5 kV 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 .0220 pf & Rho 60	delta Td for .0220 pf & Rho 90	delta Td for .0220 pf & Rho 120
		95°C - Copper Conductor - Compact Round Strand								
4/0	525	330	316	318	299	307	284	0.1	0.2	0.2
250	495	365	349	351	329	338	312	0.1	0.2	0.2
350	414	444	423	425	397	409	375	0.2	0.2	0.2
500	365	543	515	519	482	497	454	0.2	0.2	0.2
750	294	677	639	643	594	614	558	0.2	0.2	0.3
1000	246	781	734	740	680	704	636	0.2	0.2	0.3

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Not for Resale

1746

5 kV 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 .0220 pf & Rho 60	90	120
		95°C - Copper Conductor - Compact Round Strand								
4/0	525	295	268	272	242	254	222	0.2	0.2	0.3
250	495	324	294	299	265	278	243	0.2	0.3	0.3
350	414	391	353	359	317	334	289	0.2	0.3	0.3
500	365	474	426	433	380	401	345	0.3	0.3	0.4
750	294	584	521	530	461	489	418	0.3	0.4	0.5
1000	246	668	592	603	521	555	472	0.3	0.4	0.5

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5 kV 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 .0220 pf & Rho 60	delta Td for .0220 pf & Rho 90	delta Td for .0220 pf & Rho 120
		95°C - Copper Conductor - Compact Round Strand								
4/0	525	255	223	227	194	207	173	0.3	0.4	0.5
250	495	281	244	248	211	225	189	0.3	0.4	0.5
350	414	336	290	296	251	268	223	0.3	0.5	0.6
500	365	404	348	355	299	320	266	0.4	0.5	0.7
750	294	491	421	429	360	386	319	0.5	0.6	0.8
1000	246	557	475	485	404	435	358	0.5	0.7	0.9

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1748

5 kV 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 .0220 pf & Rho 60	delta Td for .0220 pf & Rho 90	delta Td for .0220 pf & Rho 120
		95°C - Copper Conductor - Compact Round Strand								
4/0	525	230	196	202	170	183	151	0.4	0.5	0.6
250	495	251	214	221	185	200	165	0.4	0.5	0.7
350	414	300	254	262	219	236	194	0.4	0.6	0.8
500	365	359	302	313	259	281	231	0.5	0.7	0.9
750	294	435	365	378	311	338	277	0.6	0.8	1.0
1000	246	492	411	425	350	380	309	0.7	0.9	1.2

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5 kV 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 .0220 pf & Rho 60	delta Td for .0220 pf & Rho 90	delta Td for .0220 pf & Rho 120
				95°C - Copper Conductor - Compact Round Strand						
4/0	525	379	360	362	336	346	316	0.1	0.1	0.1
250	495	415	393	394	366	377	343	0.1	0.1	0.1
350	414	490	462	465	429	442	401	0.1	0.1	0.1
500	365	578	544	546	501	518	467	0.1	0.1	0.2
750	294	680	635	639	582	604	540	0.1	0.2	0.2
750	Open	843	784	793	720	750	669	0.1	0.2	0.2
1000	246	747	695	699	634	659	586	0.1	0.2	0.2
1000	Open	994	920	931	841	878	779	0.2	0.2	0.2
1250	211	790	733	737	666	693	615	0.1	0.2	0.2
1250	Open	1117	1030	1043	939	982	867	0.1	0.2	0.2
				95°C - Copper Conductor - Concentric Strand						
1500	Open	1246	1142	1157	1035	1084	952	0.2	0.2	0.2
1750	Open	1342	1226	1243	1109	1163	1018	0.2	0.2	0.3
2000	Open	1426	1301	1319	1173	1232	1076	0.2	0.2	0.3
				95°C - Copper Conductor - Compact Segmental Strand						
1000	216	757	703	707	640	665	591	0.1	0.2	0.2
1000	Open	1032	952	964	869	908	803	0.1	0.2	0.2
1250	197	813	753	757	683	711	629	0.1	0.2	0.2
1250	Open	1176	1082	1096	983	1029	907	0.2	0.2	0.2
1500	Open	1309	1200	1216	1087	1139	1000	0.2	0.2	0.2
1750	Open	1430	1307	1325	1181	1240	1085	0.2	0.2	0.3
2000	Open	1540	1404	1425	1267	1331	1162	0.2	0.2	0.3
2250	Open	1636	1488	1510	1340	1409	1227	0.2	0.2	0.3
2500	Open	1729	1570	1596	1411	1485	1291	0.2	0.2	0.3
2750	Open	1814	1645	1670	1476	1554	1349	0.2	0.2	0.3
3000	Open	1886	1708	1734	1531	1613	1397	0.2	0.2	0.3

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1750

5 kV 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 .0220 pf & Rho 60	90	120
		95°C - Copper Conductor - Compact Round Strand								
4/0	525	349	318	322	287	300	262	0.1	0.2	0.2
250	495	381	346	351	311	326	284	0.1	0.2	0.2
350	414	451	407	413	363	383	331	0.1	0.2	0.2
500	365	534	481	487	425	451	387	0.2	0.2	0.3
750	294	633	566	575	497	527	450	0.2	0.2	0.3
750	Open	752	673	682	593	628	537	0.2	0.2	0.3
1000	246	702	621	634	545	579	491	0.2	0.3	0.3
1000	Open	880	784	794	687	729	621	0.2	0.3	0.3
1250	211	748	659	673	576	613	519	0.2	0.3	0.3
1250	Open	984	870	888	764	815	688	0.2	0.3	0.3
		95°C - Copper Conductor - Concentric Strand								
1500	Open	1089	955	973	834	888	750	0.2	0.3	0.4
1750	Open	1169	1023	1041	890	949	798	0.2	0.3	0.4
2000	Open	1241	1081	1101	939	1001	840	0.3	0.3	0.4
		95°C - Copper Conductor - Compact Segmental Strand								
1000	216	713	629	642	551	586	496	0.2	0.3	0.3
1000	Open	910	806	822	708	755	638	0.2	0.3	0.3
1250	197	771	677	690	591	630	531	0.2	0.3	0.4
1250	Open	1033	910	929	797	847	717	0.2	0.3	0.4
1500	Open	1144	1004	1022	877	933	788	0.2	0.3	0.4
1750	Open	1246	1090	1110	949	1011	851	0.2	0.3	0.4
2000	Open	1341	1167	1189	1014	1082	908	0.3	0.3	0.4
2250	Open	1420	1233	1257	1070	1141	956	0.3	0.4	0.5
2500	Open	1498	1298	1323	1125	1201	1004	0.3	0.4	0.5
2750	Open	1569	1358	1383	1175	1254	1047	0.3	0.4	0.5
3000	Open	1629	1407	1435	1216	1299	1083	0.3	0.4	0.5

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5 kV 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 .0220 pf & Rho 60	90	120
						75% LF							
						95°C - Copper Conductor - Compact Round Strand							
4/0	525	473	74	108.2	411	79	81.4	368	82	65.5	0.1	0.1	0.1
250	495	521	74	106.6	451	80	79.9	404	83	64.0	0.1	0.1	0.1
350	414	631	76	102.8	544	81	76.5	486	84	61.0	0.1	0.1	0.2
500	365	768	78	98.7	660	82	73.0	588	85	58.1	0.1	0.1	0.2
750	294	950	80	93.2	813	84	68.3	723	86	54.1	0.1	0.2	0.2
1000	246	1091	81	88.9	931	85	64.7	826	87	51.0	0.1	0.2	0.2
1250	211	1184	80	80.1	1013	84	58.6	901	86	46.4	0.1	0.2	0.2
						95°C - Copper Conductor - Concentric Strand							
1500	174	1259	81	75.9	1074	85	55.2	954	87	43.6	0.1	0.2	0.2
1750	156	1320	82	74.1	1124	85	53.8	998	88	42.4	0.1	0.2	0.3
2000	147	1374	82	72.6	1168	86	52.5	1036	88	41.3	0.1	0.2	0.3
						95°C - Copper Conductor - Compact Segmental Strand							
1000	216	1117	79	80.6	956	84	59.2	851	86	46.9	0.1	0.2	0.2
1250	197	1243	80	78.3	1062	84	57.1	944	87	45.2	0.1	0.2	0.2
1500	174	1345	81	76.1	1147	85	55.4	1018	87	43.6	0.1	0.2	0.2
1750	156	1428	82	74.3	1215	86	53.9	1078	88	42.5	0.1	0.2	0.3
2000	147	1502	83	72.9	1276	86	52.7	1132	88	41.5	0.1	0.2	0.3
2250	134	1553	83	71.5	1318	87	51.6	1168	88	40.5	0.2	0.2	0.3
2500	128	1606	84	70.3	1362	87	50.7	1206	89	39.7	0.2	0.2	0.3
2750	117	1641	84	68.9	1391	87	49.6	1232	89	38.9	0.2	0.2	0.3
3000	113	1676	84	67.9	1420	87	48.8	1257	89	38.3	0.2	0.2	0.3

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5 kV 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 .0220 pf & Rho 60	90	120
						100% LF							
						95°C - Copper Conductor - Compact Round Strand							
4/0	525	432	77	89.9	368	82	65.5	327	85	51.6	0.1	0.1	0.1
250	495	474	78	88.1	404	83	64.0	357	85	50.2	0.1	0.1	0.1
350	414	571	79	84.1	484	84	60.6	428	86	47.2	0.1	0.1	0.2
500	365	690	81	79.9	584	85	57.1	515	87	44.5	0.1	0.1	0.2
750	294	848	83	74.3	713	86	52.6	628	88	40.7	0.1	0.2	0.2
1000	246	968	84	70.0	812	87	49.3	713	89	38.1	0.1	0.2	0.2
1250	211	1048	83	62.7	881	87	44.4	774	88	34.3	0.1	0.2	0.2
						95°C - Copper Conductor - Concentric Strand							
1500	174	1105	84	58.5	926	88	41.2	813	89	31.7	0.1	0.2	0.2
1750	156	1155	85	56.7	966	88	39.7	847	90	30.5	0.1	0.2	0.3
2000	147	1198	85	55.2	1001	88	38.6	877	90	29.6	0.1	0.2	0.3
						95°C - Copper Conductor - Compact Segmental Strand							
1000	216	989	83	63.3	832	86	44.8	732	88	34.7	0.1	0.2	0.2
1250	197	1096	84	60.8	920	87	42.9	808	89	33.1	0.1	0.2	0.2
1500	174	1181	84	58.6	989	88	41.2	868	89	31.8	0.1	0.2	0.2
1750	156	1248	85	56.9	1044	88	39.8	915	90	30.6	0.1	0.2	0.3
2000	147	1308	86	55.4	1093	88	38.7	957	90	29.7	0.1	0.2	0.3
2250	134	1349	86	54.0	1125	89	37.6	985	90	28.8	0.2	0.2	0.3
2500	128	1391	87	52.8	1159	89	36.7	1014	91	28.1	0.2	0.2	0.3
2750	117	1417	87	51.5	1180	89	35.7	1032	91	27.3	0.2	0.2	0.3
3000	113	1445	87	50.5	1202	90	35.0	1051	91	26.8	0.2	0.2	0.3

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5 kV 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 .0220 pf & Rho 60	90	120
						75% LF							
						85°C - Copper Conductor - Compact Round Strand							
4/0	525	445	67	92.9	386	71	69.9	346	74	56.2	0.1	0.1	0.1
250	495	490	67	91.4	424	72	68.5	380	74	54.9	0.1	0.1	0.1
350	414	592	69	88.1	511	73	65.5	456	75	52.3	0.1	0.1	0.2
500	365	720	70	84.7	619	74	62.5	552	76	49.6	0.1	0.1	0.2
750	294	890	72	80.0	761	75	58.6	677	77	46.4	0.1	0.2	0.2
1000	246	1021	73	76.3	870	76	55.5	773	78	43.8	0.1	0.2	0.2
1250	211	1105	72	68.7	946	75	50.2	841	77	39.8	0.1	0.2	0.2
						85°C - Copper Conductor - Concentric Strand							
1500	174	1173	73	65.1	1000	76	47.4	888	78	37.4	0.1	0.2	0.2
1750	156	1228	74	63.5	1046	77	46.1	928	79	36.3	0.1	0.2	0.3
2000	147	1277	74	62.2	1086	77	45.0	963	79	35.4	0.1	0.2	0.3
						85°C - Copper Conductor - Compact Segmental Strand							
1000	216	1045	72	69.2	895	75	50.6	796	77	40.1	0.1	0.2	0.2
1250	197	1162	73	67.1	993	76	49.0	882	78	38.8	0.1	0.2	0.2
1500	174	1256	73	65.3	1070	77	47.5	950	78	37.4	0.1	0.2	0.2
1750	156	1331	74	63.8	1133	77	46.2	1005	79	36.4	0.1	0.2	0.3
2000	147	1398	74	62.5	1188	77	45.2	1054	79	35.5	0.1	0.2	0.3
2250	134	1444	75	61.3	1226	78	44.2	1086	79	34.7	0.2	0.2	0.3
2500	128	1492	75	60.4	1265	78	43.5	1121	80	34.1	0.2	0.2	0.3
2750	117	1523	76	59.2	1291	78	42.5	1143	80	33.3	0.2	0.2	0.3
3000	113	1555	76	58.3	1317	78	41.9	1166	80	32.8	0.2	0.2	0.3

