35 kV Shielded Single Conductor Solid Type Paper Lead Sheathed Power Cable

in Underground Duct Bank - Triplexed - Single Circuit

25°C Earth Ambient

Condr Size	Sheath Res	60 Rho 75 LF	60 Rho 100 LF	90 Rho 75 LF	90 Rho 100 LF	120 Rho 75 LF	120 Rho 100 LF	delta Td for .0110 pf & Rho 60	delta Td for .0110 pf & Rho 90	delta Td for .0110 pf & Rho 120
		80°C - Copper Conductor - Compact Round Strand								
4/0	283	293	281	282	265	272	251	1.2	1.4	1.6
250	258	323	309	310	291	298	275	1.3	1.4	1.6
350	240	390	372	373	349	358	330	1.4	1.6	1.8
500	209	474	450	452	421	433	396	1.5	1.7	1.9
750	179	596	562	565	521	537	488	1.6	1.8	2.1
1000	156	683	641	644	592	612	552	1.7	2.0	2.3

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1910

35 kV Shielded Single Conductor Solid Type Paper Lead Sheathed Power Cable

in Underground Duct Bank - Triplexed - Three Circuits

25°C Earth Ambient

Condr Size	Sheath Res	60 Rho 75 LF	60 Rho 100 LF	90 Rho 75 LF	90 Rho 100 LF	120 Rho 75 LF	120 Rho 100 LF	delta Td for .0110 pf & Rho 60	90	120
		80°C - Copper Conductor - Compact Round Strand								
4/0	283	260	237	240	213	223	195	1.8	2.2	2.6
250	258	285	259	262	233	244	213	1.8	2.3	2.8
350	240	342	309	314	276	290	251	2.0	2.5	3.1
500	209	413	370	375	330	346	298	2.2	2.8	3.4
750	179	510	455	459	399	420	360	2.4	3.1	3.8
1000	156	578	511	517	448	472	402	2.7	3.4	4.2

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35 kV Shielded Single Conductor Solid Type Paper Lead Sheathed Power Cable

in Underground Duct Bank - Triplexed - Six Circuits

25°C Earth Ambient

Condr Size	Sheath Res	60 Rho 75 LF	60 Rho 100 LF	90 Rho 75 LF	90 Rho 100 LF	120 Rho 75 LF	120 Rho 100 LF	delta Td for .0110 pf & Rho 60	delta Td for .0110 pf & Rho 90	delta Td for .0110 pf & Rho 120
		80°C - Copper Conductor - Compact Round Strand								
4/0	283	224	196	198	169	179	150	2.6	3.5	4.4
250	258	245	213	216	184	194	163	2.7	3.7	4.6
350	240	291	253	255	217	229	191	3.0	4.1	5.2
500	209	347	300	303	256	270	225	3.4	4.6	5.8
750	179	423	362	365	306	324	267	3.8	5.2	6.6
1000	156	475	405	407	340	360	296	4.2	5.8	7.4

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1912

35 kV Shielded Single Conductor Solid Type Paper Lead Sheathed Power Cable in Underground Duct Bank - Triplexed - Nine Circuits

25°C Earth Ambient

Condr Size	Sheath Res	60 Rho 75 LF	60 Rho 100 LF	90 Rho 75 LF	90 Rho 100 LF	120 Rho 75 LF	120 Rho 100 LF	delta Td for .0110 pf & Rho 60	90	120
		80°C - Copper Conductor - Compact Round Strand								
4/0	283	200	171	175	147	157	129	3.4	4.6	5.8
250	258	218	186	190	159	170	140	3.6	4.9	6.1
350	240	259	220	224	186	199	164	4.0	5.4	6.8
500	209	307	259	264	220	233	192	4.4	6.1	7.7
750	179	371	311	315	261	278	226	5.0	6.9	8.8
1000	156	413	346	351	288	306	249	5.6	7.8	9.9

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35 kV Shielded Single Conductor Solid Type Paper Lead Sheathed Power Cable

in Underground Duct Bank - 1 Circuit - Three Cables - 7.5 in Spacing

25°C Earth Ambient

Condr Size	Sheath Res	60 Rho 75 LF	60 Rho 100 LF	90 Rho 75 LF	90 Rho 100 LF	120 Rho 75 LF	120 Rho 100 LF	delta Td for .0110 pf & Rho 60	delta Td for .0110 pf & Rho 90	delta Td for .0110 pf & Rho 120
		80°C - Copper Conductor - Compact Round Strand								
4/0	283	321	306	306	286	293	269	0.9	1.0	1.2
250	258	350	332	333	310	318	291	0.9	1.1	1.2
350	240	412	390	391	362	373	339	1.0	1.1	1.3
500	209	481	453	455	418	432	390	1.1	1.2	1.4
750	179	563	526	528	482	499	447	1.2	1.4	1.6
750	Open	711	666	672	615	638	574	1.2	1.4	1.7
1000	156	617	574	576	524	542	483	1.2	1.5	1.8
1000	Open	835	779	787	716	744	666	1.3	1.5	1.8
1250	146	658	611	613	555	576	511	1.3	1.6	1.9
1250	Open	939	873	882	800	832	742	1.4	1.6	1.9
		80°C - Copper Conductor - Concentric Strand								
1500	Open	1044	965	976	880	917	813	1.5	1.8	2.1
1750	Open	1121	1034	1044	940	981	867	1.6	1.9	2.3
2000	Open	1187	1093	1104	992	1035	913	1.6	2.0	2.4
		80°C - Copper Conductor - Compact Segmental Strand								
1000	149	633	588	590	535	555	493	1.3	1.6	1.8
1000	Open	870	810	818	743	773	689	1.3	1.6	1.9
1250	133	673	624	626	565	586	519	1.4	1.7	2.0
1250	Open	991	920	929	841	875	778	1.4	1.7	2.0
1500	Open	1101	1018	1029	928	967	857	1.5	1.8	2.1
1750	Open	1200	1107	1118	1007	1050	928	1.6	1.9	2.3
2000	Open	1288	1186	1197	1076	1122	990	1.6	2.0	2.4
2250	Open	1364	1254	1266	1136	1185	1044	1.7	2.1	2.5
2500	Open	1440	1321	1334	1194	1247	1096	1.7	2.1	2.5
2750	Open	1509	1383	1397	1248	1304	1144	1.8	2.2	2.6
3000	Open	1567	1434	1448	1292	1350	1183	1.8	2.3	2.7

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1914

35 kV Shielded Single Conductor Solid Type Paper Lead Sheathed Power Cable in Underground Duct Bank - 2 Circuits - Six Cables - 7.5 in Spacing

25°C Earth Ambient

Condr Size	Sheath Res	60 Rho 75 LF	60 Rho 100 LF	90 Rho 75 LF	90 Rho 100 LF	120 Rho 75 LF	120 Rho 100 LF	delta Td for .0110 pf & Rho 60	90	120
		80°C - Copper Conductor - Compact Round Strand								
4/0	283	297	272	275	245	256	225	1.2	1.5	1.8
250	258	324	295	298	265	278	243	1.2	1.6	1.9
350	240	382	347	351	310	325	282	1.3	1.7	2.0
500	209	449	404	409	359	377	325	1.5	1.9	2.3
750	179	529	472	478	416	438	375	1.6	2.1	2.6
750	Open	639	575	582	511	537	463	1.7	2.1	2.6
1000	156	585	518	524	453	479	407	1.8	2.3	2.9
1000	Open	746	668	676	590	621	533	1.8	2.3	2.9
1250	146	627	553	561	483	510	432	1.9	2.5	3.1
1250	Open	834	745	753	656	690	591	1.9	2.5	3.1
		80°C - Copper Conductor - Concentric Strand								
1500	Open	920	816	825	714	753	641	2.1	2.8	3.5
1750	Open	984	870	880	760	802	680	2.2	3.0	3.7
2000	Open	1039	917	928	799	843	714	2.3	3.1	3.9
		80°C - Copper Conductor - Compact Segmental Strand								
1000	149	600	530	537	463	489	415	1.9	2.4	3.0
1000	Open	774	692	700	610	642	550	1.9	2.5	3.0
1250	133	643	566	573	492	520	439	2.0	2.6	3.3
1250	Open	877	781	790	685	722	617	2.0	2.6	3.3
1500	Open	970	861	870	753	794	676	2.1	2.8	3.5
1750	Open	1054	932	943	814	858	728	2.2	3.0	3.7
2000	Open	1128	995	1007	867	915	774	2.3	3.1	3.9
2250	Open	1193	1050	1062	912	963	814	2.4	3.2	4.0
2500	Open	1257	1104	1117	957	1011	853	2.5	3.3	4.2
2750	Open	1315	1153	1166	998	1054	888	2.6	3.5	4.3
3000	Open	1364	1194	1206	1031	1089	918	2.7	3.6	4.5

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35 kV Shielded Single Conductor Solid Type Paper Lead Sheathed Power Cable

Direct Buried - Triplexed - Single Circuit

25°C Earth Ambient

Condr Size	Sheath Res	---- 60 Rho--- Interface Temp Amps	Flux °C w/ft²		---- 90 Rho--- Interface Temp Amps	Flux °C w/ft²		----120 Rho--- Interface Temp Amps	Flux °C w/ft²		delta Td for .0110 pf & Rho 60	90	120
						75% LF							
						80°C - Copper Conductor - Compact Round Strand							
4/0	283	382	53	45.7	343	58	37.0	315	61	31.1	0.7	1.0	1.2
250	258	422	53	45.6	378	59	36.9	346	62	30.9	0.7	1.0	1.3
350	240	512	55	46.0	456	60	36.8	416	63	30.7	0.8	1.1	1.4
500	209	621	56	44.3	552	61	35.2	502	64	29.1	0.9	1.2	1.5
750	179	771	58	44.5	680	63	34.8	616	66	28.6	1.0	1.3	1.7
1000	156	888	59	44.4	779	64	34.4	703	67	28.2	1.0	1.4	1.9
1250	146	980	61	44.3	857	65	34.1	771	68	27.8	1.1	1.5	2.0
						80°C - Copper Conductor - Concentric Strand							
1500	120	1048	62	43.6	911	67	33.2	817	69	26.9	1.2	1.7	2.2
1750	114	1104	63	43.5	957	67	32.9	856	70	26.5	1.3	1.8	2.3
2000	105	1138	63	42.0	986	68	31.7	883	70	25.6	1.3	1.9	2.4
						80°C - Copper Conductor - Compact Segmental Strand							
1000	149	923	60	44.2	808	65	34.0	728	68	27.8	1.1	1.5	1.9
1250	133	1027	62	44.2	895	66	33.8	804	69	27.4	1.2	1.6	2.1
1500	120	1112	63	44.0	965	67	33.4	865	70	27.0	1.2	1.7	2.2
1750	114	1186	64	44.0	1026	68	33.2	918	70	26.6	1.3	1.8	2.3
2000	105	1232	64	42.6	1066	68	32.0	953	70	25.8	1.3	1.9	2.4
2250	100	1280	65	42.5	1105	69	31.9	986	71	25.5	1.4	1.9	2.5
2500	93	1318	65	42.4	1135	69	31.7	1011	71	25.3	1.4	2.0	2.6
2750	90	1356	66	42.3	1165	70	31.5	1038	72	25.1	1.5	2.0	2.6
3000	84	1378	67	42.1	1182	70	31.2	1051	72	24.9	1.5	2.1	2.7

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1916

35 kV Shielded Single Conductor Solid Type Paper Lead Sheathed Power Cable

Direct Buried - Triplexed - Single Circuit

25°C Earth Ambient

Condr Size	Sheath Res	60 Rho Interface Temp Amps	60 Rho Interface Temp °C	60 Rho Interface Flux w/ft²	90 Rho Interface Temp Amps	90 Rho Interface Temp °C	90 Rho Interface Flux w/ft²	120 Rho Interface Temp Amps	120 Rho Interface Temp °C	120 Rho Interface Flux w/ft²	delta Td for .0110 pf & Rho 60	90	120
						100% LF							
						80°C - Copper Conductor - Compact Round Strand							
4/0	283	354	56	39.2	312	62	30.6	282	65	25.1	0.7	1.0	1.2
250	258	390	57	39.1	342	62	30.3	309	66	24.9	0.7	1.0	1.3
350	240	470	59	39.1	411	64	30.0	369	67	24.3	0.8	1.1	1.4
500	209	568	60	37.2	494	65	28.3	443	68	22.8	0.9	1.2	1.5
750	179	699	62	36.7	604	66	27.6	538	69	22.1	1.0	1.3	1.7
1000	156	799	63	36.2	686	68	26.8	610	70	21.4	1.0	1.4	1.9
1250	146	877	65	35.7	750	69	26.3	665	71	20.9	1.1	1.5	2.0
						80°C - Copper Conductor - Concentric Strand							
1500	120	930	66	34.6	790	70	25.2	698	72	19.9	1.2	1.7	2.2
1750	114	975	67	34.2	827	71	24.7	729	73	19.4	1.3	1.8	2.3
2000	105	1002	67	32.7	849	71	23.7	748	73	18.6	1.3	1.9	2.4
						80°C - Copper Conductor - Compact Segmental Strand							
1000	149	828	64	35.8	709	68	26.4	629	71	21.0	1.1	1.5	1.9
1250	133	916	65	35.3	781	69	25.9	691	72	20.4	1.2	1.6	2.1
1500	120	986	66	34.8	837	70	25.4	739	72	19.9	1.2	1.7	2.2
1750	114	1046	67	34.4	886	71	24.9	780	73	19.5	1.3	1.8	2.3
2000	105	1083	68	33.1	916	71	23.9	806	73	18.7	1.3	1.9	2.4
2250	100	1122	68	32.8	946	72	23.6	832	74	18.4	1.4	1.9	2.5
2500	93	1150	69	32.4	968	72	23.2	850	74	18.1	1.4	2.0	2.6
2750	90	1179	69	32.2	991	72	23.0	869	74	17.9	1.5	2.0	2.6
3000	84	1194	70	31.9	1002	73	22.7	878	75	17.6	1.5	2.1	2.7

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35 kV Shielded Single Conductor Solid Type Paper Lead Sheathed Power Cable

Direct Buried - Triplexed - Single Circuit

25°C Earth Ambient

Condr Size	Sheath Res	---- 60 Rho--- Interface Temp	Flux	Amps	---- 90 Rho--- Interface Temp	Flux	Amps	----120 Rho--- Interface Temp	Flux	Amps	delta Td for .0110 pf & Rho 60	90	120
		°C	w/ft²		°C	w/ft²		°C	w/ft²				
						75% LF							
						70°C - Copper Conductor - Compact Round Strand							
4/0	283	351	48	37.4	315	52	30.3	288	55	25.4	0.7	1.0	1.2
250	258	387	48	37.4	346	53	30.2	317	55	25.3	0.7	1.0	1.3
350	240	469	49	37.8	418	54	30.2	381	56	25.2	0.8	1.1	1.4
500	209	568	50	36.2	505	54	28.7	459	57	23.9	0.9	1.2	1.5
750	179	705	52	36.4	621	56	28.5	562	59	23.5	1.0	1.3	1.7
1000	156	810	53	36.4	710	57	28.2	640	60	23.1	1.0	1.4	1.9
1250	146	892	54	36.4	779	58	27.9	700	60	22.7	1.1	1.5	2.0
						70°C - Copper Conductor - Concentric Strand							
1500	120	952	56	35.8	826	59	27.2	740	61	22.0	1.2	1.7	2.2
1750	114	1001	56	35.6	866	60	26.9	774	62	21.7	1.3	1.8	2.3
2000	105	1031	57	34.4	892	60	26.0	797	62	20.9	1.3	1.9	2.4
						70°C - Copper Conductor - Compact Segmental Strand							
1000	149	843	54	36.3	737	58	27.9	663	60	22.8	1.1	1.5	1.9
1250	133	936	55	36.2	815	59	27.7	731	61	22.4	1.2	1.6	2.1
1500	120	1012	56	36.2	877	60	27.4	785	62	22.1	1.2	1.7	2.2
1750	114	1078	57	36.1	931	60	27.2	832	62	21.8	1.3	1.8	2.3
2000	105	1118	57	34.9	965	60	26.3	861	62	21.1	1.3	1.9	2.4
2250	100	1160	58	34.8	999	61	26.0	891	63	20.9	1.4	1.9	2.5
2500	93	1193	58	34.7	1025	61	25.9	912	63	20.7	1.4	2.0	2.6
2750	90	1226	59	34.7	1052	62	25.8	935	63	20.5	1.5	2.0	2.6
3000	84	1244	59	34.6	1065	62	25.6	946	64	20.3	1.5	2.1	2.7

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1918

35 kV Shielded Single Conductor Solid Type Paper Lead Sheathed Power Cable

Direct Buried - Triplexed - Single Circuit

25°C Earth Ambient

Condr Size	Sheath Res	60 Rho Interface Temp	60 Rho Flux	60 Rho Amps	90 Rho Interface Temp	90 Rho Flux	90 Rho Amps	120 Rho Interface Temp	120 Rho Flux	120 Rho Amps	delta Td for .0110 pf & Rho 60	90	120
		°C	w/ft²		°C	w/ft²		°C	w/ft²				
100% LF													
70°C - Copper Conductor - Compact Round Strand													
4/0	283	325	51	32.3	286	55	25.1	258	58	20.6	0.7	1.0	1.2
250	258	357	51	32.0	314	56	24.9	283	58	20.3	0.7	1.0	1.3
350	240	431	53	32.1	376	57	24.6	338	59	20.0	0.8	1.1	1.4
500	209	520	54	30.4	452	58	23.2	405	60	18.7	0.9	1.2	1.5
750	179	639	55	30.1	551	59	22.5	491	61	18.1	1.0	1.3	1.7
1000	156	729	57	29.6	625	60	22.0	555	62	17.5	1.0	1.4	1.9
1250	146	799	57	29.2	682	61	21.6	604	63	17.1	1.1	1.5	2.0
70°C - Copper Conductor - Concentric Strand													
1500	120	844	59	28.4	717	62	20.6	632	64	16.3	1.2	1.7	2.2
1750	114	884	59	28.0	748	62	20.3	659	64	15.9	1.3	1.8	2.3
2000	105	907	60	26.9	768	63	19.5	675	64	15.2	1.3	1.9	2.4
70°C - Copper Conductor - Compact Segmental Strand													
1000	149	756	57	29.3	647	61	21.7	573	63	17.1	1.1	1.5	1.9
1250	133	834	58	28.9	710	61	21.2	628	63	16.7	1.2	1.6	2.1
1500	120	897	59	28.6	760	62	20.8	670	64	16.3	1.2	1.7	2.2
1750	114	950	60	28.3	803	63	20.5	707	64	16.0	1.3	1.8	2.3
2000	105	982	60	27.2	829	63	19.6	729	65	15.4	1.3	1.9	2.4
2250	100	1016	61	26.9	856	63	19.4	751	65	15.1	1.4	1.9	2.5
2500	93	1040	61	26.7	874	64	19.0	766	65	14.8	1.4	2.0	2.6
2750	90	1066	61	26.5	894	64	18.8	783	65	14.7	1.5	2.0	2.6
3000	84	1078	62	26.2	903	64	18.6	790	66	14.4	1.5	2.1	2.7

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35 kV Shielded Single Conductor Solid Type Paper Lead Sheathed Power Cable

Direct Buried - Triplexed - Single Circuit

25°C Earth Ambient

Condr Size	Sheath Res	60 Rho Interface Temp	60 Rho Flux	60 Rho Amps	90 Rho Interface Temp	90 Rho Flux	90 Rho Amps	120 Rho Interface Temp	120 Rho Flux	120 Rho Amps	delta Td for .0110 pf & Rho 60	90	120
		°C	w/ft²	Amps	°C	w/ft²	Amps	°C	w/ft²	Amps			
						75% LF							
						65°C - Copper Conductor - Compact Round Strand							
4/0	283	333	45	33.2	299	49	26.9	274	52	22.7	0.7	1.0	1.2
250	258	367	46	33.3	329	50	26.9	300	52	22.5	0.7	1.0	1.3
350	240	445	47	33.5	396	51	26.8	361	53	22.4	0.8	1.1	1.4
500	209	539	48	32.3	479	51	25.6	435	54	21.2	0.9	1.2	1.5
750	179	668	49	32.4	588	53	25.3	532	55	20.9	1.0	1.3	1.7
1000	156	766	50	32.4	671	54	25.1	605	56	20.4	1.0	1.4	1.9
1250	146	843	51	32.4	736	54	24.8	661	57	20.2	1.1	1.5	2.0
						65°C - Copper Conductor - Concentric Strand							
1500	120	899	52	31.9	779	56	24.1	697	57	19.5	1.2	1.7	2.2
1750	114	945	53	31.7	817	56	23.9	730	58	19.2	1.3	1.8	2.3
2000	105	972	53	30.7	840	56	23.1	750	58	18.6	1.3	1.9	2.4
						65°C - Copper Conductor - Compact Segmental Strand							
1000	149	798	51	32.2	698	54	24.8	627	56	20.2	1.1	1.5	1.9
1250	133	886	52	32.3	770	55	24.6	690	57	19.9	1.2	1.6	2.1
1500	120	956	53	32.2	828	56	24.3	741	58	19.6	1.2	1.7	2.2
1750	114	1018	53	32.1	879	56	24.2	784	58	19.4	1.3	1.8	2.3
2000	105	1055	54	31.1	910	57	23.4	811	58	18.8	1.3	1.9	2.4
2250	100	1094	54	31.1	941	57	23.2	838	59	18.6	1.4	1.9	2.5
2500	93	1124	55	30.9	965	57	23.0	858	59	18.4	1.4	2.0	2.6
2750	90	1155	55	30.8	989	58	22.9	879	59	18.2	1.5	2.0	2.6
3000	84	1172	55	30.7	1002	58	22.7	889	60	18.0	1.5	2.1	2.7

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1920

35 kV Shielded Single Conductor Solid Type Paper Lead Sheathed Power Cable

Direct Buried - Triplexed - Single Circuit

25°C Earth Ambient

Condr Size	Sheath Res	60 Rho Amps	60 Rho Interface Temp °C	60 Rho Flux w/ft²	90 Rho Amps	90 Rho Interface Temp °C	90 Rho Flux w/ft²	120 Rho Amps	120 Rho Interface Temp °C	120 Rho Flux w/ft²	delta Td for .0110 pf & Rho 60	90	120
						100% LF							
						65°C - Copper Conductor - Compact Round Strand							
4/0	283	308	48	28.7	271	52	22.4	245	54	18.3	0.7	1.0	1.2
250	258	339	49	28.6	298	52	22.0	268	55	18.1	0.7	1.0	1.3
350	240	409	50	28.5	357	53	21.9	320	56	17.8	0.8	1.1	1.4
500	209	493	50	27.0	428	54	20.7	383	56	16.6	0.9	1.2	1.5
750	179	605	52	26.7	522	55	20.1	465	57	16.1	1.0	1.3	1.7
1000	156	690	53	26.4	591	56	19.6	524	58	15.5	1.0	1.4	1.9
1250	146	755	54	26.1	644	57	19.2	570	59	15.2	1.1	1.5	2.0
						65°C - Copper Conductor - Concentric Strand							
1500	120	797	55	25.3	676	58	18.4	596	60	14.5	1.2	1.7	2.2
1750	114	835	56	24.9	706	58	18.0	621	60	14.1	1.3	1.8	2.3
2000	105	855	56	23.9	723	59	17.3	635	60	13.6	1.3	1.9	2.4
						65°C - Copper Conductor - Compact Segmental Strand							
1000	149	716	54	26.1	612	57	19.3	542	59	15.3	1.1	1.5	1.9
1250	133	789	55	25.8	671	57	18.9	593	59	14.9	1.2	1.6	2.1
1500	120	847	55	25.5	718	58	18.5	632	60	14.5	1.2	1.7	2.2
1750	114	897	56	25.2	758	59	18.2	666	60	14.2	1.3	1.8	2.3
2000	105	927	56	24.2	782	59	17.4	686	60	13.7	1.3	1.9	2.4
2250	100	958	57	24.0	806	59	17.3	707	60	13.5	1.4	1.9	2.5
2500	93	980	57	23.7	823	59	17.0	721	61	13.2	1.4	2.0	2.6
2750	90	1004	58	23.5	841	60	16.8	736	61	13.0	1.5	2.0	2.6
3000	84	1015	58	23.3	849	60	16.5	741	61	12.9	1.5	2.1	2.7

