
6	62	67	53	61	0.1	0.1
5	71	77	60	70	0.1	0.1
4	80	88	68	80	0.1	0.1
3	98	105	83	92	0.1	0.1
2	112	120	95	106	0.1	0.1
1	129	138	110	122	0.1	0.1
90°C - Copper Conductor - Compact Sector Strand						
1/0	146	156	124	138	0.1	0.1
2/0	167	179	142	159	0.1	0.1
3/0	191	206	163	183	0.1	0.1
4/0	219	236	186	210	0.1	0.1
250	241	261	205	232	0.1	0.1
300	268	290	228	259	0.2	0.1
350	292	318	249	284	0.2	0.1
400	314	342	268	307	0.2	0.1
450	336	366	286	329	0.2	0.1
500	355	388	303	350	0.2	0.1
550	373	408	318	369	0.2	0.1
600	413	445	352	396	0.2	0.1
650	430	464	367	414	0.2	0.1
700	447	482	381	432	0.2	0.1
750	463	499	394	449	0.2	0.1
800	477	516	407	465	0.2	0.1
900	503	546	430	491	0.2	0.2
1000	524	569	448	512	0.2	0.2

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5 kV Belted Three Conductor Solid Paper 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								
6	64	62	62	60	61	59	0.1	0.1	0.1
5	73	71	71	69	70	67	0.1	0.1	0.1
4	83	81	82	79	80	76	0.1	0.1	0.1
3	96	93	93	90	92	87	0.1	0.1	0.1
2	110	107	107	103	105	100	0.1	0.1	0.1
1	126	123	123	118	120	114	0.1	0.1	0.1
	90°C - Aluminum Conductor - Compact Sector Strand								
1/0	143	139	139	134	136	129	0.1	0.1	0.1
2/0	164	159	160	153	156	147	0.1	0.1	0.1
3/0	189	183	184	176	179	169	0.1	0.1	0.1
4/0	218	211	211	202	206	194	0.1	0.1	0.1
250	241	233	234	223	228	214	0.1	0.1	0.1
300	269	260	261	248	253	237	0.1	0.1	0.2
350	296	285	287	272	278	260	0.1	0.1	0.2
400	320	308	310	293	300	280	0.1	0.2	0.2
450	344	331	333	314	322	300	0.1	0.2	0.2
500	367	353	354	335	343	319	0.1	0.2	0.2
550	388	372	374	353	362	336	0.1	0.2	0.2
600	409	392	395	372	381	353	0.2	0.2	0.2
650	429	411	413	389	399	369	0.2	0.2	0.2
700	448	429	431	406	416	385	0.2	0.2	0.2
750	467	447	449	422	433	400	0.2	0.2	0.2
800	485	464	466	437	449	415	0.2	0.2	0.2
900	519	495	498	467	480	442	0.2	0.2	0.2
1000	550	524	527	493	507	467	0.2	0.2	0.2

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5 kV Belted Three Conductor Solid Paper 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									
6	60	57	57	53	55	50	0.1	0.1	0.1
5	68	65	65	60	63	57	0.1	0.1	0.1
4	78	74	74	69	71	65	0.1	0.1	0.2
3	89	84	85	78	81	74	0.1	0.1	0.2
2	102	96	97	89	92	84	0.1	0.2	0.2
1	117	110	111	102	105	95	0.1	0.2	0.2
90°C - Aluminum Conductor - Compact Sector Strand									
1/0	132	124	125	115	119	107	0.1	0.1	0.2
2/0	152	142	143	131	136	122	0.1	0.2	0.2
3/0	174	162	164	149	155	139	0.1	0.2	0.2
4/0	199	185	187	170	177	157	0.2	0.2	0.2
250	220	204	206	187	195	172	0.2	0.2	0.2
300	245	226	229	206	216	190	0.2	0.2	0.2
350	269	247	250	225	235	207	0.2	0.2	0.3
400	290	267	270	242	253	224	0.2	0.2	0.3
450	310	285	289	258	271	239	0.2	0.2	0.3
500	330	303	307	274	287	253	0.2	0.2	0.3
550	348	318	323	289	303	266	0.2	0.3	0.3
600	366	334	340	303	318	278	0.2	0.3	0.3
650	383	350	355	316	332	290	0.2	0.3	0.3
700	400	364	370	329	345	302	0.2	0.3	0.3
750	416	378	384	341	358	313	0.2	0.3	0.3
800	431	391	398	353	371	323	0.2	0.3	0.3
900	460	416	423	375	395	343	0.2	0.3	0.4
1000	485	439	446	394	416	360	0.2	0.3	0.4

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5 kV Belted Three Conductor Solid Paper 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	delta Td for .0160 pf & Rho 90	delta Td for .0160 pf & Rho 120
	90°C - Aluminum Conductor - Concentric Strand								
6	55	50	51	46	48	42	0.1	0.2	0.2
5	63	57	58	52	54	47	0.1	0.2	0.2
4	71	65	66	59	61	53	0.2	0.2	0.2
3	81	74	75	66	70	60	0.2	0.2	0.2
2	93	84	85	75	79	68	0.2	0.2	0.3
1	106	96	97	85	90	78	0.2	0.2	0.3
	90°C - Aluminum Conductor - Compact Sector Strand								
1/0	120	108	109	96	101	87	0.2	0.2	0.3
2/0	136	123	124	109	115	99	0.2	0.2	0.3
3/0	156	140	141	123	130	112	0.2	0.3	0.3
4/0	178	159	161	140	148	127	0.2	0.3	0.3
250	195	174	177	153	162	138	0.2	0.3	0.4
300	216	192	196	169	180	152	0.2	0.3	0.4
350	237	209	213	183	196	165	0.3	0.3	0.4
400	255	225	229	197	210	177	0.3	0.3	0.4
450	272	239	244	209	223	188	0.3	0.4	0.5
500	289	253	258	221	236	199	0.3	0.4	0.5
550	304	266	271	232	248	209	0.3	0.4	0.5
600	320	279	284	243	260	218	0.3	0.4	0.5
650	334	291	297	253	270	227	0.3	0.4	0.5
700	348	303	308	263	280	235	0.3	0.4	0.5
750	361	314	320	273	291	244	0.3	0.4	0.5
800	373	325	331	282	300	252	0.3	0.5	0.6
900	397	345	351	298	318	266	0.4	0.5	0.6
1000	418	362	369	314	335	280	0.4	0.5	0.6