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5 kV 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 .0220 pf & Rho 60	90	120
						100% LF							
						85°C - Copper Conductor - Compact Round Strand							
4/0	525	406	70	77.2	346	74	56.2	307	76	44.2	0.1	0.1	0.1
250	495	445	70	75.7	379	74	54.9	336	77	43.0	0.1	0.1	0.1
350	414	536	72	72.0	455	75	51.9	402	78	40.5	0.1	0.1	0.2
500	365	648	73	68.6	548	76	49.1	483	78	38.1	0.1	0.1	0.2
750	294	795	74	63.8	668	78	45.2	588	79	35.0	0.1	0.2	0.2
1000	246	905	76	60.0	759	78	42.3	667	80	32.6	0.1	0.2	0.2
1250	211	978	75	53.8	822	78	38.0	723	79	29.4	0.1	0.2	0.2
						85°C - Copper Conductor - Concentric Strand							
1500	174	1030	76	50.2	863	79	35.3	757	80	27.2	0.1	0.2	0.2
1750	156	1074	76	48.7	898	79	34.1	788	80	26.2	0.1	0.2	0.3
2000	147	1113	77	47.4	930	79	33.1	815	81	25.4	0.1	0.2	0.3
						85°C - Copper Conductor - Compact Segmental Strand							
1000	216	926	75	54.3	779	78	38.5	685	79	29.7	0.1	0.2	0.2
1250	197	1025	75	52.2	860	78	36.7	755	80	28.3	0.1	0.2	0.2
1500	174	1102	76	50.3	923	79	35.3	810	80	27.2	0.1	0.2	0.2
1750	156	1164	77	48.8	973	79	34.2	853	81	26.2	0.1	0.2	0.3
2000	147	1218	77	47.5	1017	79	33.1	891	81	25.4	0.1	0.2	0.3
2250	134	1254	77	46.3	1046	80	32.2	915	81	24.8	0.2	0.2	0.3
2500	128	1292	78	45.3	1076	80	31.5	942	81	24.1	0.2	0.2	0.3
2750	117	1316	78	44.1	1095	80	30.7	958	81	23.4	0.2	0.2	0.3
3000	113	1340	78	43.3	1115	80	30.0	974	81	22.9	0.2	0.2	0.3

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5 kV 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 .0220 pf & Rho 60	90	120
						75% LF							
						65°C - Copper Conductor - Compact Round Strand							
4/0	525	375	53	61.8	325	56	46.4	291	58	37.4	0.1	0.1	0.1
250	495	412	53	61.0	357	56	45.8	319	58	36.7	0.1	0.1	0.1
350	414	498	54	58.7	430	57	43.6	384	59	35.0	0.1	0.1	0.2
500	365	605	55	56.5	520	58	41.8	463	59	33.2	0.1	0.1	0.2
750	294	745	56	53.4	637	59	39.0	566	60	31.0	0.1	0.2	0.2
1000	246	851	57	50.8	725	59	37.0	644	60	29.2	0.1	0.2	0.2
1250	211	918	56	45.9	785	59	33.5	698	60	26.5	0.1	0.2	0.2
						65°C - Copper Conductor - Concentric Strand							
1500	174	969	57	43.5	826	59	31.7	733	61	25.0	0.1	0.2	0.2
1750	156	1013	58	42.5	862	60	30.7	765	61	24.2	0.1	0.2	0.3
2000	147	1050	58	41.6	893	60	30.1	791	61	23.6	0.1	0.2	0.3
						65°C - Copper Conductor - Compact Segmental Strand							
1000	216	873	56	46.2	747	59	33.8	665	60	26.7	0.1	0.2	0.2
1250	197	968	57	44.9	826	59	32.7	734	60	25.8	0.1	0.2	0.2
1500	174	1042	57	43.6	888	59	31.7	788	61	25.0	0.1	0.2	0.2
1750	156	1102	58	42.6	937	60	30.9	831	61	24.3	0.1	0.2	0.3
2000	147	1154	58	41.8	980	60	30.2	869	61	23.7	0.1	0.2	0.3
2250	134	1189	58	41.0	1009	60	29.5	893	61	23.2	0.2	0.2	0.3
2500	128	1226	59	40.4	1039	60	29.1	920	61	22.8	0.2	0.2	0.3
2750	117	1249	59	39.5	1058	61	28.4	936	62	22.3	0.2	0.2	0.3
3000	113	1273	59	39.0	1078	61	28.0	953	62	21.9	0.2	0.2	0.3

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1756

5 kV 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 .0220 pf & Rho 60	90	120
						100% LF							
						65°C - Copper Conductor - Compact Round Strand							
4/0	525	342	55	51.3	291	58	37.4	258	59	29.6	0.1	0.1	0.1
250	495	375	55	50.5	319	58	36.7	283	60	28.7	0.1	0.1	0.1
350	414	451	56	48.1	382	59	34.5	338	60	27.1	0.1	0.1	0.2
500	365	544	57	45.8	460	59	32.6	405	61	25.5	0.1	0.1	0.2
750	294	665	58	42.5	559	60	30.1	492	61	23.3	0.1	0.2	0.2
1000	246	755	59	40.0	633	61	28.1	555	62	21.8	0.1	0.2	0.2
1250	211	812	58	35.9	682	60	25.4	599	61	19.6	0.1	0.2	0.2
						65°C - Copper Conductor - Concentric Strand							
1500	174	851	59	33.5	712	61	23.6	625	62	18.2	0.1	0.2	0.2
1750	156	886	59	32.5	740	61	22.7	649	62	17.5	0.1	0.2	0.3
2000	147	915	60	31.6	764	61	22.0	669	62	17.0	0.1	0.2	0.3
						65°C - Copper Conductor - Compact Segmental Strand							
1000	216	774	58	36.2	650	60	25.7	572	61	19.9	0.1	0.2	0.2
1250	197	853	59	34.9	716	61	24.6	628	62	18.9	0.1	0.2	0.2
1500	174	915	59	33.7	766	61	23.6	671	62	18.2	0.1	0.2	0.2
1750	156	963	59	32.6	805	61	22.8	705	62	17.5	0.1	0.2	0.3
2000	147	1005	60	31.7	839	61	22.1	734	62	17.0	0.1	0.2	0.3
2250	134	1032	60	30.9	860	62	21.6	753	62	16.5	0.2	0.2	0.3
2500	128	1061	60	30.2	884	62	21.0	773	63	16.1	0.2	0.2	0.3
2750	117	1078	60	29.4	897	62	20.4	784	63	15.7	0.2	0.2	0.3
3000	113	1096	61	28.9	912	62	20.0	797	63	15.4	0.2	0.2	0.3

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5 kV 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 .0220 pf & Rho 60	90	120
						75% LF							
						50°C - Copper Conductor - Compact Round Strand							
4/0	525	303	42	38.6	263	44	29.1	236	45	23.5	0.1	0.1	0.1
250	495	334	43	38.1	289	45	28.5	259	46	22.9	0.1	0.1	0.1
350	414	403	43	36.7	347	45	27.3	310	46	21.8	0.1	0.1	0.2
500	365	489	44	35.3	420	46	26.1	374	46	20.7	0.1	0.1	0.2
750	294	600	45	33.3	513	46	24.4	456	47	19.2	0.1	0.2	0.2
1000	246	683	45	31.9	582	46	23.2	516	47	18.2	0.1	0.2	0.2
1250	211	734	45	28.8	627	46	20.9	558	47	16.6	0.1	0.2	0.2
						50°C - Copper Conductor - Concentric Strand							
1500	174	772	45	27.2	658	47	19.8	584	47	15.6	0.1	0.2	0.2
1750	156	806	45	26.5	685	47	19.2	607	47	15.2	0.1	0.2	0.3
2000	147	834	46	26.1	708	47	18.8	627	48	14.8	0.1	0.2	0.3
						50°C - Copper Conductor - Compact Segmental Strand							
1000	216	702	45	28.9	600	46	21.2	534	47	16.7	0.1	0.2	0.2
1250	197	776	45	28.1	662	46	20.4	588	47	16.2	0.1	0.2	0.2
1500	174	834	45	27.3	710	47	19.8	629	47	15.6	0.1	0.2	0.2
1750	156	879	46	26.7	747	47	19.4	662	47	15.2	0.1	0.2	0.3
2000	147	919	46	26.2	780	47	18.9	690	48	14.9	0.1	0.2	0.3
2250	134	945	46	25.7	801	47	18.5	708	48	14.5	0.2	0.2	0.3
2500	128	972	46	25.3	823	47	18.1	728	48	14.2	0.2	0.2	0.3
2750	117	989	46	24.7	837	47	17.7	740	48	13.9	0.2	0.2	0.3
3000	113	1007	46	24.4	851	47	17.5	753	48	13.7	0.2	0.2	0.3

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1758

5 kV 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 .0220 pf & Rho 60	90	120
						100% LF							
						50°C - Copper Conductor - Compact Round Strand							
4/0	525	277	44	32.3	236	45	23.5	209	46	18.3	0.1	0.1	0.1
250	495	304	44	31.5	258	46	22.9	229	47	18.0	0.1	0.1	0.1
350	414	365	45	30.1	309	46	21.6	273	47	16.9	0.1	0.1	0.2
500	365	439	45	28.6	371	46	20.5	327	47	15.9	0.1	0.1	0.2
750	294	535	46	26.6	450	47	18.7	396	48	14.6	0.1	0.2	0.2
1000	246	605	46	25.1	507	47	17.6	445	48	13.5	0.1	0.2	0.2
1250	211	649	46	22.5	545	47	15.9	479	48	12.3	0.1	0.2	0.2
						50°C - Copper Conductor - Concentric Strand							
1500	174	678	46	21.0	567	47	14.8	497	48	11.4	0.1	0.2	0.2
1750	156	704	47	20.4	588	48	14.3	515	48	11.0	0.1	0.2	0.3
2000	147	727	47	19.8	606	48	13.8	531	48	10.7	0.1	0.2	0.3
						50°C - Copper Conductor - Compact Segmental Strand							
1000	216	622	46	22.7	522	47	16.1	459	48	12.4	0.1	0.2	0.2
1250	197	684	46	21.8	574	47	15.4	503	48	11.9	0.1	0.2	0.2
1500	174	731	46	21.1	612	47	14.8	536	48	11.4	0.1	0.2	0.2
1750	156	768	47	20.4	641	48	14.3	561	48	11.0	0.1	0.2	0.3
2000	147	800	47	19.8	667	48	13.8	584	48	10.7	0.1	0.2	0.3
2250	134	820	47	19.3	683	48	13.5	597	48	10.4	0.2	0.2	0.3
2500	128	841	47	19.0	700	48	13.2	612	48	10.1	0.2	0.2	0.3
2750	117	853	47	18.5	709	48	12.8	620	49	9.8	0.2	0.2	0.3
3000	113	867	47	18.2	720	48	12.6	629	49	9.6	0.2	0.2	0.3