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35 kV Shielded Single Conductor Solid Type Paper Lead Sheathed Power Cable

Direct Buried - Triplexed - Single Circuit

25°C Earth Ambient

Condr Size	Sheath Res	---- 60 Rho--- Interface Temp	Flux		---- 90 Rho--- Interface Temp	Flux		----120 Rho--- Interface Temp	Flux		delta Td for .0110 pf & Rho 60	90	120
		Amps	°C	w/ft²	Amps	°C	w/ft²	Amps	°C	w/ft²			
						75% LF							
						50°C - Copper Conductor - Compact Round Strand							
4/0	283	268	38	20.7	240	40	16.9	220	42	14.1	0.7	1.0	1.2
250	258	296	38	20.8	264	41	16.7	241	42	14.1	0.7	1.0	1.3
350	240	358	39	21.0	318	41	16.8	289	43	14.0	0.8	1.1	1.4
500	209	433	39	20.2	383	42	15.9	347	43	13.3	0.9	1.2	1.5
750	179	534	40	20.4	469	43	15.8	423	44	12.9	1.0	1.3	1.7
1000	156	611	41	20.3	533	43	15.6	478	45	12.8	1.0	1.4	1.9
1250	146	670	42	20.3	582	44	15.5	521	45	12.6	1.1	1.5	2.0
						50°C - Copper Conductor - Concentric Strand							
1500	120	710	42	20.0	613	44	15.1	546	46	12.1	1.2	1.7	2.2
1750	114	745	43	19.8	641	45	15.0	570	46	12.0	1.3	1.8	2.3
2000	105	765	43	19.2	657	45	14.4	584	46	11.6	1.3	1.9	2.4
						50°C - Copper Conductor - Compact Segmental Strand							
1000	149	637	41	20.2	554	44	15.5	496	45	12.6	1.1	1.5	1.9
1250	133	705	42	20.2	610	44	15.4	544	45	12.4	1.2	1.6	2.1
1500	120	759	43	20.2	654	45	15.2	582	46	12.2	1.2	1.7	2.2
1750	114	805	43	20.1	691	45	15.0	614	46	12.1	1.3	1.8	2.3
2000	105	832	43	19.5	714	45	14.5	633	46	11.6	1.3	1.9	2.4
2250	100	861	43	19.5	737	45	14.5	653	46	11.5	1.4	1.9	2.5
2500	93	883	44	19.4	753	46	14.4	666	47	11.4	1.4	2.0	2.6
2750	90	905	44	19.3	771	46	14.3	681	47	11.3	1.5	2.0	2.6
3000	84	917	44	19.2	779	46	14.1	687	47	11.2	1.5	2.1	2.7

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1922

35 kV Shielded Single Conductor Solid Type Paper Lead Sheathed Power Cable

Direct Buried - Triplexed - Single Circuit

25°C Earth Ambient

Condr Size	Sheath Res	60 Rho Amps	60 Rho Interface Temp °C	60 Rho Flux w/ft²	90 Rho Amps	90 Rho Interface Temp °C	90 Rho Flux w/ft²	120 Rho Amps	120 Rho Interface Temp °C	120 Rho Flux w/ft²	delta Td for .0110 pf & Rho 60	90	120
						100% LF							
						50°C - Copper Conductor - Compact Round Strand							
4/0	283	249	40	18.0	218	42	13.9	197	43	11.5	0.7	1.0	1.2
250	258	273	40	17.8	239	42	13.9	215	44	11.3	0.7	1.0	1.3
350	240	329	41	17.9	287	43	13.7	256	44	11.2	0.8	1.1	1.4
500	209	396	41	17.0	343	43	12.9	306	45	10.4	0.9	1.2	1.5
750	179	484	42	16.8	416	44	12.6	369	45	10.1	1.0	1.3	1.7
1000	156	549	43	16.5	469	45	12.3	415	46	9.8	1.0	1.4	1.9
1250	146	599	43	16.4	509	45	12.1	449	46	9.5	1.1	1.5	2.0
						50°C - Copper Conductor - Concentric Strand							
1500	120	630	44	15.9	532	46	11.6	466	47	9.1	1.2	1.7	2.2
1750	114	658	44	15.7	554	46	11.3	485	47	8.9	1.3	1.8	2.3
2000	105	672	45	15.0	565	46	10.9	494	47	8.5	1.3	1.9	2.4
						50°C - Copper Conductor - Compact Segmental Strand							
1000	149	571	43	16.4	486	45	12.1	429	46	9.6	1.1	1.5	1.9
1250	133	627	44	16.2	531	46	11.9	467	47	9.3	1.2	1.6	2.1
1500	120	672	44	16.0	566	46	11.6	496	47	9.1	1.2	1.7	2.2
1750	114	709	45	15.9	596	46	11.4	521	47	9.0	1.3	1.8	2.3
2000	105	730	45	15.2	613	46	11.0	535	47	8.6	1.3	1.9	2.4
2250	100	753	45	15.0	630	47	10.8	550	47	8.5	1.4	1.9	2.5
2500	93	769	45	14.9	642	47	10.6	559	48	8.3	1.4	2.0	2.6
2750	90	786	46	14.8	655	47	10.5	570	48	8.2	1.5	2.0	2.6
3000	84	793	46	14.7	660	47	10.4	573	48	8.1	1.5	2.1	2.7

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35 kV Shielded Single Conductor Solid Type Paper Lead Sheathed Power Cable

Direct Buried - Triplexed - Double Circuit

25°C Earth Ambient

Condr Size	Sheath Res	60 Rho Amps	60 Rho Interface Temp °C	60 Rho Flux w/ft²	90 Rho Amps	90 Rho Interface Temp °C	90 Rho Flux w/ft²	120 Rho Amps	120 Rho Interface Temp °C	120 Rho Flux w/ft²	delta Td for .0110 pf & Rho 60	90	120
						75% LF							
						80°C - Copper Conductor - Compact Round Strand							
4/0	283	344	58	37.1	303	63	29.0	274	66	23.7	1.0	1.4	1.8
250	258	378	59	37.0	332	63	28.6	299	67	23.4	1.0	1.4	1.8
350	240	456	60	36.8	398	65	28.2	358	68	23.0	1.1	1.6	2.0
500	209	549	61	34.8	478	66	26.5	428	69	21.5	1.2	1.8	2.3
750	179	674	63	34.2	582	67	25.7	519	70	20.6	1.4	2.0	2.6
1000	156	769	65	33.5	660	69	25.0	587	71	19.9	1.5	2.2	2.8
1250	146	842	66	33.0	721	70	24.3	639	72	19.3	1.6	2.3	3.0
						80°C - Copper Conductor - Concentric Strand							
1500	120	890	67	31.7	757	71	23.2	668	73	18.3	1.8	2.6	3.4
1750	114	932	68	31.3	790	71	22.7	697	73	17.9	1.9	2.8	3.6
2000	105	957	68	29.9	810	72	21.7	714	74	17.0	2.0	2.9	3.8
						80°C - Copper Conductor - Compact Segmental Strand							
1000	149	796	65	33.0	682	69	24.5	605	72	19.4	1.6	2.3	3.0
1250	133	878	67	32.5	749	70	23.8	662	72	18.8	1.7	2.5	3.2
1500	120	943	68	31.9	801	71	23.3	707	73	18.4	1.8	2.6	3.4
1750	114	1000	68	31.5	847	72	22.8	746	74	17.9	1.9	2.8	3.6
2000	105	1033	69	30.2	874	72	21.8	770	74	17.2	2.0	2.9	3.8
2250	100	1069	69	29.8	902	72	21.5	793	74	16.8	2.1	3.0	3.9
2500	93	1094	70	29.5	922	73	21.2	809	75	16.5	2.2	3.1	4.1
2750	90	1121	70	29.2	943	73	20.9	826	75	16.3	2.2	3.2	4.2
3000	84	1134	71	28.8	952	74	20.6	833	75	15.9	2.3	3.3	4.4

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1924

35 kV Shielded Single Conductor Solid Type Paper Lead Sheathed Power Cable

Direct Buried - Triplexed - Double Circuit

25°C Earth Ambient

Condr Size	Sheath Res	60 Rho Amps	60 Rho Interface Temp °C	60 Rho Flux w/ft²	90 Rho Amps	90 Rho Interface Temp °C	90 Rho Flux w/ft²	120 Rho Amps	120 Rho Interface Temp °C	120 Rho Flux w/ft²	delta Td for .0110 pf & Rho 60	90	120
						100% LF							
						80°C - Copper Conductor - Compact Round Strand							
4/0	283	308	62	30.0	266	67	22.4	237	69	18.0	1.0	1.4	1.8
250	258	338	63	29.5	291	67	22.0	259	70	17.7	1.0	1.4	1.8
350	240	405	64	29.1	347	68	21.5	307	71	17.1	1.1	1.6	2.0
500	209	485	65	27.3	413	69	20.0	365	72	15.8	1.2	1.8	2.3
750	179	589	67	26.3	499	71	19.1	440	73	15.0	1.4	2.0	2.6
1000	156	667	68	25.4	562	72	18.3	494	74	14.3	1.5	2.2	2.8
1250	146	728	69	24.8	611	73	17.7	535	74	13.7	1.6	2.3	3.0
						80°C - Copper Conductor - Concentric Strand							
1500	120	762	71	23.5	636	74	16.7	556	75	12.9	1.8	2.6	3.4
1750	114	795	71	22.9	662	74	16.2	577	75	12.5	1.9	2.8	3.6
2000	105	814	72	21.8	677	74	15.4	590	76	11.9	2.0	2.9	3.8
						80°C - Copper Conductor - Compact Segmental Strand							
1000	149	688	69	24.9	579	72	17.9	507	74	13.9	1.6	2.3	3.0
1250	133	755	70	24.2	632	73	17.2	553	75	13.4	1.7	2.5	3.2
1500	120	807	71	23.6	673	74	16.7	588	75	12.9	1.8	2.6	3.4
1750	114	852	72	23.1	709	74	16.2	618	76	12.5	1.9	2.8	3.6
2000	105	878	72	22.0	730	74	15.5	635	76	11.9	2.0	2.9	3.8
2250	100	905	72	21.6	751	75	15.1	653	76	11.7	2.1	3.0	3.9
2500	93	923	73	21.3	765	75	14.8	664	76	11.4	2.2	3.1	4.1
2750	90	944	73	20.9	780	75	14.6	677	77	11.2	2.2	3.2	4.2
3000	84	952	74	20.6	786	76	14.3	681	77	10.9	2.3	3.3	4.4

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35 kV Shielded Single Conductor Solid Type Paper Lead Sheathed Power Cable

Direct Buried - Triplexed - Double Circuit

25°C Earth Ambient

Condr Size	Sheath Res	60 Rho Amps	60 Rho Interface Temp °C	60 Rho Flux w/ft²	90 Rho Amps	90 Rho Interface Temp °C	90 Rho Flux w/ft²	120 Rho Amps	120 Rho Interface Temp °C	120 Rho Flux w/ft²	delta Td for .0110 pf & Rho 60	90	120
						75% LF							
						70°C - Copper Conductor - Compact Round Strand							
4/0	283	316	52	30.5	278	56	23.7	250	59	19.4	1.0	1.4	1.8
250	258	347	53	30.3	304	57	23.4	274	59	19.1	1.0	1.4	1.8
350	240	418	54	30.2	364	58	23.1	327	60	18.7	1.1	1.6	2.0
500	209	502	55	28.5	436	58	21.6	391	61	17.5	1.2	1.8	2.3
750	179	615	56	27.9	531	60	21.0	473	62	16.8	1.4	2.0	2.6
1000	156	700	58	27.4	600	61	20.4	533	63	16.2	1.5	2.2	2.8
1250	146	766	58	27.0	654	62	19.9	579	63	15.7	1.6	2.3	3.0
						70°C - Copper Conductor - Concentric Strand							
1500	120	807	60	25.9	685	63	18.9	603	64	14.9	1.8	2.6	3.4
1750	114	844	60	25.6	714	63	18.6	628	65	14.5	1.9	2.8	3.6
2000	105	865	61	24.5	731	63	17.8	643	65	13.9	2.0	2.9	3.8
						70°C - Copper Conductor - Compact Segmental Strand							
1000	149	726	58	27.0	620	61	20.0	549	63	15.9	1.6	2.3	3.0
1250	133	799	59	26.6	680	62	19.5	600	64	15.4	1.7	2.5	3.2
1500	120	857	60	26.1	726	63	19.0	640	64	15.0	1.8	2.6	3.4
1750	114	907	61	25.8	766	63	18.7	674	65	14.6	1.9	2.8	3.6
2000	105	936	61	24.7	790	64	17.8	693	65	13.9	2.0	2.9	3.8
2250	100	966	61	24.4	814	64	17.6	714	65	13.7	2.1	3.0	3.9
2500	93	988	62	24.1	830	64	17.3	727	66	13.5	2.2	3.1	4.1
2750	90	1011	62	23.8	848	65	17.0	742	66	13.3	2.2	3.2	4.2
3000	84	1022	63	23.6	855	65	16.8	747	66	13.0	2.3	3.3	4.4

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1926

35 kV Shielded Single Conductor Solid Type Paper Lead Sheathed Power Cable

Direct Buried - Triplexed - Double Circuit

25°C Earth Ambient

Condr Size	Sheath Res	60 Rho Amps	60 Rho Interface Temp °C	60 Rho Flux w/ft²	90 Rho Amps	90 Rho Interface Temp °C	90 Rho Flux w/ft²	120 Rho Amps	120 Rho Interface Temp °C	120 Rho Flux w/ft²	delta Td for .0110 pf & Rho 60	90	120
						100% LF							
						70°C - Copper Conductor - Compact Round Strand							
4/0	283	283	56	24.5	244	59	18.3	217	61	14.7	1.0	1.4	1.8
250	258	310	56	24.2	266	60	18.1	237	62	14.4	1.0	1.4	1.8
350	240	371	57	23.8	317	61	17.7	281	63	14.0	1.1	1.6	2.0
500	209	443	58	22.3	378	61	16.3	334	63	12.9	1.2	1.8	2.3
750	179	538	60	21.6	455	63	15.6	400	64	12.2	1.4	2.0	2.6
1000	156	608	61	20.9	512	63	15.0	448	65	11.6	1.5	2.2	2.8
1250	146	661	61	20.3	554	64	14.6	485	65	11.3	1.6	2.3	3.0
						70°C - Copper Conductor - Concentric Strand							
1500	120	691	63	19.2	576	65	13.6	502	66	10.5	1.8	2.6	3.4
1750	114	719	63	18.8	598	65	13.2	520	66	10.2	1.9	2.8	3.6
2000	105	735	63	17.9	611	65	12.6	531	66	9.8	2.0	2.9	3.8
						70°C - Copper Conductor - Compact Segmental Strand							
1000	149	628	61	20.4	527	64	14.7	461	65	11.4	1.6	2.3	3.0
1250	133	687	62	19.9	574	64	14.1	501	66	11.0	1.7	2.5	3.2
1500	120	733	63	19.3	610	65	13.6	532	66	10.6	1.8	2.6	3.4
1750	114	772	63	18.9	641	65	13.3	558	67	10.3	1.9	2.8	3.6
2000	105	794	64	18.1	659	66	12.7	572	67	9.8	2.0	2.9	3.8
2250	100	818	64	17.7	677	66	12.4	587	67	9.5	2.1	3.0	3.9
2500	93	833	64	17.5	688	66	12.1	597	67	9.4	2.2	3.1	4.1
2750	90	851	65	17.1	702	66	12.0	607	67	9.2	2.2	3.2	4.2
3000	84	857	65	16.8	706	67	11.7	610	67	9.0	2.3	3.3	4.4

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35 kV Shielded Single Conductor Solid Type Paper Lead Sheathed Power Cable

Direct Buried - Triplexed - Double Circuit

25°C Earth Ambient

Condr Size	Sheath Res	---- 60 Rho--- Interface Temp	Flux		---- 90 Rho--- Interface Temp	Flux		----120 Rho--- Interface Temp	Flux		delta Td for .0110 pf & Rho 60	90	120
		Amps	°C	w/ft²	Amps	°C	w/ft²	Amps	°C	w/ft²			
					75% LF								
					65°C - Copper Conductor - Compact Round Strand								
4/0	283	300	49	27.1	263	53	21.1	237	55	17.2	1.0	1.4	1.8
250	258	329	50	26.9	288	53	20.8	260	55	17.0	1.0	1.4	1.8
350	240	396	51	26.8	345	54	20.4	310	56	16.6	1.1	1.6	2.0
500	209	476	51	25.3	413	55	19.2	370	57	15.6	1.2	1.8	2.3
750	179	583	53	24.8	502	56	18.7	447	58	14.9	1.4	2.0	2.6
1000	156	662	54	24.4	567	57	18.1	503	59	14.4	1.5	2.2	2.8
1250	146	723	55	24.0	617	58	17.7	545	59	13.9	1.6	2.3	3.0
					65°C - Copper Conductor - Concentric Strand								
1500	120	761	56	23.1	645	59	16.9	568	60	13.3	1.8	2.6	3.4
1750	114	796	57	22.7	672	59	16.5	590	60	12.9	1.9	2.8	3.6
2000	105	814	57	21.8	687	59	15.7	603	60	12.3	2.0	2.9	3.8
					65°C - Copper Conductor - Compact Segmental Strand								
1000	149	686	55	24.0	586	57	17.8	519	59	14.0	1.6	2.3	3.0
1250	133	755	55	23.7	642	58	17.3	566	60	13.6	1.7	2.5	3.2
1500	120	809	56	23.3	685	59	16.9	602	60	13.3	1.8	2.6	3.4
1750	114	855	57	22.9	722	59	16.6	633	61	13.0	1.9	2.8	3.6
2000	105	882	57	22.0	743	59	15.9	651	61	12.4	2.0	2.9	3.8
2250	100	910	57	21.7	765	60	15.6	670	61	12.2	2.1	3.0	3.9
2500	93	930	58	21.4	780	60	15.3	682	61	11.9	2.2	3.1	4.1
2750	90	951	58	21.2	796	60	15.1	695	61	11.7	2.2	3.2	4.2
3000	84	960	59	20.9	802	61	14.9	699	62	11.5	2.3	3.3	4.4

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1928

35 kV Shielded Single Conductor Solid Type Paper Lead Sheathed Power Cable

Direct Buried - Triplexed - Double Circuit

25°C Earth Ambient

Condr Size	Sheath Res	60 Rho Amps	60 Rho Interface Temp °C	60 Rho Flux w/ft²	90 Rho Amps	90 Rho Interface Temp °C	90 Rho Flux w/ft²	120 Rho Amps	120 Rho Interface Temp °C	120 Rho Flux w/ft²	delta Td for .0110 pf & Rho 60	90	120
						100% LF							
						65°C - Copper Conductor - Compact Round Strand							
4/0	283	268	52	21.9	231	55	16.4	206	57	13.1	1.0	1.4	1.8
250	258	294	53	21.6	252	56	16.1	224	58	12.8	1.0	1.4	1.8
350	240	352	54	21.2	300	57	15.7	266	59	12.5	1.1	1.6	2.0
500	209	420	54	19.9	357	57	14.6	316	59	11.5	1.2	1.8	2.3
750	179	509	56	19.2	430	58	13.9	378	60	10.9	1.4	2.0	2.6
1000	156	575	57	18.5	483	59	13.3	423	61	10.4	1.5	2.2	2.8
1250	146	625	57	18.1	523	60	12.9	457	61	10.1	1.6	2.3	3.0
						65°C - Copper Conductor - Concentric Strand							
1500	120	652	58	17.1	542	60	12.1	472	62	9.4	1.8	2.6	3.4
1750	114	678	59	16.8	563	61	11.8	489	62	9.2	1.9	2.8	3.6
2000	105	692	59	16.0	574	61	11.2	498	62	8.7	2.0	2.9	3.8
						65°C - Copper Conductor - Compact Segmental Strand							
1000	149	594	57	18.2	498	60	13.0	435	61	10.1	1.6	2.3	3.0
1250	133	649	58	17.7	542	60	12.6	472	61	9.8	1.7	2.5	3.2
1500	120	692	59	17.2	575	61	12.2	501	62	9.4	1.8	2.6	3.4
1750	114	728	59	16.9	604	61	11.9	524	62	9.2	1.9	2.8	3.6
2000	105	748	59	16.1	620	61	11.3	538	62	8.7	2.0	2.9	3.8
2250	100	770	60	15.8	636	61	11.1	551	62	8.5	2.1	3.0	3.9
2500	93	784	60	15.5	647	62	10.8	559	62	8.3	2.2	3.1	4.1
2750	90	800	60	15.3	658	62	10.6	569	63	8.2	2.2	3.2	4.2
3000	84	805	61	15.0	662	62	10.4	571	63	8.0	2.3	3.3	4.4

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35 kV Shielded Single Conductor Solid Type Paper Lead Sheathed Power Cable

Direct Buried - Triplexed - Double Circuit

25°C Earth Ambient

Condr Size	Sheath Res	60 Rho Amps	60 Rho Interface Temp °C	60 Rho Flux w/ft²	90 Rho Amps	90 Rho Interface Temp °C	90 Rho Flux w/ft²	120 Rho Amps	120 Rho Interface Temp °C	120 Rho Flux w/ft²	delta Td for .0110 pf & Rho 60	90	120
						75% LF							
						50°C - Copper Conductor - Compact Round Strand							
4/0	283	241	40	16.9	211	42	13.1	190	44	10.7	1.0	1.4	1.8
250	258	265	41	16.9	231	43	13.0	207	44	10.6	1.0	1.4	1.8
350	240	318	41	16.8	276	43	12.8	247	45	10.3	1.1	1.6	2.0
500	209	381	42	15.8	329	44	12.0	293	45	9.6	1.2	1.8	2.3
750	179	464	43	15.6	398	45	11.6	352	46	9.2	1.4	2.0	2.6
1000	156	525	43	15.2	447	45	11.2	394	46	8.9	1.5	2.2	2.8
1250	146	572	44	15.0	484	46	11.0	425	47	8.6	1.6	2.3	3.0
						50°C - Copper Conductor - Concentric Strand							
1500	120	598	45	14.4	503	46	10.4	439	47	8.1	1.8	2.6	3.4
1750	114	624	45	14.1	523	46	10.1	455	47	8.0	1.9	2.8	3.6
2000	105	636	45	13.5	532	47	9.8	463	47	7.6	2.0	2.9	3.8
						50°C - Copper Conductor - Compact Segmental Strand							
1000	149	545	44	15.0	462	46	11.1	407	47	8.7	1.6	2.3	3.0
1250	133	597	44	14.8	504	46	10.7	441	47	8.4	1.7	2.5	3.2
1500	120	638	45	14.5	536	46	10.5	468	47	8.1	1.8	2.6	3.4
1750	114	672	45	14.3	563	47	10.2	490	47	8.0	1.9	2.8	3.6
2000	105	690	45	13.7	577	47	9.8	502	48	7.6	2.0	2.9	3.8
2250	100	711	46	13.6	592	47	9.6	514	48	7.5	2.1	3.0	3.9
2500	93	725	46	13.3	602	47	9.4	521	48	7.3	2.2	3.1	4.1
2750	90	740	46	13.2	613	47	9.3	530	48	7.2	2.2	3.2	4.2
3000	84	745	46	13.0	616	47	9.2	532	48	7.0	2.3	3.3	4.4