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5 kV Belted Three Conductor Solid Paper 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 - Aluminum Conductor - Concentric Strand									
6	51	46	47	41	44	37	0.2	0.2	0.3
5	58	52	53	46	49	42	0.2	0.2	0.3
4	66	59	61	52	56	48	0.2	0.2	0.3
3	76	67	69	59	63	54	0.2	0.3	0.3
2	86	76	78	67	72	61	0.2	0.3	0.3
1	98	86	88	76	81	69	0.2	0.3	0.4
90°C - Aluminum Conductor - Compact Sector Strand									
1/0	110	97	100	86	92	77	0.2	0.3	0.3
2/0	126	110	113	97	104	87	0.2	0.3	0.4
3/0	143	125	128	109	117	99	0.2	0.3	0.4
4/0	163	142	146	124	133	111	0.3	0.4	0.4
250	179	155	159	135	145	122	0.3	0.4	0.5
300	198	171	176	149	160	134	0.3	0.4	0.5
350	215	185	191	161	174	145	0.3	0.4	0.5
400	231	199	205	173	186	155	0.3	0.5	0.6
450	246	212	219	184	198	165	0.4	0.5	0.6
500	261	224	231	194	209	173	0.4	0.5	0.6
550	274	235	243	204	219	183	0.4	0.5	0.6
600	288	246	254	213	230	191	0.4	0.5	0.7
650	300	256	265	222	239	198	0.4	0.5	0.7
700	312	266	275	231	249	205	0.4	0.6	0.7
750	324	276	285	239	257	212	0.4	0.6	0.7
800	335	286	294	246	266	219	0.4	0.6	0.7
900	355	302	312	261	282	232	0.5	0.6	0.8
1000	374	318	328	274	295	244	0.5	0.6	0.8

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5 kV Belted Three Conductor Solid Paper 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							
6	90	46	41.2	83	52	35.7	78	56	31.5	0.0	0.0	0.1
5	103	47	41.1	95	53	35.5	89	57	31.4	0.0	0.1	0.1
4	118	47	41.0	109	53	35.3	102	58	31.0	0.0	0.1	0.1
3	135	48	40.7	125	54	34.9	117	58	30.6	0.0	0.1	0.1
2	155	49	40.4	143	55	34.5	134	59	30.2	0.0	0.1	0.1
1	178	49	39.9	165	56	33.9	154	60	29.7	0.1	0.1	0.1
					90°C - Aluminum Conductor - Compact Sector Strand							
1/0	209	52	47.2	191	59	39.4	177	63	33.9	0.0	0.1	0.1
2/0	241	53	47.4	219	60	39.2	203	64	33.7	0.0	0.1	0.1
3/0	278	54	47.0	253	61	38.9	233	65	33.1	0.0	0.1	0.1
4/0	316	54	43.5	287	60	36.0	265	65	30.7	0.1	0.1	0.1
250	350	55	43.3	318	61	35.7	294	65	30.4	0.1	0.1	0.1
300	392	56	43.1	355	62	35.3	327	66	30.1	0.1	0.1	0.1
350	431	56	42.8	390	63	34.9	359	67	29.6	0.1	0.1	0.1
400	467	57	42.6	422	63	34.7	388	67	29.3	0.1	0.1	0.1
450	502	57	42.3	453	64	34.3	416	68	29.0	0.1	0.1	0.1
500	536	58	42.1	483	64	34.0	443	68	28.7	0.1	0.1	0.1
550	567	58	42.0	510	64	33.9	468	68	28.5	0.1	0.1	0.1
600	599	59	41.6	538	65	33.6	493	69	28.2	0.1	0.1	0.1
650	628	59	41.5	563	65	33.4	516	69	28.0	0.1	0.1	0.1
700	657	59	41.3	588	66	33.2	539	69	27.8	0.1	0.1	0.1
750	685	60	41.1	613	66	32.9	561	70	27.6	0.1	0.1	0.1
800	712	60	40.9	637	66	32.8	582	70	27.4	0.1	0.1	0.1
900	763	61	40.7	681	67	32.5	622	71	27.1	0.1	0.1	0.1
1000	798	60	38.2	714	66	30.6	654	70	25.6	0.1	0.1	0.1

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5 kV Belted Three Conductor Solid Paper 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					
				90°C - Aluminum Conductor - Concentric Strand					
6	85	50 37.3	78	57 31.3	72	61 27.0	0.0	0.0	0.1
5	98	51 37.3	89	57 31.1	83	62 26.6	0.0	0.1	0.1
4	112	52 37.0	102	58 30.8	94	63 26.4	0.0	0.1	0.1
3	128	52 36.4	116	59 30.1	107	63 25.7	0.0	0.1	0.1
2	146	53 36.2	133	60 29.8	122	64 25.3	0.0	0.1	0.1
1	168	54 35.5	152	61 29.1	140	65 24.5	0.1	0.1	0.1
				90°C - Aluminum Conductor - Compact Sector Strand					
1/0	196	57 41.6	176	63 33.4	161	68 28.0	0.0	0.1	0.1
2/0	225	58 41.4	201	64 33.1	184	69 27.4	0.0	0.1	0.1
3/0	259	59 40.9	231	65 32.3	210	70 26.8	0.0	0.1	0.1
4/0	294	59 37.6	262	65 29.9	238	70 24.8	0.1	0.1	0.1
250	325	60 37.2	289	66 29.4	262	70 24.3	0.1	0.1	0.1
300	362	61 36.8	321	67 28.9	291	71 23.8	0.1	0.1	0.1
350	397	61 36.4	351	68 28.4	318	72 23.4	0.1	0.1	0.1
400	430	62 36.0	379	68 28.0	343	72 23.0	0.1	0.1	0.1
450	461	63 35.7	406	69 27.7	367	73 22.5	0.1	0.1	0.1
500	491	63 35.2	432	69 27.3	390	73 22.2	0.1	0.1	0.1
550	518	64 35.0	455	70 27.1	411	73 22.0	0.1	0.1	0.1
600	546	64 34.6	479	70 26.7	432	74 21.6	0.1	0.1	0.1
650	572	64 34.4	501	70 26.4	451	74 21.5	0.1	0.1	0.1
700	597	65 34.1	522	71 26.2	470	74 21.2	0.1	0.1	0.1
750	621	65 33.9	543	71 25.9	489	75 20.9	0.1	0.1	0.1
800	645	65 33.6	563	71 25.7	506	75 20.7	0.1	0.1	0.1
900	689	66 33.2	601	72 25.3	539	75 20.3	0.1	0.1	0.1
1000	721	65 31.2	630	71 23.8	566	75 19.3	0.1	0.1	0.1