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5 kV 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 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 .0220 pf & Rho 60	90	120
						75% LF							
						95°C - Copper Conductor - Compact Round Strand							
4/0	525	418	78	84.5	358	83	61.8	318	85	48.9	0.1	0.1	0.2
250	495	459	79	82.7	392	83	60.3	348	86	47.7	0.1	0.2	0.2
350	414	552	80	78.6	470	85	57.0	416	87	44.7	0.1	0.2	0.2
500	365	667	82	74.5	565	86	53.7	500	88	42.0	0.1	0.2	0.3
750	294	817	84	69.0	690	87	49.2	609	89	38.3	0.2	0.2	0.3
1000	246	931	85	64.8	784	88	46.0	691	89	35.7	0.2	0.3	0.3
1250	211	1007	84	57.9	850	87	41.4	750	89	32.2	0.2	0.3	0.3
						95°C - Copper Conductor - Concentric Strand							
1500	174	1060	85	54.0	892	88	38.2	786	90	29.7	0.2	0.3	0.4
1750	156	1106	86	52.1	930	88	36.8	818	90	28.5	0.2	0.3	0.4
2000	147	1147	86	50.6	963	89	35.6	847	90	27.6	0.2	0.3	0.4
						95°C - Copper Conductor - Compact Segmental Strand							
1000	216	951	84	58.6	804	87	41.7	709	89	32.6	0.2	0.3	0.3
1250	197	1053	85	56.2	887	88	39.9	782	89	31.0	0.2	0.3	0.4
1500	174	1132	85	54.1	953	88	38.2	839	90	29.7	0.2	0.3	0.4
1750	156	1196	86	52.2	1005	89	36.8	884	90	28.5	0.2	0.3	0.4
2000	147	1253	86	50.7	1051	89	35.8	924	90	27.7	0.2	0.3	0.4
2250	134	1290	87	49.3	1081	89	34.7	950	91	26.9	0.2	0.3	0.5
2500	128	1329	87	48.3	1113	90	33.9	978	91	26.2	0.2	0.4	0.5
2750	117	1354	87	46.9	1133	90	32.9	995	91	25.5	0.2	0.4	0.5
3000	113	1379	88	46.0	1154	90	32.3	1013	91	24.9	0.3	0.4	0.5

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1760

5 kV 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 .0220 pf & Rho 60	90	120
						100% LF							
						95°C - Copper Conductor - Compact Round Strand							
4/0	525	368	82	65.5	310	86	46.4	273	88	36.2	0.1	0.1	0.2
250	495	403	83	63.8	339	86	45.1	298	88	35.1	0.1	0.2	0.2
350	414	482	84	60.0	404	87	42.2	355	89	32.6	0.1	0.2	0.2
500	365	579	85	56.1	484	88	39.3	424	90	30.3	0.1	0.2	0.3
750	294	704	87	51.2	586	89	35.7	513	91	27.3	0.2	0.2	0.3
1000	246	797	87	47.5	663	90	32.9	579	91	25.1	0.2	0.3	0.3
1250	211	861	87	42.4	716	89	29.4	626	91	22.5	0.2	0.3	0.3
						95°C - Copper Conductor - Concentric Strand							
1500	174	900	88	38.8	747	90	26.9	652	91	20.5	0.2	0.3	0.4
1750	156	936	88	37.3	776	90	25.7	677	92	19.6	0.2	0.3	0.4
2000	147	967	89	36.1	801	91	24.8	699	92	18.9	0.2	0.3	0.4
						95°C - Copper Conductor - Compact Segmental Strand							
1000	216	814	87	43.0	678	89	29.7	593	91	22.8	0.2	0.3	0.3
1250	197	897	87	40.8	745	90	28.2	651	91	21.6	0.2	0.3	0.4
1500	174	961	88	38.9	798	90	26.9	696	91	20.5	0.2	0.3	0.4
1750	156	1011	89	37.4	838	91	25.7	732	92	19.6	0.2	0.3	0.4
2000	147	1056	89	36.1	875	91	24.8	763	92	18.9	0.2	0.3	0.4
2250	134	1085	89	34.9	897	91	24.0	782	92	18.2	0.2	0.3	0.5
2500	128	1115	90	34.0	922	91	23.3	803	92	17.7	0.2	0.4	0.5
2750	117	1133	90	32.9	937	91	22.5	816	92	17.1	0.2	0.4	0.5
3000	113	1152	90	32.2	952	92	21.9	829	92	16.7	0.3	0.4	0.5

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5 kV 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 .0220 pf & Rho 60	90	120
						75% LF							
						85°C - Copper Conductor - Compact Round Strand							
4/0	525	393	71	72.6	336	75	53.0	299	77	42.0	0.1	0.1	0.2
250	495	431	71	71.0	368	75	51.9	327	77	40.9	0.1	0.2	0.2
350	414	518	73	67.4	441	76	48.7	391	78	38.3	0.1	0.2	0.2
500	365	626	74	63.8	530	77	46.0	469	79	36.0	0.1	0.2	0.3
750	294	766	75	59.1	646	78	42.2	570	80	33.0	0.2	0.2	0.3
1000	246	871	76	55.5	733	79	39.4	646	80	30.7	0.2	0.3	0.3
1250	211	940	76	49.7	793	78	35.4	700	80	27.6	0.2	0.3	0.3
						85°C - Copper Conductor - Concentric Strand							
1500	174	988	77	46.2	831	79	32.7	732	80	25.5	0.2	0.3	0.4
1750	156	1029	77	44.7	865	79	31.5	761	81	24.4	0.2	0.3	0.4
2000	147	1066	78	43.3	894	80	30.6	787	81	23.7	0.2	0.3	0.4
						85°C - Copper Conductor - Compact Segmental Strand							
1000	216	891	75	50.2	752	78	35.8	664	80	28.0	0.2	0.3	0.3
1250	197	984	76	48.2	829	79	34.2	731	80	26.6	0.2	0.3	0.4
1500	174	1057	77	46.3	889	79	32.8	783	80	25.5	0.2	0.3	0.4
1750	156	1115	77	44.8	936	80	31.6	824	81	24.6	0.2	0.3	0.4
2000	147	1166	78	43.6	978	80	30.7	860	81	23.7	0.2	0.3	0.4
2250	134	1199	78	42.4	1005	80	29.8	883	81	23.1	0.2	0.3	0.5
2500	128	1235	78	41.4	1034	80	29.1	908	81	22.5	0.2	0.4	0.5
2750	117	1256	79	40.2	1051	81	28.2	923	82	21.8	0.2	0.4	0.5
3000	113	1279	79	39.5	1069	81	27.6	939	82	21.3	0.3	0.4	0.5

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5 kV 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 .0220 pf & Rho 60	90	120
						100% LF							
						85°C - Copper Conductor - Compact Round Strand							
4/0	525	346	74	56.2	291	77	39.8	257	79	31.0	0.1	0.1	0.2
250	495	378	74	54.7	318	78	38.8	280	79	29.9	0.1	0.2	0.2
350	414	452	76	51.3	379	78	36.2	333	80	28.0	0.1	0.2	0.2
500	365	543	77	48.1	454	79	33.7	398	81	25.9	0.1	0.2	0.3
750	294	659	78	43.9	549	80	30.5	481	81	23.4	0.2	0.2	0.3
1000	246	746	79	40.8	620	81	28.1	541	82	21.5	0.2	0.3	0.3
1250	211	803	78	36.3	668	80	25.2	584	81	19.2	0.2	0.3	0.3
						85°C - Copper Conductor - Concentric Strand							
1500	174	838	79	33.3	696	81	23.0	607	82	17.6	0.2	0.3	0.4
1750	156	871	79	32.0	722	81	22.0	630	82	16.8	0.2	0.3	0.4
2000	147	899	80	30.9	744	81	21.2	649	82	16.1	0.2	0.3	0.4
						85°C - Copper Conductor - Compact Segmental Strand							
1000	216	762	78	36.7	634	80	25.5	555	81	19.6	0.2	0.3	0.3
1250	197	838	79	35.0	697	81	24.2	609	82	18.4	0.2	0.3	0.4
1500	174	897	79	33.4	744	81	23.0	650	82	17.6	0.2	0.3	0.4
1750	156	943	79	32.1	781	81	22.0	682	82	16.8	0.2	0.3	0.4
2000	147	983	80	31.0	814	81	21.3	710	82	16.2	0.2	0.3	0.4
2250	134	1008	80	30.0	834	82	20.5	727	82	15.6	0.2	0.3	0.5
2500	128	1036	80	29.2	856	82	20.0	746	83	15.2	0.2	0.4	0.5
2750	117	1052	81	28.2	869	82	19.3	757	83	14.7	0.2	0.4	0.5
3000	113	1068	81	27.6	882	82	18.9	768	83	14.3	0.3	0.4	0.5

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5 kV 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 .0220 pf & Rho 60	90	120
						75% LF							
						65°C - Copper Conductor - Compact Round Strand							
4/0	525	331	55	48.4	283	58	35.4	252	60	27.9	0.1	0.1	0.2
250	495	363	56	47.4	310	58	34.6	275	60	27.1	0.1	0.2	0.2
350	414	436	57	44.9	371	59	32.6	328	60	25.6	0.1	0.2	0.2
500	365	525	58	42.5	445	60	30.7	394	61	24.0	0.1	0.2	0.3
750	294	640	59	39.5	541	60	28.1	477	61	21.9	0.2	0.2	0.3
1000	246	726	59	37.0	611	61	26.3	538	62	20.5	0.2	0.3	0.3
1250	211	780	59	33.1	658	61	23.6	580	62	18.4	0.2	0.3	0.3
						65°C - Copper Conductor - Concentric Strand							
1500	174	816	59	30.8	686	61	21.8	604	62	17.0	0.2	0.3	0.4
1750	156	848	60	29.8	712	61	21.0	627	62	16.3	0.2	0.3	0.4
2000	147	876	60	29.0	735	62	20.4	646	62	15.8	0.2	0.3	0.4
						65°C - Copper Conductor - Compact Segmental Strand							
1000	216	744	59	33.5	628	60	23.9	553	61	18.6	0.2	0.3	0.3
1250	197	819	59	32.1	690	61	22.8	608	62	17.7	0.2	0.3	0.4
1500	174	877	60	31.0	737	61	21.9	649	62	17.0	0.2	0.3	0.4
1750	156	922	60	29.9	774	61	21.1	680	62	16.4	0.2	0.3	0.4
2000	147	962	60	29.1	806	62	20.5	709	62	15.8	0.2	0.3	0.4
2250	134	987	60	28.3	826	62	19.8	726	63	15.3	0.2	0.3	0.5
2500	128	1014	61	27.6	848	62	19.4	745	63	14.9	0.2	0.4	0.5
2750	117	1029	61	26.8	861	62	18.9	755	63	14.5	0.2	0.4	0.5
3000	113	1046	61	26.3	874	62	18.4	767	63	14.2	0.3	0.4	0.5

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5 kV 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 .0220 pf & Rho 60	90	120
		°C	w/ft²		°C	w/ft²		°C	w/ft²				
100% LF													
65°C - Copper Conductor - Compact Round Strand													
4/0	525	58	37.4	291	60	26.6	245	61	20.5	216	0.1	0.1	0.2
250	495	58	36.5	319	60	25.7	268	61	20.1	236	0.1	0.2	0.2
350	414	59	34.3	380	61	24.2	319	62	18.6	280	0.1	0.2	0.2
500	365	59	32.2	456	61	22.4	381	62	17.2	334	0.1	0.2	0.3
750	294	60	29.3	551	62	20.4	459	62	15.6	402	0.2	0.2	0.3
1000	246	61	27.2	621	62	18.8	516	63	14.4	451	0.2	0.3	0.3
1250	211	60	24.3	666	62	16.8	554	63	12.9	484	0.2	0.3	0.3
65°C - Copper Conductor - Concentric Strand													
1500	174	61	22.3	692	62	15.4	574	63	11.7	501	0.2	0.3	0.4
1750	156	61	21.3	717	62	14.7	594	63	11.2	518	0.2	0.3	0.4
2000	147	62	20.7	739	63	14.1	611	63	10.8	533	0.2	0.3	0.4
65°C - Copper Conductor - Compact Segmental Strand													
1000	216	60	24.6	636	62	17.0	529	63	13.1	463	0.2	0.3	0.3
1250	197	61	23.3	698	62	16.2	579	63	12.3	506	0.2	0.3	0.4
1500	174	61	22.3	744	62	15.4	617	63	11.7	538	0.2	0.3	0.4
1750	156	61	21.3	779	63	14.7	646	63	11.2	563	0.2	0.3	0.4
2000	147	62	20.7	811	63	14.2	671	63	10.8	585	0.2	0.3	0.4
2250	134	62	20.0	829	63	13.7	686	63	10.5	597	0.2	0.3	0.5
2500	128	62	19.5	850	63	13.3	702	63	10.1	611	0.2	0.4	0.5
2750	117	62	18.9	861	63	12.9	711	64	9.8	619	0.2	0.4	0.5
3000	113	62	18.4	873	63	12.6	721	64	9.5	627	0.3	0.4	0.5