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1930

35 kV Shielded Single Conductor Solid Type Paper Lead Sheathed Power Cable

Direct Buried - Triplexed - Double Circuit

25°C Earth Ambient

Condr Size	Sheath Res	60 Rho Amps	60 Rho Interface Temp °C	60 Rho Flux w/ft²	90 Rho Amps	90 Rho Interface Temp °C	90 Rho Flux w/ft²	120 Rho Amps	120 Rho Interface Temp °C	120 Rho Flux w/ft²	delta Td for .0110 pf & Rho 60	90	120
						100% LF							
						50°C - Copper Conductor - Compact Round Strand							
4/0	283	216	42	13.6	185	44	10.2	164	45	8.3	1.0	1.4	1.8
250	258	236	42	13.6	202	44	10.2	179	46	8.0	1.0	1.4	1.8
350	240	282	43	13.4	240	45	9.9	212	46	7.8	1.1	1.6	2.0
500	209	336	44	12.5	285	45	9.1	250	46	7.2	1.2	1.8	2.3
750	179	406	44	12.0	341	46	8.8	298	47	6.8	1.4	2.0	2.6
1000	156	456	45	11.6	381	47	8.3	331	47	6.5	1.5	2.2	2.8
1250	146	493	45	11.3	410	47	8.1	356	48	6.3	1.6	2.3	3.0
						50°C - Copper Conductor - Concentric Strand							
1500	120	512	46	10.8	423	47	7.6	365	48	5.9	1.8	2.6	3.4
1750	114	532	46	10.5	438	48	7.4	377	48	5.7	1.9	2.8	3.6
2000	105	541	46	10.0	445	48	7.1	383	48	5.4	2.0	2.9	3.8
						50°C - Copper Conductor - Compact Segmental Strand							
1000	149	471	45	11.4	393	47	8.2	341	48	6.4	1.6	2.3	3.0
1250	133	513	46	11.1	425	47	7.9	368	48	6.1	1.7	2.5	3.2
1500	120	545	46	10.8	450	47	7.7	388	48	5.9	1.8	2.6	3.4
1750	114	572	47	10.6	471	48	7.4	405	48	5.7	1.9	2.8	3.6
2000	105	586	47	10.1	481	48	7.1	414	48	5.4	2.0	2.9	3.8
2250	100	601	47	9.9	493	48	6.9	423	48	5.3	2.1	3.0	3.9
2500	93	611	47	9.8	499	48	6.7	428	49	5.2	2.2	3.1	4.1
2750	90	622	47	9.6	507	48	6.6	434	49	5.1	2.2	3.2	4.2
3000	84	625	47	9.4	509	48	6.5	434	49	5.0	2.3	3.3	4.4

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35 kV Shielded Single Conductor Solid Type Paper Lead Sheathed Power Cable

Direct Buried - 1 Circuit - Three Cables - Spaced

25°C Earth Ambient

Condr Size	Sheath Res	60 Rho Amps	60 Rho Interface Temp °C	60 Rho Flux w/ft²	90 Rho Amps	90 Rho Interface Temp °C	90 Rho Flux w/ft²	120 Rho Amps	120 Rho Interface Temp °C	120 Rho Flux w/ft²	delta Td for .0110 pf & Rho 60	90	120
						75% LF							
						80°C - Copper Conductor - Compact Round Strand							
4/0	283	403	49	32.4	366	55	26.8	337	58	22.6	0.6	0.8	0.9
250	258	442	50	33.2	399	56	27.3	367	60	23.1	0.6	0.8	1.0
350	240	528	53	35.0	474	58	28.3	433	62	23.6	0.7	0.9	1.1
500	209	619	54	35.1	552	60	28.0	503	63	23.2	0.7	0.9	1.1
750	179	734	58	37.1	646	63	28.9	584	66	23.8	0.8	1.0	1.3
750	Open	875	52	26.8	785	58	21.7	718	61	18.3	0.8	1.1	1.4
1000	156	811	60	38.4	708	65	29.2	636	68	23.8	0.8	1.1	1.4
1000	Open	1029	54	26.4	918	59	21.1	837	63	17.6	0.9	1.2	1.5
1250	146	870	62	38.8	755	66	29.3	676	69	23.6	0.9	1.2	1.5
1250	Open	1158	55	26.1	1029	60	20.8	936	63	17.3	0.9	1.3	1.6
						80°C - Copper Conductor - Concentric Strand							
1500	Open	1286	56	25.5	1136	62	20.0	1028	65	16.5	1.0	1.4	1.8
1750	Open	1381	57	25.2	1217	62	19.7	1099	66	16.1	1.1	1.5	1.9
2000	Open	1453	57	24.0	1281	62	18.7	1157	66	15.4	1.1	1.6	2.0
						80°C - Copper Conductor - Compact Segmental Strand							
1000	149	833	61	38.2	725	66	29.0	650	68	23.5	0.9	1.2	1.5
1000	Open	1073	54	26.2	955	60	20.9	869	63	17.4	0.9	1.2	1.6
1250	133	892	63	38.7	771	67	29.0	689	70	23.3	0.9	1.2	1.6
1250	Open	1222	55	25.8	1083	61	20.5	982	64	16.8	1.0	1.3	1.7
1500	Open	1356	56	25.5	1199	62	20.0	1085	65	16.5	1.0	1.4	1.8
1750	Open	1478	57	25.2	1303	62	19.7	1177	66	16.1	1.1	1.5	1.9

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1932

35 kV Shielded Single Conductor Solid Type Paper Lead Sheathed Power Cable

Direct Buried - 1 Circuit - Three Cables - Spaced

25°C Earth Ambient

Condr Size	Sheath Res	60 Rho Amps	60 Rho Interface Temp °C	60 Rho Flux w/ft²	90 Rho Amps	90 Rho Interface Temp °C	90 Rho Flux w/ft²	120 Rho Amps	120 Rho Interface Temp °C	120 Rho Flux w/ft²	delta Td for .0110 pf & Rho 60	90	120
						100% LF							
						80°C - Copper Conductor - Compact Round Strand							
4/0	283	370	54	27.3	329	60	21.6	299	63	17.7	0.6	0.8	0.9
250	258	403	55	27.8	357	61	21.8	323	64	17.9	0.6	0.8	1.0
350	240	478	58	28.7	420	63	22.2	378	66	18.2	0.7	0.9	1.1
500	209	558	60	28.7	486	65	21.8	436	68	17.6	0.7	0.9	1.1
750	179	656	63	29.9	566	67	22.3	504	70	17.7	0.8	1.0	1.3
750	Open	793	57	22.1	696	62	17.1	627	66	13.9	0.8	1.1	1.4
1000	156	719	65	30.1	615	69	22.2	546	72	17.6	0.8	1.1	1.4
1000	Open	926	59	21.5	809	64	16.5	727	67	13.4	0.9	1.2	1.5
1250	146	767	66	30.1	653	70	22.0	578	72	17.3	0.9	1.2	1.5
1250	Open	1037	60	21.1	903	65	16.1	809	68	13.0	0.9	1.3	1.6
						80°C - Copper Conductor - Concentric Strand							
1500	Open	1143	61	20.3	989	66	15.3	883	69	12.3	1.0	1.4	1.8
1750	Open	1224	62	19.8	1056	67	15.0	941	69	11.9	1.1	1.5	1.9
2000	Open	1287	62	18.9	1110	67	14.2	989	69	11.3	1.1	1.6	2.0
						80°C - Copper Conductor - Compact Segmental Strand							
1000	149	736	66	29.9	628	70	21.8	557	72	17.2	0.9	1.2	1.5
1000	Open	963	59	21.3	838	64	16.2	752	67	13.2	0.9	1.2	1.6
1250	133	782	67	30.0	664	71	21.7	586	73	17.0	0.9	1.2	1.6
1250	Open	1091	60	20.8	947	65	15.7	847	68	12.7	1.0	1.3	1.7
1500	Open	1206	61	20.3	1043	66	15.3	931	69	12.3	1.0	1.4	1.8
1750	Open	1310	62	20.0	1131	67	15.0	1007	69	11.9	1.1	1.5	1.9

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35 kV Shielded Single Conductor Solid Type Paper Lead Sheathed Power Cable

Direct Buried - 1 Circuit - Three Cables - Spaced

25°C Earth Ambient

Condr Size	Sheath Res	60 Rho Interface Temp	60 Rho Flux	60 Rho Amps	90 Rho Interface Temp	90 Rho Flux	90 Rho Amps	120 Rho Interface Temp	120 Rho Flux	120 Rho Amps	delta Td for .0110 pf & Rho 60	90	120
		°C	w/ft²	Amps	°C	w/ft²	Amps	°C	w/ft²	Amps			
75% LF													
70°C - Copper Conductor - Compact Round Strand													
4/0	283	45	26.8	369	49	22.1	308	53	18.8		0.6	0.8	0.9
250	258	46	27.5	404	50	22.6	335	54	19.1		0.6	0.8	1.0
350	240	48	29.2	482	52	23.3	394	55	19.6		0.7	0.9	1.1
500	209	49	29.1	562	54	23.2	456	57	19.2		0.7	0.9	1.1
750	179	52	30.8	662	56	24.0	526	59	19.6		0.8	1.0	1.3
750	Open	47	21.9	802	52	17.7	658	55	14.8		0.8	1.1	1.4
1000	156	54	31.9	729	58	24.3	570	60	19.5		0.8	1.1	1.4
1000	Open	48	21.7	942	53	17.3	766	56	14.4		0.9	1.2	1.5
1250	146	56	32.1	781	59	24.3	604	61	19.5		0.9	1.2	1.5
1250	Open	49	21.5	1059	54	17.0	855	57	14.1		0.9	1.3	1.6
70°C - Copper Conductor - Concentric Strand													
1500	Open	51	20.9	1175	55	16.4	938	58	13.5		1.0	1.4	1.8
1750	Open	51	20.6	1261	56	16.1	1002	58	13.2		1.1	1.5	1.9
2000	Open	51	19.6	1326	56	15.2	1053	58	12.5		1.1	1.6	2.0
70°C - Copper Conductor - Compact Segmental Strand													
1000	149	55	31.6	749	59	24.0	583	61	19.3		0.9	1.2	1.5
1000	Open	49	21.4	984	54	17.1	795	56	14.2		0.9	1.2	1.6
1250	133	57	32.2	800	60	24.1	615	62	19.2		0.9	1.2	1.6
1250	Open	50	21.1	1120	54	16.6	899	57	13.8		1.0	1.3	1.7
1500	Open	51	20.9	1243	55	16.4	992	58	13.5		1.0	1.4	1.8
1750	Open	51	20.7	1354	56	16.1	1076	58	13.2		1.1	1.5	1.9

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1934

35 kV Shielded Single Conductor Solid Type Paper Lead Sheathed Power Cable

Direct Buried - 1 Circuit - Three Cables - Spaced

25°C Earth Ambient

Condr Size	Sheath Res	60 Rho Interface Amps	60 Rho Interface Temp °C	60 Rho Flux w/ft²	90 Rho Interface Amps	90 Rho Interface Temp °C	90 Rho Flux w/ft²	120 Rho Interface Amps	120 Rho Interface Temp °C	120 Rho Flux w/ft²	delta Td for .0110 pf & Rho 60	90	120
						100% LF							
						70°C - Copper Conductor - Compact Round Strand							
4/0	283	338	49	22.4	300	53	17.7	272	56	14.7	0.6	0.8	0.9
250	258	368	50	23.1	325	54	18.1	295	57	14.9	0.6	0.8	1.0
350	240	436	52	23.8	382	56	18.4	344	59	14.9	0.7	0.9	1.1
500	209	507	54	23.8	441	58	18.0	395	60	14.6	0.7	0.9	1.1
750	179	592	56	24.7	510	60	18.5	454	62	14.6	0.8	1.0	1.3
750	Open	726	51	18.1	638	56	14.1	574	58	11.4	0.8	1.1	1.4
1000	156	646	58	25.0	552	61	18.3	489	63	14.4	0.8	1.1	1.4
1000	Open	848	53	17.6	741	57	13.6	665	59	10.9	0.9	1.2	1.5
1250	146	687	59	25.0	584	62	18.1	516	64	14.3	0.9	1.2	1.5
1250	Open	949	53	17.3	825	57	13.1	739	60	10.6	0.9	1.3	1.6
						70°C - Copper Conductor - Concentric Strand							
1500	Open	1045	55	16.5	903	59	12.5	806	61	10.1	1.0	1.4	1.8
1750	Open	1117	55	16.3	963	59	12.2	858	61	9.8	1.1	1.5	1.9
2000	Open	1174	55	15.5	1011	59	11.6	900	61	9.3	1.1	1.6	2.0
						70°C - Copper Conductor - Compact Segmental Strand							
1000	149	661	59	24.7	563	62	18.1	499	64	14.2	0.9	1.2	1.5
1000	Open	883	53	17.4	768	57	13.3	688	60	10.8	0.9	1.2	1.6
1250	133	700	60	24.7	593	63	17.9	523	64	14.0	0.9	1.2	1.6
1250	Open	1000	54	17.0	867	58	12.8	775	60	10.3	1.0	1.3	1.7
1500	Open	1105	55	16.5	955	59	12.5	852	61	10.1	1.0	1.4	1.8
1750	Open	1200	55	16.3	1035	59	12.2	921	61	9.8	1.1	1.5	1.9

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35 kV Shielded Single Conductor Solid Type Paper Lead Sheathed Power Cable

Direct Buried - 1 Circuit - Three Cables - Spaced

25°C Earth Ambient

Condr Size	Sheath Res	60 Rho Amps	60 Rho Interface Temp °C	60 Rho Flux w/ft²	90 Rho Amps	90 Rho Interface Temp °C	90 Rho Flux w/ft²	120 Rho Amps	120 Rho Interface Temp °C	120 Rho Flux w/ft²	delta Td for .0110 pf & Rho 60	90	120
						75% LF							
						65°C - Copper Conductor - Compact Round Strand							
4/0	283	350	43	23.9	317	47	19.8	292	50	16.7	0.6	0.8	0.9
250	258	383	44	24.6	345	48	20.1	317	50	17.1	0.6	0.8	1.0
350	240	456	45	26.1	408	49	21.0	372	52	17.5	0.6	0.9	1.1
500	209	531	47	26.1	472	51	20.7	429	53	17.2	0.7	0.9	1.1
750	179	624	49	27.6	548	53	21.5	494	55	17.5	0.8	1.0	1.3
750	Open	761	45	19.4	683	49	15.8	624	52	13.1	0.8	1.1	1.4
1000	156	685	51	28.5	596	55	21.7	535	57	17.4	0.8	1.1	1.4
1000	Open	894	46	19.2	797	50	15.3	726	52	12.8	0.9	1.2	1.5
1250	146	732	52	28.8	633	56	21.6	566	57	17.3	0.9	1.2	1.5
1250	Open	1004	47	19.1	892	51	15.1	809	53	12.5	0.9	1.3	1.6
						65°C - Copper Conductor - Concentric Strand							
1500	Open	1113	48	18.5	982	52	14.6	888	54	12.0	1.0	1.4	1.8
1750	Open	1195	48	18.3	1051	52	14.2	949	55	11.6	1.1	1.5	1.9
2000	Open	1255	49	17.4	1104	52	13.6	995	55	11.2	1.1	1.6	2.0
						65°C - Copper Conductor - Compact Segmental Strand							
1000	149	704	52	28.4	611	55	21.4	546	57	17.2	0.9	1.2	1.5
1000	Open	934	47	19.1	830	50	15.2	754	53	12.7	0.9	1.2	1.6
1250	133	750	53	28.7	646	56	21.4	576	58	17.1	0.9	1.2	1.6
1250	Open	1063	47	18.9	941	51	14.9	853	54	12.2	1.0	1.3	1.7
1500	Open	1179	48	18.5	1040	52	14.6	940	54	12.0	1.0	1.4	1.8
1750	Open	1284	49	18.4	1130	52	14.4	1019	55	11.8	1.1	1.5	1.9

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1936

35 kV Shielded Single Conductor Solid Type Paper Lead Sheathed Power Cable

Direct Buried - 1 Circuit - Three Cables - Spaced

25°C Earth Ambient

Condr Size	Sheath Res	60 Rho Amps	60 Rho Interface Temp °C	60 Rho Flux w/ft²	90 Rho Amps	90 Rho Interface Temp °C	90 Rho Flux w/ft²	120 Rho Amps	120 Rho Interface Temp °C	120 Rho Flux w/ft²	delta Td for .0110 pf & Rho 60	90	120
						100% LF							
						65°C - Copper Conductor - Compact Round Strand							
4/0	283	320	46	20.1	284	50	15.9	258	53	13.1	0.6	0.8	0.9
250	258	349	47	20.6	308	51	16.1	279	54	13.1	0.6	0.8	1.0
350	240	412	49	21.5	361	53	16.6	324	55	13.3	0.6	0.9	1.1
500	209	478	51	21.3	416	54	16.1	372	56	13.0	0.7	0.9	1.1
750	179	557	53	22.1	479	56	16.5	426	58	13.1	0.8	1.0	1.3
750	Open	689	49	16.0	605	52	12.4	545	55	10.1	0.8	1.1	1.4
1000	156	606	54	22.4	518	57	16.4	458	59	13.0	0.8	1.1	1.4
1000	Open	805	50	15.7	702	53	12.0	630	56	9.7	0.9	1.2	1.5
1250	146	644	55	22.3	547	58	16.3	483	60	12.8	0.9	1.2	1.5
1250	Open	900	50	15.5	782	54	11.6	700	56	9.5	0.9	1.3	1.6
						65°C - Copper Conductor - Concentric Strand							
1500	Open	990	52	14.7	855	55	11.1	762	57	8.9	1.0	1.4	1.8
1750	Open	1059	52	14.5	912	55	10.9	812	57	8.8	1.1	1.5	1.9
2000	Open	1111	52	13.8	956	55	10.3	851	57	8.2	1.1	1.6	2.0
						65°C - Copper Conductor - Compact Segmental Strand							
1000	149	620	55	22.1	528	58	16.2	467	59	12.7	0.9	1.2	1.5
1000	Open	838	50	15.5	729	54	11.8	653	56	9.6	0.9	1.2	1.6
1250	133	656	56	22.2	556	59	16.0	490	60	12.5	0.9	1.2	1.6
1250	Open	949	51	15.1	823	54	11.4	735	57	9.2	1.0	1.3	1.7
1500	Open	1048	52	14.7	906	55	11.1	807	57	8.9	1.0	1.4	1.8
1750	Open	1138	52	14.5	981	55	10.9	872	57	8.8	1.1	1.5	1.9

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35 kV Shielded Single Conductor Solid Type Paper Lead Sheathed Power Cable

Direct Buried - 1 Circuit - Three Cables - Spaced

25°C Earth Ambient

Condr Size	Sheath Res	60 Rho Amps	60 Rho Interface Temp °C	60 Rho Flux w/ft²	90 Rho Amps	90 Rho Interface Temp °C	90 Rho Flux w/ft²	120 Rho Amps	120 Rho Interface Temp °C	120 Rho Flux w/ft²	delta Td for .0110 pf & Rho 60	90	120
						75% LF							
						50°C - Copper Conductor - Compact Round Strand							
4/0	283	280	36	15.2	253	39	12.6	233	41	10.5	0.6	0.8	0.9
250	258	306	37	15.9	275	40	12.9	252	41	10.9	0.6	0.8	1.0
350	240	363	38	16.8	324	41	13.3	295	42	11.2	0.6	0.9	1.1
500	209	419	39	16.7	372	41	13.2	337	43	10.9	0.7	0.9	1.1
750	179	488	41	17.7	427	43	13.7	384	44	11.0	0.8	1.0	1.3
750	Open	613	38	12.2	548	40	9.9	500	42	8.2	0.8	1.1	1.4
1000	156	533	42	18.1	462	44	13.7	413	45	11.1	0.8	1.1	1.4
1000	Open	718	38	12.0	638	41	9.7	580	42	7.9	0.9	1.2	1.5
1250	146	567	43	18.3	488	44	13.6	435	46	11.0	0.9	1.2	1.5
1250	Open	805	39	12.0	713	41	9.5	645	43	7.8	0.9	1.3	1.6
						50°C - Copper Conductor - Concentric Strand							
1500	Open	890	40	11.6	783	42	9.0	705	43	7.4	1.0	1.4	1.8
1750	Open	954	40	11.5	836	42	8.9	752	44	7.3	1.1	1.5	1.9
2000	Open	1000	40	10.9	876	42	8.5	787	44	6.9	1.1	1.6	2.0
						50°C - Copper Conductor - Compact Segmental Strand							
1000	149	548	42	18.1	473	44	13.5	422	45	10.8	0.9	1.2	1.5
1000	Open	752	39	12.0	666	41	9.5	604	43	7.8	0.9	1.2	1.6
1250	133	581	43	18.2	498	45	13.5	442	46	10.8	0.9	1.2	1.6
1250	Open	855	39	11.7	755	42	9.2	681	43	7.6	1.0	1.3	1.7
1500	Open	947	40	11.6	833	42	9.0	750	43	7.5	1.0	1.4	1.8
1750	Open	1031	40	11.5	904	42	8.9	812	44	7.3	1.1	1.5	1.9

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1938

35 kV Shielded Single Conductor Solid Type Paper Lead Sheathed Power Cable

Direct Buried - 1 Circuit - Three Cables - Spaced

25°C Earth Ambient

Condr Size	Sheath Res	60 Rho Amps	60 Rho Interface Temp °C	60 Rho Flux w/ft²	90 Rho Amps	90 Rho Interface Temp °C	90 Rho Flux w/ft²	120 Rho Amps	120 Rho Interface Temp °C	120 Rho Flux w/ft²	delta Td for .0110 pf & Rho 60	90	120
						100% LF							
						50°C - Copper Conductor - Compact Round Strand							
4/0	283	257	39	12.9	227	41	10.0	206	43	8.2	0.6	0.8	0.9
250	258	279	39	13.1	245	42	10.2	222	43	8.4	0.6	0.8	1.0
350	240	328	40	13.8	286	43	10.5	257	44	8.6	0.6	0.9	1.1
500	209	378	41	13.6	327	44	10.3	292	45	8.4	0.7	0.9	1.1
750	179	435	43	14.1	373	45	10.5	331	46	8.4	0.8	1.0	1.3
750	Open	555	40	10.1	486	42	7.8	436	44	6.3	0.8	1.1	1.4
1000	156	471	44	14.3	400	45	10.4	353	47	8.3	0.8	1.1	1.4
1000	Open	646	41	9.9	562	43	7.6	503	44	6.2	0.9	1.2	1.5
1250	146	498	44	14.1	421	46	10.3	370	47	8.0	0.9	1.2	1.5
1250	Open	721	41	9.6	625	43	7.3	558	45	6.0	0.9	1.3	1.6
						50°C - Copper Conductor - Concentric Strand							
1500	Open	791	42	9.3	682	44	6.9	606	45	5.6	1.0	1.4	1.8
1750	Open	845	42	9.1	726	44	6.8	644	45	5.5	1.1	1.5	1.9
2000	Open	885	42	8.6	759	44	6.5	673	45	5.1	1.1	1.6	2.0
						50°C - Copper Conductor - Compact Segmental Strand							
1000	149	482	44	14.0	409	46	10.3	360	47	8.1	0.9	1.2	1.5
1000	Open	674	41	9.6	585	43	7.4	523	45	5.9	0.9	1.2	1.6
1250	133	507	45	14.1	428	46	10.1	375	47	7.9	0.9	1.2	1.6
1250	Open	763	41	9.5	660	44	7.1	587	45	5.7	1.0	1.3	1.7
1500	Open	842	42	9.3	725	44	6.9	644	45	5.6	1.0	1.4	1.8
1750	Open	914	42	9.1	784	44	6.9	695	45	5.5	1.1	1.5	1.9