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5 kV Belted Three Conductor Solid Paper 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 - Aluminum Conductor - Concentric Strand							
6	84	43	34.9	78	48	30.3	73	52	26.6	0.0	0.0	0.1
5	96	43	34.7	89	48	30.1	84	52	26.6	0.0	0.1	0.1
4	110	44	34.7	102	49	29.9	96	53	26.4	0.0	0.1	0.1
3	126	44	34.5	117	50	29.6	109	53	25.9	0.0	0.1	0.1
2	145	45	34.2	134	50	29.3	125	54	25.6	0.0	0.1	0.1
1	167	46	33.8	154	51	28.8	144	55	25.1	0.1	0.1	0.1
					80°C - Aluminum Conductor - Compact Sector Strand							
1/0	195	48	39.9	179	53	33.4	166	57	28.8	0.0	0.1	0.1
2/0	225	49	40.1	205	54	33.2	190	58	28.5	0.0	0.1	0.1
3/0	260	50	39.8	236	55	32.8	218	59	28.1	0.0	0.1	0.1
4/0	295	50	36.8	268	55	30.4	248	58	26.0	0.1	0.1	0.1
250	327	50	36.6	297	55	30.2	274	59	25.7	0.1	0.1	0.1
300	366	51	36.4	331	56	29.9	305	60	25.4	0.1	0.1	0.1
350	403	52	36.1	364	57	29.6	335	60	25.0	0.1	0.1	0.1
400	437	52	36.1	394	57	29.3	362	61	24.8	0.1	0.1	0.1
450	469	52	35.8	423	58	29.1	388	61	24.5	0.1	0.1	0.1
500	501	53	35.7	451	58	28.8	414	62	24.3	0.1	0.1	0.1
550	530	53	35.5	476	58	28.6	437	62	24.1	0.1	0.1	0.1
600	559	54	35.2	502	59	28.4	460	62	23.9	0.1	0.1	0.1
650	586	54	35.2	526	59	28.2	482	62	23.8	0.1	0.1	0.1
700	613	54	35.0	549	59	28.1	503	63	23.6	0.1	0.1	0.1
750	639	54	34.8	572	60	27.9	523	63	23.4	0.1	0.1	0.1
800	664	55	34.6	594	60	27.8	543	63	23.2	0.1	0.1	0.1
900	712	55	34.4	636	60	27.5	581	64	22.9	0.1	0.1	0.1
1000	744	54	32.3	666	59	25.9	610	63	21.8	0.1	0.1	0.1

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5 kV Belted Three Conductor Solid Paper 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												
6	80	46	31.7	73	52	26.4	68	56	22.8	0.0	0.0	0.1
5	91	47	31.4	83	52	26.4	77	56	22.5	0.0	0.1	0.1
4	104	48	31.4	95	53	26.0	88	57	22.3	0.0	0.1	0.1
3	119	48	31.0	109	54	25.5	100	58	21.8	0.0	0.1	0.1
2	137	49	30.7	124	54	25.1	114	58	21.5	0.0	0.1	0.1
1	157	50	30.0	142	55	24.5	131	59	20.7	0.1	0.1	0.1
80°C - Aluminum Conductor - Compact Sector Strand												
1/0	183	52	35.1	164	57	28.3	150	61	23.7	0.0	0.1	0.1
2/0	210	53	35.0	188	58	27.9	172	62	23.2	0.0	0.1	0.1
3/0	242	54	34.6	215	59	27.5	196	63	22.7	0.0	0.1	0.1
4/0	274	54	31.8	244	59	25.4	222	63	20.9	0.1	0.1	0.1
250	304	54	31.5	270	60	24.9	245	63	20.6	0.1	0.1	0.1
300	338	55	31.2	300	60	24.5	272	64	20.2	0.1	0.1	0.1
350	371	56	30.8	328	61	24.1	297	65	19.7	0.1	0.1	0.1
400	401	56	30.4	354	62	23.8	320	65	19.5	0.1	0.1	0.1
450	431	57	30.1	379	62	23.4	343	65	19.1	0.1	0.1	0.1
500	459	57	29.9	403	62	23.1	364	66	18.8	0.1	0.1	0.1
550	484	58	29.7	425	63	22.9	384	66	18.7	0.1	0.1	0.1
600	510	58	29.3	447	63	22.5	403	66	18.4	0.1	0.1	0.1
650	534	58	29.1	468	63	22.4	421	67	18.2	0.1	0.1	0.1
700	557	59	28.9	488	64	22.1	439	67	17.9	0.1	0.1	0.1
750	580	59	28.7	507	64	21.9	456	67	17.7	0.1	0.1	0.1
800	602	59	28.4	526	64	21.8	472	67	17.6	0.1	0.1	0.1
900	643	60	28.1	561	65	21.4	503	68	17.2	0.1	0.1	0.1
1000	672	59	26.4	588	64	20.2	528	67	16.3	0.1	0.1	0.1

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5 kV Belted Three Conductor Solid Paper 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							
6	73	38	25.2	68	42	22.0	64	44	19.4	0.0	0.0	0.1
5	84	38	25.2	78	42	21.9	73	45	19.2	0.0	0.1	0.1
4	96	39	25.3	89	42	21.7	84	45	19.1	0.0	0.1	0.1
3	110	39	25.0	102	43	21.5	96	46	18.8	0.0	0.1	0.1
2	127	40	25.0	117	43	21.3	109	46	18.6	0.0	0.1	0.1
1	146	40	24.5	134	44	20.9	125	47	18.2	0.1	0.1	0.1
					65°C - Aluminum Conductor - Compact Sector Strand							
1/0	171	42	29.0	156	46	24.2	145	48	21.0	0.0	0.1	0.1
2/0	197	42	29.0	179	46	24.2	166	49	20.8	0.0	0.1	0.1
3/0	227	43	29.0	206	47	23.9	191	50	20.4	0.0	0.1	0.1
4/0	258	43	26.7	234	47	22.2	217	49	19.0	0.1	0.1	0.1
250	286	43	26.6	260	47	21.9	240	50	18.7	0.1	0.1	0.1
300	320	44	26.5	290	48	21.8	267	50	18.5	0.1	0.1	0.1
350	352	44	26.3	318	48	21.5	293	51	18.2	0.1	0.1	0.1
400	381	45	26.2	344	48	21.3	316	51	18.1	0.1	0.1	0.1
450	410	45	26.0	369	49	21.1	339	51	17.9	0.1	0.1	0.1
500	438	45	25.9	394	49	20.9	361	52	17.7	0.1	0.1	0.1
550	463	46	25.8	416	49	20.9	381	52	17.5	0.1	0.1	0.1
600	488	46	25.7	438	50	20.7	402	52	17.4	0.1	0.1	0.1
650	512	46	25.5	459	50	20.6	420	52	17.3	0.1	0.1	0.1
700	535	46	25.5	479	50	20.5	439	52	17.2	0.1	0.1	0.1
750	558	46	25.3	499	50	20.3	457	53	17.0	0.1	0.1	0.1
800	580	47	25.3	518	50	20.2	474	53	16.9	0.1	0.1	0.1
900	621	47	25.1	554	51	20.0	506	53	16.7	0.1	0.1	0.1
1000	648	46	23.5	581	50	18.9	531	53	15.8	0.1	0.1	0.1