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5 kV 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	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 .0220 pf & Rho 60	90	120
					75% LF								
					50°C - Copper Conductor - Compact Round Strand								
4/0	525	268	44	30.3	229	46	22.0	204	47	17.3	0.1	0.1	0.2
250	495	294	44	29.7	251	46	21.5	223	47	17.1	0.1	0.2	0.2
350	414	353	45	28.2	300	46	20.3	265	47	15.9	0.1	0.2	0.2
500	365	424	45	26.6	359	47	19.2	317	47	14.9	0.1	0.2	0.3
750	294	515	46	24.6	435	47	17.6	383	48	13.7	0.2	0.2	0.3
1000	246	582	46	23.2	489	47	16.4	431	48	12.8	0.2	0.3	0.3
1250	211	624	46	20.8	526	47	14.7	463	48	11.5	0.2	0.3	0.3
					50°C - Copper Conductor - Concentric Strand								
1500	174	650	47	19.2	546	48	13.6	480	48	10.6	0.2	0.3	0.4
1750	156	674	47	18.6	565	48	13.2	497	48	10.2	0.2	0.3	0.4
2000	147	695	47	18.1	582	48	12.8	511	48	9.8	0.2	0.3	0.4
					50°C - Copper Conductor - Compact Segmental Strand								
1000	216	597	46	20.9	504	47	15.0	444	48	11.6	0.2	0.3	0.3
1250	197	656	46	20.1	552	47	14.3	486	48	11.0	0.2	0.3	0.4
1500	174	701	47	19.4	589	48	13.7	518	48	10.6	0.2	0.3	0.4
1750	156	735	47	18.7	616	48	13.2	541	48	10.2	0.2	0.3	0.4
2000	147	765	47	18.1	641	48	12.8	562	48	9.9	0.2	0.3	0.4
2250	134	783	47	17.7	655	48	12.4	575	49	9.6	0.2	0.3	0.5
2500	128	803	47	17.2	671	48	12.1	589	49	9.3	0.2	0.4	0.5
2750	117	814	47	16.8	680	48	11.8	596	49	9.1	0.2	0.4	0.5
3000	113	826	48	16.4	690	48	11.5	604	49	8.9	0.3	0.4	0.5

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1766

5 kV 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 .0220 pf & Rho 60	90	120
		°C	w/ft²	Amps	°C	w/ft²	Amps	°C	w/ft²	Amps			
					100% LF								
					50°C - Copper Conductor - Compact Round Strand								
4/0	525	45	23.5	236	47	16.6	199	48	13.0	175	0.1	0.1	0.2
250	495	46	22.9	258	47	16.1	217	48	12.4	191	0.1	0.2	0.2
350	414	46	21.4	308	47	15.0	258	48	11.7	226	0.1	0.2	0.2
500	365	47	20.1	368	48	14.0	307	48	10.7	269	0.1	0.2	0.3
750	294	47	18.2	444	48	12.7	369	48	9.7	323	0.2	0.2	0.3
1000	246	47	17.0	498	48	11.7	414	49	9.0	361	0.2	0.3	0.3
1250	211	47	15.1	533	48	10.5	443	49	8.1	387	0.2	0.3	0.3
					50°C - Copper Conductor - Concentric Strand								
1500	174	48	14.0	551	48	9.6	457	49	7.3	398	0.2	0.3	0.4
1750	156	48	13.4	570	48	9.2	472	49	7.0	411	0.2	0.3	0.4
2000	147	48	12.9	586	49	8.9	485	49	6.8	422	0.2	0.3	0.4
					50°C - Copper Conductor - Compact Segmental Strand								
1000	216	47	15.4	511	48	10.7	425	49	8.1	371	0.2	0.3	0.3
1250	197	47	14.5	559	48	10.0	464	49	7.7	405	0.2	0.3	0.4
1500	174	48	14.0	594	48	9.6	492	49	7.3	429	0.2	0.3	0.4
1750	156	48	13.4	621	49	9.2	514	49	7.0	448	0.2	0.3	0.4
2000	147	48	13.0	645	49	8.9	533	49	6.8	464	0.2	0.3	0.4
2250	134	48	12.5	658	49	8.6	543	49	6.5	473	0.2	0.3	0.5
2500	128	48	12.2	673	49	8.3	556	49	6.3	483	0.2	0.4	0.5
2750	117	48	11.8	681	49	8.1	562	49	6.1	488	0.2	0.4	0.5
3000	113	48	11.5	690	49	7.8	569	49	5.9	494	0.3	0.4	0.5

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5 kV 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 .0220 pf & Rho 60	90	120
						75% LF							
						95°C - Copper Conductor - Compact Round Strand							
4/0	525	527	68	80.7	463	74	62.0	418	78	50.8	0.1	0.1	0.1
250	495	577	69	80.1	505	75	61.6	455	79	50.1	0.1	0.1	0.1
350	414	684	72	79.7	595	77	60.2	534	81	48.4	0.1	0.1	0.1
500	365	811	74	79.1	700	80	59.0	626	83	47.1	0.1	0.1	0.1
750	294	951	77	76.5	817	82	56.6	727	85	44.9	0.1	0.1	0.1
750	Open	1135	74	64.5	981	79	48.3	877	82	38.5	0.1	0.1	0.2
1000	246	1041	79	74.2	889	83	54.2	790	86	42.7	0.1	0.1	0.2
1000	Open	1328	75	61.1	1142	81	45.4	1019	84	36.0	0.1	0.1	0.2
1250	211	1077	78	66.5	923	82	48.8	821	85	38.5	0.1	0.1	0.2
1250	Open	1457	74	53.6	1258	79	40.0	1124	83	32.0	0.1	0.1	0.2
						95°C - Copper Conductor - Concentric Strand							
1500	Open	1611	76	50.3	1385	81	37.0	1234	84	29.4	0.1	0.2	0.2
1750	Open	1728	77	48.6	1482	82	35.8	1320	84	28.4	0.1	0.2	0.2
2000	Open	1831	77	47.4	1568	82	34.6	1395	85	27.5	0.1	0.2	0.2
						95°C - Copper Conductor - Compact Segmental Strand							
1000	216	1032	77	66.2	885	82	48.7	788	85	38.6	0.1	0.1	0.2
1000	Open	1348	74	54.0	1164	79	40.3	1041	82	32.4	0.1	0.1	0.2
1250	197	1106	79	64.9	945	83	47.4	840	86	37.4	0.1	0.1	0.2
1250	Open	1529	75	52.2	1317	80	38.6	1175	83	30.9	0.1	0.1	0.2
1500	Open	1693	76	50.3	1455	81	37.0	1297	84	29.4	0.1	0.2	0.2
1750	Open	1842	77	48.6	1579	82	35.8	1407	84	28.4	0.1	0.2	0.2

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5 kV 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 .0220 pf & Rho 60	90	120
						100% LF							
						95°C - Copper Conductor - Compact Round Strand							
4/0	525	472	73	64.4	407	79	48.1	363	82	38.0	0.1	0.1	0.1
250	495	514	74	63.8	442	80	47.1	394	83	37.5	0.1	0.1	0.1
350	414	605	77	62.2	517	82	45.4	480	88	39.3	0.1	0.1	0.1
500	365	711	79	60.8	604	84	43.8	534	86	34.4	0.1	0.1	0.1
750	294	832	82	58.7	701	86	41.7	617	88	32.4	0.1	0.1	0.1
750	Open	996	79	49.7	847	83	36.1	749	86	28.2	0.1	0.1	0.2
1000	246	908	84	56.3	763	87	39.9	670	89	30.8	0.1	0.1	0.2
1000	Open	1158	80	46.6	981	84	33.4	866	87	26.0	0.1	0.1	0.2
1250	211	939	83	50.5	792	86	36.0	698	89	27.8	0.1	0.1	0.2
1250	Open	1272	79	40.8	1080	84	29.4	955	86	22.9	0.1	0.1	0.2
						95°C - Copper Conductor - Concentric Strand							
1500	Open	1397	81	37.8	1181	85	27.0	1042	87	21.0	0.1	0.2	0.2
1750	Open	1494	81	36.3	1261	85	25.8	1111	87	20.2	0.1	0.2	0.2
2000	Open	1579	82	35.2	1331	86	24.9	1172	88	19.4	0.1	0.2	0.2
						95°C - Copper Conductor - Compact Segmental Strand							
1000	216	901	82	50.6	761	86	36.0	671	89	28.1	0.1	0.1	0.2
1000	Open	1177	79	41.2	1001	83	29.8	885	86	23.4	0.1	0.1	0.2
1250	197	961	83	49.0	809	87	34.8	712	89	26.9	0.1	0.1	0.2
1250	Open	1330	80	39.4	1127	84	28.3	996	87	22.1	0.1	0.1	0.2
1500	Open	1467	81	37.8	1241	85	27.0	1095	87	21.0	0.1	0.2	0.2
1750	Open	1592	81	36.3	1344	85	26.0	1184	87	20.2	0.1	0.2	0.2

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5 kV 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 .0220 pf & Rho 60	90	120
						75% LF							
						85°C - Copper Conductor - Compact Round Strand							
4/0	525	494	62	69.4	433	67	53.5	391	70	43.4	0.1	0.1	0.1
250	495	540	63	69.3	472	68	53.0	425	71	43.0	0.1	0.1	0.1
350	414	639	65	68.9	555	70	51.8	498	73	41.7	0.1	0.1	0.1
500	365	754	67	68.1	652	72	50.8	582	75	40.8	0.1	0.1	0.1
750	294	879	69	66.1	755	74	48.6	672	76	38.5	0.1	0.1	0.1
750	Open	1066	67	55.5	921	71	41.4	824	74	33.2	0.1	0.1	0.2
1000	246	959	71	64.2	818	75	46.8	726	77	36.8	0.1	0.1	0.2
1000	Open	1246	68	52.5	1072	73	38.7	956	75	30.8	0.1	0.1	0.2
1250	211	989	70	57.2	847	74	42.1	753	77	33.2	0.1	0.1	0.2
1250	Open	1367	67	45.9	1180	72	34.3	1054	74	27.3	0.1	0.1	0.2
						85°C - Copper Conductor - Concentric Strand							
1500	Open	1509	69	43.0	1297	73	31.8	1156	75	25.3	0.1	0.2	0.2
1750	Open	1618	69	41.6	1388	74	30.7	1235	76	24.2	0.1	0.2	0.2
2000	Open	1713	70	40.5	1467	74	29.8	1305	76	23.6	0.1	0.2	0.2
						85°C - Copper Conductor - Compact Segmental Strand							
1000	216	950	70	57.2	815	74	42.0	725	76	33.2	0.1	0.1	0.2
1000	Open	1266	67	46.3	1094	71	34.5	978	74	27.7	0.1	0.1	0.2
1250	197	1016	71	55.9	867	75	40.8	770	77	32.2	0.1	0.1	0.2
1250	Open	1437	68	44.6	1237	72	33.0	1104	75	26.5	0.1	0.1	0.2
1500	Open	1590	69	43.0	1367	73	31.8	1218	75	25.3	0.1	0.2	0.2
1750	Open	1729	69	41.6	1483	74	30.7	1320	76	24.2	0.1	0.2	0.2