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35 kV Shielded Single Conductor Solid Type Paper Lead Sheathed Power Cable

Direct Buried - 2 Circuits - Six Cables - Spaced

25°C Earth Ambient

Condr Size	Sheath Res	60 Rho Amps	60 Rho Interface Temp °C	60 Rho Flux w/ft²	90 Rho Amps	90 Rho Interface Temp °C	90 Rho Flux w/ft²	120 Rho Amps	120 Rho Interface Temp °C	120 Rho Flux w/ft²	delta Td for .0110 pf & Rho 60	90	120
						75% LF							
						80°C - Copper Conductor - Compact Round Strand							
4/0	283	382	52	29.3	343	57	23.7	313	61	19.8	0.7	0.9	1.1
250	258	416	53	29.8	372	59	23.8	339	62	19.8	0.7	0.9	1.2
350	240	493	56	31.1	437	61	24.5	396	64	20.1	0.8	1.0	1.3
500	209	573	58	30.5	503	63	23.8	454	66	19.5	0.8	1.1	1.4
750	179	670	61	32.0	583	66	24.2	522	69	19.4	0.9	1.3	1.6
750	Open	829	55	24.0	735	60	19.0	667	64	15.8	0.9	1.3	1.7
1000	156	735	64	32.4	634	68	24.3	564	70	19.4	1.0	1.4	1.8
1000	Open	971	57	23.6	856	62	18.5	774	65	15.1	1.0	1.4	1.8
1250	146	784	65	32.6	671	69	24.0	597	71	19.1	1.1	1.5	1.9
1250	Open	1089	58	23.3	957	63	18.0	863	66	14.8	1.1	1.5	2.0
						80°C - Copper Conductor - Concentric Strand							
1500	Open	1204	59	22.4	1052	64	17.3	944	67	14.0	1.2	1.7	2.2
1750	Open	1290	60	22.1	1124	65	16.8	1007	68	13.7	1.3	1.8	2.3
2000	Open	1356	60	20.9	1181	65	16.1	1059	68	12.9	1.4	1.9	2.5
						80°C - Copper Conductor - Compact Segmental Strand							
1000	149	752	64	32.1	647	69	23.8	575	71	18.9	1.1	1.5	1.9
1000	Open	1010	57	23.3	888	62	18.1	802	66	14.9	1.1	1.5	1.9
1250	133	800	66	32.3	685	70	23.8	605	72	18.7	1.1	1.6	2.1
1250	Open	1147	58	22.8	1005	63	17.6	905	67	14.4	1.2	1.6	2.1
1500	Open	1270	59	22.4	1109	64	17.3	996	67	14.0	1.2	1.7	2.2
1750	Open	1381	60	22.1	1203	65	16.8	1078	68	13.7	1.3	1.8	2.3

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1940

35 kV Shielded Single Conductor Solid Type Paper Lead Sheathed Power Cable

Direct Buried - 2 Circuits - Six Cables - Spaced

25°C Earth Ambient

Condr Size	Sheath Res	60 Rho Amps	60 Rho Interface Temp °C	60 Rho Flux w/ft²	90 Rho Amps	90 Rho Interface Temp °C	90 Rho Flux w/ft²	120 Rho Amps	120 Rho Interface Temp °C	120 Rho Flux w/ft²	delta Td for .0110 pf & Rho 60	90	120
						100% LF							
						80°C - Copper Conductor - Compact Round Strand							
4/0	283	345	57	23.9	304	62	18.5	274	66	15.2	0.7	0.9	1.1
250	258	375	58	24.3	328	63	18.6	295	67	15.1	0.7	0.9	1.2
350	240	440	61	24.7	382	65	18.7	342	68	15.2	0.8	1.0	1.3
500	209	507	63	24.1	437	67	18.0	389	70	14.4	0.8	1.1	1.4
750	179	587	66	24.5	500	70	17.9	443	72	14.1	0.9	1.3	1.6
750	Open	738	60	19.2	641	65	14.6	574	68	11.8	0.9	1.3	1.7
1000	156	637	68	24.5	541	71	17.8	480	73	14.1	1.0	1.4	1.8
1000	Open	859	62	18.7	744	66	14.1	663	69	11.3	1.0	1.4	1.8
1250	146	676	69	24.3	574	72	17.6	501	74	13.5	1.1	1.5	1.9
1250	Open	960	63	18.1	827	67	13.6	735	70	10.8	1.1	1.5	2.0
						80°C - Copper Conductor - Concentric Strand							
1500	Open	1054	64	17.3	902	68	12.8	800	71	10.1	1.2	1.7	2.2
1750	Open	1125	65	17.0	961	69	12.5	851	71	9.9	1.3	1.8	2.3
2000	Open	1182	65	16.1	1009	69	11.7	893	71	9.3	1.4	1.9	2.5
						80°C - Copper Conductor - Compact Segmental Strand							
1000	149	650	68	24.1	549	72	17.4	483	74	13.5	1.1	1.5	1.9
1000	Open	891	62	18.2	768	67	13.7	684	70	11.0	1.1	1.5	1.9
1250	133	687	70	23.9	583	73	17.4	506	74	13.2	1.1	1.6	2.1
1250	Open	1008	63	17.8	865	68	13.2	768	70	10.5	1.2	1.6	2.1
1500	Open	1111	64	17.3	951	68	12.8	843	71	10.2	1.2	1.7	2.2
1750	Open	1204	65	17.0	1029	69	12.5	911	71	9.9	1.3	1.8	2.3

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35 kV Shielded Single Conductor Solid Type Paper Lead Sheathed Power Cable

Direct Buried - 2 Circuits - Six Cables - Spaced

25°C Earth Ambient

Condr Size	Sheath Res	60 Rho Amps	60 Rho Interface Temp °C	60 Rho Flux w/ft²	90 Rho Amps	90 Rho Interface Temp °C	90 Rho Flux w/ft²	120 Rho Amps	120 Rho Interface Temp °C	120 Rho Flux w/ft²	delta Td for .0110 pf & Rho 60	90	120
						75% LF							
						70°C - Copper Conductor - Compact Round Strand							
4/0	283	349	47	24.2	313	52	19.5	286	55	16.2	0.7	0.9	1.1
250	258	380	48	24.6	339	53	19.6	309	56	16.4	0.7	0.9	1.2
350	240	448	50	25.7	397	55	20.1	359	57	16.6	0.8	1.0	1.3
500	209	519	52	25.3	455	56	19.7	410	59	16.1	0.8	1.1	1.4
750	179	604	55	26.4	524	59	20.0	469	61	16.2	0.9	1.3	1.6
750	Open	759	50	19.6	673	54	15.6	610	57	12.9	0.9	1.3	1.7
1000	156	660	57	26.9	568	60	20.1	504	62	15.8	1.0	1.4	1.8
1000	Open	888	51	19.4	783	55	15.1	708	58	12.3	1.0	1.4	1.8
1250	146	702	58	27.0	600	61	19.8	533	63	15.8	1.1	1.5	1.9
1250	Open	996	52	19.0	874	56	14.8	788	59	12.0	1.1	1.5	2.0
						70°C - Copper Conductor - Concentric Strand							
1500	Open	1099	53	18.3	959	57	14.1	861	60	11.4	1.2	1.7	2.2
1750	Open	1177	54	18.1	1024	58	13.8	917	60	11.1	1.3	1.8	2.3
2000	Open	1236	54	17.1	1076	58	13.1	963	60	10.5	1.4	1.9	2.5
						70°C - Copper Conductor - Compact Segmental Strand							
1000	149	675	58	26.7	579	61	19.6	514	63	15.5	1.1	1.5	1.9
1000	Open	926	52	19.1	814	56	14.9	734	58	12.2	1.1	1.5	1.9
1250	133	716	59	26.8	612	62	19.7	541	64	15.4	1.1	1.6	2.1
1250	Open	1051	52	18.7	920	57	14.4	827	59	11.7	1.2	1.6	2.1
1500	Open	1163	53	18.3	1015	57	14.1	910	60	11.4	1.2	1.7	2.2
1750	Open	1264	54	18.1	1100	58	13.8	985	60	11.2	1.3	1.8	2.3

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1942

35 kV Shielded Single Conductor Solid Type Paper Lead Sheathed Power Cable

Direct Buried - 2 Circuits - Six Cables - Spaced

25°C Earth Ambient

Condr Size	Sheath Res	60 Rho Amps	60 Rho Interface Temp °C	60 Rho Flux w/ft²	90 Rho Amps	90 Rho Interface Temp °C	90 Rho Flux w/ft²	120 Rho Amps	120 Rho Interface Temp °C	120 Rho Flux w/ft²	delta Td for .0110 pf & Rho 60	90	120
						100% LF							
						70°C - Copper Conductor - Compact Round Strand							
4/0	283	315	52	19.8	277	56	15.4	249	58	12.6	0.7	0.9	1.1
250	258	342	53	20.1	299	57	15.4	268	59	12.4	0.7	0.9	1.2
350	240	400	54	20.5	347	58	15.4	310	61	12.4	0.8	1.0	1.3
500	209	459	56	19.9	396	60	14.9	351	62	11.9	0.8	1.1	1.4
750	179	529	58	20.4	450	62	14.8	398	64	11.6	0.9	1.3	1.6
750	Open	676	54	15.8	587	58	12.0	525	60	9.7	0.9	1.3	1.7
1000	156	572	60	20.2	483	63	14.6	429	65	11.6	1.0	1.4	1.8
1000	Open	787	55	15.1	679	59	11.4	606	61	9.2	1.0	1.4	1.8
1250	146	605	61	20.1	508	64	14.3	446	65	11.1	1.1	1.5	1.9
1250	Open	878	56	14.8	755	60	11.1	674	62	9.0	1.1	1.5	2.0
						70°C - Copper Conductor - Concentric Strand							
1500	Open	962	57	14.1	823	61	10.5	729	63	8.3	1.2	1.7	2.2
1750	Open	1027	58	13.8	876	61	10.2	774	63	8.1	1.3	1.8	2.3
2000	Open	1078	58	13.1	923	61	9.7	812	63	7.7	1.4	1.9	2.5
						70°C - Copper Conductor - Compact Segmental Strand							
1000	149	583	61	19.9	492	63	14.4	436	65	11.3	1.1	1.5	1.9
1000	Open	817	56	15.0	704	59	11.1	626	62	8.9	1.1	1.5	1.9
1250	133	614	62	19.8	515	64	14.1	451	66	10.9	1.1	1.6	2.1
1250	Open	923	56	14.6	792	60	10.8	703	62	8.6	1.2	1.6	2.1
1500	Open	1018	57	14.1	870	61	10.5	771	63	8.3	1.2	1.7	2.2
1750	Open	1103	58	13.8	941	61	10.2	832	63	8.1	1.3	1.8	2.3

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35 kV Shielded Single Conductor Solid Type Paper Lead Sheathed Power Cable

Direct Buried - 2 Circuits - Six Cables - Spaced

25°C Earth Ambient

Condr Size	Sheath Res	60 Rho Interface Temp	60 Rho Flux	60 Rho Amps	90 Rho Interface Temp	90 Rho Flux	90 Rho Amps	120 Rho Interface Temp	120 Rho Flux	120 Rho Amps	delta Td for .0110 pf & Rho 60	90	120
		°C	w/ft²	Amps	°C	w/ft²	Amps	°C	w/ft²	Amps			
75% LF													
65°C - Copper Conductor - Compact Round Strand													
4/0	283	330	45	21.6	296	49	17.5	270	52	14.7	0.7	0.9	1.1
250	258	359	46	22.1	320	50	17.6	292	52	14.6	0.7	0.9	1.2
350	240	424	48	23.1	374	52	18.0	339	54	14.9	0.8	1.0	1.3
500	209	489	49	22.8	429	53	17.6	386	55	14.2	0.8	1.1	1.4
750	179	568	52	23.6	492	55	17.9	440	57	14.3	0.9	1.3	1.6
750	Open	720	47	17.5	638	51	13.9	578	53	11.4	0.9	1.3	1.7
1000	156	619	54	23.9	532	57	17.8	472	58	14.1	1.0	1.4	1.8
1000	Open	842	48	17.1	742	52	13.4	670	54	10.9	1.0	1.4	1.8
1250	146	657	55	24.1	561	58	17.6	498	59	14.0	1.1	1.5	1.9
1250	Open	944	49	17.0	828	53	13.1	746	55	10.6	1.1	1.5	2.0
65°C - Copper Conductor - Concentric Strand													
1500	Open	1041	50	16.2	908	54	12.5	814	56	10.1	1.2	1.7	2.2
1750	Open	1115	51	16.1	970	54	12.2	867	56	9.9	1.3	1.8	2.3
2000	Open	1170	51	15.2	1017	54	11.6	909	56	9.4	1.4	1.9	2.5
65°C - Copper Conductor - Compact Segmental Strand													
1000	149	634	54	23.8	543	57	17.6	481	59	13.8	1.1	1.5	1.9
1000	Open	878	49	16.9	772	52	13.2	695	55	10.8	1.1	1.5	1.9
1250	133	671	55	23.9	573	58	17.6	504	60	13.6	1.1	1.6	2.1
1250	Open	997	49	16.6	872	53	12.8	784	55	10.5	1.2	1.6	2.1
1500	Open	1103	50	16.4	962	54	12.5	862	56	10.1	1.2	1.7	2.2
1750	Open	1198	51	16.1	1042	54	12.2	932	56	9.9	1.3	1.8	2.3

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1944

35 kV Shielded Single Conductor Solid Type Paper Lead Sheathed Power Cable

Direct Buried - 2 Circuits - Six Cables - Spaced

25°C Earth Ambient

Condr Size	Sheath Res	60 Rho Amps	60 Rho Interface Temp °C	60 Rho Flux w/ft²	90 Rho Amps	90 Rho Interface Temp °C	90 Rho Flux w/ft²	120 Rho Amps	120 Rho Interface Temp °C	120 Rho Flux w/ft²	delta Td for .0110 pf & Rho 60	90	120
						100% LF							
						65°C - Copper Conductor - Compact Round Strand							
4/0	283	298	49	17.7	262	52	13.6	236	55	11.1	0.7	0.9	1.1
250	258	323	50	17.9	282	53	13.6	253	56	11.2	0.7	0.9	1.2
350	240	378	51	18.4	327	55	13.8	293	57	11.2	0.8	1.0	1.3
500	209	433	53	17.8	373	56	13.4	331	58	10.7	0.8	1.1	1.4
750	179	497	55	18.3	422	58	13.3	373	59	10.5	0.9	1.3	1.6
750	Open	642	51	13.9	557	54	10.7	498	56	8.6	0.9	1.3	1.7
1000	156	536	56	18.1	453	59	13.0	398	60	10.2	1.0	1.4	1.8
1000	Open	746	52	13.6	644	55	10.2	574	57	8.1	1.0	1.4	1.8
1250	146	566	57	18.0	476	60	12.8	417	61	10.0	1.1	1.5	1.9
1250	Open	832	52	13.1	715	56	9.8	638	58	8.0	1.1	1.5	2.0
						65°C - Copper Conductor - Concentric Strand							
1500	Open	911	54	12.6	779	57	9.3	689	58	7.4	1.2	1.7	2.2
1750	Open	973	54	12.4	829	57	9.1	733	59	7.2	1.3	1.8	2.3
2000	Open	1020	54	11.7	871	57	8.6	767	59	6.7	1.4	1.9	2.5
						65°C - Copper Conductor - Compact Segmental Strand							
1000	149	547	57	17.9	461	59	12.8	405	61	10.0	1.1	1.5	1.9
1000	Open	775	52	13.3	667	56	10.0	593	58	7.9	1.1	1.5	1.9
1250	133	575	58	17.8	482	60	12.5	422	61	9.7	1.1	1.6	2.1
1250	Open	876	53	12.8	751	56	9.7	669	58	7.8	1.2	1.6	2.1
1500	Open	965	54	12.6	825	57	9.3	730	58	7.4	1.2	1.7	2.2
1750	Open	1046	54	12.4	891	57	9.1	787	59	7.2	1.3	1.8	2.3

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35 kV Shielded Single Conductor Solid Type Paper Lead Sheathed Power Cable

Direct Buried - 2 Circuits - Six Cables - Spaced

25°C Earth Ambient

Condr Size	Sheath Res	60 Rho Amps	60 Rho Interface Temp °C	60 Rho Flux w/ft²	90 Rho Amps	90 Rho Interface Temp °C	90 Rho Flux w/ft²	120 Rho Amps	120 Rho Interface Temp °C	120 Rho Flux w/ft²	delta Td for .0110 pf & Rho 60	90	120
						75% LF							
						50°C - Copper Conductor - Compact Round Strand							
4/0	283	264	38	13.6	236	40	11.1	215	42	9.3	0.7	0.9	1.1
250	258	287	38	14.1	255	41	11.2	231	42	9.2	0.7	0.9	1.2
350	240	336	40	14.7	296	42	11.4	267	43	9.3	0.8	1.0	1.3
500	209	386	41	14.4	337	43	11.1	302	44	9.0	0.8	1.1	1.4
750	179	444	42	15.0	383	44	11.2	341	45	9.1	0.9	1.3	1.6
750	Open	579	39	10.8	511	41	8.6	462	43	7.0	0.9	1.3	1.7
1000	156	480	43	15.3	410	45	11.3	363	46	9.0	1.0	1.4	1.8
1000	Open	676	40	10.7	593	42	8.3	534	44	6.9	1.0	1.4	1.8
1250	146	507	44	15.3	431	46	11.1	380	47	8.8	1.1	1.5	1.9
1250	Open	755	40	10.5	660	42	8.2	592	44	6.7	1.1	1.5	2.0
						50°C - Copper Conductor - Concentric Strand							
1500	Open	831	41	10.2	722	43	7.8	644	45	6.3	1.2	1.7	2.2
1750	Open	889	41	10.1	769	43	7.6	685	45	6.2	1.3	1.8	2.3
2000	Open	931	41	9.6	805	43	7.3	716	45	5.8	1.4	1.9	2.5
						50°C - Copper Conductor - Compact Segmental Strand							
1000	149	491	44	15.0	418	45	11.0	369	46	8.8	1.1	1.5	1.9
1000	Open	706	40	10.6	618	42	8.3	555	44	6.8	1.1	1.5	1.9
1250	133	518	44	15.2	438	46	10.9	385	47	8.6	1.1	1.6	2.1
1250	Open	800	40	10.3	697	43	7.9	624	44	6.5	1.2	1.6	2.1
1500	Open	885	41	10.2	768	43	7.8	686	45	6.3	1.2	1.7	2.2
1750	Open	960	41	10.1	831	43	7.6	740	45	6.2	1.3	1.8	2.3

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1946

35 kV Shielded Single Conductor Solid Type Paper Lead Sheathed Power Cable

Direct Buried - 2 Circuits - Six Cables - Spaced

25°C Earth Ambient

Condr Size	Sheath Res	60 Rho Interface Temp	60 Rho Amps	60 Rho Flux w/ft²	90 Rho Interface Temp	90 Rho Amps	90 Rho Flux w/ft²	120 Rho Interface Temp	120 Rho Amps	120 Rho Flux w/ft²	delta Td for .0110 pf & Rho 60	90	120
						100% LF							
						50°C - Copper Conductor - Compact Round Strand							
4/0	283	238	40	11.3	208	42	8.7	187	44	6.9	0.7	0.9	1.1
250	258	257	41	11.4	224	43	8.7	201	44	6.9	0.7	0.9	1.2
350	240	299	42	11.7	258	44	8.9	230	45	7.0	0.8	1.0	1.3
500	209	340	43	11.3	292	45	8.4	258	46	6.7	0.8	1.1	1.4
750	179	387	44	11.6	328	46	8.4	288	47	6.7	0.9	1.3	1.6
750	Open	516	41	8.8	446	43	6.7	397	45	5.3	0.9	1.3	1.7
1000	156	415	45	11.4	349	46	8.3	305	47	6.3	1.0	1.4	1.8
1000	Open	598	42	8.4	514	44	6.3	457	45	5.1	1.0	1.4	1.8
1250	146	436	46	11.3	365	47	8.2	318	48	6.3	1.1	1.5	1.9
1250	Open	666	42	8.3	570	44	6.2	504	46	5.0	1.1	1.5	2.0
						50°C - Copper Conductor - Concentric Strand							
1500	Open	727	43	8.0	619	45	5.9	545	46	4.7	1.2	1.7	2.2
1750	Open	775	43	7.8	658	45	5.8	578	46	4.5	1.3	1.8	2.3
2000	Open	810	43	7.3	688	45	5.4	604	46	4.3	1.4	1.9	2.5
						50°C - Copper Conductor - Compact Segmental Strand							
1000	149	423	45	11.3	355	47	8.1	310	47	6.2	1.1	1.5	1.9
1000	Open	623	42	8.3	534	44	6.2	473	46	5.1	1.1	1.5	1.9
1250	133	443	46	11.3	369	47	7.9	322	48	6.0	1.1	1.6	2.1
1250	Open	703	43	8.1	600	45	6.0	530	46	4.8	1.2	1.6	2.1
1500	Open	774	43	8.0	659	45	5.9	580	46	4.7	1.2	1.7	2.2
1750	Open	837	43	7.8	711	45	5.8	625	46	4.5	1.3	1.8	2.3

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35 kV Shielded Single Conductor Solid Type Paper Lead Sheathed Power Cable

in Conduit in Air - Triplexed

40°C Air Ambient

Condr Size	Sheath Res	No Sun 0 Ft/s	No Sun 2 Ft/s	Full Sun 0 Ft/s	Full Sun 2 Ft/s	delta Td for .0110 pf No Sun 0 Ft/s	delta Td for .0110 pf No Sun 2 Ft/s
		80°C - Copper Conductor - Compact Round Strand					
4/0	283	232	241	140	171	1.3	1.2
250	258	262	271	155	188	1.3	1.2
350	240	316	327	186	226	1.4	1.3
500	209	384	398	226	275	1.4	1.3
750	179	484	500	280	339	1.5	1.4
1000	156	554	574	321	388	1.6	1.5

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1948

35 kV Shielded Single Conductor Solid Type Paper Lead Sheathed Power Cable

in Free Air - Triplexed

40°C Air Ambient

Condr Size	Sheath Res	No Sun 0 Ft/s	No Sun 2 Ft/s	Full Sun 0 Ft/s	Full Sun 2 Ft/s	delta Td for .0110 pf No Sun 0 Ft/s	delta Td for .0110 pf No Sun 2 Ft/s
		80°C - Copper Conductor - Compact Round Strand					
4/0	283	272	318	191	260	0.9	0.6
250	258	302	352	211	287	0.9	0.6
350	240	368	430	256	349	1.0	0.7
500	209	454	530	313	426	1.0	0.7
750	179	572	666	390	531	1.1	0.8
1000	156	667	775	451	613	1.1	0.8

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35 kV Shielded Single Conductor Solid Type Paper Lead Sheathed Power Cable

in Unventilated Riser - Triplexed

40°C Air Ambient

Condr Size	Sheath Res	No Sun 0 Ft/s	No Sun 2 Ft/s	Full Sun 0 Ft/s	Full Sun 2 Ft/s	delta Td for .0110 pf No Sun 0 Ft/s	delta Td for .0110 pf No Sun 2 Ft/s
		80°C - Copper Conductor - Compact Round Strand					
4/0	283	226	245	178	205	1.4	1.1
250	258	259	277	202	228	1.3	1.1
350	240	310	333	244	276	1.4	1.2
500	209	371	401	296	335	1.5	1.3
750	179	467	501	372	419	1.5	1.3
1000	156	525	565	418	481	1.6	1.4