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5 kV Belted Three Conductor Solid Paper 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 .0160 pf & Rho 60	90	120
	°C	w/ft²		°C	w/ft²		°C	w/ft²				
100% LF												
65°C - Aluminum Conductor - Concentric Strand												
6	70	41	23.0	64	45	19.4	59	47	16.5	0.0	0.0	0.1
5	80	41	22.9	73	45	19.2	67	48	16.5	0.0	0.1	0.1
4	91	41	22.8	83	45	18.9	77	48	16.2	0.0	0.1	0.1
3	104	42	22.5	95	46	18.7	88	49	15.8	0.0	0.1	0.1
2	120	42	22.3	108	46	18.3	100	49	15.6	0.0	0.1	0.1
1	137	43	21.8	124	47	17.9	114	50	15.1	0.1	0.1	0.1
65°C - Aluminum Conductor - Compact Sector Strand												
1/0	160	45	25.6	144	49	20.6	131	51	17.2	0.0	0.1	0.1
2/0	184	45	25.5	164	49	20.3	150	52	16.9	0.0	0.1	0.1
3/0	212	46	25.2	188	50	20.0	171	53	16.5	0.0	0.1	0.1
4/0	240	46	23.1	214	50	18.3	194	52	15.3	0.1	0.1	0.1
250	265	46	22.9	236	50	18.1	214	53	14.9	0.1	0.1	0.1
300	296	47	22.7	262	51	17.8	238	53	14.7	0.1	0.1	0.1
350	325	47	22.4	287	51	17.5	260	54	14.3	0.1	0.1	0.1
400	351	48	22.1	309	52	17.3	280	54	14.2	0.1	0.1	0.1
450	376	48	21.9	331	52	17.0	299	54	13.9	0.1	0.1	0.1
500	401	49	21.7	352	52	16.8	318	55	13.7	0.1	0.1	0.1
550	423	49	21.6	371	52	16.7	335	55	13.5	0.1	0.1	0.1
600	445	49	21.3	390	53	16.5	352	55	13.3	0.1	0.1	0.1
650	466	49	21.2	408	53	16.3	368	55	13.2	0.1	0.1	0.1
700	486	50	21.1	426	53	16.1	383	55	13.1	0.1	0.1	0.1
750	506	50	20.9	442	53	16.0	398	56	12.9	0.1	0.1	0.1
800	525	50	20.7	458	54	15.8	412	56	12.8	0.1	0.1	0.1
900	561	50	20.4	489	54	15.5	439	56	12.6	0.1	0.1	0.1
1000	586	50	19.3	512	53	14.7	460	56	11.9	0.1	0.1	0.1

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5 kV Belted Three Conductor Solid Paper Lead Sheathed Power Cable

Direct Buried - Single Circuit

25°C Earth Ambient

Condr Size	---- 60 Rho--- Amps	Interface Temp	Flux w/ft²	---- 90 Rho--- Amps	Interface Temp	Flux w/ft²	----120 Rho--- Amps	Interface Temp	Flux w/ft²	delta Td for .0160 pf & Rho 60	90	120
					75% LF							
					50°C - Aluminum Conductor - Concentric Strand							
6	59	33	15.7	55	35	13.7	52	37	12.1	0.0	0.0	0.1
5	68	33	15.9	63	36	13.6	59	37	12.0	0.0	0.1	0.1
4	78	34	15.8	72	36	13.6	68	38	11.9	0.0	0.1	0.1
3	89	34	15.7	83	36	13.4	78	38	11.8	0.0	0.1	0.1
2	103	34	15.6	95	36	13.2	89	38	11.6	0.0	0.1	0.1
1	118	34	15.4	109	37	13.0	102	38	11.5	0.1	0.1	0.1
					50°C - Aluminum Conductor - Compact Sector Strand							
1/0	139	36	18.2	127	38	15.2	117	40	13.1	0.0	0.1	0.1
2/0	160	36	18.2	145	38	15.1	135	40	13.0	0.0	0.1	0.1
3/0	184	36	18.2	167	39	14.9	155	40	12.8	0.0	0.1	0.1
4/0	209	36	16.8	190	39	13.9	176	40	11.8	0.1	0.1	0.1
250	232	37	16.6	211	39	13.8	194	41	11.7	0.1	0.1	0.1
300	259	37	16.5	235	39	13.6	216	41	11.5	0.1	0.1	0.1
350	285	37	16.5	258	39	13.5	237	41	11.4	0.1	0.1	0.1
400	309	37	16.4	279	40	13.4	256	41	11.3	0.1	0.1	0.1
450	332	38	16.3	299	40	13.2	275	41	11.1	0.1	0.1	0.1
500	355	38	16.2	319	40	13.1	293	42	11.1	0.1	0.1	0.1
550	375	38	16.2	337	40	13.0	309	42	11.0	0.1	0.1	0.1
600	396	38	16.0	355	40	12.9	325	42	10.9	0.1	0.1	0.1
650	414	38	16.0	372	41	12.8	340	42	10.8	0.1	0.1	0.1
700	433	38	15.9	388	41	12.8	355	42	10.7	0.1	0.1	0.1
750	452	38	15.9	404	41	12.7	369	42	10.6	0.1	0.1	0.1
800	469	39	15.8	419	41	12.6	383	42	10.6	0.1	0.1	0.1
900	502	39	15.7	448	41	12.5	409	43	10.4	0.1	0.1	0.1
1000	524	38	14.7	469	41	11.8	429	42	9.9	0.1	0.1	0.1