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1770

5 kV 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 Interface Flux w/ft²	90 Rho Interface Amps	90 Rho Interface Temp °C	90 Rho Interface Flux w/ft²	120 Rho Interface Amps	120 Rho Interface Temp °C	120 Rho Interface Flux w/ft²	delta Td for .0220 pf & Rho 60	90	120
						100% LF							
						85°C - Copper Conductor - Compact Round Strand							
4/0	525	442	66	55.5	381	71	41.1	340	74	33.0	0.1	0.1	0.1
250	495	481	67	54.9	413	72	40.8	368	75	32.3	0.1	0.1	0.1
350	414	565	70	53.8	482	74	39.3	428	76	30.9	0.1	0.1	0.1
500	365	662	72	52.6	562	75	37.7	496	77	29.5	0.1	0.1	0.1
750	294	770	74	50.7	649	77	36.1	571	79	27.9	0.1	0.1	0.1
750	Open	935	71	42.8	795	75	30.8	703	77	24.2	0.1	0.1	0.2
1000	246	836	75	48.7	703	79	34.4	617	80	26.5	0.1	0.1	0.2
1000	Open	1087	72	39.9	920	76	28.6	812	78	22.2	0.1	0.1	0.2
1250	211	862	74	43.5	727	78	30.9	640	79	24.0	0.1	0.1	0.2
1250	Open	1193	71	34.9	1013	75	25.2	896	77	19.8	0.1	0.1	0.2
						85°C - Copper Conductor - Concentric Strand							
1500	Open	1309	73	32.4	1107	76	23.1	976	78	18.1	0.1	0.2	0.2
1750	Open	1398	73	31.1	1180	77	22.1	1040	79	17.2	0.1	0.2	0.2
2000	Open	1477	74	30.1	1245	77	21.4	1096	79	16.6	0.1	0.2	0.2
						85°C - Copper Conductor - Compact Segmental Strand							
1000	216	829	74	43.5	700	78	31.1	617	79	24.2	0.1	0.1	0.2
1000	Open	1106	71	35.4	940	75	25.5	832	77	19.9	0.1	0.1	0.2
1250	197	883	75	42.4	743	78	30.1	653	80	23.3	0.1	0.1	0.2
1250	Open	1250	72	33.8	1059	76	24.3	935	78	18.9	0.1	0.1	0.2
1500	Open	1379	73	32.4	1166	76	23.1	1028	78	18.1	0.1	0.2	0.2
1750	Open	1495	73	31.1	1262	77	22.1	1112	79	17.2	0.1	0.2	0.2

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5 kV 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 .0220 pf & Rho 60	90	120
						75% LF							
						65°C - Copper Conductor - Compact Round Strand							
4/0	525	413	50	46.9	362	53	36.1	326	55	29.5	0.1	0.1	0.1
250	495	450	50	46.7	393	54	35.6	354	56	28.9	0.1	0.1	0.1
350	414	530	52	46.7	460	55	35.3	412	57	28.2	0.1	0.1	0.1
500	365	619	53	46.2	535	56	34.4	478	58	27.7	0.1	0.1	0.1
750	294	714	55	44.9	612	58	32.9	544	59	26.0	0.1	0.1	0.1
750	Open	897	53	36.9	775	56	27.6	693	58	22.0	0.1	0.1	0.2
1000	246	772	56	43.4	658	59	31.5	584	60	24.8	0.1	0.1	0.2
1000	Open	1046	54	34.9	900	57	25.8	802	58	20.5	0.1	0.1	0.2
1250	211	791	55	38.7	676	58	28.4	601	60	22.3	0.1	0.1	0.2
1250	Open	1146	53	30.5	989	56	22.7	884	58	18.3	0.1	0.1	0.2
						65°C - Copper Conductor - Concentric Strand							
1500	Open	1263	54	28.7	1085	57	21.2	967	59	16.8	0.1	0.2	0.2
1750	Open	1352	55	27.7	1160	57	20.4	1032	59	16.1	0.1	0.2	0.2
2000	Open	1429	55	27.1	1223	58	19.9	1087	59	15.7	0.1	0.2	0.2
						65°C - Copper Conductor - Compact Segmental Strand							
1000	216	764	55	38.8	654	58	28.5	582	59	22.5	0.1	0.1	0.2
1000	Open	1067	53	30.9	921	56	23.1	824	58	18.4	0.1	0.1	0.2
1250	197	812	56	37.8	693	58	27.7	615	60	21.7	0.1	0.1	0.2
1250	Open	1209	54	29.7	1041	57	22.1	929	58	17.5	0.1	0.1	0.2
1500	Open	1338	54	28.7	1150	57	21.2	1024	59	16.8	0.1	0.2	0.2
1750	Open	1454	55	27.7	1247	57	20.4	1109	59	16.1	0.1	0.2	0.2

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1772

5 kV 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 .0220 pf & Rho 60	90	120
		°C	w/ft²	Amps	°C	w/ft²	Amps	°C	w/ft²	Amps			
100% LF													
65°C - Copper Conductor - Compact Round Strand													
4/0	525	53	37.2	368	56	27.9	318	58	22.1	283	0.1	0.1	0.1
250	495	54	37.1	401	57	27.4	344	58	21.9	306	0.1	0.1	0.1
350	414	55	36.3	468	58	26.6	399	59	20.8	354	0.1	0.1	0.1
500	365	56	35.6	545	59	25.5	462	60	20.1	408	0.1	0.1	0.1
750	294	58	34.5	626	60	24.4	527	61	18.9	464	0.1	0.1	0.1
750	Open	56	28.4	786	58	20.5	669	60	16.2	592	0.1	0.1	0.2
1000	246	59	32.9	672	61	23.2	565	62	17.9	496	0.1	0.1	0.2
1000	Open	57	26.5	912	59	19.1	773	60	14.8	682	0.1	0.1	0.2
1250	211	58	29.4	689	60	20.8	580	61	16.2	511	0.1	0.1	0.2
1250	Open	56	23.3	1000	58	16.8	849	60	13.3	751	0.1	0.1	0.2
65°C - Copper Conductor - Concentric Strand													
1500	Open	57	21.6	1095	59	15.5	925	60	12.1	816	0.1	0.2	0.2
1750	Open	57	20.7	1169	60	14.7	987	61	11.6	869	0.1	0.2	0.2
2000	Open	58	20.1	1232	60	14.4	1038	61	11.0	914	0.1	0.2	0.2
65°C - Copper Conductor - Compact Segmental Strand													
1000	216	58	29.6	667	60	21.0	562	61	16.3	495	0.1	0.1	0.2
1000	Open	56	23.6	932	58	17.1	792	60	13.3	700	0.1	0.1	0.2
1250	197	58	28.7	705	60	20.3	593	61	15.7	521	0.1	0.1	0.2
1250	Open	56	22.5	1052	59	16.1	892	60	12.7	787	0.1	0.1	0.2
1500	Open	57	21.6	1160	59	15.5	980	60	12.1	865	0.1	0.2	0.2
1750	Open	57	20.7	1257	60	14.7	1061	61	11.6	934	0.1	0.2	0.2

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5 kV 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 .0220 pf & Rho 60	90	120
						75% LF							
						50°C - Copper Conductor - Compact Round Strand							
4/0	525	332	41	29.5	291	43	22.9	262	44	18.6	0.1	0.1	0.1
250	495	361	41	29.7	316	43	22.6	284	45	18.2	0.1	0.1	0.1
350	414	423	42	29.6	367	44	22.2	329	45	17.8	0.1	0.1	0.1
500	365	490	43	29.2	423	45	21.9	378	46	17.3	0.1	0.1	0.1
750	294	560	44	28.4	479	46	20.7	426	46	16.5	0.1	0.1	0.1
750	Open	725	42	23.1	627	44	17.3	560	46	13.8	0.1	0.1	0.2
1000	246	601	45	27.5	512	46	19.8	454	47	15.8	0.1	0.1	0.2
1000	Open	845	43	21.7	727	45	16.2	648	46	12.9	0.1	0.1	0.2
1250	211	613	44	24.4	524	46	17.9	465	47	14.1	0.1	0.1	0.2
1250	Open	924	43	19.1	797	44	14.3	712	46	11.4	0.1	0.1	0.2
						50°C - Copper Conductor - Concentric Strand							
1500	Open	1017	43	17.9	873	45	13.2	778	46	10.4	0.1	0.2	0.2
1750	Open	1088	44	17.4	932	45	12.8	829	46	10.2	0.1	0.2	0.2
2000	Open	1148	44	16.9	982	45	12.4	873	46	9.9	0.1	0.2	0.2
						50°C - Copper Conductor - Compact Segmental Strand							
1000	216	595	44	24.4	509	46	18.0	452	47	14.1	0.1	0.1	0.2
1000	Open	864	42	19.3	746	44	14.4	667	46	11.6	0.1	0.1	0.2
1250	197	629	45	23.9	536	46	17.3	476	47	13.7	0.1	0.1	0.2
1250	Open	979	43	18.5	843	45	13.7	752	46	10.9	0.1	0.1	0.2
1500	Open	1082	43	17.9	930	45	13.2	828	46	10.4	0.1	0.2	0.2
1750	Open	1176	44	17.4	1008	45	12.8	897	46	10.2	0.1	0.2	0.2

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5 kV 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 .0220 pf & Rho 60	90	120
						100% LF							
						50°C - Copper Conductor - Compact Round Strand							
4/0	525	296	42	23.7	255	44	17.5	227	46	14.0	0.1	0.1	0.1
250	495	321	43	23.4	276	45	17.4	245	46	13.7	0.1	0.1	0.1
350	414	373	44	23.2	318	46	16.8	282	47	13.1	0.1	0.1	0.1
500	365	432	45	22.8	366	46	16.4	323	47	12.8	0.1	0.1	0.1
750	294	490	46	21.8	414	47	15.4	364	48	12.0	0.1	0.1	0.1
750	Open	636	44	17.8	541	46	12.8	478	47	10.1	0.1	0.1	0.2
1000	246	523	46	20.8	439	47	14.6	386	48	11.2	0.1	0.1	0.2
1000	Open	737	45	16.7	624	46	11.9	551	47	9.3	0.1	0.1	0.2
1250	211	534	46	18.5	449	47	13.3	395	48	10.3	0.1	0.1	0.2
1250	Open	806	44	14.5	685	46	10.5	605	47	8.2	0.1	0.1	0.2
						50°C - Copper Conductor - Concentric Strand							
1500	Open	881	45	13.4	745	46	9.7	656	47	7.4	0.1	0.2	0.2
1750	Open	940	45	13.0	793	47	9.3	698	47	7.2	0.1	0.2	0.2
2000	Open	989	45	12.6	833	47	8.9	733	47	6.9	0.1	0.2	0.2
						50°C - Copper Conductor - Compact Segmental Strand							
1000	216	519	46	18.6	437	47	13.3	384	48	10.3	0.1	0.1	0.2
1000	Open	755	44	14.8	641	46	10.7	567	47	8.4	0.1	0.1	0.2
1250	197	547	46	18.1	459	47	12.7	403	48	10.0	0.1	0.1	0.2
1250	Open	852	45	14.1	721	46	10.2	637	47	8.0	0.1	0.1	0.2
1500	Open	938	45	13.4	793	46	9.7	699	47	7.4	0.1	0.2	0.2
1750	Open	1016	45	13.0	857	47	9.3	755	47	7.2	0.1	0.2	0.2

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5 kV 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	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 .0220 pf & Rho 60	90	120
					75% LF								
					95°C - Copper Conductor - Compact Round Strand								
4/0	525	493	71	71.0	429	77	53.9	385	80	43.4	0.1	0.1	0.1
250	495	538	72	70.1	466	78	52.7	418	81	42.3	0.1	0.1	0.1
350	414	631	74	68.6	544	80	50.8	486	83	40.7	0.1	0.1	0.1
500	365	740	77	66.6	636	82	49.3	565	84	38.9	0.1	0.1	0.2
750	294	861	80	64.0	731	84	46.2	647	86	36.1	0.1	0.1	0.2
750	Open	1059	77	56.3	908	81	41.4	806	84	32.7	0.1	0.1	0.2
1000	246	937	82	61.6	791	86	43.9	698	88	34.1	0.1	0.2	0.2
1000	Open	1235	78	53.0	1053	83	38.4	933	85	30.3	0.1	0.2	0.2
1250	211	966	81	54.9	819	85	39.5	724	87	30.9	0.1	0.2	0.2
1250	Open	1356	77	46.3	1159	82	33.9	1030	85	26.7	0.1	0.2	0.2
					95°C - Copper Conductor - Concentric Strand								
1500	Open	1493	79	43.2	1270	83	31.3	1126	86	24.6	0.1	0.2	0.2
1750	Open	1599	79	41.6	1357	84	30.0	1203	86	23.5	0.1	0.2	0.3
2000	Open	1689	80	40.3	1433	84	29.0	1269	87	22.8	0.1	0.2	0.3
					95°C - Copper Conductor - Compact Segmental Strand								
1000	216	927	80	54.9	787	84	39.7	696	87	31.1	0.1	0.2	0.2
1000	Open	1254	77	46.7	1074	82	34.3	954	84	27.0	0.1	0.2	0.2
1250	197	989	82	53.5	837	85	38.2	739	88	29.9	0.1	0.2	0.2
1250	Open	1420	78	45.0	1211	82	32.6	1075	85	25.7	0.1	0.2	0.2
1500	Open	1568	79	43.2	1334	83	31.3	1183	86	24.6	0.1	0.2	0.2
1750	Open	1704	79	41.6	1446	84	30.0	1282	86	23.5	0.1	0.2	0.3