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1950

35 kV Shielded Single Conductor Solid Type Paper Lead Sheathed Power Cable

in Underground Duct Bank - Triplexed - Single Circuit

25°C Earth Ambient

Condr Size	Sheath Res	60 Rho 75 LF	60 Rho 100 LF	90 Rho 75 LF	90 Rho 100 LF	120 Rho 75 LF	120 Rho 100 LF	delta Td for .0110 pf & Rho 60	90	120
80°C - Aluminum Conductor - Compact Round Strand										
4/0	283	229	220	221	207	213	197	1.2	1.4	1.6
250	258	253	242	243	228	234	216	1.3	1.4	1.6
350	240	307	292	294	274	282	259	1.4	1.6	1.8
500	209	376	357	358	333	343	314	1.5	1.7	1.9
750	179	478	452	454	419	432	392	1.6	1.8	2.1
1000	156	558	524	527	485	500	452	1.7	2.0	2.3

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35 kV Shielded Single Conductor Solid Type Paper Lead Sheathed Power Cable

in Underground Duct Bank - Triplexed - Three Circuits

25°C Earth Ambient

Condr Size	Sheath Res	60 Rho 75 LF	60 Rho 100 LF	90 Rho 75 LF	90 Rho 100 LF	120 Rho 75 LF	120 Rho 100 LF	delta Td for .0110 pf & Rho 60	delta Td for .0110 pf & Rho 90	delta Td for .0110 pf & Rho 120
		80°C - Aluminum Conductor - Compact Round Strand								
4/0	283	204	186	188	167	175	153	1.8	2.2	2.6
250	258	224	203	206	182	191	167	1.8	2.3	2.8
350	240	269	243	247	217	228	198	2.0	2.5	3.1
500	209	327	294	297	262	274	237	2.2	2.8	3.4
750	179	410	366	369	321	339	290	2.4	3.1	3.8
1000	156	473	420	424	367	387	330	2.7	3.4	4.2

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1952

35 kV Shielded Single Conductor Solid Type Paper Lead Sheathed Power Cable

in Underground Duct Bank - Triplexed - Six Circuits

25°C Earth Ambient

		60 Rho		90 Rho		120 Rho		delta Td for .0110 pf & Rho		
Condr Size	Sheath Res	75 LF	100 LF	75 LF	100 LF	75 LF	100 LF	60	90	120
		80°C - Aluminum Conductor - Compact Round Strand								
4/0	283	175	153	155	132	140	118	2.6	3.5	4.4
250	258	192	167	169	144	152	128	2.7	3.7	4.6
350	240	229	199	201	171	180	151	3.0	4.1	5.2
500	209	275	238	240	203	215	179	3.4	4.6	5.8
750	179	341	292	294	246	261	216	3.8	5.2	6.6
1000	156	389	332	334	279	295	244	4.2	5.8	7.4

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35 kV Shielded Single Conductor Solid Type Paper Lead Sheathed Power Cable

in Underground Duct Bank - Triplexed - Nine Circuits

25°C Earth Ambient

Condr Size	Sheath Res	60 Rho 75 LF	60 Rho 100 LF	90 Rho 75 LF	90 Rho 100 LF	120 Rho 75 LF	120 Rho 100 LF	delta Td for .0110 pf & Rho 60	90	120
		80°C - Aluminum Conductor - Compact Round Strand								
4/0	283	157	134	137	115	123	101	3.4	4.6	5.8
250	258	171	146	149	124	133	110	3.6	4.9	6.1
350	240	204	173	176	147	157	129	4.0	5.4	6.8
500	209	243	206	210	174	185	152	4.4	6.1	7.7
750	179	298	250	254	210	224	183	5.0	6.9	8.8
1000	156	339	284	287	236	251	205	5.6	7.8	9.9

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1954

35 kV Shielded Single Conductor Solid Type Paper Lead Sheathed Power Cable in Underground Duct Bank - 1 Circuit - Three Cables - 7.5 in Spacing

25°C Earth Ambient

Condr Size	Sheath Res	60 Rho 75 LF	60 Rho 100 LF	90 Rho 75 LF	90 Rho 100 LF	120 Rho 75 LF	120 Rho 100 LF	delta Td for .0110 pf & Rho 60	90	120
				80°C - Aluminum Conductor - Compact Round Strand						
4/0	283	257	244	245	228	235	215	0.9	1.0	1.2
250	258	281	267	268	249	256	235	0.9	1.1	1.2
350	240	335	318	319	295	304	277	1.0	1.1	1.3
500	209	399	377	378	348	359	325	1.1	1.2	1.4
750	179	480	450	451	413	427	383	1.2	1.4	1.6
1000	156	538	502	504	459	475	424	1.2	1.5	1.8
1000	Open	663	619	625	569	591	529	1.3	1.5	1.8
1250	146	585	544	546	495	513	456	1.3	1.6	1.9
1250	Open	753	700	707	642	668	595	1.4	1.6	1.9
				80°C - Aluminum Conductor - Concentric Strand						
1500	120	623	576	578	521	541	478	1.4	1.7	2.1
1500	Open	848	784	792	715	745	660	1.5	1.8	2.1
1750	114	654	603	605	544	565	499	1.5	1.8	2.2
1750	Open	921	850	859	773	806	712	1.6	1.9	2.3
2000	Open	985	907	916	823	859	757	1.6	2.0	2.4
				80°C - Aluminum Conductor - Compact Segmental Strand						
1000	149	549	511	513	466	483	430	1.3	1.6	1.8
1000	Open	681	634	640	582	605	540	1.3	1.6	1.9
1250	133	595	552	554	501	519	461	1.4	1.7	2.0
1250	Open	778	722	729	660	687	611	1.4	1.7	2.0
1500	120	631	583	585	527	547	484	1.4	1.7	2.1
1500	Open	867	802	810	731	761	675	1.5	1.8	2.1
1750	114	663	612	614	552	573	505	1.5	1.8	2.2
1750	Open	949	875	885	796	830	733	1.6	1.9	2.3
2000	Open	1023	941	951	854	891	786	1.6	2.0	2.4
2250	Open	1088	1000	1010	906	946	832	1.7	2.1	2.5
2500	Open	1155	1060	1070	958	1000	879	1.7	2.1	2.5
2750	Open	1218	1115	1126	1006	1051	923	1.8	2.2	2.6
3000	Open	1271	1163	1174	1048	1095	959	1.8	2.3	2.7

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35 kV Shielded Single Conductor Solid Type Paper Lead Sheathed Power Cable

in Underground Duct Bank - 2 Circuits - Six Cables - 7.5 in Spacing

25°C Earth Ambient

Condr Size	Sheath Res	60 Rho 75 LF	60 Rho 100 LF	90 Rho 75 LF	90 Rho 100 LF	120 Rho 75 LF	120 Rho 100 LF	delta Td for .0110 pf & Rho 60	delta Td for .0110 pf & Rho 90	delta Td for .0110 pf & Rho 120
				80°C - Aluminum Conductor - Compact Round Strand						
4/0	283	236	216	219	195	204	179	1.2	1.5	1.8
250	258	259	236	238	212	222	194	1.2	1.6	1.9
350	240	308	280	283	251	263	229	1.3	1.7	2.0
500	209	368	332	336	295	310	268	1.5	1.9	2.3
750	179	444	398	402	351	370	317	1.6	2.1	2.6
1000	156	501	446	451	391	412	352	1.8	2.3	2.9
1000	Open	592	531	537	469	493	423	1.8	2.3	2.9
1250	146	548	484	490	423	447	380	1.9	2.5	3.1
1250	Open	669	597	604	526	553	474	1.9	2.5	3.1
				80°C - Aluminum Conductor - Concentric Strand						
1500	120	585	514	521	446	472	398	2.1	2.8	3.5
1500	Open	746	662	670	579	611	520	2.1	2.8	3.5
1750	114	616	540	547	467	494	416	2.2	2.9	3.7
1750	Open	808	715	723	624	658	558	2.2	3.0	3.7
2000	Open	862	761	769	662	699	592	2.3	3.1	3.9
				80°C - Aluminum Conductor - Compact Segmental Strand						
1000	149	511	453	458	396	418	356	1.9	2.4	3.0
1000	Open	606	541	548	477	502	430	1.9	2.5	3.0
1250	133	556	491	497	428	452	382	2.0	2.6	3.3
1250	Open	688	613	619	538	566	484	2.0	2.6	3.3
1500	120	593	521	528	452	478	403	2.1	2.8	3.5
1500	Open	763	677	685	592	625	532	2.1	2.8	3.5
1750	114	627	549	556	475	503	423	2.2	2.9	3.7
1750	Open	832	736	745	643	678	575	2.2	3.0	3.7
2000	Open	894	790	799	688	725	614	2.3	3.1	3.9
2250	Open	950	836	846	727	767	649	2.4	3.2	4.0
2500	Open	1006	884	894	767	810	683	2.5	3.4	4.2
2750	Open	1058	928	939	804	849	715	2.6	3.5	4.3
3000	Open	1103	966	976	835	882	742	2.7	3.6	4.5

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1956

35 kV Shielded Single Conductor Solid Type Paper Lead Sheathed Power Cable

Direct Buried - Triplexed - Single Circuit

25°C Earth Ambient

Condr Size	Sheath Res	---- 60 Rho--- Interface Temp Amps	Flux °C	Flux w/ft²	---- 90 Rho--- Interface Temp Amps	Flux °C	Flux w/ft²	----120 Rho--- Interface Temp Amps	Flux °C	Flux w/ft²	delta Td for .0110 pf & Rho 60	90	120
					75% LF								
					80°C - Aluminum Conductor - Compact Round Strand								
4/0	283	299	53	45.4	269	58	36.8	246	61	31.1	0.7	1.0	1.2
250	258	330	53	45.5	296	58	36.7	271	62	30.8	0.7	1.0	1.3
350	240	402	55	45.8	359	60	36.6	327	63	30.6	0.8	1.1	1.4
500	209	491	55	43.9	437	61	34.8	398	64	29.0	0.9	1.2	1.5
750	179	618	57	43.8	546	62	34.4	495	65	28.4	1.0	1.3	1.7
1000	156	723	59	43.6	636	64	33.9	574	67	27.8	1.0	1.4	1.9
1250	146	812	60	43.5	711	65	33.5	641	68	27.5	1.1	1.5	2.0
					80°C - Aluminum Conductor - Concentric Strand								
1500	120	896	62	42.9	781	66	32.8	701	69	26.5	1.2	1.7	2.2
1750	114	961	63	42.7	835	67	32.4	748	69	26.2	1.3	1.8	2.3
2000	105	1006	63	41.2	874	67	31.3	783	70	25.3	1.3	1.9	2.4
					80°C - Aluminum Conductor - Compact Segmental Strand								
1000	149	742	60	43.4	651	64	33.5	587	67	27.5	1.1	1.5	1.9
1250	133	836	61	43.2	730	65	33.2	657	68	27.0	1.2	1.6	2.1
1500	120	916	62	43.0	798	66	32.8	716	69	26.6	1.2	1.7	2.2
1750	114	989	63	42.9	859	67	32.5	770	70	26.3	1.3	1.8	2.3
2000	105	1042	63	41.4	905	67	31.4	810	70	25.3	1.3	1.9	2.4
2250	100	1095	64	41.3	948	68	31.2	848	70	25.1	1.4	1.9	2.5
2500	93	1141	64	41.3	986	68	31.0	881	71	24.9	1.4	2.0	2.6
2750	90	1186	65	41.2	1023	69	30.8	912	71	24.7	1.5	2.0	2.6
3000	84	1217	65	41.1	1047	69	30.6	933	71	24.5	1.5	2.1	2.7

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35 kV Shielded Single Conductor Solid Type Paper Lead Sheathed Power Cable

Direct Buried - Triplexed - Single Circuit

25°C Earth Ambient

Condr Size	Sheath Res	60 Rho Amps	60 Rho Interface Temp °C	60 Rho Flux w/ft²	90 Rho Amps	90 Rho Interface Temp °C	90 Rho Flux w/ft²	120 Rho Amps	120 Rho Interface Temp °C	120 Rho Flux w/ft²	delta Td for .0110 pf & Rho 60	90	120
						100% LF							
						80°C - Aluminum Conductor - Compact Round Strand							
4/0	283	277	56	39.2	244	62	30.5	220	65	25.0	0.7	1.0	1.2
250	258	305	57	38.9	268	62	30.3	242	66	24.7	0.7	1.0	1.3
350	240	370	58	38.8	323	64	29.9	290	67	24.3	0.8	1.1	1.4
500	209	449	59	36.8	391	64	28.1	351	67	22.7	0.9	1.2	1.5
750	179	561	61	36.2	485	66	27.3	433	69	21.9	1.0	1.3	1.7
1000	156	652	63	35.6	561	67	26.6	499	70	21.2	1.0	1.4	1.9
1250	146	728	64	35.2	624	68	26.0	554	71	20.7	1.1	1.5	2.0
						80°C - Aluminum Conductor - Concentric Strand							
1500	120	797	66	34.1	679	70	25.0	600	72	19.7	1.2	1.7	2.2
1750	114	851	66	33.6	723	70	24.6	638	72	19.3	1.3	1.8	2.3
2000	105	888	67	32.3	754	70	23.5	665	72	18.4	1.3	1.9	2.4
						80°C - Aluminum Conductor - Compact Segmental Strand							
1000	149	667	64	35.2	572	68	26.1	508	70	20.7	1.1	1.5	1.9
1250	133	747	65	34.6	638	69	25.5	565	71	20.2	1.2	1.6	2.1
1500	120	815	66	34.1	694	70	25.0	613	72	19.7	1.2	1.7	2.2
1750	114	876	66	33.7	743	70	24.6	656	72	19.3	1.3	1.8	2.3
2000	105	919	67	32.4	780	70	23.5	688	73	18.5	1.3	1.9	2.4
2250	100	962	67	32.1	814	71	23.2	717	73	18.2	1.4	1.9	2.5
2500	93	999	68	31.8	844	71	22.9	742	73	17.9	1.4	2.0	2.6
2750	90	1035	68	31.5	872	72	22.7	766	74	17.7	1.5	2.0	2.6
3000	84	1059	69	31.3	890	72	22.4	781	74	17.4	1.5	2.1	2.7

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1958

35 kV Shielded Single Conductor Solid Type Paper Lead Sheathed Power Cable

Direct Buried - Triplexed - Single Circuit

25°C Earth Ambient

Condr Size	Sheath Res	60 Rho Amps	60 Rho Interface Temp °C	60 Rho Flux w/ft²	90 Rho Amps	90 Rho Interface Temp °C	90 Rho Flux w/ft²	120 Rho Amps	120 Rho Interface Temp °C	120 Rho Flux w/ft²	delta Td for .0110 pf & Rho 60	90	120
						75% LF							
						70°C - Aluminum Conductor - Compact Round Strand							
4/0	283	274	48	37.3	246	52	30.1	226	55	25.4	0.7	1.0	1.2
250	258	303	48	37.2	271	52	30.0	248	55	25.2	0.7	1.0	1.3
350	240	369	49	37.5	329	54	30.0	300	56	25.0	0.8	1.1	1.4
500	209	450	50	35.9	400	54	28.5	364	57	23.7	0.9	1.2	1.5
750	179	566	52	35.8	500	56	28.2	452	58	23.3	1.0	1.3	1.7
1000	156	661	53	35.7	581	57	27.7	524	59	22.7	1.0	1.4	1.9
1250	146	741	54	35.6	649	58	27.5	584	60	22.4	1.1	1.5	2.0
						70°C - Aluminum Conductor - Concentric Strand							
1500	120	817	55	35.1	711	59	26.8	638	61	21.7	1.2	1.7	2.2
1750	114	875	56	35.0	759	59	26.6	680	62	21.5	1.3	1.8	2.3
2000	105	915	56	33.8	793	60	25.6	710	62	20.7	1.3	1.9	2.4
						70°C - Aluminum Conductor - Compact Segmental Strand							
1000	149	679	53	35.5	595	57	27.5	536	60	22.5	1.1	1.5	1.9
1250	133	764	54	35.4	667	58	27.2	599	60	22.1	1.2	1.6	2.1
1500	120	837	55	35.2	728	59	26.9	652	61	21.8	1.2	1.7	2.2
1750	114	902	56	35.2	782	60	26.6	700	62	21.5	1.3	1.8	2.3
2000	105	949	56	34.0	823	60	25.8	736	62	20.7	1.3	1.9	2.4
2250	100	996	57	33.9	861	60	25.5	769	62	20.5	1.4	1.9	2.5
2500	93	1037	57	33.8	894	61	25.4	798	63	20.4	1.4	2.0	2.6
2750	90	1077	58	33.8	927	61	25.2	826	63	20.2	1.5	2.0	2.6
3000	84	1104	58	33.7	948	61	25.1	844	63	20.0	1.5	2.1	2.7

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1959

35 kV Shielded Single Conductor Solid Type Paper Lead Sheathed Power Cable

Direct Buried - Triplexed - Single Circuit

25°C Earth Ambient

Condr Size	Sheath Res	60 Rho Amps	60 Rho Interface Temp °C	60 Rho Flux w/ft²	90 Rho Amps	90 Rho Interface Temp °C	90 Rho Flux w/ft²	120 Rho Amps	120 Rho Interface Temp °C	120 Rho Flux w/ft²	delta Td for .0110 pf & Rho 60	90	120
						100% LF							
						70°C - Aluminum Conductor - Compact Round Strand							
4/0	283	254	51	32.1	224	55	25.0	202	58	20.4	0.7	1.0	1.2
250	258	280	51	31.9	246	56	24.7	222	58	20.2	0.7	1.0	1.3
350	240	339	52	31.8	296	57	24.4	266	59	19.9	0.8	1.1	1.4
500	209	412	53	30.2	358	57	23.1	321	60	18.6	0.9	1.2	1.5
750	179	514	55	29.7	444	59	22.4	396	61	18.0	1.0	1.3	1.7
1000	156	596	56	29.2	513	60	21.7	455	62	17.4	1.0	1.4	1.9
1250	146	665	57	28.8	569	60	21.4	505	63	17.0	1.1	1.5	2.0
						70°C - Aluminum Conductor - Concentric Strand							
1500	120	726	58	27.9	618	62	20.5	546	63	16.1	1.2	1.7	2.2
1750	114	775	59	27.6	657	62	20.1	579	64	15.8	1.3	1.8	2.3
2000	105	807	59	26.5	684	62	19.3	603	64	15.1	1.3	1.9	2.4
						70°C - Aluminum Conductor - Compact Segmental Strand							
1000	149	610	57	28.8	523	60	21.4	464	62	17.0	1.1	1.5	1.9
1250	133	682	58	28.4	582	61	20.9	515	63	16.6	1.2	1.6	2.1
1500	120	744	58	28.0	632	62	20.5	558	63	16.2	1.2	1.7	2.2
1750	114	798	59	27.6	677	62	20.1	596	64	15.9	1.3	1.8	2.3
2000	105	837	59	26.6	709	62	19.3	624	64	15.1	1.3	1.9	2.4
2250	100	875	60	26.4	740	63	19.1	650	64	15.0	1.4	1.9	2.5
2500	93	907	60	26.1	765	63	18.8	672	65	14.7	1.4	2.0	2.6
2750	90	939	61	25.9	790	63	18.6	693	65	14.5	1.5	2.0	2.6
3000	84	960	61	25.7	806	64	18.3	706	65	14.3	1.5	2.1	2.7

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1960

35 kV Shielded Single Conductor Solid Type Paper Lead Sheathed Power Cable

Direct Buried - Triplexed - Single Circuit

25°C Earth Ambient

Condr Size	Sheath Res	60 Rho Amps	60 Rho Interface Temp °C	60 Rho Flux w/ft²	90 Rho Amps	90 Rho Interface Temp °C	90 Rho Flux w/ft²	120 Rho Amps	120 Rho Interface Temp °C	120 Rho Flux w/ft²	delta Td for .0110 pf & Rho 60	90	120
						75% LF							
						65°C - Aluminum Conductor - Compact Round Strand							
4/0	283	260	45	33.1	234	49	26.7	214	52	22.5	0.7	1.0	1.2
250	258	288	46	33.1	258	49	26.7	236	52	22.3	0.7	1.0	1.3
350	240	350	47	33.4	312	50	26.6	284	53	22.2	0.8	1.1	1.4
500	209	427	47	31.9	379	51	25.3	345	53	21.1	0.9	1.2	1.5
750	179	537	49	31.9	474	52	25.1	429	55	20.6	1.0	1.3	1.7
1000	156	627	50	31.8	550	53	24.7	496	56	20.2	1.0	1.4	1.9
1250	146	702	51	31.8	614	54	24.4	552	56	19.9	1.1	1.5	2.0
						65°C - Aluminum Conductor - Concentric Strand							
1500	120	773	52	31.2	672	55	23.9	602	57	19.3	1.2	1.7	2.2
1750	114	828	53	31.2	717	56	23.6	641	58	19.0	1.3	1.8	2.3
2000	105	865	53	30.1	749	56	22.8	669	58	18.4	1.3	1.9	2.4
						65°C - Aluminum Conductor - Compact Segmental Strand							
1000	149	644	50	31.6	564	54	24.5	507	56	20.0	1.1	1.5	1.9
1250	133	724	51	31.5	631	55	24.2	567	57	19.6	1.2	1.6	2.1
1500	120	792	52	31.3	688	55	23.9	617	57	19.3	1.2	1.7	2.2
1750	114	854	53	31.3	739	56	23.7	661	58	19.1	1.3	1.8	2.3
2000	105	898	53	30.3	777	56	22.9	694	58	18.4	1.3	1.9	2.4
2250	100	941	53	30.1	813	56	22.8	725	58	18.2	1.4	1.9	2.5
2500	93	979	54	30.1	844	57	22.5	752	58	18.1	1.4	2.0	2.6
2750	90	1016	54	30.1	874	57	22.4	778	59	18.0	1.5	2.0	2.6
3000	84	1041	55	30.0	894	57	22.3	794	59	17.8	1.5	2.1	2.7

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35 kV Shielded Single Conductor Solid Type Paper Lead Sheathed Power Cable

Direct Buried - Triplexed - Single Circuit

25°C Earth Ambient

Condr Size	Sheath Res	60 Rho Amps	60 Rho Interface Temp °C	60 Rho Flux w/ft²	90 Rho Amps	90 Rho Interface Temp °C	90 Rho Flux w/ft²	120 Rho Amps	120 Rho Interface Temp °C	120 Rho Flux w/ft²	delta Td for .0110 pf & Rho 60	90	120
						100% LF							
						65°C - Aluminum Conductor - Compact Round Strand							
4/0	283	241	48	28.5	213	52	22.2	192	54	18.2	0.7	1.0	1.2
250	258	266	48	28.4	233	52	22.0	210	55	18.0	0.7	1.0	1.3
350	240	322	49	28.4	281	53	21.8	252	55	17.7	0.8	1.1	1.4
500	209	391	50	26.9	340	54	20.4	304	56	16.6	0.9	1.2	1.5
750	179	487	52	26.4	421	55	19.9	375	57	15.9	1.0	1.3	1.7
1000	156	565	53	26.0	485	56	19.4	431	58	15.4	1.0	1.4	1.9
1250	146	630	54	25.7	539	57	19.0	477	58	15.1	1.1	1.5	2.0
						65°C - Aluminum Conductor - Concentric Strand							
1500	120	687	55	24.9	584	58	18.2	515	59	14.4	1.2	1.7	2.2
1750	114	732	55	24.6	621	58	17.9	547	60	14.0	1.3	1.8	2.3
2000	105	762	55	23.6	646	58	17.2	568	60	13.4	1.3	1.9	2.4
						65°C - Aluminum Conductor - Compact Segmental Strand							
1000	149	578	53	25.6	495	56	19.0	439	58	15.1	1.1	1.5	1.9
1250	133	646	54	25.3	551	57	18.6	487	59	14.7	1.2	1.6	2.1
1500	120	704	55	24.9	598	58	18.3	528	59	14.4	1.2	1.7	2.2
1750	114	755	55	24.6	640	58	17.9	563	60	14.0	1.3	1.8	2.3
2000	105	791	56	23.7	669	58	17.2	589	60	13.5	1.3	1.9	2.4
2250	100	827	56	23.5	698	59	17.0	613	60	13.3	1.4	1.9	2.5
2500	93	857	56	23.2	722	59	16.7	633	60	13.1	1.4	2.0	2.6
2750	90	886	57	23.1	745	59	16.5	653	61	12.9	1.5	2.0	2.6
3000	84	905	57	22.8	759	60	16.3	664	61	12.7	1.5	2.1	2.7