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5 kV Belted Three Conductor Solid Paper 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 .0160 pf & Rho 60	90	120
	°C	w/ft²		°C	w/ft²		°C	w/ft²				
100% LF												
50°C - Aluminum Conductor - Concentric Strand												
6	57	35	14.3	52	37	12.1	48	39	10.3	0.0	0.0	0.1
5	65	35	14.4	59	37	12.0	55	39	10.3	0.0	0.1	0.1
4	74	35	14.3	67	38	11.9	62	40	10.0	0.0	0.1	0.1
3	85	36	14.1	77	38	11.6	71	40	9.9	0.0	0.1	0.1
2	97	36	13.9	88	38	11.4	81	40	9.7	0.0	0.1	0.1
1	111	36	13.7	101	39	11.2	93	40	9.4	0.1	0.1	0.1
50°C - Aluminum Conductor - Compact Sector Strand												
1/0	130	37	16.0	116	40	12.8	106	41	10.7	0.0	0.1	0.1
2/0	149	38	15.9	133	40	12.7	122	42	10.5	0.0	0.1	0.1
3/0	172	38	15.7	153	41	12.5	139	42	10.4	0.0	0.1	0.1
4/0	195	38	14.5	173	41	11.4	158	42	9.5	0.1	0.1	0.1
250	215	38	14.3	191	41	11.3	174	42	9.3	0.1	0.1	0.1
300	240	39	14.2	212	41	11.1	193	43	9.1	0.1	0.1	0.1
350	263	39	13.9	233	41	11.0	211	43	8.9	0.1	0.1	0.1
400	284	39	13.8	251	42	10.8	227	43	8.9	0.1	0.1	0.1
450	305	40	13.7	268	42	10.7	243	43	8.7	0.1	0.1	0.1
500	325	40	13.5	285	42	10.5	257	44	8.6	0.1	0.1	0.1
550	343	40	13.5	301	42	10.4	271	44	8.5	0.1	0.1	0.1
600	361	40	13.3	316	42	10.3	285	44	8.3	0.1	0.1	0.1
650	377	40	13.2	330	43	10.1	297	44	8.2	0.1	0.1	0.1
700	394	40	13.2	344	43	10.1	310	44	8.1	0.1	0.1	0.1
750	410	41	13.1	358	43	9.9	322	44	8.0	0.1	0.1	0.1
800	425	41	13.0	371	43	9.9	333	44	8.0	0.1	0.1	0.1
900	453	41	12.9	395	43	9.7	355	44	7.9	0.1	0.1	0.1
1000	474	41	12.0	414	43	9.2	372	44	7.4	0.1	0.1	0.1

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5 kV Belted Three Conductor Solid Paper 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 - Aluminum Conductor - Concentric Strand							
6	84	52	36.1	77	58	30.3	71	62	26.0	0.0	0.1	0.1
5	96	52	35.9	87	59	29.9	81	63	25.6	0.1	0.1	0.1
4	110	53	35.7	100	59	29.5	92	64	25.3	0.1	0.1	0.1
3	125	54	35.2	114	60	29.1	105	64	24.8	0.1	0.1	0.1
2	144	55	34.7	130	61	28.5	120	65	24.3	0.1	0.1	0.1
1	165	55	34.1	149	62	27.8	137	66	23.6	0.1	0.1	0.1
					90°C - Aluminum Conductor - Compact Sector Strand							
1/0	192	58	39.7	172	65	31.9	157	69	26.8	0.1	0.1	0.1
2/0	220	59	39.4	197	66	31.5	179	70	26.3	0.1	0.1	0.1
3/0	253	61	38.9	225	67	30.8	205	71	25.6	0.1	0.1	0.1
4/0	286	60	35.8	255	67	28.4	232	71	23.6	0.1	0.1	0.1
250	317	61	35.3	281	67	27.9	256	71	23.1	0.1	0.1	0.1
300	353	62	34.9	312	68	27.4	284	72	22.7	0.1	0.1	0.1
350	387	63	34.3	342	69	26.9	310	73	22.2	0.1	0.1	0.2
400	418	64	34.0	369	69	26.5	334	73	21.8	0.1	0.1	0.2
450	448	64	33.7	395	70	26.1	357	74	21.4	0.1	0.1	0.2
500	477	65	33.3	419	70	25.8	379	74	21.1	0.1	0.1	0.2
550	503	65	33.1	442	71	25.5	400	74	20.9	0.1	0.1	0.2
600	530	66	32.6	465	71	25.1	420	75	20.5	0.1	0.1	0.2
650	554	66	32.3	486	72	24.8	438	75	20.3	0.1	0.1	0.2
700	578	66	32.1	507	72	24.6	457	75	20.0	0.1	0.2	0.2
750	602	67	31.8	526	72	24.3	474	76	19.8	0.1	0.2	0.2
800	624	67	31.5	546	72	24.1	491	76	19.5	0.1	0.2	0.2
900	666	68	31.1	582	73	23.6	523	76	19.2	0.1	0.2	0.2
1000	697	67	29.2	610	72	22.4	550	76	18.2	0.1	0.2	0.2

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5 kV Belted Three Conductor Solid Paper Lead Sheathed Power Cable

Direct Buried - Double Circuit

25°C Earth Ambient

Condr Size	---- 60 Rho--- Interface Temp	Flux		---- 90 Rho--- Interface Temp	Flux		----120 Rho--- Interface Temp	Flux		delta Td for .0160 pf & Rho 60	90	120
	Amps	°C	w/ft²	Amps	°C	w/ft²	Amps	°C	w/ft²			
					100% LF							
					90°C - Aluminum Conductor - Concentric Strand							
6	78	57	31.1	70	63	25.0	64	68	20.8	0.0	0.1	0.1
5	89	58	30.9	79	64	24.7	72	69	20.6	0.1	0.1	0.1
4	101	58	30.5	90	65	24.1	82	69	20.1	0.1	0.1	0.1
3	115	59	29.8	103	66	23.6	93	70	19.5	0.1	0.1	0.1
2	132	60	29.3	117	67	23.0	106	71	18.9	0.1	0.1	0.1
1	151	61	28.4	133	67	22.3	121	71	18.4	0.1	0.1	0.1
					90°C - Aluminum Conductor - Compact Sector Strand							
1/0	174	64	32.7	153	70	25.2	138	74	20.6	0.1	0.1	0.1
2/0	199	65	32.3	174	71	24.8	157	74	20.1	0.1	0.1	0.1
3/0	228	66	31.6	199	72	23.9	178	75	19.4	0.1	0.1	0.1
4/0	258	66	28.9	225	72	22.0	202	75	17.8	0.1	0.1	0.1
250	284	67	28.3	247	73	21.5	221	76	17.3	0.1	0.1	0.1
300	315	68	27.9	273	73	21.0	245	77	16.8	0.1	0.1	0.1
350	344	69	27.3	298	74	20.4	266	77	16.3	0.1	0.1	0.2
400	371	69	26.9	320	74	20.1	286	78	16.0	0.1	0.1	0.2
450	397	70	26.3	342	75	19.7	305	78	15.7	0.1	0.1	0.2
500	421	70	26.0	363	75	19.2	323	78	15.4	0.1	0.1	0.2
550	444	71	25.7	382	76	19.0	340	79	15.1	0.1	0.1	0.2
600	466	71	25.3	400	76	18.7	356	79	14.7	0.1	0.1	0.2
650	487	71	24.9	418	76	18.4	372	79	14.6	0.1	0.1	0.2
700	507	72	24.6	435	77	18.1	387	79	14.4	0.1	0.2	0.2
750	527	72	24.3	451	77	17.9	401	80	14.1	0.1	0.2	0.2
800	545	72	24.1	467	77	17.6	414	80	13.9	0.1	0.2	0.2
900	581	73	23.6	496	78	17.2	440	80	13.6	0.1	0.2	0.2
1000	608	72	22.2	520	77	16.2	462	80	12.9	0.1	0.2	0.2