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5 kV 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 .0220 pf & Rho 60	90	120
		°C	w/ft²		°C	w/ft²		°C	w/ft²				
100% LF													
95°C - Copper Conductor - Compact Round Strand													
4/0	525	435	76	55.1	372	81	40.3	331	84	31.8	0.1	0.1	0.1
250	495	472	77	54.1	403	82	39.7	358	85	31.2	0.1	0.1	0.1
350	414	551	79	52.1	468	84	37.7	414	86	29.3	0.1	0.1	0.1
500	365	642	81	50.2	541	85	35.6	477	87	27.7	0.1	0.1	0.2
750	294	738	84	47.0	620	87	33.2	545	89	25.8	0.1	0.1	0.2
750	Open	912	81	41.7	770	85	29.8	679	87	23.1	0.1	0.1	0.2
1000	246	798	85	44.6	667	88	31.3	585	90	24.1	0.1	0.2	0.2
1000	Open	1057	83	38.9	890	86	27.5	783	88	21.2	0.1	0.2	0.2
1250	211	827	85	40.2	691	88	28.2	606	89	21.7	0.1	0.2	0.2
1250	Open	1162	82	34.1	980	86	24.2	864	88	18.9	0.1	0.2	0.2
95°C - Copper Conductor - Concentric Strand													
1500	Open	1270	83	31.3	1068	87	22.2	939	89	17.1	0.1	0.2	0.2
1750	Open	1357	84	30.0	1139	87	21.1	1000	89	16.3	0.1	0.2	0.3
2000	Open	1433	84	29.0	1201	87	20.4	1054	89	15.7	0.1	0.2	0.3
95°C - Copper Conductor - Compact Segmental Strand													
1000	216	792	84	40.1	664	87	28.3	583	89	21.6	0.1	0.2	0.2
1000	Open	1076	81	34.5	909	85	24.7	801	88	19.1	0.1	0.2	0.2
1250	197	842	85	38.8	704	88	27.1	617	90	20.9	0.1	0.2	0.2
1250	Open	1212	82	32.8	1022	86	23.3	899	88	18.1	0.1	0.2	0.2
1500	Open	1335	83	31.3	1123	87	22.2	987	89	17.1	0.1	0.2	0.2
1750	Open	1447	84	30.0	1214	87	21.2	1066	89	16.3	0.1	0.2	0.3

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5 kV 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 .0220 pf & Rho 60	90	120
		°C	w/ft²		°C	w/ft²		°C	w/ft²				
					75% LF								
					85°C - Copper Conductor - Compact Round Strand								
4/0	525	461	64	60.9	402	69	46.1	360	72	37.2	0.1	0.1	0.1
250	495	502	65	60.4	436	70	45.6	390	73	36.3	0.1	0.1	0.1
350	414	588	67	58.8	508	72	44.0	454	75	35.0	0.1	0.1	0.1
500	365	688	70	57.5	590	74	42.3	525	76	33.5	0.1	0.1	0.2
750	294	796	72	55.3	675	76	39.8	598	78	31.1	0.1	0.1	0.2
750	Open	994	69	48.3	853	73	35.6	757	76	27.9	0.1	0.1	0.2
1000	246	861	74	53.0	727	77	38.0	642	79	29.6	0.1	0.2	0.2
1000	Open	1159	71	45.4	988	75	32.9	876	77	26.0	0.1	0.2	0.2
1250	211	886	73	47.3	751	76	34.1	664	78	26.7	0.1	0.2	0.2
1250	Open	1272	70	39.8	1087	74	29.0	966	76	22.9	0.1	0.2	0.2
					85°C - Copper Conductor - Concentric Strand								
1500	Open	1398	71	37.0	1189	75	26.8	1054	77	21.0	0.1	0.2	0.2
1750	Open	1497	72	35.6	1270	75	25.6	1126	77	20.2	0.1	0.2	0.3
2000	Open	1580	72	34.5	1341	76	24.9	1187	78	19.6	0.1	0.2	0.3
					85°C - Copper Conductor - Compact Segmental Strand								
1000	216	853	73	47.4	724	76	34.1	640	78	26.8	0.1	0.2	0.2
1000	Open	1179	69	40.1	1009	73	29.4	896	76	23.1	0.1	0.2	0.2
1250	197	908	74	46.2	768	77	33.0	678	79	25.7	0.1	0.2	0.2
1250	Open	1334	70	38.6	1138	74	28.1	1009	77	22.1	0.1	0.2	0.2
1500	Open	1473	71	37.0	1253	75	26.8	1111	77	21.0	0.1	0.2	0.2
1750	Open	1600	72	35.6	1358	75	25.6	1203	77	20.2	0.1	0.2	0.3

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1778

5 kV 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 .0220 pf & Rho 60	90	120
						100% LF							
						85°C - Copper Conductor - Compact Round Strand							
4/0	525	407	69	47.3	348	73	34.9	310	76	27.5	0.1	0.1	0.1
250	495	441	70	46.7	376	74	33.7	334	76	26.7	0.1	0.1	0.1
350	414	513	72	45.1	436	75	32.3	385	78	25.2	0.1	0.1	0.1
500	365	596	73	43.2	502	77	30.7	443	79	24.0	0.1	0.1	0.2
750	294	683	76	40.6	572	78	28.7	503	80	22.0	0.1	0.1	0.2
750	Open	857	73	35.9	723	77	25.5	638	79	19.9	0.1	0.1	0.2
1000	246	734	77	38.4	613	79	27.0	538	81	20.8	0.1	0.2	0.2
1000	Open	992	74	33.2	835	78	23.6	735	79	18.4	0.1	0.2	0.2
1250	211	757	76	34.5	633	79	24.2	555	80	18.7	0.1	0.2	0.2
1250	Open	1090	74	29.2	919	77	20.8	810	79	16.2	0.1	0.2	0.2
						85°C - Copper Conductor - Concentric Strand							
1500	Open	1191	75	26.8	1001	78	19.0	880	79	14.7	0.1	0.2	0.2
1750	Open	1271	75	25.8	1066	78	18.1	936	80	14.0	0.1	0.2	0.3
2000	Open	1340	76	24.9	1123	79	17.4	986	80	13.6	0.1	0.2	0.3
						85°C - Copper Conductor - Compact Segmental Strand							
1000	216	731	76	34.7	611	79	24.2	536	80	18.6	0.1	0.2	0.2
1000	Open	1012	73	29.6	854	77	21.0	752	79	16.3	0.1	0.2	0.2
1250	197	772	77	33.4	645	79	23.3	566	81	17.9	0.1	0.2	0.2
1250	Open	1139	74	28.1	960	77	19.9	844	79	15.5	0.1	0.2	0.2
1500	Open	1255	75	26.8	1054	78	19.0	927	79	14.7	0.1	0.2	0.2
1750	Open	1358	75	25.8	1140	78	18.1	1001	80	14.0	0.1	0.2	0.3

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5 kV 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 .0220 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	525	51	41.1	385	55	31.0	334	57	24.8	300	0.1	0.1	0.1
250	495	52	40.8	418	55	30.4	362	57	24.5	324	0.1	0.1	0.1
350	414	54	39.7	486	57	29.6	419	58	23.5	374	0.1	0.1	0.1
500	365	55	38.9	564	58	28.6	483	59	22.5	429	0.1	0.1	0.2
750	294	57	37.5	645	59	26.8	547	60	21.0	483	0.1	0.1	0.2
750	Open	55	32.1	836	57	23.6	717	59	18.6	636	0.1	0.1	0.2
1000	246	58	35.8	692	60	25.5	585	61	19.8	515	0.1	0.2	0.2
1000	Open	55	30.3	973	58	22.0	829	60	17.2	735	0.1	0.2	0.2
1250	211	57	32.0	707	59	22.9	600	61	17.9	530	0.1	0.2	0.2
1250	Open	55	26.5	1066	57	19.4	911	59	15.4	809	0.1	0.2	0.2
						65°C - Copper Conductor - Concentric Strand							
1500	Open	56	24.6	1170	58	17.9	994	60	14.0	882	0.1	0.2	0.2
1750	Open	56	23.7	1251	59	17.2	1061	60	13.5	940	0.1	0.2	0.3
2000	Open	57	22.9	1317	59	16.6	1117	60	13.1	989	0.1	0.2	0.3
						65°C - Copper Conductor - Compact Segmental Strand							
1000	216	57	32.2	685	59	23.1	581	60	18.0	514	0.1	0.2	0.2
1000	Open	55	26.8	993	57	19.5	849	59	15.4	754	0.1	0.2	0.2
1250	197	58	31.3	725	60	22.3	613	61	17.3	540	0.1	0.2	0.2
1250	Open	55	25.7	1123	58	18.7	957	59	14.7	849	0.1	0.2	0.2
1500	Open	56	24.6	1239	58	17.9	1053	60	14.0	935	0.1	0.2	0.2
1750	Open	56	23.7	1345	59	17.2	1141	60	13.5	1011	0.1	0.2	0.3

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1780

5 kV 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	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 .0220 pf & Rho 60	90	120
						100% LF							
						65°C - Copper Conductor - Compact Round Strand							
4/0	525	339	54	31.8	290	57	23.3	257	59	18.2	0.1	0.1	0.1
250	495	367	55	31.5	313	58	23.0	277	59	17.8	0.1	0.1	0.1
350	414	425	56	30.6	359	59	21.9	318	60	17.1	0.1	0.1	0.1
500	365	487	58	29.2	411	60	20.7	362	61	16.1	0.1	0.1	0.2
750	294	553	59	27.6	463	61	19.4	406	62	14.9	0.1	0.1	0.2
750	Open	721	57	23.9	608	59	17.0	536	61	13.3	0.1	0.1	0.2
1000	246	591	60	26.3	492	61	18.1	431	62	13.8	0.1	0.2	0.2
1000	Open	833	58	22.2	701	60	15.8	617	61	12.2	0.1	0.2	0.2
1250	211	604	59	23.3	505	61	16.4	443	62	12.6	0.1	0.2	0.2
1250	Open	913	57	19.6	770	60	13.9	678	61	10.7	0.1	0.2	0.2
						65°C - Copper Conductor - Concentric Strand							
1500	Open	996	58	17.9	837	60	12.7	736	61	9.9	0.1	0.2	0.2
1750	Open	1062	59	17.2	891	61	12.1	782	62	9.3	0.1	0.2	0.3
2000	Open	1118	59	16.6	936	61	11.7	821	62	9.0	0.1	0.2	0.3
						65°C - Copper Conductor - Compact Segmental Strand							
1000	216	587	59	23.6	490	61	16.5	430	62	12.6	0.1	0.2	0.2
1000	Open	852	57	19.7	719	60	14.1	633	61	10.9	0.1	0.2	0.2
1250	197	617	60	22.5	515	61	15.7	451	62	12.1	0.1	0.2	0.2
1250	Open	959	58	18.7	808	60	13.3	711	61	10.4	0.1	0.2	0.2
1500	Open	1056	58	17.9	887	60	12.7	779	61	9.9	0.1	0.2	0.2
1750	Open	1142	59	17.2	958	61	12.1	841	62	9.3	0.1	0.2	0.3