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1962

35 kV Shielded Single Conductor Solid Type Paper Lead Sheathed Power Cable

Direct Buried - Triplexed - Single Circuit

25°C Earth Ambient

Condr Size	Sheath Res	60 Rho Amps	60 Rho Interface Temp °C	60 Rho Flux w/ft²	90 Rho Amps	90 Rho Interface Temp °C	90 Rho Flux w/ft²	120 Rho Amps	120 Rho Interface Temp °C	120 Rho Flux w/ft²	delta Td for .0110 pf & Rho 60	90	120
						75% LF							
						50°C - Aluminum Conductor - Compact Round Strand							
4/0	283	210	38	20.7	188	40	16.7	172	42	14.1	0.7	1.0	1.2
250	258	232	38	20.8	207	40	16.7	189	42	14.1	0.7	1.0	1.3
350	240	282	39	20.9	251	41	16.6	228	43	13.8	0.8	1.1	1.4
500	209	344	39	20.0	304	41	15.8	276	43	13.2	0.9	1.2	1.5
750	179	431	40	20.0	379	42	15.6	342	44	12.8	1.0	1.3	1.7
1000	156	502	41	20.0	439	43	15.4	394	44	12.6	1.0	1.4	1.9
1250	146	561	41	19.9	488	43	15.3	438	45	12.4	1.1	1.5	2.0
						50°C - Aluminum Conductor - Concentric Strand							
1500	120	615	42	19.6	532	44	14.9	475	45	12.0	1.2	1.7	2.2
1750	114	657	42	19.5	566	44	14.7	504	46	11.9	1.3	1.8	2.3
2000	105	684	43	18.9	590	45	14.2	524	46	11.4	1.3	1.9	2.4
						50°C - Aluminum Conductor - Compact Segmental Strand							
1000	149	515	41	19.8	450	43	15.2	403	45	12.4	1.1	1.5	1.9
1250	133	578	42	19.7	502	44	15.1	449	45	12.2	1.2	1.6	2.1
1500	120	632	42	19.7	546	44	14.9	487	45	12.0	1.2	1.7	2.2
1750	114	679	43	19.6	586	44	14.8	521	46	11.9	1.3	1.8	2.3
2000	105	712	43	19.0	613	45	14.3	545	46	11.5	1.3	1.9	2.4
2250	100	746	43	18.9	641	45	14.1	569	46	11.3	1.4	1.9	2.5
2500	93	774	43	18.9	663	45	14.0	588	46	11.2	1.4	2.0	2.6
2750	90	802	44	18.8	686	45	14.0	607	46	11.1	1.5	2.0	2.6
3000	84	820	44	18.8	700	46	13.9	618	47	11.0	1.5	2.1	2.7

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1963

35 kV Shielded Single Conductor Solid Type Paper Lead Sheathed Power Cable

Direct Buried - Triplexed - Single Circuit

25°C Earth Ambient

Condr Size	Sheath Res	60 Rho Interface Temp	60 Rho Flux	60 Rho Amps	90 Rho Interface Temp	90 Rho Flux	90 Rho Amps	120 Rho Interface Temp	120 Rho Flux	120 Rho Amps	delta Td for .0110 pf & Rho 60	90	120
		°C	w/ft²		°C	w/ft²		°C	w/ft²				
100% LF													
50°C - Aluminum Conductor - Compact Round Strand													
4/0	283	195	39	17.8	171	42	13.9	154	43	11.5	0.7	1.0	1.2
250	258	214	40	17.8	188	42	13.8	169	44	11.3	0.7	1.0	1.3
350	240	259	40	17.8	226	43	13.7	202	44	11.0	0.8	1.1	1.4
500	209	314	41	16.9	273	43	12.8	244	45	10.4	0.9	1.2	1.5
750	179	391	42	16.5	336	44	12.5	299	45	10.1	1.0	1.3	1.7
1000	156	452	43	16.3	387	45	12.2	342	46	9.6	1.0	1.4	1.9
1250	146	503	43	16.1	428	45	12.0	378	46	9.4	1.1	1.5	2.0
50°C - Aluminum Conductor - Concentric Strand													
1500	120	547	44	15.6	462	46	11.5	406	47	9.0	1.2	1.7	2.2
1750	114	581	44	15.4	490	46	11.2	429	47	8.8	1.3	1.8	2.3
2000	105	603	44	14.8	508	46	10.8	445	47	8.4	1.3	1.9	2.4
50°C - Aluminum Conductor - Compact Segmental Strand													
1000	149	463	43	16.2	395	45	11.9	349	46	9.5	1.1	1.5	1.9
1250	133	516	43	15.9	438	45	11.7	386	46	9.2	1.2	1.6	2.1
1500	120	561	44	15.7	474	46	11.5	417	47	9.0	1.2	1.7	2.2
1750	114	600	44	15.5	506	46	11.2	444	47	8.8	1.3	1.8	2.3
2000	105	627	44	14.9	528	46	10.8	462	47	8.5	1.3	1.9	2.4
2250	100	655	45	14.8	550	46	10.7	480	47	8.3	1.4	1.9	2.5
2500	93	677	45	14.6	567	46	10.5	494	47	8.2	1.4	2.0	2.6
2750	90	699	45	14.5	584	47	10.4	509	47	8.1	1.5	2.0	2.6
3000	84	712	45	14.4	594	47	10.2	517	48	8.0	1.5	2.1	2.7

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1964

35 kV Shielded Single Conductor Solid Type Paper Lead Sheathed Power Cable

Direct Buried - Triplexed - Double Circuit

25°C Earth Ambient

Condr Size	Sheath Res	60 Rho Amps	60 Rho Interface Temp	60 Rho Flux w/ft²	90 Rho Amps	90 Rho Interface Temp	90 Rho Flux w/ft²	120 Rho Amps	120 Rho Interface Temp	120 Rho Flux w/ft²	delta Td for .0110 pf & Rho 60	90	120
						75% LF							
						80°C - Aluminum Conductor - Compact Round Strand							
4/0	283	269	58	37.1	237	63	28.9	214	66	23.7	1.0	1.4	1.8
250	258	296	58	36.9	260	63	28.6	235	66	23.3	1.0	1.4	1.8
350	240	358	60	36.6	313	65	28.1	281	68	22.8	1.1	1.6	2.0
500	209	435	61	34.5	378	65	26.4	339	68	21.4	1.2	1.8	2.3
750	179	541	63	33.8	468	67	25.4	418	70	20.4	1.4	2.0	2.6
1000	156	628	64	33.1	540	68	24.6	480	71	19.6	1.5	2.2	2.8
1250	146	699	65	32.5	599	69	24.1	532	71	19.2	1.6	2.3	3.0
						80°C - Aluminum Conductor - Concentric Strand							
1500	120	763	67	31.3	650	70	22.9	575	73	18.1	1.8	2.6	3.4
1750	114	814	68	30.8	691	71	22.5	610	73	17.7	1.9	2.8	3.6
2000	105	848	68	29.5	720	71	21.5	635	73	16.9	2.0	2.9	3.8
						80°C - Aluminum Conductor - Compact Segmental Strand							
1000	149	641	65	32.6	550	69	24.2	489	71	19.3	1.6	2.3	3.0
1250	133	716	66	32.0	612	70	23.6	542	72	18.7	1.7	2.5	3.2
1500	120	780	67	31.3	664	70	23.0	587	73	18.2	1.8	2.6	3.4
1750	114	837	68	30.9	711	71	22.6	627	73	17.8	1.9	2.8	3.6
2000	105	878	68	29.7	745	71	21.6	657	73	16.9	2.0	2.9	3.8
2250	100	918	68	29.2	777	72	21.2	684	74	16.6	2.1	3.0	3.9
2500	93	951	69	29.0	803	72	20.9	706	74	16.3	2.2	3.1	4.1
2750	90	985	70	28.6	830	73	20.6	729	74	16.0	2.2	3.2	4.2
3000	84	1006	70	28.3	846	73	20.3	742	75	15.8	2.3	3.3	4.4

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35 kV Shielded Single Conductor Solid Type Paper Lead Sheathed Power Cable

Direct Buried - Triplexed - Double Circuit

25°C Earth Ambient

Condr Size	Sheath Res	60 Rho Amps	60 Rho Interface Temp °C	60 Rho Flux w/ft²	90 Rho Amps	90 Rho Interface Temp °C	90 Rho Flux w/ft²	120 Rho Amps	120 Rho Interface Temp °C	120 Rho Flux w/ft²	delta Td for .0110 pf & Rho 60	90	120
						100% LF							
						80°C - Aluminum Conductor - Compact Round Strand							
4/0	283	241	62	29.8	208	67	22.4	186	69	18.0	1.0	1.4	1.8
250	258	265	63	29.5	228	67	22.0	203	70	17.5	1.0	1.4	1.8
350	240	318	64	29.0	273	68	21.5	242	71	17.1	1.1	1.6	2.0
500	209	384	65	27.0	328	69	19.9	290	71	15.7	1.2	1.8	2.3
750	179	474	67	26.1	402	70	18.9	354	73	14.9	1.4	2.0	2.6
1000	156	546	68	25.2	461	71	18.2	405	73	14.2	1.5	2.2	2.8
1250	146	605	69	24.5	509	72	17.6	446	74	13.7	1.6	2.3	3.0
						80°C - Aluminum Conductor - Concentric Strand							
1500	120	655	70	23.3	548	73	16.5	478	75	12.8	1.8	2.6	3.4
1750	114	695	71	22.7	580	74	16.1	506	75	12.4	1.9	2.8	3.6
2000	105	723	71	21.7	602	74	15.3	525	75	11.8	2.0	2.9	3.8
						80°C - Aluminum Conductor - Compact Segmental Strand							
1000	149	555	69	24.7	468	72	17.7	410	74	13.8	1.6	2.3	3.0
1250	133	617	70	23.9	518	73	17.1	453	74	13.3	1.7	2.5	3.2
1500	120	669	70	23.3	560	73	16.6	489	75	12.8	1.8	2.6	3.4
1750	114	715	71	22.7	596	74	16.1	520	75	12.4	1.9	2.8	3.6
2000	105	748	71	21.8	623	74	15.3	543	75	11.8	2.0	2.9	3.8
2250	100	779	72	21.4	648	74	15.0	564	76	11.6	2.1	3.0	3.9
2500	93	805	72	20.9	668	75	14.7	581	76	11.3	2.2	3.1	4.1
2750	90	831	73	20.7	688	75	14.4	598	76	11.1	2.2	3.2	4.2
3000	84	846	73	20.3	700	75	14.1	607	76	10.8	2.3	3.3	4.4

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1966

35 kV Shielded Single Conductor Solid Type Paper Lead Sheathed Power Cable

Direct Buried - Triplexed - Double Circuit

25°C Earth Ambient

Condr Size	Sheath Res	60 Rho Amps	60 Rho Interface Temp °C	60 Rho Flux w/ft²	90 Rho Amps	90 Rho Interface Temp °C	90 Rho Flux w/ft²	120 Rho Amps	120 Rho Interface Temp °C	120 Rho Flux w/ft²	delta Td for .0110 pf & Rho 60	90	120
						75% LF							
						70°C - Aluminum Conductor - Compact Round Strand							
4/0	283	247	52	30.3	217	56	23.7	196	59	19.3	1.0	1.4	1.8
250	258	272	52	30.2	239	56	23.3	215	59	19.1	1.0	1.4	1.8
350	240	329	54	30.0	287	57	23.0	257	60	18.7	1.1	1.6	2.0
500	209	398	54	28.2	346	58	21.5	310	61	17.4	1.2	1.8	2.3
750	179	495	56	27.7	427	60	20.9	381	62	16.7	1.4	2.0	2.6
1000	156	573	57	27.1	492	61	20.2	437	63	16.1	1.5	2.2	2.8
1250	146	638	58	26.6	546	61	19.7	484	63	15.6	1.6	2.3	3.0
						70°C - Aluminum Conductor - Concentric Strand							
1500	120	695	59	25.7	591	62	18.7	521	64	14.8	1.8	2.6	3.4
1750	114	740	60	25.2	627	63	18.4	552	64	14.4	1.9	2.8	3.6
2000	105	770	60	24.1	652	63	17.6	573	65	13.8	2.0	2.9	3.8
						70°C - Aluminum Conductor - Compact Segmental Strand							
1000	149	586	58	26.7	502	61	19.8	445	63	15.7	1.6	2.3	3.0
1250	133	654	59	26.2	558	62	19.2	493	64	15.2	1.7	2.5	3.2
1500	120	711	59	25.7	604	62	18.7	533	64	14.8	1.8	2.6	3.4
1750	114	762	60	25.3	646	63	18.4	568	64	14.5	1.9	2.8	3.6
2000	105	798	60	24.2	675	63	17.6	594	65	13.9	2.0	2.9	3.8
2250	100	833	61	24.0	703	63	17.3	618	65	13.6	2.1	3.0	3.9
2500	93	863	61	23.6	727	64	17.1	637	65	13.3	2.2	3.1	4.1
2750	90	892	62	23.4	750	64	16.8	657	66	13.1	2.2	3.2	4.2
3000	84	910	62	23.2	764	64	16.5	668	66	12.9	2.3	3.3	4.4

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1967

35 kV Shielded Single Conductor Solid Type Paper Lead Sheathed Power Cable

Direct Buried - Triplexed - Double Circuit

25°C Earth Ambient

Condr Size	Sheath Res	60 Rho Amps	60 Rho Interface Temp °C	60 Rho Flux w/ft²	90 Rho Amps	90 Rho Interface Temp °C	90 Rho Flux w/ft²	120 Rho Amps	120 Rho Interface Temp °C	120 Rho Flux w/ft²	delta Td for .0110 pf & Rho 60	90	120
						100% LF							
						70°C - Aluminum Conductor - Compact Round Strand							
4/0	283	221	55	24.5	191	59	18.3	170	61	14.7	1.0	1.4	1.8
250	258	243	56	24.2	209	60	18.0	186	62	14.4	1.0	1.4	1.8
350	240	292	57	23.8	250	61	17.5	221	63	14.0	1.1	1.6	2.0
500	209	352	58	22.1	300	61	16.3	265	63	12.9	1.2	1.8	2.3
750	179	433	59	21.3	367	62	15.6	323	64	12.2	1.4	2.0	2.6
1000	156	499	60	20.6	420	63	14.9	369	65	11.6	1.5	2.2	2.8
1250	146	552	61	20.1	463	64	14.5	406	65	11.2	1.6	2.3	3.0
						70°C - Aluminum Conductor - Concentric Strand							
1500	120	596	62	19.0	498	65	13.5	434	66	10.5	1.8	2.6	3.4
1750	114	632	63	18.7	526	65	13.1	458	66	10.2	1.9	2.8	3.6
2000	105	656	63	17.8	545	65	12.6	474	66	9.7	2.0	2.9	3.8
						70°C - Aluminum Conductor - Compact Segmental Strand							
1000	149	508	61	20.2	427	63	14.5	374	65	11.3	1.6	2.3	3.0
1250	133	563	62	19.6	472	64	14.0	412	66	10.9	1.7	2.5	3.2
1500	120	610	62	19.1	509	65	13.5	444	66	10.5	1.8	2.6	3.4
1750	114	651	63	18.7	542	65	13.2	472	66	10.2	1.9	2.8	3.6
2000	105	679	63	17.8	565	65	12.6	491	66	9.7	2.0	2.9	3.8
2250	100	707	63	17.5	587	65	12.3	510	67	9.5	2.1	3.0	3.9
2500	93	730	64	17.2	604	66	12.1	524	67	9.3	2.2	3.1	4.1
2750	90	752	64	16.9	622	66	11.8	539	67	9.1	2.2	3.2	4.2
3000	84	765	64	16.6	632	66	11.6	547	67	8.9	2.3	3.3	4.4

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1968

35 kV Shielded Single Conductor Solid Type Paper Lead Sheathed Power Cable

Direct Buried - Triplexed - Double Circuit

25°C Earth Ambient

Condr Size	Sheath Res	60 Rho Interface Temp Amps	60 Rho Interface Temp °C	60 Rho Flux w/ft²	90 Rho Interface Temp Amps	90 Rho Interface Temp °C	90 Rho Flux w/ft²	120 Rho Interface Temp Amps	120 Rho Interface Temp °C	120 Rho Flux w/ft²	delta Td for .0110 pf & Rho 60	90	120
						75% LF							
						65°C - Aluminum Conductor - Compact Round Strand							
4/0	283	235	49	26.9	206	53	20.9	186	55	17.2	1.0	1.4	1.8
250	258	258	49	26.7	226	53	20.8	204	55	16.9	1.0	1.4	1.8
350	240	312	50	26.6	272	54	20.4	244	56	16.6	1.1	1.6	2.0
500	209	378	51	25.2	328	55	19.1	294	57	15.4	1.2	1.8	2.3
750	179	469	53	24.6	405	56	18.5	361	58	14.9	1.4	2.0	2.6
1000	156	543	54	24.1	466	57	17.9	413	58	14.3	1.5	2.2	2.8
1250	146	604	54	23.7	516	57	17.5	456	59	13.8	1.6	2.3	3.0
						65°C - Aluminum Conductor - Concentric Strand							
1500	120	657	56	22.8	557	58	16.7	491	60	13.1	1.8	2.6	3.4
1750	114	698	56	22.5	591	59	16.3	520	60	12.8	1.9	2.8	3.6
2000	105	726	56	21.5	614	59	15.6	539	60	12.2	2.0	2.9	3.8
						65°C - Aluminum Conductor - Compact Segmental Strand							
1000	149	555	54	23.7	475	57	17.6	420	59	13.9	1.6	2.3	3.0
1250	133	619	55	23.3	527	58	17.1	465	59	13.5	1.7	2.5	3.2
1500	120	672	56	22.8	571	58	16.7	503	60	13.2	1.8	2.6	3.4
1750	114	720	56	22.5	609	59	16.3	536	60	12.8	1.9	2.8	3.6
2000	105	753	56	21.6	637	59	15.6	559	60	12.2	2.0	2.9	3.8
2250	100	786	57	21.3	663	59	15.4	581	61	12.0	2.1	3.0	3.9
2500	93	814	57	21.0	684	60	15.2	599	61	11.8	2.2	3.1	4.1
2750	90	841	58	20.8	705	60	14.9	617	61	11.6	2.2	3.2	4.2
3000	84	857	58	20.6	718	60	14.7	627	61	11.4	2.3	3.3	4.4

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35 kV Shielded Single Conductor Solid Type Paper Lead Sheathed Power Cable

Direct Buried - Triplexed - Double Circuit

25°C Earth Ambient

Condr Size	Sheath Res	60 Rho Interface Temp	60 Rho Flux	60 Rho Amps	90 Rho Interface Temp	90 Rho Flux	90 Rho Amps	120 Rho Interface Temp	120 Rho Flux	120 Rho Amps	delta Td for .0110 pf & Rho 60	90	120
		°C	w/ft²	Amps	°C	w/ft²	Amps	°C	w/ft²	Amps			
100% LF													
65°C - Aluminum Conductor - Compact Round Strand													
4/0	283	52	21.7	210	55	16.4	181	57	13.0	161	1.0	1.4	1.8
250	258	53	21.6	230	56	16.1	198	58	12.8	176	1.0	1.4	1.8
350	240	54	21.2	277	57	15.6	237	58	12.4	210	1.1	1.6	2.0
500	209	54	19.8	333	57	14.5	284	59	11.5	251	1.2	1.8	2.3
750	179	55	19.1	411	58	13.8	348	60	10.9	306	1.4	2.0	2.6
1000	156	56	18.4	472	59	13.2	397	60	10.3	348	1.5	2.2	2.8
1250	146	57	17.9	522	59	12.8	438	61	10.0	383	1.6	2.3	3.0
65°C - Aluminum Conductor - Concentric Strand													
1500	120	58	16.9	563	60	12.0	470	61	9.4	409	1.8	2.6	3.4
1750	114	59	16.6	597	61	11.8	496	62	9.1	431	1.9	2.8	3.6
2000	105	59	15.8	618	61	11.1	514	62	8.6	446	2.0	2.9	3.8
65°C - Aluminum Conductor - Compact Segmental Strand													
1000	149	57	18.0	481	59	12.9	404	61	10.1	353	1.6	2.3	3.0
1250	133	58	17.5	533	60	12.5	446	61	9.7	389	1.7	2.5	3.2
1500	120	58	17.0	577	60	12.0	481	61	9.4	419	1.8	2.6	3.4
1750	114	59	16.7	615	61	11.8	511	62	9.1	444	1.9	2.8	3.6
2000	105	59	15.8	641	61	11.2	532	62	8.7	462	2.0	2.9	3.8
2250	100	59	15.6	667	61	10.9	553	62	8.5	479	2.1	3.0	3.9
2500	93	60	15.3	688	61	10.7	569	62	8.3	492	2.2	3.1	4.1
2750	90	60	15.0	709	61	10.6	585	62	8.1	506	2.2	3.2	4.2
3000	84	60	14.8	721	62	10.3	594	63	7.9	513	2.3	3.3	4.4

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1970

35 kV Shielded Single Conductor Solid Type Paper Lead Sheathed Power Cable

Direct Buried - Triplexed - Double Circuit

25°C Earth Ambient

Condr Size	Sheath Res	---- 60 Rho--- Amps	Interface Temp °C	Flux w/ft²	---- 90 Rho--- Amps	Interface Temp °C	Flux w/ft²	----120 Rho--- Amps	Interface Temp °C	Flux w/ft²	delta Td for .0110 pf & Rho 60	90	120
						75% LF							
						50°C - Aluminum Conductor - Compact Round Strand							
4/0	283	189	40	16.9	165	42	13.1	149	44	10.7	1.0	1.4	1.8
250	258	208	40	16.7	181	43	13.0	163	44	10.5	1.0	1.4	1.8
350	240	251	41	16.6	218	43	12.7	195	45	10.3	1.1	1.6	2.0
500	209	303	42	15.7	262	44	11.9	233	45	9.6	1.2	1.8	2.3
750	179	375	42	15.3	322	44	11.5	285	46	9.2	1.4	2.0	2.6
1000	156	433	43	15.0	369	45	11.1	326	46	8.9	1.5	2.2	2.8
1250	146	480	44	14.8	407	45	10.9	358	46	8.6	1.6	2.3	3.0
						50°C - Aluminum Conductor - Concentric Strand							
1500	120	519	44	14.2	438	46	10.3	383	47	8.0	1.8	2.6	3.4
1750	114	551	45	14.0	463	46	10.1	404	47	7.9	1.9	2.8	3.6
2000	105	571	45	13.3	479	46	9.6	417	47	7.5	2.0	2.9	3.8
						50°C - Aluminum Conductor - Compact Segmental Strand							
1000	149	442	43	14.8	376	45	10.9	331	46	8.6	1.6	2.3	3.0
1250	133	492	44	14.5	416	46	10.6	365	47	8.3	1.7	2.5	3.2
1500	120	533	44	14.2	449	46	10.3	393	47	8.1	1.8	2.6	3.4
1750	114	569	45	14.0	478	46	10.1	417	47	7.9	1.9	2.8	3.6
2000	105	594	45	13.4	498	46	9.7	433	47	7.6	2.0	2.9	3.8
2250	100	618	45	13.2	517	47	9.5	449	47	7.4	2.1	3.0	3.9
2500	93	638	45	13.1	532	47	9.4	461	48	7.2	2.2	3.1	4.1
2750	90	658	46	13.0	547	47	9.2	474	48	7.1	2.2	3.2	4.2
3000	84	670	46	12.8	555	47	9.1	480	48	7.0	2.3	3.3	4.4