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5 kV Belted Three Conductor Solid Paper 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 - Aluminum Conductor - Concentric Strand							
6	78	47	30.7	72	53	25.6	67	57	22.0	0.0	0.1	0.1
5	90	48	30.5	82	53	25.4	76	57	21.7	0.1	0.1	0.1
4	102	49	30.3	93	54	25.1	86	58	21.4	0.1	0.1	0.1
3	117	49	29.8	107	55	24.6	98	58	21.0	0.1	0.1	0.1
2	134	50	29.5	122	55	24.1	112	59	20.6	0.1	0.1	0.1
1	154	51	28.8	139	56	23.6	128	60	20.0	0.1	0.1	0.1
					80°C - Aluminum Conductor - Compact Sector Strand							
1/0	179	53	33.6	161	58	26.9	147	62	22.7	0.1	0.1	0.1
2/0	206	54	33.4	184	59	26.6	168	63	22.2	0.1	0.1	0.1
3/0	236	55	32.9	210	60	26.1	192	64	21.7	0.1	0.1	0.1
4/0	268	55	30.3	238	60	24.1	217	64	20.0	0.1	0.1	0.1
250	296	56	29.9	263	61	23.6	239	64	19.5	0.1	0.1	0.1
300	329	56	29.6	292	61	23.2	265	65	19.2	0.1	0.1	0.1
350	361	57	29.1	319	62	22.8	290	65	18.7	0.1	0.1	0.2
400	390	58	28.8	344	63	22.5	312	66	18.5	0.1	0.1	0.2
450	418	58	28.4	369	63	22.1	334	66	18.1	0.1	0.1	0.2
500	445	59	28.1	392	63	21.8	354	66	17.8	0.1	0.1	0.2
550	470	59	27.9	413	64	21.6	373	67	17.6	0.1	0.1	0.2
600	495	59	27.6	434	64	21.2	392	67	17.4	0.1	0.1	0.2
650	517	60	27.3	454	64	21.1	409	67	17.2	0.1	0.1	0.2
700	540	60	27.2	473	65	20.9	426	68	17.0	0.1	0.2	0.2
750	562	60	26.9	491	65	20.6	443	68	16.7	0.1	0.2	0.2
800	582	61	26.7	509	65	20.4	459	68	16.6	0.1	0.2	0.2
900	622	61	26.3	543	66	20.1	488	68	16.2	0.1	0.2	0.2
1000	650	60	24.7	569	65	18.9	512	68	15.4	0.1	0.2	0.2

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5 kV Belted Three Conductor Solid Paper 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												
80°C - Aluminum Conductor - Concentric Strand												
6	73	52	26.2	65	58	21.2	60	61	17.6	0.0	0.1	0.1
5	83	53	26.0	74	58	20.8	68	62	17.3	0.1	0.1	0.1
4	95	53	25.8	84	59	20.4	77	62	16.9	0.1	0.1	0.1
3	108	54	25.2	96	59	19.9	87	63	16.6	0.1	0.1	0.1
2	123	55	24.8	109	60	19.4	99	64	16.1	0.1	0.1	0.1
1	141	56	24.0	124	61	18.9	113	64	15.6	0.1	0.1	0.1
80°C - Aluminum Conductor - Compact Sector Strand												
1/0	163	58	27.8	143	63	21.3	129	66	17.4	0.1	0.1	0.1
2/0	186	59	27.4	163	64	20.9	146	67	17.0	0.1	0.1	0.1
3/0	213	60	26.7	186	65	20.3	167	68	16.3	0.1	0.1	0.1
4/0	241	60	24.5	210	65	18.6	188	68	15.0	0.1	0.1	0.1
250	265	60	24.0	231	65	18.2	207	68	14.6	0.1	0.1	0.1
300	294	61	23.5	255	66	17.8	228	69	14.3	0.1	0.1	0.1
350	322	62	23.0	278	66	17.3	249	69	13.8	0.1	0.1	0.2
400	347	62	22.7	299	67	17.0	267	70	13.5	0.1	0.1	0.2
450	370	63	22.3	319	67	16.7	285	70	13.2	0.1	0.1	0.2
500	393	63	22.0	339	68	16.3	302	70	13.0	0.1	0.1	0.2
550	414	64	21.7	356	68	16.1	317	70	12.8	0.1	0.1	0.2
600	435	64	21.3	374	68	15.7	333	71	12.5	0.1	0.1	0.2
650	454	64	21.2	390	68	15.6	347	71	12.3	0.1	0.1	0.2
700	473	65	20.9	406	69	15.3	361	71	12.1	0.1	0.2	0.2
750	492	65	20.6	421	69	15.1	374	71	11.9	0.1	0.2	0.2
800	509	65	20.4	436	69	14.9	387	71	11.8	0.1	0.2	0.2
900	542	66	20.0	463	70	14.6	411	72	11.5	0.1	0.2	0.2
1000	567	65	18.8	485	69	13.8	431	71	10.8	0.1	0.2	0.2