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5 kV 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 .0220 pf & Rho 60	90	120
						75% LF							
						50°C - Copper Conductor - Compact Round Strand							
4/0	525	308	42	26.0	268	44	19.4	240	45	15.5	0.1	0.1	0.1
250	495	335	42	25.6	290	44	19.3	259	45	15.6	0.1	0.1	0.1
350	414	387	43	25.2	333	45	18.5	297	46	14.8	0.1	0.1	0.1
500	365	446	44	24.6	381	46	17.9	338	47	14.3	0.1	0.1	0.2
750	294	504	45	23.6	428	46	17.0	378	47	13.3	0.1	0.1	0.2
750	Open	675	43	19.9	578	45	14.6	514	46	11.7	0.1	0.1	0.2
1000	246	538	46	22.7	454	47	16.0	400	48	12.7	0.1	0.2	0.2
1000	Open	786	44	18.9	669	46	13.6	593	47	10.7	0.1	0.2	0.2
1250	211	548	45	20.2	464	47	14.5	409	47	11.4	0.1	0.2	0.2
1250	Open	859	44	16.6	734	45	12.0	652	46	9.5	0.1	0.2	0.2
						50°C - Copper Conductor - Concentric Strand							
1500	Open	939	44	15.3	801	46	11.2	709	47	8.7	0.1	0.2	0.2
1750	Open	1003	45	14.7	853	46	10.7	755	47	8.4	0.1	0.2	0.3
2000	Open	1057	45	14.4	897	46	10.4	794	47	8.2	0.1	0.2	0.3
						50°C - Copper Conductor - Compact Segmental Strand							
1000	216	532	45	20.1	451	47	14.6	399	47	11.4	0.1	0.2	0.2
1000	Open	802	44	16.7	687	45	12.2	611	46	9.6	0.1	0.2	0.2
1250	197	561	46	19.7	474	47	14.1	417	48	10.9	0.1	0.2	0.2
1250	Open	909	44	16.1	774	46	11.7	687	47	9.2	0.1	0.2	0.2
1500	Open	1000	44	15.3	852	46	11.2	755	47	8.7	0.1	0.2	0.2
1750	Open	1084	45	14.7	922	46	10.7	817	47	8.4	0.1	0.2	0.3

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5 kV 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	°C	Flux w/ft²	---- 90 Rho--- Interface Temp Amps	°C	Flux w/ft²	----120 Rho--- Interface Temp Amps	°C	Flux w/ft²	delta Td for .0220 pf & Rho 60	90	120
					100% LF								
					50°C - Copper Conductor - Compact Round Strand								
4/0	525	272	44	20.2	232	45	14.7	206	46	11.6	0.1	0.1	0.1
250	495	294	44	19.7	250	46	14.5	221	47	11.1	0.1	0.1	0.1
350	414	338	45	19.2	285	46	13.8	252	47	10.8	0.1	0.1	0.1
500	365	388	45	18.6	324	47	13.1	285	48	10.0	0.1	0.1	0.2
750	294	433	46	17.3	362	47	12.2	318	48	9.3	0.1	0.1	0.2
750	Open	583	45	14.9	492	47	10.6	433	47	8.2	0.1	0.1	0.2
1000	246	459	47	16.5	382	48	11.5	335	48	8.8	0.1	0.2	0.2
1000	Open	673	46	13.8	566	47	9.8	498	48	7.6	0.1	0.2	0.2
1250	211	467	47	14.7	390	48	10.3	342	48	8.0	0.1	0.2	0.2
1250	Open	736	45	12.2	621	47	8.6	547	47	6.7	0.1	0.2	0.2
					50°C - Copper Conductor - Concentric Strand								
1500	Open	802	46	11.2	674	47	7.8	592	48	6.1	0.1	0.2	0.2
1750	Open	854	46	10.7	716	47	7.5	628	48	5.8	0.1	0.2	0.3
2000	Open	898	46	10.4	752	47	7.4	659	48	5.7	0.1	0.2	0.3
					50°C - Copper Conductor - Compact Segmental Strand								
1000	216	455	46	14.8	380	48	10.3	333	48	7.9	0.1	0.2	0.2
1000	Open	690	45	12.2	582	47	8.8	513	47	6.9	0.1	0.2	0.2
1250	197	477	47	14.3	398	48	10.0	348	48	7.6	0.1	0.2	0.2
1250	Open	777	46	11.7	654	47	8.4	575	48	6.4	0.1	0.2	0.2
1500	Open	854	46	11.2	717	47	7.8	630	48	6.1	0.1	0.2	0.2
1750	Open	923	46	10.7	774	47	7.5	679	48	5.8	0.1	0.2	0.3

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5 kV 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 .0220 pf No Sun 0 Ft/s	delta Td for .0220 pf No Sun 2 Ft/s
95°C - Copper Conductor - Compact Round Strand							
4/0	525	261	271	199	223	0.2	0.1
250	495	287	299	219	246	0.2	0.2
350	414	361	373	273	303	0.2	0.2
500	365	440	457	333	370	0.2	0.2
750	294	548	570	415	462	0.2	0.2
1000	246	652	675	490	541	0.2	0.2

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1784

5 kV 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 .0220 pf No Sun 0 Ft/s	delta Td for .0220 pf No Sun 2 Ft/s
95°C - Copper Conductor - Compact Round Strand							
4/0	525	316	385	263	345	0.1	0.1
250	495	351	426	292	380	0.1	0.1
350	414	434	522	359	463	0.1	0.1
500	365	541	644	445	569	0.1	0.1
750	294	690	815	564	714	0.1	0.1
1000	246	811	952	660	830	0.1	0.1

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5 kV 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 .0220 pf No Sun 0 Ft/s	delta Td for .0220 pf No Sun 2 Ft/s
95°C - Copper Conductor - Compact Round Strand							
4/0	525	257	282	224	256	0.2	0.1
250	495	282	310	246	282	0.2	0.1
350	414	361	391	314	352	0.2	0.1
500	365	436	474	380	431	0.2	0.2
750	294	532	580	463	528	0.2	0.2
1000	246	634	685	552	619	0.2	0.2

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1786

5 kV Single Conductor Solid Type Paper Lead Sheathed Power Cable

in Underground Duct Bank - Triplexed - Single Circuit

25°C Earth Ambient

		60 Rho		90 Rho		120 Rho		delta Td for .0220 pf & Rho		
		75 LF	100 LF	75 LF	100 LF	75 LF	100 LF	60	90	120
Condr Size	Sheath Res									
		95°C - Aluminum Conductor - Compact Round Strand								
4/0	525	258	247	249	234	240	222	0.1	0.2	0.2
250	495	285	273	274	257	264	244	0.1	0.2	0.2
350	414	348	332	334	312	321	295	0.2	0.2	0.2
500	365	429	407	410	381	392	359	0.2	0.2	0.2
750	294	542	512	515	476	492	447	0.2	0.2	0.3
1000	246	636	598	603	554	574	518	0.2	0.2	0.3

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5 kV 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 .0220 pf & Rho 60	delta Td for .0220 pf & Rho 90	delta Td for .0220 pf & Rho 120
		95°C - Aluminum Conductor - Compact Round Strand								
4/0	525	230	210	213	189	199	174	0.2	0.2	0.3
250	495	253	230	234	207	218	190	0.2	0.3	0.3
350	414	307	277	282	249	262	227	0.2	0.3	0.3
500	365	374	336	342	300	317	273	0.3	0.3	0.4
750	294	468	417	425	369	392	335	0.3	0.4	0.5
1000	246	544	482	492	425	452	385	0.3	0.4	0.5

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1788

5 kV 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 .0220 pf & Rho		
		75 LF	100 LF	75 LF	100 LF	75 LF	100 LF	60	90	120
Condr Size	Sheath Res									
		95°C - Aluminum Conductor - Compact Round Strand								
4/0	525	200	174	178	151	162	135	0.3	0.4	0.5
250	495	220	191	194	165	176	148	0.3	0.4	0.5
350	414	264	228	233	197	210	175	0.3	0.5	0.6
500	365	320	275	280	236	253	210	0.4	0.5	0.7
750	294	393	337	344	288	310	256	0.5	0.6	0.8
1000	246	454	387	395	330	355	292	0.5	0.7	0.9

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5 kV 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 .0220 pf & Rho 60	90	120
				95°C - Aluminum Conductor - Compact Round Strand						
4/0	525	180	153	158	133	143	118	0.4	0.5	0.6
250	495	197	167	173	145	156	129	0.4	0.5	0.7
350	414	235	199	206	172	185	152	0.4	0.6	0.8
500	365	284	239	247	205	222	182	0.5	0.7	0.9
750	294	349	293	303	249	271	222	0.6	0.8	1.0
1000	246	401	335	347	286	310	253	0.7	0.9	1.2

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1790

5 kV 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 .0220 pf & Rho 60	90	120
				95°C - Aluminum Conductor - Compact Round Strand						
4/0	525	302	286	288	267	276	251	0.1	0.1	0.1
250	495	332	314	316	292	302	274	0.1	0.1	0.1
350	414	397	375	377	348	359	325	0.1	0.1	0.1
500	365	477	448	451	414	428	385	0.1	0.1	0.2
750	294	576	539	541	494	512	458	0.1	0.2	0.2
1000	246	649	604	607	551	572	509	0.1	0.2	0.2
1000	Open	788	729	738	666	696	617	0.2	0.2	0.2
1250	211	700	649	653	590	614	544	0.1	0.2	0.2
1250	Open	893	824	834	751	785	694	0.1	0.2	0.2
				95°C - Aluminum Conductor - Concentric Strand						
1500	174	750	692	696	626	652	575	0.2	0.2	0.2
1500	Open	1008	924	936	837	877	770	0.2	0.2	0.2
1750	156	781	719	723	649	677	595	0.2	0.2	0.2
1750	Open	1097	1003	1017	907	951	833	0.2	0.2	0.3
2000	Open	1178	1074	1089	969	1018	888	0.2	0.2	0.3
				95°C - Aluminum Conductor - Compact Segmental Strand						
1000	216	656	609	612	554	576	511	0.1	0.2	0.2
1000	Open	807	744	754	679	710	628	0.1	0.2	0.2
1250	197	715	662	666	600	625	553	0.1	0.2	0.2
1250	Open	922	848	859	770	806	711	0.2	0.2	0.2
1500	174	758	699	704	633	659	581	0.2	0.2	0.2
1500	Open	1028	943	955	854	895	786	0.2	0.2	0.2
1750	156	791	728	733	657	686	603	0.2	0.2	0.2
1750	Open	1128	1031	1045	932	978	855	0.2	0.2	0.3
2000	Open	1219	1112	1128	1003	1053	919	0.2	0.2	0.3
2250	Open	1300	1183	1200	1065	1119	975	0.2	0.2	0.3
2500	Open	1381	1254	1274	1127	1186	1030	0.2	0.2	0.3
2750	Open	1456	1320	1340	1185	1247	1082	0.2	0.2	0.3
3000	Open	1522	1377	1398	1234	1300	1126	0.2	0.2	0.3

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5 kV 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 .0220 pf & Rho 60	90	120
		95°C - Aluminum Conductor - Compact Round Strand								
4/0	525	276	252	255	227	238	208	0.1	0.2	0.2
250	495	303	275	279	248	260	226	0.1	0.2	0.2
350	414	363	327	332	292	309	267	0.1	0.2	0.2
500	365	435	392	397	347	367	316	0.2	0.2	0.3
750	294	528	472	480	415	440	376	0.2	0.2	0.3
1000	246	598	529	541	465	494	420	0.2	0.3	0.3
1000	Open	697	621	630	545	578	492	0.2	0.3	0.3
1250	211	650	573	585	501	533	451	0.2	0.3	0.3
1250	Open	787	696	710	611	652	550	0.2	0.3	0.3
		95°C - Aluminum Conductor - Concentric Strand								
1500	174	699	612	624	533	568	478	0.2	0.3	0.4
1500	Open	881	773	787	675	718	606	0.2	0.3	0.4
1750	156	732	639	651	555	592	497	0.2	0.3	0.4
1750	Open	956	836	851	728	775	653	0.2	0.3	0.4
2000	Open	1024	892	909	775	827	694	0.3	0.3	0.4
		95°C - Aluminum Conductor - Compact Segmental Strand								
1000	216	605	534	545	468	497	421	0.2	0.3	0.3
1000	Open	711	630	643	553	590	499	0.2	0.3	0.3
1250	197	664	583	594	510	542	458	0.2	0.3	0.4
1250	Open	809	713	728	624	664	562	0.2	0.3	0.4
1500	174	708	620	632	540	575	484	0.2	0.3	0.4
1500	Open	899	789	803	689	733	619	0.2	0.3	0.4
1750	156	744	650	662	564	602	505	0.2	0.3	0.4
1750	Open	982	859	875	748	797	671	0.2	0.3	0.4
2000	Open	1060	924	941	803	856	718	0.3	0.3	0.4
2250	Open	1127	979	998	850	906	759	0.3	0.4	0.5
2500	Open	1195	1036	1056	897	958	801	0.3	0.4	0.5
2750	Open	1257	1088	1110	942	1006	840	0.3	0.4	0.5
3000	Open	1311	1133	1156	979	1046	873	0.3	0.4	0.5