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1971

35 kV Shielded Single Conductor Solid Type Paper Lead Sheathed Power Cable

Direct Buried - Triplexed - Double Circuit

25°C Earth Ambient

Condr Size	Sheath Res	60 Rho Amps	60 Rho Interface Temp °C	60 Rho Flux w/ft²	90 Rho Amps	90 Rho Interface Temp °C	90 Rho Flux w/ft²	120 Rho Amps	120 Rho Interface Temp °C	120 Rho Flux w/ft²	delta Td for .0110 pf & Rho 60	90	120
						100% LF							
						50°C - Aluminum Conductor - Compact Round Strand							
4/0	283	169	42	13.6	145	44	10.2	129	45	8.1	1.0	1.4	1.8
250	258	185	42	13.4	159	44	10.0	141	46	8.0	1.0	1.4	1.8
350	240	222	43	13.2	189	45	9.9	167	46	7.8	1.1	1.6	2.0
500	209	267	43	12.4	227	45	9.1	199	46	7.2	1.2	1.8	2.3
750	179	328	44	12.0	276	46	8.6	242	47	6.8	1.4	2.0	2.6
1000	156	376	45	11.5	315	46	8.3	274	47	6.5	1.5	2.2	2.8
1250	146	415	45	11.2	346	47	8.1	300	48	6.3	1.6	2.3	3.0
						50°C - Aluminum Conductor - Concentric Strand							
1500	120	445	46	10.7	369	47	7.6	319	48	5.9	1.8	2.6	3.4
1750	114	471	46	10.4	388	47	7.3	335	48	5.7	1.9	2.8	3.6
2000	105	486	46	9.9	400	47	7.0	345	48	5.4	2.0	2.9	3.8
						50°C - Aluminum Conductor - Compact Segmental Strand							
1000	149	383	45	11.3	320	47	8.1	278	47	6.3	1.6	2.3	3.0
1250	133	424	46	11.0	352	47	7.8	305	48	6.1	1.7	2.5	3.2
1500	120	457	46	10.7	378	47	7.6	327	48	5.9	1.8	2.6	3.4
1750	114	486	46	10.4	401	47	7.3	346	48	5.7	1.9	2.8	3.6
2000	105	505	46	9.9	416	48	7.1	358	48	5.4	2.0	2.9	3.8
2250	100	525	47	9.8	431	48	6.9	370	48	5.3	2.1	3.0	3.9
2500	93	540	47	9.6	442	48	6.7	379	48	5.2	2.2	3.1	4.1
2750	90	555	47	9.5	454	48	6.6	388	49	5.1	2.2	3.2	4.2
3000	84	563	47	9.3	459	48	6.5	393	49	4.9	2.3	3.3	4.4

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1972

35 kV Shielded Single Conductor Solid Type Paper Lead Sheathed Power Cable

Direct Buried - 1 Circuit - Three Cables - Spaced

25°C Earth Ambient

Condr Size	Sheath Res	60 Rho Amps	60 Rho Interface Temp °C	60 Rho Flux w/ft²	90 Rho Amps	90 Rho Interface Temp °C	90 Rho Flux w/ft²	120 Rho Amps	120 Rho Interface Temp °C	120 Rho Flux w/ft²	delta Td for .0110 pf & Rho 60	90	120
						75% LF							
						80°C - Aluminum Conductor - Compact Round Strand							
4/0	283	319	48	30.9	290	54	25.5	268	58	21.9	0.6	0.8	0.9
250	258	351	49	31.3	318	55	25.8	293	59	22.1	0.6	0.8	1.0
350	240	423	51	32.7	381	57	26.6	349	61	22.4	0.7	0.9	1.1
500	209	507	53	32.6	453	59	26.1	413	62	21.8	0.7	1.0	1.2
750	179	617	56	34.4	547	61	27.2	496	65	22.4	0.8	1.0	1.4
1000	156	698	58	35.4	614	63	27.5	554	67	22.5	0.8	1.1	1.4
1000	Open	817	54	26.4	730	59	21.1	665	63	17.6	0.9	1.2	1.5
1250	146	763	60	36.1	666	65	27.6	599	68	22.5	0.9	1.2	1.5
1250	Open	928	55	26.1	825	60	20.8	751	63	17.3	0.9	1.3	1.6
						80°C - Aluminum Conductor - Concentric Strand							
1500	120	816	62	36.1	707	67	27.2	632	69	21.8	1.0	1.3	1.7
1500	Open	1044	56	25.4	923	62	20.0	835	65	16.4	1.0	1.4	1.8
1750	114	859	63	36.1	741	68	27.0	661	70	21.6	1.0	1.4	1.8
1750	Open	1134	57	25.2	1000	62	19.7	903	65	16.1	1.1	1.5	1.9
2000	Open	1205	57	23.9	1062	62	18.6	959	66	15.2	1.1	1.6	2.0
						80°C - Aluminum Conductor - Compact Segmental Strand							
1000	149	713	59	35.1	625	64	27.2	563	67	22.1	0.9	1.2	1.5
1000	Open	839	54	26.2	747	60	20.9	680	63	17.4	0.9	1.2	1.6
1250	133	776	61	35.8	676	66	27.3	606	68	22.0	0.9	1.2	1.6
1250	Open	959	55	25.8	850	61	20.5	771	64	16.8	1.0	1.3	1.7
1500	120	827	63	36.2	716	67	27.3	640	70	21.9	1.0	1.3	1.7

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1973

35 kV Shielded Single Conductor Solid Type Paper Lead Sheathed Power Cable

Direct Buried - 1 Circuit - Three Cables - Spaced

25°C Earth Ambient

Condr Size	Sheath Res	60 Rho Amps	60 Rho Interface Temp °C	60 Rho Flux w/ft²	90 Rho Amps	90 Rho Interface Temp °C	90 Rho Flux w/ft²	120 Rho Amps	120 Rho Interface Temp °C	120 Rho Flux w/ft²	delta Td for .0110 pf & Rho 60	90	120
						100% LF							
						80°C - Aluminum Conductor - Compact Round Strand							
4/0	283	293	53	26.0	261	59	20.8	238	62	17.2	0.6	0.8	0.9
250	258	321	54	26.3	285	60	20.8	259	63	17.4	0.6	0.8	1.0
350	240	385	56	27.1	339	62	21.0	306	65	17.3	0.7	0.9	1.1
500	209	457	58	26.6	400	63	20.5	360	67	16.7	0.7	1.0	1.2
750	179	552	61	27.6	478	66	20.7	427	69	16.7	0.8	1.0	1.4
1000	156	622	64	28.2	534	68	20.9	474	71	16.5	0.8	1.1	1.4
1000	Open	736	59	21.5	643	64	16.5	577	67	13.4	0.9	1.2	1.5
1250	146	675	65	28.4	578	69	21.0	512	72	16.5	0.9	1.2	1.5
1250	Open	832	60	21.1	724	65	16.1	649	68	13.0	0.9	1.3	1.6
						80°C - Aluminum Conductor - Concentric Strand							
1500	120	716	67	27.8	609	71	20.3	538	73	15.9	1.0	1.3	1.7
1500	Open	929	61	20.1	803	66	15.2	717	69	12.2	1.0	1.4	1.8
1750	114	750	68	27.8	636	71	20.0	560	74	15.7	1.0	1.4	1.8
1750	Open	1005	62	19.8	867	67	15.0	773	69	11.9	1.1	1.5	1.9
2000	Open	1067	62	18.7	921	67	14.2	820	69	11.3	1.1	1.6	2.0
						80°C - Aluminum Conductor - Compact Segmental Strand							
1000	149	632	64	27.9	541	69	20.4	481	71	16.2	0.9	1.2	1.5
1000	Open	753	59	21.3	656	64	16.2	588	67	13.2	0.9	1.2	1.6
1250	133	685	66	27.9	585	70	20.5	517	72	16.2	0.9	1.2	1.6
1250	Open	856	60	20.6	743	65	15.7	664	68	12.7	1.0	1.3	1.7
1500	120	725	67	27.9	616	71	20.3	544	73	15.9	1.0	1.3	1.7

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1974

35 kV Shielded Single Conductor Solid Type Paper Lead Sheathed Power Cable

Direct Buried - 1 Circuit - Three Cables - Spaced

25°C Earth Ambient

Condr Size	Sheath Res	60 Rho Amps	60 Rho Interface Temp °C	60 Rho Flux w/ft²	90 Rho Amps	90 Rho Interface Temp °C	90 Rho Flux w/ft²	120 Rho Amps	120 Rho Interface Temp °C	120 Rho Flux w/ft²	delta Td for .0110 pf & Rho 60	90	120
						75% LF							
						70°C - Aluminum Conductor - Compact Round Strand							
4/0	283	292	44	25.5	266	49	21.1	245	52	18.0	0.6	0.8	0.9
250	258	321	45	25.8	291	50	21.3	268	53	18.1	0.6	0.8	1.0
350	240	387	47	27.1	348	51	21.9	319	54	18.4	0.7	0.9	1.1
500	209	462	48	27.2	413	53	21.8	376	56	18.0	0.7	1.0	1.2
750	179	560	51	28.5	496	55	22.4	449	58	18.5	0.8	1.0	1.3
1000	156	631	53	29.4	554	57	22.7	499	59	18.5	0.8	1.1	1.4
1000	Open	750	48	21.7	669	53	17.3	609	56	14.4	0.9	1.2	1.5
1250	146	688	54	29.9	600	58	22.8	538	60	18.5	0.9	1.2	1.5
1250	Open	851	49	21.5	756	54	17.0	687	57	14.1	0.9	1.3	1.6
						70°C - Aluminum Conductor - Concentric Strand							
1500	120	734	56	29.9	635	59	22.4	567	62	18.0	1.0	1.3	1.7
1500	Open	956	51	20.7	844	55	16.4	764	58	13.4	1.0	1.4	1.8
1750	114	771	57	29.9	664	60	22.3	591	62	17.8	1.0	1.4	1.8
1750	Open	1038	51	20.6	914	56	16.1	825	58	13.1	1.1	1.5	1.9
2000	Open	1103	51	19.6	971	56	15.2	876	58	12.5	1.1	1.6	2.0
						70°C - Aluminum Conductor - Compact Segmental Strand							
1000	149	644	53	29.2	564	57	22.5	507	60	18.2	0.9	1.2	1.5
1000	Open	770	49	21.4	685	53	17.1	623	56	14.2	0.9	1.2	1.6
1250	133	700	55	29.8	608	59	22.5	545	61	18.2	0.9	1.2	1.6
1250	Open	879	50	21.1	779	54	16.6	706	57	13.8	1.0	1.3	1.7
1500	120	744	56	30.1	642	60	22.5	574	62	18.0	1.0	1.3	1.7

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1975

35 kV Shielded Single Conductor Solid Type Paper Lead Sheathed Power Cable

Direct Buried - 1 Circuit - Three Cables - Spaced

25°C Earth Ambient

Condr Size	Sheath Res	60 Rho Amps	60 Rho Interface Temp °C	60 Rho Flux w/ft²	90 Rho Amps	90 Rho Interface Temp °C	90 Rho Flux w/ft²	120 Rho Amps	120 Rho Interface Temp °C	120 Rho Flux w/ft²	delta Td for .0110 pf & Rho 60	90	120
						100% LF							
						70°C - Aluminum Conductor - Compact Round Strand							
4/0	283	269	48	21.6	239	53	17.2	218	56	14.1	0.6	0.8	0.9
250	258	294	49	21.8	261	54	17.1	237	57	14.1	0.6	0.8	1.0
350	240	352	51	22.4	309	55	17.5	279	58	14.2	0.7	0.9	1.1
500	209	416	52	22.0	364	57	16.9	327	59	13.8	0.7	1.0	1.2
750	179	501	55	22.8	433	59	17.1	386	61	13.7	0.8	1.0	1.3
1000	156	562	57	23.4	482	60	17.3	428	63	13.7	0.8	1.1	1.4
1000	Open	675	53	17.6	589	57	13.6	529	59	10.9	0.9	1.2	1.5
1250	146	608	58	23.5	520	62	17.3	460	63	13.6	0.9	1.2	1.5
1250	Open	763	53	17.3	663	57	13.1	594	60	10.6	0.9	1.3	1.6
						70°C - Aluminum Conductor - Concentric Strand							
1500	120	643	60	23.0	546	63	16.7	482	64	13.1	1.0	1.3	1.7
1500	Open	850	55	16.5	735	59	12.5	656	61	10.1	1.0	1.4	1.8
1750	114	673	60	22.9	569	63	16.5	501	65	12.9	1.0	1.4	1.8
1750	Open	920	55	16.3	793	59	12.2	706	61	9.8	1.1	1.5	1.9
2000	Open	976	55	15.4	841	59	11.6	749	61	9.3	1.1	1.6	2.0
						70°C - Aluminum Conductor - Compact Segmental Strand							
1000	149	572	58	23.1	489	61	17.1	433	63	13.5	0.9	1.2	1.5
1000	Open	691	53	17.4	602	57	13.2	539	60	10.6	0.9	1.2	1.6
1250	133	617	59	23.1	526	62	17.0	464	64	13.3	0.9	1.2	1.6
1250	Open	786	54	17.0	681	58	12.8	609	60	10.3	1.0	1.3	1.7
1500	120	651	60	23.1	553	63	16.8	487	64	13.2	1.0	1.3	1.7

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1976

35 kV Shielded Single Conductor Solid Type Paper Lead Sheathed Power Cable

Direct Buried - 1 Circuit - Three Cables - Spaced

25°C Earth Ambient

Condr Size	Sheath Res	60 Rho Amps	60 Rho Interface Temp °C	60 Rho Flux w/ft²	90 Rho Amps	90 Rho Interface Temp °C	90 Rho Flux w/ft²	120 Rho Amps	120 Rho Interface Temp °C	120 Rho Flux w/ft²	delta Td for .0110 pf & Rho 60	90	120
						75% LF							
						65°C - Aluminum Conductor - Compact Round Strand							
4/0	283	277	42	22.6	252	46	18.8	233	49	15.9	0.6	0.8	0.9
250	258	305	43	23.1	276	47	19.1	254	50	16.1	0.6	0.8	1.0
350	240	367	45	24.3	330	49	19.6	302	51	16.6	0.7	0.9	1.1
500	209	437	46	24.3	390	50	19.5	356	52	16.1	0.7	1.0	1.2
750	179	528	48	25.5	467	52	20.0	423	54	16.5	0.8	1.0	1.3
1000	156	595	50	26.4	521	53	20.2	469	56	16.5	0.8	1.1	1.4
1000	Open	712	46	19.2	635	50	15.3	578	52	12.8	0.9	1.2	1.5
1250	146	647	51	26.8	564	54	20.5	505	56	16.5	0.9	1.2	1.5
1250	Open	807	47	19.0	717	51	15.1	651	53	12.5	0.9	1.3	1.6
						65°C - Aluminum Conductor - Concentric Strand							
1500	120	689	53	26.7	595	56	20.0	531	58	16.1	1.0	1.3	1.7
1500	Open	907	48	18.5	800	52	14.4	724	54	11.9	1.0	1.4	1.8
1750	114	723	53	26.7	622	56	20.0	554	58	15.8	1.0	1.4	1.8
1750	Open	984	48	18.3	866	52	14.2	781	55	11.6	1.1	1.5	1.9
2000	Open	1045	49	17.4	919	52	13.5	829	55	11.1	1.1	1.6	2.0
						65°C - Aluminum Conductor - Compact Segmental Strand							
1000	149	607	50	26.2	530	54	20.1	477	56	16.2	0.9	1.2	1.5
1000	Open	732	46	19.1	650	50	15.2	591	53	12.7	0.9	1.2	1.6
1250	133	659	52	26.6	571	55	20.1	511	57	16.2	0.9	1.2	1.6
1250	Open	835	47	18.7	739	51	14.7	670	54	12.2	1.0	1.3	1.7
1500	120	699	53	26.9	603	56	20.1	538	58	16.1	1.0	1.3	1.7

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35 kV Shielded Single Conductor Solid Type Paper Lead Sheathed Power Cable

Direct Buried - 1 Circuit - Three Cables - Spaced

25°C Earth Ambient

Condr Size	Sheath Res	60 Rho Amps	60 Rho Interface Temp °C	60 Rho Flux w/ft²	90 Rho Amps	90 Rho Interface Temp °C	90 Rho Flux w/ft²	120 Rho Amps	120 Rho Interface Temp °C	120 Rho Flux w/ft²	delta Td for .0110 pf & Rho 60	90	120
						100% LF							
						65°C - Aluminum Conductor - Compact Round Strand							
4/0	283	255	46	19.3	227	50	15.2	206	52	12.6	0.6	0.8	0.9
250	258	279	47	19.3	247	51	15.4	224	53	12.6	0.6	0.8	1.0
350	240	333	48	20.1	293	52	15.6	264	54	12.8	0.7	0.9	1.1
500	209	394	50	19.7	344	53	15.1	309	56	12.3	0.7	1.0	1.2
750	179	473	52	20.5	408	55	15.4	364	57	12.4	0.8	1.0	1.3
1000	156	529	54	20.9	454	57	15.5	402	58	12.3	0.8	1.1	1.4
1000	Open	641	50	15.7	559	53	12.0	502	56	9.7	0.9	1.2	1.5
1250	146	572	55	21.0	489	58	15.5	432	59	12.1	0.9	1.2	1.5
1250	Open	724	50	15.3	629	54	11.6	563	56	9.5	0.9	1.3	1.6
						65°C - Aluminum Conductor - Concentric Strand							
1500	120	604	56	20.6	512	59	14.9	451	60	11.7	1.0	1.3	1.7
1500	Open	807	52	14.7	697	55	11.1	621	57	8.9	1.0	1.4	1.8
1750	114	631	56	20.4	533	59	14.8	469	60	11.5	1.0	1.4	1.8
1750	Open	872	52	14.4	752	55	10.8	669	57	8.6	1.1	1.5	1.9
2000	Open	925	52	13.8	797	55	10.3	709	57	8.2	1.1	1.6	2.0
						65°C - Aluminum Conductor - Compact Segmental Strand							
1000	149	538	54	20.6	460	57	15.2	407	59	12.0	0.9	1.2	1.5
1000	Open	656	50	15.4	571	54	11.8	511	56	9.5	0.9	1.2	1.6
1250	133	580	55	20.8	494	58	15.2	436	60	11.9	0.9	1.2	1.6
1250	Open	746	51	15.1	646	54	11.4	577	57	9.2	1.0	1.3	1.7
1500	120	612	56	20.7	518	59	15.0	457	60	11.7	1.0	1.3	1.7

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1978

35 kV Shielded Single Conductor Solid Type Paper Lead Sheathed Power Cable

Direct Buried - 1 Circuit - Three Cables - Spaced

25°C Earth Ambient

Condr Size	Sheath Res	60 Rho Amps	60 Rho Interface Temp °C	60 Rho Flux w/ft²	90 Rho Amps	90 Rho Interface Temp °C	90 Rho Flux w/ft²	120 Rho Amps	120 Rho Interface Temp °C	120 Rho Flux w/ft²	delta Td for .0110 pf & Rho 60	90	120
						75% LF							
						50°C - Aluminum Conductor - Compact Round Strand							
4/0	283	223	36	14.4	202	39	11.8	186	40	10.0	0.6	0.8	0.9
250	258	245	37	14.6	221	39	12.2	203	41	10.2	0.6	0.8	1.0
350	240	294	38	15.4	263	40	12.4	240	42	10.5	0.7	0.9	1.1
500	209	348	38	15.5	310	41	12.3	282	42	10.3	0.7	1.0	1.2
750	179	418	40	16.4	368	42	12.7	332	44	10.5	0.8	1.0	1.3
1000	156	467	41	16.9	408	43	12.8	366	44	10.4	0.8	1.1	1.4
1000	Open	573	38	12.0	510	41	9.5	463	42	7.9	0.9	1.2	1.5
1250	146	506	42	17.1	439	44	13.0	392	45	10.5	0.9	1.2	1.5
1250	Open	649	39	11.8	575	41	9.5	520	43	7.8	0.9	1.3	1.6
						50°C - Aluminum Conductor - Concentric Strand							
1500	120	536	43	17.0	461	45	12.6	410	46	10.1	1.0	1.3	1.7
1500	Open	728	40	11.6	641	42	9.0	577	43	7.4	1.0	1.4	1.8
1750	114	561	43	17.0	480	45	12.5	426	46	9.9	1.0	1.4	1.8
1750	Open	789	40	11.4	692	42	8.9	622	44	7.2	1.1	1.5	1.9
2000	Open	837	40	10.8	733	42	8.5	659	44	6.9	1.1	1.6	2.0
						50°C - Aluminum Conductor - Compact Segmental Strand							
1000	149	477	41	16.7	415	43	12.7	371	45	10.3	0.9	1.2	1.5
1000	Open	589	39	12.0	523	41	9.5	473	43	7.8	0.9	1.2	1.6
1250	133	515	42	17.0	445	44	12.7	396	45	10.1	0.9	1.2	1.6
1250	Open	672	39	11.7	594	42	9.2	536	43	7.6	1.0	1.3	1.7
1500	120	544	43	17.1	467	45	12.8	415	46	10.2	1.0	1.3	1.7

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1979

35 kV Shielded Single Conductor Solid Type Paper Lead Sheathed Power Cable

Direct Buried - 1 Circuit - Three Cables - Spaced

25°C Earth Ambient

Condr Size	Sheath Res	60 Rho Interface Temp	60 Rho Flux	60 Rho Amps	90 Rho Interface Temp	90 Rho Flux	90 Rho Amps	120 Rho Interface Temp	120 Rho Flux	120 Rho Amps	delta Td for .0110 pf & Rho 60	90	120
		°C	w/ft²	Amps	°C	w/ft²	Amps	°C	w/ft²	Amps			
						100% LF							
						50°C - Aluminum Conductor - Compact Round Strand							
4/0	283	38	12.1	205	41	9.8	165	42	8.0		0.6	0.8	0.9
250	258	39	12.4	224	41	9.7	179	43	7.9		0.6	0.8	1.0
350	240	40	12.8	267	42	9.8	210	44	8.2		0.7	0.9	1.1
500	209	41	12.6	314	43	9.6	244	44	7.7		0.7	1.0	1.2
750	179	42	13.1	374	44	9.9	286	45	7.8		0.8	1.0	1.3
1000	156	43	13.4	415	45	9.9	313	46	7.7		0.8	1.1	1.4
1000	Open	40	9.9	516	43	7.6	402	44	6.2		0.9	1.2	1.5
1250	146	44	13.5	447	46	9.8	335	47	7.7		0.9	1.2	1.5
1250	Open	41	9.6	582	43	7.3	450	45	6.0		0.9	1.3	1.6
						50°C - Aluminum Conductor - Concentric Strand							
1500	120	45	13.1	469	46	9.5	348	47	7.4		1.0	1.3	1.7
1500	Open	42	9.2	648	44	6.9	496	45	5.6		1.0	1.4	1.8
1750	114	45	12.9	488	46	9.3	360	47	7.2		1.0	1.4	1.8
1750	Open	42	9.1	699	44	6.8	533	45	5.5		1.1	1.5	1.9
2000	Open	42	8.6	741	44	6.5	563	45	5.1		1.1	1.6	2.0
						50°C - Aluminum Conductor - Compact Segmental Strand							
1000	149	43	13.2	422	45	9.6	317	46	7.6		0.9	1.2	1.5
1000	Open	41	9.6	529	43	7.4	410	45	5.9		0.9	1.2	1.6
1250	133	44	13.2	452	46	9.7	338	47	7.6		0.9	1.2	1.6
1250	Open	41	9.4	600	44	7.1	462	45	5.7		1.0	1.3	1.7
1500	120	45	13.2	475	46	9.5	352	47	7.4		1.0	1.3	1.7