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2030

5 kV Belted Three Conductor Solid Paper 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 - Aluminum Conductor - Concentric Strand							
6	69	41	22.2	63	45	18.6	58	48	15.9	0.0	0.1	0.1
5	78	42	22.1	71	46	18.4	66	48	15.9	0.1	0.1	0.1
4	90	42	21.9	82	46	18.2	75	49	15.6	0.1	0.1	0.1
3	102	43	21.7	93	47	17.8	86	49	15.3	0.1	0.1	0.1
2	117	43	21.5	106	47	17.6	98	50	14.9	0.1	0.1	0.1
1	135	44	20.9	122	48	17.1	112	50	14.5	0.1	0.1	0.1
					65°C - Aluminum Conductor - Compact Sector Strand							
1/0	157	46	24.4	140	49	19.6	128	52	16.4	0.1	0.1	0.1
2/0	180	46	24.3	161	50	19.5	147	53	16.2	0.1	0.1	0.1
3/0	206	47	23.9	184	51	18.9	167	53	15.7	0.1	0.1	0.1
4/0	234	47	22.0	208	51	17.5	190	53	14.5	0.1	0.1	0.1
250	259	47	21.8	230	51	17.2	209	53	14.2	0.1	0.1	0.1
300	288	48	21.5	255	52	16.9	232	54	13.9	0.1	0.1	0.1
350	316	48	21.2	279	52	16.6	253	54	13.6	0.1	0.1	0.2
400	341	49	21.0	301	52	16.4	273	55	13.4	0.1	0.1	0.2
450	365	49	20.7	322	53	16.1	291	55	13.2	0.1	0.1	0.2
500	389	49	20.5	342	53	15.9	309	55	13.0	0.1	0.1	0.2
550	410	50	20.4	360	53	15.7	326	55	12.8	0.1	0.1	0.2
600	432	50	20.1	379	53	15.4	342	56	12.6	0.1	0.1	0.2
650	452	50	19.9	396	54	15.3	357	56	12.4	0.1	0.1	0.2
700	471	50	19.8	413	54	15.1	372	56	12.3	0.1	0.2	0.2
750	490	51	19.6	429	54	14.9	386	56	12.2	0.1	0.2	0.2
800	508	51	19.4	444	54	14.8	400	56	12.0	0.1	0.2	0.2
900	542	51	19.2	473	55	14.5	425	57	11.8	0.1	0.2	0.2
1000	567	51	18.0	495	54	13.8	446	56	11.2	0.1	0.2	0.2

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5 kV Belted Three Conductor Solid Paper 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												
65°C - Aluminum Conductor - Concentric Strand												
6	64	45	19.2	57	49	15.3	52	51	12.9	0.0	0.1	0.1
5	72	45	19.0	65	49	15.1	59	52	12.6	0.1	0.1	0.1
4	83	46	18.8	74	50	14.9	67	52	12.4	0.1	0.1	0.1
3	94	46	18.3	84	50	14.4	76	53	12.0	0.1	0.1	0.1
2	108	47	17.9	95	51	14.2	87	53	11.7	0.1	0.1	0.1
1	123	47	17.6	109	51	13.7	99	54	11.3	0.1	0.1	0.1
65°C - Aluminum Conductor - Compact Sector Strand												
1/0	142	49	20.1	125	53	15.5	113	55	12.6	0.1	0.1	0.1
2/0	163	50	19.9	142	53	15.2	128	55	12.3	0.1	0.1	0.1
3/0	186	50	19.4	162	54	14.8	146	56	11.9	0.1	0.1	0.1
4/0	210	50	17.8	183	54	13.5	165	56	10.9	0.1	0.1	0.1
250	232	51	17.4	201	54	13.2	181	56	10.6	0.1	0.1	0.1
300	257	51	17.2	223	55	12.9	200	57	10.4	0.1	0.1	0.1
350	281	52	16.8	243	55	12.5	217	57	10.0	0.1	0.1	0.2
400	303	52	16.5	261	55	12.3	233	57	9.8	0.1	0.1	0.2
450	323	53	16.2	279	56	12.1	249	58	9.7	0.1	0.1	0.2
500	343	53	16.0	296	56	11.8	263	58	9.5	0.1	0.1	0.2
550	362	53	15.8	311	56	11.8	277	58	9.3	0.1	0.1	0.2
600	380	53	15.5	326	56	11.5	290	58	9.1	0.1	0.1	0.2
650	397	54	15.4	340	57	11.3	303	58	8.9	0.1	0.1	0.2
700	413	54	15.2	354	57	11.2	315	59	8.8	0.1	0.2	0.2
750	429	54	14.9	367	57	11.0	326	59	8.7	0.1	0.2	0.2
800	444	54	14.8	380	57	10.8	337	59	8.6	0.1	0.2	0.2
900	472	55	14.5	403	57	10.6	358	59	8.4	0.1	0.2	0.2
1000	494	54	13.7	423	57	10.0	375	59	7.9	0.1	0.2	0.2

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5 kV Belted Three Conductor Solid Paper 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 - Aluminum Conductor - Concentric Strand												
6	56	35	13.9	51	38	11.7	47	39	10.1	0.0	0.1	0.1
5	64	36	13.8	58	38	11.5	54	40	9.9	0.1	0.1	0.1
4	73	36	13.7	66	38	11.3	61	40	9.7	0.1	0.1	0.1
3	83	36	13.6	76	39	11.1	70	40	9.5	0.1	0.1	0.1
2	95	36	13.4	86	39	11.1	79	41	9.4	0.1	0.1	0.1
1	109	37	13.0	99	39	10.7	91	41	9.1	0.1	0.1	0.1
50°C - Aluminum Conductor - Compact Sector Strand												
1/0	127	38	15.3	114	40	12.3	104	42	10.2	0.1	0.1	0.1
2/0	146	38	15.2	130	41	12.2	119	42	10.1	0.1	0.1	0.1
3/0	167	39	14.9	149	41	11.9	136	43	9.9	0.1	0.1	0.1
4/0	190	39	13.8	169	41	10.9	154	43	9.1	0.1	0.1	0.1
250	210	39	13.6	186	41	10.7	169	43	8.9	0.1	0.1	0.1
300	233	39	13.4	207	42	10.5	188	43	8.8	0.1	0.1	0.1
350	256	40	13.2	226	42	10.4	205	43	8.5	0.1	0.1	0.2
400	276	40	13.1	244	42	10.3	221	44	8.4	0.1	0.1	0.2
450	296	40	12.9	261	42	10.0	236	44	8.2	0.1	0.1	0.2
500	315	40	12.8	277	43	9.9	250	44	8.1	0.1	0.1	0.2
550	332	40	12.7	292	43	9.8	264	44	8.0	0.1	0.1	0.2
600	350	41	12.6	307	43	9.6	277	44	7.9	0.1	0.1	0.2
650	366	41	12.4	320	43	9.5	289	44	7.8	0.1	0.1	0.2
700	381	41	12.3	334	43	9.5	301	44	7.7	0.1	0.2	0.2
750	396	41	12.2	347	43	9.4	312	45	7.6	0.1	0.2	0.2
800	411	41	12.1	359	43	9.3	323	45	7.5	0.1	0.2	0.2
900	438	41	12.0	382	44	9.1	344	45	7.4	0.1	0.2	0.2
1000	458	41	11.3	400	43	8.6	360	45	7.0	0.1	0.2	0.2