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1980

35 kV Shielded Single Conductor Solid Type Paper Lead Sheathed Power Cable

Direct Buried - 2 Circuits - Six Cables - Spaced

25°C Earth Ambient

Condr Size	Sheath Res	60 Rho Amps	60 Rho Interface Temp °C	60 Rho Flux w/ft²	90 Rho Amps	90 Rho Interface Temp °C	90 Rho Flux w/ft²	120 Rho Amps	120 Rho Interface Temp °C	120 Rho Flux w/ft²	delta Td for .0110 pf & Rho 60	90	120
						75% LF							
						80°C - Aluminum Conductor - Compact Round Strand							
4/0	283	304	51	28.0	273	57	22.9	250	60	19.3	0.7	0.9	1.1
250	258	333	52	28.5	298	58	22.8	273	61	19.1	0.7	0.9	1.2
350	240	398	54	29.2	354	60	23.3	322	63	19.4	0.8	1.0	1.3
500	209	471	56	28.7	417	61	22.6	377	65	18.4	0.8	1.1	1.4
750	179	567	59	29.7	496	64	22.8	446	67	18.5	0.9	1.3	1.6
1000	156	636	62	30.3	552	66	22.9	494	69	18.3	1.0	1.4	1.8
1000	Open	771	57	23.6	680	62	18.5	615	65	15.1	1.0	1.4	1.8
1250	146	691	63	30.4	596	68	22.8	531	70	18.1	1.1	1.5	1.9
1250	Open	873	58	23.1	767	63	18.0	692	66	14.8	1.1	1.5	2.0
						80°C - Aluminum Conductor - Concentric Strand							
1500	120	733	66	30.1	627	69	22.1	556	72	17.4	1.2	1.7	2.2
1500	Open	978	59	22.4	854	64	17.1	767	67	14.0	1.2	1.7	2.2
1750	114	769	67	30.1	654	70	21.9	579	72	17.3	1.3	1.8	2.3
1750	Open	1059	60	22.0	923	65	16.8	827	68	13.7	1.3	1.8	2.3
2000	Open	1125	60	20.9	980	65	15.9	878	68	12.9	1.4	1.9	2.5
						80°C - Aluminum Conductor - Compact Segmental Strand							
1000	149	648	63	29.9	560	67	22.5	500	70	17.9	1.1	1.5	1.9
1000	Open	790	57	23.3	695	62	18.1	627	66	14.9	1.1	1.5	1.9
1250	133	701	64	30.1	603	68	22.4	535	71	17.8	1.1	1.6	2.1
1250	Open	900	58	22.8	789	63	17.6	710	67	14.4	1.2	1.6	2.1
1500	120	742	66	30.2	634	70	22.2	562	72	17.6	1.2	1.7	2.2

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1981

35 kV Shielded Single Conductor Solid Type Paper Lead Sheathed Power Cable

Direct Buried - 2 Circuits - Six Cables - Spaced

25°C Earth Ambient

Condr Size	Sheath Res	---- 60 Rho--- Interface Temp Amps	Interface Temp °C	Flux w/ft²	---- 90 Rho--- Interface Temp Amps	Interface Temp °C	Flux w/ft²	----120 Rho--- Interface Temp Amps	Interface Temp °C	Flux w/ft²	delta Td for .0110 pf & Rho 60	90	120
						100% LF							
						80°C - Aluminum Conductor - Compact Round Strand							
4/0	283	275	56	23.1	243	62	18.0	219	65	14.9	0.7	0.9	1.1
250	258	300	57	23.3	264	63	18.1	238	66	14.6	0.7	0.9	1.2
350	240	357	59	23.6	311	64	18.0	279	67	14.5	0.8	1.0	1.3
500	209	419	61	22.8	363	66	17.2	325	69	13.8	0.8	1.1	1.4
750	179	499	64	23.0	428	68	17.1	380	71	13.5	0.9	1.3	1.6
1000	156	555	66	23.1	472	70	16.9	417	72	13.2	1.0	1.4	1.8
1000	Open	683	62	18.5	591	66	14.1	526	69	11.3	1.0	1.4	1.8
1250	146	599	68	23.0	507	71	16.6	447	73	13.0	1.1	1.5	1.9
1250	Open	770	63	18.1	663	67	13.5	590	70	10.8	1.1	1.5	2.0
						80°C - Aluminum Conductor - Concentric Strand							
1500	120	630	69	22.4	536	73	16.2	465	74	12.3	1.2	1.7	2.2
1500	Open	856	64	17.3	733	68	12.8	650	71	10.1	1.2	1.7	2.2
1750	114	657	70	22.1	551	73	15.7	483	75	12.1	1.3	1.8	2.3
1750	Open	924	65	16.8	790	69	12.4	699	71	9.8	1.3	1.8	2.3
2000	Open	980	65	15.9	837	69	11.7	741	71	9.3	1.4	1.9	2.5
						80°C - Aluminum Conductor - Compact Segmental Strand							
1000	149	563	67	22.6	478	71	16.4	422	73	12.8	1.1	1.5	1.9
1000	Open	697	62	18.2	601	67	13.7	535	70	11.0	1.1	1.5	1.9
1250	133	605	68	22.5	516	72	16.5	450	74	12.7	1.1	1.6	2.1
1250	Open	791	63	17.8	679	68	13.2	603	70	10.5	1.2	1.6	2.1
1500	120	638	70	22.4	542	73	16.4	470	74	12.5	1.2	1.7	2.2

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1982

35 kV Shielded Single Conductor Solid Type Paper Lead Sheathed Power Cable

Direct Buried - 2 Circuits - Six Cables - Spaced

25°C Earth Ambient

Condr Size	Sheath Res	60 Rho Amps	60 Rho Interface Temp °C	60 Rho Flux w/ft²	90 Rho Amps	90 Rho Interface Temp °C	90 Rho Flux w/ft²	120 Rho Amps	120 Rho Interface Temp °C	120 Rho Flux w/ft²	delta Td for .0110 pf & Rho 60	90	120
						75% LF							
						70°C - Aluminum Conductor - Compact Round Strand							
4/0	283	278	47	23.1	250	51	18.8	229	54	15.7	0.7	0.9	1.1
250	258	304	48	23.6	272	52	18.9	249	55	15.9	0.7	0.9	1.2
350	240	364	49	24.3	323	54	19.1	294	57	15.9	0.8	1.0	1.3
500	209	429	51	23.6	379	55	18.6	343	58	15.3	0.8	1.1	1.4
750	179	514	53	24.5	449	57	18.8	403	60	15.2	0.9	1.3	1.6
1000	156	574	55	25.0	497	59	18.8	444	61	15.1	1.0	1.4	1.8
1000	Open	707	51	19.2	623	55	15.1	563	58	12.3	1.0	1.4	1.8
1250	146	622	57	25.3	536	60	18.8	476	62	15.0	1.1	1.5	1.9
1250	Open	800	52	19.0	703	56	14.8	633	59	12.0	1.1	1.5	2.0
						70°C - Aluminum Conductor - Concentric Strand							
1500	120	658	59	24.8	562	62	18.2	497	63	14.4	1.2	1.7	2.2
1500	Open	895	53	18.3	781	57	14.0	701	60	11.4	1.2	1.7	2.2
1750	114	689	59	24.9	586	62	18.1	517	64	14.2	1.3	1.8	2.3
1750	Open	969	54	18.0	844	58	13.8	755	60	11.1	1.3	1.8	2.3
2000	Open	1029	54	17.1	895	58	13.1	801	60	10.5	1.4	1.9	2.5
						70°C - Aluminum Conductor - Compact Segmental Strand							
1000	149	585	56	24.8	505	60	18.6	450	62	14.9	1.1	1.5	1.9
1000	Open	725	52	19.1	637	56	14.9	575	58	12.2	1.1	1.5	1.9
1250	133	631	58	24.9	541	61	18.6	480	63	14.6	1.1	1.6	2.1
1250	Open	825	52	18.7	722	57	14.4	650	59	11.7	1.2	1.6	2.1
1500	120	667	59	25.1	568	62	18.3	503	64	14.4	1.2	1.7	2.2

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1983

35 kV Shielded Single Conductor Solid Type Paper Lead Sheathed Power Cable

Direct Buried - 2 Circuits - Six Cables - Spaced

25°C Earth Ambient

Condr Size	Sheath Res	60 Rho Amps	60 Rho Interface Temp °C	60 Rho Flux w/ft²	90 Rho Amps	90 Rho Interface Temp °C	90 Rho Flux w/ft²	120 Rho Amps	120 Rho Interface Temp °C	120 Rho Flux w/ft²	delta Td for .0110 pf & Rho 60	90	120
						100% LF							
						70°C - Aluminum Conductor - Compact Round Strand							
4/0	283	252	51	19.0	222	55	14.9	200	58	12.1	0.7	0.9	1.1
250	258	275	52	19.1	241	56	14.9	217	59	12.2	0.7	0.9	1.2
350	240	326	53	19.4	284	57	14.9	254	60	11.9	0.8	1.0	1.3
500	209	382	55	18.8	330	59	14.2	294	61	11.3	0.8	1.1	1.4
750	179	452	57	19.0	387	61	14.1	343	63	11.2	0.9	1.3	1.6
1000	156	501	59	19.2	425	62	13.9	379	64	11.1	1.0	1.4	1.8
1000	Open	626	55	15.1	541	59	11.4	482	61	9.2	1.0	1.4	1.8
1250	146	539	60	19.0	455	63	13.6	405	65	11.0	1.1	1.5	1.9
1250	Open	705	56	14.8	607	60	11.1	542	62	9.0	1.1	1.5	2.0
						70°C - Aluminum Conductor - Concentric Strand							
1500	120	565	62	18.5	475	64	13.1	416	65	10.2	1.2	1.7	2.2
1500	Open	783	57	14.1	670	61	10.4	593	63	8.3	1.2	1.7	2.2
1750	114	589	62	18.3	493	65	12.9	431	66	9.9	1.3	1.8	2.3
1750	Open	846	58	13.8	722	61	10.2	638	63	8.1	1.3	1.8	2.3
2000	Open	897	58	13.1	768	61	9.7	675	63	7.6	1.4	1.9	2.5
						70°C - Aluminum Conductor - Compact Segmental Strand							
1000	149	508	59	18.7	430	62	13.5	383	64	10.8	1.1	1.5	1.9
1000	Open	640	56	14.9	551	59	11.1	490	62	8.9	1.1	1.5	1.9
1250	133	544	61	18.7	459	63	13.3	403	65	10.5	1.1	1.6	2.1
1250	Open	725	56	14.4	622	60	10.8	552	62	8.6	1.2	1.6	2.1
1500	120	572	62	18.5	480	64	13.2	421	66	10.2	1.2	1.7	2.2

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1984

35 kV Shielded Single Conductor Solid Type Paper Lead Sheathed Power Cable

Direct Buried - 2 Circuits - Six Cables - Spaced

25°C Earth Ambient

Condr Size	Sheath Res	60 Rho Interface Temp Amps	60 Rho Interface Temp °C	60 Rho Interface Flux w/ft²	90 Rho Interface Temp Amps	90 Rho Interface Temp °C	90 Rho Interface Flux w/ft²	120 Rho Interface Temp Amps	120 Rho Interface Temp °C	120 Rho Interface Flux w/ft²	delta Td for .0110 pf & Rho 60	90	120
						75% LF							
						65°C - Aluminum Conductor - Compact Round Strand							
4/0	283	263	44	20.6	237	48	16.7	217	51	14.1	0.7	0.9	1.1
250	258	288	45	20.8	258	49	16.9	236	52	14.1	0.7	0.9	1.2
350	240	344	47	21.7	306	51	17.0	278	53	14.2	0.8	1.0	1.3
500	209	406	48	21.1	358	52	16.5	323	54	13.6	0.8	1.1	1.4
750	179	485	50	22.1	423	54	16.7	379	56	13.5	0.9	1.3	1.6
1000	156	541	52	22.4	467	55	16.9	418	57	13.6	1.0	1.4	1.8
1000	Open	671	48	17.1	591	52	13.4	534	54	10.9	1.0	1.4	1.8
1250	146	585	53	22.6	503	56	16.8	446	58	13.3	1.1	1.5	1.9
1250	Open	759	49	16.8	666	53	13.1	600	55	10.6	1.1	1.5	2.0
						65°C - Aluminum Conductor - Concentric Strand							
1500	120	618	55	22.2	526	58	16.2	465	59	12.8	1.2	1.7	2.2
1500	Open	849	50	16.2	740	54	12.5	663	56	10.1	1.2	1.7	2.2
1750	114	646	56	22.1	549	58	16.1	484	60	12.7	1.3	1.8	2.3
1750	Open	919	51	16.0	799	54	12.2	715	56	9.9	1.3	1.8	2.3
2000	Open	975	51	15.2	847	54	11.6	757	56	9.3	1.4	1.9	2.5
						65°C - Aluminum Conductor - Compact Segmental Strand							
1000	149	551	53	22.1	474	56	16.5	422	58	13.2	1.1	1.5	1.9
1000	Open	688	49	16.9	605	52	13.2	545	55	10.8	1.1	1.5	1.9
1250	133	593	54	22.4	508	57	16.5	450	59	13.0	1.1	1.6	2.1
1250	Open	783	49	16.6	685	53	12.8	616	55	10.5	1.2	1.6	2.1
1500	120	626	55	22.4	533	58	16.4	471	59	12.9	1.2	1.7	2.2

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1985

35 kV Shielded Single Conductor Solid Type Paper Lead Sheathed Power Cable

Direct Buried - 2 Circuits - Six Cables - Spaced

25°C Earth Ambient

Condr Size	Sheath Res	60 Rho Amps	60 Rho Interface Temp °C	60 Rho Flux w/ft²	90 Rho Amps	90 Rho Interface Temp °C	90 Rho Flux w/ft²	120 Rho Amps	120 Rho Interface Temp °C	120 Rho Flux w/ft²	delta Td for .0110 pf & Rho 60	90	120
						100% LF							
						65°C - Aluminum Conductor - Compact Round Strand							
4/0	283	239	48	17.0	210	52	13.1	190	54	10.8	0.7	0.9	1.1
250	258	260	49	17.1	228	53	13.1	205	55	10.7	0.7	0.9	1.2
350	240	308	50	17.5	268	54	13.3	240	56	10.7	0.8	1.0	1.3
500	209	360	52	16.7	311	55	12.8	278	57	10.3	0.8	1.1	1.4
750	179	426	54	17.1	364	57	12.6	323	59	9.9	0.9	1.3	1.6
1000	156	471	55	17.1	400	58	12.5	352	60	9.7	1.0	1.4	1.8
1000	Open	594	52	13.6	513	55	10.2	457	57	8.1	1.0	1.4	1.8
1250	146	506	56	17.0	427	59	12.3	376	60	9.5	1.1	1.5	1.9
1250	Open	669	52	13.1	575	56	9.8	513	58	8.0	1.1	1.5	2.0
						65°C - Aluminum Conductor - Concentric Strand							
1500	120	530	58	16.5	445	60	11.7	389	61	9.0	1.2	1.7	2.2
1500	Open	743	54	12.6	635	57	9.3	562	58	7.4	1.2	1.7	2.2
1750	114	552	58	16.3	461	60	11.5	403	61	8.9	1.3	1.8	2.3
1750	Open	802	54	12.2	683	57	9.1	604	59	7.2	1.3	1.8	2.3
2000	Open	849	54	11.6	726	57	8.6	639	59	6.7	1.4	1.9	2.5
						65°C - Aluminum Conductor - Compact Segmental Strand							
1000	149	478	56	16.7	405	58	12.2	356	60	9.5	1.1	1.5	1.9
1000	Open	607	52	13.3	523	56	10.0	465	58	7.9	1.1	1.5	1.9
1250	133	511	57	16.6	430	59	11.9	378	61	9.4	1.1	1.6	2.1
1250	Open	688	53	12.8	590	56	9.5	526	58	7.8	1.2	1.6	2.1
1500	120	537	58	16.5	450	60	11.7	394	61	9.2	1.2	1.7	2.2

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1986

35 kV Shielded Single Conductor Solid Type Paper Lead Sheathed Power Cable

Direct Buried - 2 Circuits - Six Cables - Spaced

25°C Earth Ambient

Condr Size	Sheath Res	60 Rho Amps	60 Rho Interface Temp °C	60 Rho Flux w/ft²	90 Rho Amps	90 Rho Interface Temp °C	90 Rho Flux w/ft²	120 Rho Amps	120 Rho Interface Temp °C	120 Rho Flux w/ft²	delta Td for .0110 pf & Rho 60	90	120
						75% LF							
						50°C - Aluminum Conductor - Compact Round Strand							
4/0	283	211	37	13.1	190	40	10.5	173	42	8.7	0.7	0.9	1.1
250	258	231	38	13.1	206	40	10.7	188	42	8.9	0.7	0.9	1.2
350	240	275	39	13.8	243	41	10.7	220	43	8.9	0.8	1.0	1.3
500	209	322	40	13.6	283	42	10.5	255	44	8.6	0.8	1.1	1.4
750	179	382	41	14.1	331	43	10.7	296	45	8.6	0.9	1.3	1.6
1000	156	423	42	14.3	364	44	10.6	323	46	8.4	1.0	1.4	1.8
1000	Open	539	40	10.7	474	42	8.3	426	44	6.9	1.0	1.4	1.8
1250	146	455	43	14.3	390	45	10.6	344	46	8.3	1.1	1.5	1.9
1250	Open	609	40	10.5	533	42	8.2	478	44	6.7	1.1	1.5	2.0
						50°C - Aluminum Conductor - Concentric Strand							
1500	120	479	44	14.1	406	46	10.2	357	47	8.0	1.2	1.7	2.2
1500	Open	680	41	10.1	591	43	7.8	527	45	6.3	1.2	1.7	2.2
1750	114	499	45	14.0	421	46	10.1	369	47	7.9	1.3	1.8	2.3
1750	Open	735	41	9.9	636	43	7.6	567	45	6.2	1.3	1.8	2.3
2000	Open	779	41	9.4	674	43	7.1	600	45	5.8	1.4	1.9	2.5
						50°C - Aluminum Conductor - Compact Segmental Strand							
1000	149	431	43	14.0	369	45	10.5	327	46	8.3	1.1	1.5	1.9
1000	Open	554	40	10.6	485	42	8.3	435	44	6.8	1.1	1.5	1.9
1250	133	462	44	14.1	393	45	10.3	347	46	8.2	1.1	1.6	2.1
1250	Open	630	40	10.3	549	43	7.9	491	44	6.5	1.2	1.6	2.1
1500	120	486	44	14.1	411	46	10.2	361	47	8.1	1.2	1.7	2.2

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1987

35 kV Shielded Single Conductor Solid Type Paper Lead Sheathed Power Cable

Direct Buried - 2 Circuits - Six Cables - Spaced

25°C Earth Ambient

Condr Size	Sheath Res	60 Rho Amps	60 Rho Interface Temp °C	60 Rho Flux w/ft²	90 Rho Amps	90 Rho Interface Temp °C	90 Rho Flux w/ft²	120 Rho Amps	120 Rho Interface Temp °C	120 Rho Flux w/ft²	delta Td for .0110 pf & Rho 60	90	120
						100% LF							
						50°C - Aluminum Conductor - Compact Round Strand							
4/0	283	192	40	10.8	168	42	8.5	151	44	6.9	0.7	0.9	1.1
250	258	208	40	10.9	182	42	8.4	163	44	6.7	0.7	0.9	1.2
350	240	246	41	11.0	213	43	8.4	190	45	6.8	0.8	1.0	1.3
500	209	286	42	10.7	246	44	7.9	219	45	6.5	0.8	1.1	1.4
750	179	335	43	10.8	285	45	8.0	252	46	6.3	0.9	1.3	1.6
1000	156	368	44	10.9	311	46	7.9	273	47	6.2	1.0	1.4	1.8
1000	Open	478	42	8.4	411	44	6.3	365	45	5.1	1.0	1.4	1.8
1250	146	394	45	10.8	331	46	7.8	289	47	6.0	1.1	1.5	1.9
1250	Open	537	42	8.3	460	44	6.2	407	46	5.0	1.1	1.5	2.0
						50°C - Aluminum Conductor - Concentric Strand							
1500	120	410	46	10.4	342	47	7.4	298	48	5.7	1.2	1.7	2.2
1500	Open	595	43	7.8	506	45	5.9	446	46	4.7	1.2	1.7	2.2
1750	114	426	46	10.4	354	47	7.2	308	48	5.6	1.3	1.8	2.3
1750	Open	641	43	7.8	544	45	5.6	478	46	4.5	1.3	1.8	2.3
2000	Open	678	43	7.3	575	45	5.4	505	46	4.2	1.4	1.9	2.5
						50°C - Aluminum Conductor - Compact Segmental Strand							
1000	149	373	45	10.6	314	46	7.8	276	47	6.1	1.1	1.5	1.9
1000	Open	489	42	8.3	419	44	6.2	371	46	4.9	1.1	1.5	1.9
1250	133	398	45	10.6	333	47	7.6	291	47	5.9	1.1	1.6	2.1
1250	Open	553	43	8.1	472	45	6.0	417	46	4.8	1.2	1.6	2.1
1500	120	415	46	10.5	346	47	7.4	302	48	5.7	1.2	1.7	2.2

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1988

35 kV Shielded Single Conductor Solid Type Paper Lead Sheathed Power Cable

in Conduit in Air - Triplexed

40°C Air Ambient

Condr Size	Sheath Res	No Sun 0 Ft/s	No Sun 2 Ft/s	Full Sun 0 Ft/s	Full Sun 2 Ft/s	delta Td for .0110 pf No Sun 0 Ft/s	delta Td for .0110 pf No Sun 2 Ft/s
80°C - Aluminum Conductor - Compact Round Strand							
4/0	283	182	189	109	134	1.3	1.2
250	258	205	212	121	147	1.3	1.2
350	240	248	257	146	178	1.4	1.3
500	209	304	315	179	218	1.4	1.3
750	179	389	402	225	272	1.5	1.4
1000	156	453	469	262	317	1.6	1.5

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1989

35 kV Shielded Single Conductor Solid Type Paper Lead Sheathed Power Cable

in Free Air - Triplexed

40°C Air Ambient

Condr Size	Sheath Res	No Sun 0 Ft/s	No Sun 2 Ft/s	Full Sun 0 Ft/s	Full Sun 2 Ft/s	delta Td for .0110 pf No Sun 0 Ft/s	delta Td for .0110 pf No Sun 2 Ft/s
		80°C - Aluminum Conductor - Compact Round Strand					
4/0	283	213	249	149	203	0.9	0.6
250	258	236	276	165	225	0.9	0.6
350	240	289	338	201	274	1.0	0.7
500	209	359	418	247	337	1.0	0.7
750	179	458	533	312	425	1.1	0.8
1000	156	543	631	367	499	1.1	0.8

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1990

35 kV Shielded Single Conductor Solid Type Paper Lead Sheathed Power Cable

in Unventilated Riser - Triplexed

40°C Air Ambient

Condr Size	Sheath Res	No Sun 0 Ft/s	No Sun 2 Ft/s	Full Sun 0 Ft/s	Full Sun 2 Ft/s	delta Td for .0110 pf No Sun 0 Ft/s	delta Td for .0110 pf No Sun 2 Ft/s
		80°C - Aluminum Conductor - Compact Round Strand					
4/0	283	177	192	139	160	1.4	1.1
250	258	203	218	159	179	1.3	1.1
350	240	245	263	192	217	1.4	1.2
500	209	297	320	235	265	1.5	1.3
750	179	381	408	302	336	1.5	1.3
1000	156	438	471	349	392	1.6	1.4

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