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5 kV Belted Three Conductor Solid Paper Lead Sheathed Power Cable

Direct Buried - Double 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 .0160 pf & Rho 60	90	120
					100% LF							
					50°C - Aluminum Conductor - Concentric Strand							
6	52	37	11.9	46	40	9.7	42	42	8.1	0.0	0.1	0.1
5	59	38	11.8	53	40	9.5	48	42	8.0	0.1	0.1	0.1
4	67	38	11.7	60	40	9.3	54	42	7.8	0.1	0.1	0.1
3	76	38	11.4	68	41	9.0	62	42	7.6	0.1	0.1	0.1
2	87	39	11.2	77	41	8.9	70	43	7.4	0.1	0.1	0.1
1	100	39	11.0	88	41	8.6	80	43	7.1	0.1	0.1	0.1
					50°C - Aluminum Conductor - Compact Sector Strand							
1/0	115	40	12.6	101	42	9.7	91	44	7.8	0.1	0.1	0.1
2/0	132	40	12.5	115	43	9.6	104	44	7.8	0.1	0.1	0.1
3/0	151	41	12.2	131	43	9.3	118	44	7.5	0.1	0.1	0.1
4/0	171	41	11.2	149	43	8.5	133	44	6.9	0.1	0.1	0.1
250	188	41	10.9	163	43	8.3	146	45	6.7	0.1	0.1	0.1
300	208	42	10.8	181	44	8.0	162	45	6.5	0.1	0.1	0.1
350	228	42	10.5	197	44	7.9	176	45	6.3	0.1	0.1	0.2
400	245	42	10.4	212	44	7.7	189	45	6.1	0.1	0.1	0.2
450	262	42	10.1	226	44	7.6	202	45	6.0	0.1	0.1	0.2
500	278	42	10.0	239	44	7.4	213	46	5.9	0.1	0.1	0.2
550	293	43	9.9	252	45	7.3	224	46	5.8	0.1	0.1	0.2
600	308	43	9.7	264	45	7.2	235	46	5.7	0.1	0.1	0.2
650	321	43	9.6	275	45	7.1	245	46	5.6	0.1	0.1	0.2
700	334	43	9.5	286	45	7.0	254	46	5.5	0.1	0.2	0.2
750	347	43	9.4	297	45	6.9	264	46	5.4	0.1	0.2	0.2
800	359	43	9.3	307	45	6.8	272	46	5.4	0.1	0.2	0.2
900	382	44	9.1	326	45	6.6	289	46	5.3	0.1	0.2	0.2
1000	399	43	8.6	341	45	6.3	303	46	5.0	0.1	0.2	0.2

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5 kV Belted Three Conductor Solid Paper 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						
6	50	52	37	43	0.1	0.1
5	57	60	42	49	0.1	0.1
4	66	68	49	56	0.1	0.1
3	77	80	56	64	0.1	0.1
2	88	91	64	73	0.1	0.1
1	102	105	74	84	0.1	0.1
90°C - Aluminum Conductor - Compact Sector Strand						
1/0	115	118	83	94	0.1	0.1
2/0	131	135	95	108	0.1	0.1
3/0	151	156	110	125	0.1	0.1
4/0	173	179	126	143	0.1	0.1
250	192	198	139	159	0.1	0.1
300	213	221	155	177	0.1	0.1
350	234	243	171	194	0.2	0.1
400	253	263	184	210	0.2	0.1
450	271	282	198	225	0.2	0.1
500	289	300	211	240	0.2	0.2
550	305	317	223	254	0.2	0.2
600	332	343	239	270	0.2	0.2
650	347	359	250	282	0.2	0.2
700	363	375	262	295	0.2	0.2
750	378	391	273	308	0.2	0.2
800	392	406	283	320	0.2	0.2
900	420	434	303	342	0.2	0.2
1000	444	460	320	362	0.2	0.2

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5 kV Belted Three Conductor Solid Paper 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						
6	58	71	48	64	0.1	0.0
5	66	81	55	73	0.1	0.0
4	76	93	63	84	0.1	0.0
3	88	107	72	96	0.1	0.1
2	101	122	83	110	0.1	0.1
1	117	141	95	126	0.1	0.1
90°C - Aluminum Conductor - Compact Sector Strand						
1/0	132	163	109	147	0.1	0.1
2/0	153	188	125	168	0.1	0.1
3/0	177	217	144	194	0.1	0.1
4/0	206	251	168	224	0.1	0.1
250	229	279	186	248	0.1	0.1
300	257	312	209	276	0.1	0.1
350	285	344	230	304	0.1	0.1
400	310	373	250	328	0.1	0.1
450	334	401	269	353	0.1	0.1
500	358	428	287	376	0.1	0.1
550	379	453	304	397	0.1	0.1
600	402	479	322	419	0.1	0.1
650	422	503	338	439	0.1	0.1
700	443	526	354	459	0.1	0.1
750	463	549	369	478	0.1	0.1
800	482	572	384	497	0.1	0.1
900	518	614	412	533	0.1	0.1
1000	554	654	439	566	0.1	0.1

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5 kV Belted Three Conductor Solid Paper 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						
6	48	52	41	48	0.1	0.1
5	55	60	47	54	0.1	0.1
4	63	68	53	62	0.1	0.1
3	77	82	65	72	0.1	0.1
2	88	94	74	83	0.1	0.1
1	101	108	85	95	0.1	0.1
90°C - Aluminum Conductor - Compact Sector Strand						
1/0	114	122	97	108	0.1	0.1
2/0	130	140	111	124	0.1	0.1
3/0	149	161	127	142	0.1	0.1
4/0	171	185	146	164	0.1	0.1
250	189	204	161	182	0.1	0.1
300	210	228	179	202	0.2	0.1
350	230	250	196	223	0.2	0.1
400	248	270	211	241	0.2	0.1
450	265	289	226	259	0.2	0.1
500	282	308	240	276	0.2	0.1
550	297	325	253	291	0.2	0.1
600	330	355	281	313	0.2	0.1
650	345	371	294	328	0.2	0.1
700	359	387	306	343	0.2	0.1
750	373	403	318	358	0.2	0.1
800	387	418	330	372	0.2	0.1
900	412	445	351	398	0.2	0.2
1000	432	468	369	420	0.2	0.2

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