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1792

5 kV 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 .0220 pf & Rho 60	90	120
						75% LF							
						95°C - Aluminum Conductor - Compact Round Strand							
4/0	525	370	74	108.0	321	79	81.4	288	82	65.5	0.1	0.1	0.1
250	495	408	74	106.6	353	80	79.9	316	83	64.0	0.1	0.1	0.1
350	414	495	76	102.5	427	81	76.3	382	84	61.0	0.1	0.1	0.2
500	365	606	78	98.5	521	82	72.8	464	85	57.9	0.1	0.1	0.2
750	294	760	79	92.9	651	84	68.1	579	86	53.9	0.1	0.2	0.2
1000	246	888	81	88.6	758	85	64.5	673	87	50.8	0.1	0.2	0.2
1250	211	981	79	79.7	840	84	58.4	747	86	46.3	0.1	0.2	0.2
						95°C - Aluminum Conductor - Concentric Strand							
1500	174	1083	81	75.5	924	85	55.0	821	87	43.5	0.1	0.2	0.2
1750	156	1158	82	73.7	987	85	53.5	876	87	42.3	0.1	0.2	0.3
2000	147	1225	82	72.2	1042	86	52.3	925	88	41.2	0.1	0.2	0.3
						95°C - Aluminum Conductor - Compact Segmental Strand							
1000	216	896	79	80.1	768	83	58.9	684	86	46.7	0.1	0.2	0.2
1250	197	1010	80	77.8	863	84	56.8	768	86	45.0	0.1	0.2	0.2
1500	174	1107	81	75.5	945	85	55.1	840	87	43.5	0.1	0.2	0.2
1750	156	1192	82	73.8	1016	85	53.5	902	87	42.3	0.1	0.2	0.3
2000	147	1270	82	72.4	1081	86	52.4	959	88	41.2	0.1	0.2	0.3
2250	134	1329	83	70.9	1130	86	51.3	1002	88	40.4	0.2	0.2	0.3
2500	128	1391	83	69.9	1181	86	50.4	1047	88	39.6	0.2	0.2	0.3
2750	117	1438	83	68.3	1221	87	49.2	1081	88	38.7	0.2	0.2	0.3
3000	113	1482	84	67.4	1257	87	48.5	1114	89	38.1	0.2	0.2	0.3

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5 kV 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 .0220 pf & Rho 60	90	120
						100% LF							
						95°C - Aluminum Conductor - Compact Round Strand							
4/0	525	337	77	89.9	288	82	65.5	255	85	51.6	0.1	0.1	0.1
250	495	371	78	88.1	316	83	64.0	280	85	50.2	0.1	0.1	0.1
350	414	448	79	83.9	380	84	60.4	336	86	47.2	0.1	0.1	0.2
500	365	545	81	79.7	461	85	57.1	406	87	44.5	0.1	0.1	0.2
750	294	679	83	74.1	571	86	52.6	503	88	40.7	0.1	0.2	0.2
1000	246	788	84	69.8	661	87	49.2	581	89	37.9	0.1	0.2	0.2
1250	211	869	83	62.4	731	86	44.3	643	88	34.2	0.1	0.2	0.2
						95°C - Aluminum Conductor - Concentric Strand							
1500	174	951	84	58.3	798	87	41.1	700	89	31.7	0.1	0.2	0.2
1750	156	1014	85	56.4	848	88	39.6	744	89	30.5	0.1	0.2	0.3
2000	147	1068	85	55.0	893	88	38.5	783	90	29.5	0.1	0.2	0.3
						95°C - Aluminum Conductor - Compact Segmental Strand							
1000	216	795	82	63.1	669	86	44.7	589	88	34.6	0.1	0.2	0.2
1250	197	891	83	60.6	748	87	42.8	658	89	33.0	0.1	0.2	0.2
1500	174	973	84	58.4	816	87	41.1	716	89	31.7	0.1	0.2	0.2
1750	156	1043	85	56.5	873	88	39.6	766	90	30.5	0.1	0.2	0.3
2000	147	1107	85	55.1	926	88	38.5	811	90	29.6	0.1	0.2	0.3
2250	134	1156	86	53.7	965	89	37.5	845	90	28.7	0.2	0.2	0.3
2500	128	1206	86	52.5	1006	89	36.5	880	90	28.0	0.2	0.2	0.3
2750	117	1243	86	51.1	1036	89	35.6	907	90	27.2	0.2	0.2	0.3
3000	113	1278	87	50.2	1065	89	34.9	932	91	26.7	0.2	0.2	0.3

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5 kV 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 .0220 pf & Rho 60	90	120
						75% LF							
						85°C - Aluminum Conductor - Compact Round Strand							
4/0	525	348	67	92.6	302	71	69.6	270	74	56.2	0.1	0.1	0.1
250	495	383	67	91.4	332	72	68.5	297	74	54.9	0.1	0.1	0.1
350	414	465	69	87.9	401	73	65.5	359	75	52.3	0.1	0.1	0.2
500	365	569	70	84.5	489	74	62.5	436	76	49.6	0.1	0.1	0.2
750	294	714	72	79.7	611	75	58.4	543	77	46.2	0.1	0.2	0.2
1000	246	833	73	76.0	711	76	55.4	631	78	43.6	0.1	0.2	0.2
1250	211	919	72	68.3	787	75	50.1	700	77	39.6	0.1	0.2	0.2
						85°C - Aluminum Conductor - Concentric Strand							
1500	174	1013	73	64.7	864	76	47.2	768	78	37.3	0.1	0.2	0.2
1750	156	1082	74	63.2	922	77	45.9	818	78	36.2	0.1	0.2	0.3
2000	147	1143	74	61.9	973	77	44.9	863	79	35.3	0.1	0.2	0.3
						85°C - Aluminum Conductor - Compact Segmental Strand							
1000	216	841	71	68.7	721	75	50.5	642	77	40.0	0.1	0.2	0.2
1250	197	947	72	66.7	809	76	48.8	720	78	38.6	0.1	0.2	0.2
1500	174	1037	73	64.9	885	76	47.3	786	78	37.3	0.1	0.2	0.2
1750	156	1116	74	63.3	950	77	45.9	844	78	36.3	0.1	0.2	0.3
2000	147	1187	74	62.0	1010	77	44.9	896	79	35.4	0.1	0.2	0.3
2250	134	1242	75	60.8	1055	77	44.0	935	79	34.6	0.2	0.2	0.3
2500	128	1298	75	59.9	1102	78	43.2	976	79	33.9	0.2	0.2	0.3
2750	117	1340	75	58.6	1137	78	42.3	1008	79	33.2	0.2	0.2	0.3
3000	113	1380	75	57.8	1171	78	41.6	1037	80	32.6	0.2	0.2	0.3

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5 kV 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 °C	Flux w/ft²	---- 90 Rho--- Interface Temp Amps °C	Flux w/ft²	----120 Rho--- Interface Temp Amps °C	Flux w/ft²	delta Td for .0220 pf & Rho 60	90	120
				100% LF						
				85°C - Aluminum Conductor - Compact Round Strand						
4/0	525	317 70	77.0	271 74	56.2	240 76	44.2	0.1	0.1	0.1
250	495	348 70	75.5	297 74	54.9	263 77	43.0	0.1	0.1	0.1
350	414	421 72	72.0	357 75	51.9	316 78	40.5	0.1	0.1	0.2
500	365	512 73	68.4	433 76	48.9	382 78	38.1	0.1	0.1	0.2
750	294	637 74	63.4	536 77	45.0	472 79	34.8	0.1	0.2	0.2
1000	246	739 75	59.9	620 78	42.1	545 80	32.5	0.1	0.2	0.2
1250	211	814 75	53.5	684 78	37.9	602 79	29.3	0.1	0.2	0.2
				85°C - Aluminum Conductor - Concentric Strand						
1500	174	890 76	50.1	746 78	35.2	655 80	27.1	0.1	0.2	0.2
1750	156	947 76	48.4	793 79	34.0	695 80	26.1	0.1	0.2	0.3
2000	147	997 77	47.1	833 79	33.0	730 81	25.3	0.1	0.2	0.3
				85°C - Aluminum Conductor - Compact Segmental Strand						
1000	216	746 74	54.0	628 77	38.4	552 79	29.7	0.1	0.2	0.2
1250	197	835 75	51.9	701 78	36.6	616 80	28.3	0.1	0.2	0.2
1500	174	911 76	50.1	764 78	35.2	670 80	27.1	0.1	0.2	0.2
1750	156	976 76	48.4	817 79	34.0	716 80	26.1	0.1	0.2	0.3
2000	147	1035 77	47.3	865 79	33.0	758 81	25.4	0.1	0.2	0.3
2250	134	1079 77	46.0	901 80	32.1	789 81	24.7	0.2	0.2	0.3
2500	128	1125 77	45.1	938 80	31.4	821 81	24.0	0.2	0.2	0.3
2750	117	1159 78	43.8	966 80	30.5	845 81	23.4	0.2	0.2	0.3
3000	113	1191 78	43.1	991 80	29.9	867 81	22.9	0.2	0.2	0.3

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1796

5 kV 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 .0220 pf & Rho 60	90	120
						75% LF							
						65°C - Aluminum Conductor - Compact Round Strand							
4/0	525	293	53	61.8	254	56	46.4	228	58	37.4	0.1	0.1	0.1
250	495	323	53	60.8	280	56	45.6	250	58	36.7	0.1	0.1	0.1
350	414	392	54	58.7	338	57	43.6	302	59	34.7	0.1	0.1	0.2
500	365	479	55	56.3	412	58	41.6	367	59	33.2	0.1	0.1	0.2
750	294	600	56	53.2	513	59	39.0	456	60	30.8	0.1	0.2	0.2
1000	246	698	57	50.7	596	59	36.9	529	60	29.0	0.1	0.2	0.2
1250	211	768	56	45.6	657	59	33.4	585	60	26.5	0.1	0.2	0.2
						65°C - Aluminum Conductor - Concentric Strand							
1500	174	844	57	43.3	720	59	31.6	640	60	24.9	0.1	0.2	0.2
1750	156	899	57	42.3	766	60	30.6	680	61	24.1	0.1	0.2	0.3
2000	147	948	58	41.3	806	60	30.0	715	61	23.6	0.1	0.2	0.3
						65°C - Aluminum Conductor - Compact Segmental Strand							
1000	216	706	56	45.9	604	58	33.6	538	60	26.7	0.1	0.2	0.2
1250	197	793	57	44.5	677	59	32.5	602	60	25.7	0.1	0.2	0.2
1500	174	867	57	43.3	739	59	31.6	656	60	24.9	0.1	0.2	0.2
1750	156	930	57	42.3	792	60	30.6	703	61	24.1	0.1	0.2	0.3
2000	147	988	58	41.5	840	60	30.0	745	61	23.6	0.1	0.2	0.3
2250	134	1031	58	40.7	876	60	29.4	776	61	23.1	0.2	0.2	0.3
2500	128	1075	58	40.0	912	60	28.9	808	61	22.7	0.2	0.2	0.3
2750	117	1108	59	39.2	940	60	28.2	832	61	22.1	0.2	0.2	0.3
3000	113	1140	59	38.6	966	61	27.8	855	62	21.8	0.2	0.2	0.3

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5 kV 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 .0220 pf & Rho 60	90	120
						100% LF							
						65°C - Aluminum Conductor - Compact Round Strand							
4/0	525	267	55	51.3	228	58	37.4	202	59	29.6	0.1	0.1	0.1
250	495	294	55	50.5	250	58	36.5	222	60	28.7	0.1	0.1	0.1
350	414	355	56	47.9	301	59	34.5	266	60	26.9	0.1	0.1	0.2
500	365	431	57	45.6	364	59	32.6	321	61	25.3	0.1	0.1	0.2
750	294	535	58	42.3	451	60	30.0	396	61	23.3	0.1	0.2	0.2
1000	246	620	59	39.9	520	61	28.1	456	62	21.7	0.1	0.2	0.2
1250	211	680	58	35.8	572	60	25.3	503	61	19.6	0.1	0.2	0.2
						65°C - Aluminum Conductor - Concentric Strand							
1500	174	742	59	33.4	621	61	23.5	545	62	18.1	0.1	0.2	0.2
1750	156	787	59	32.3	658	61	22.7	577	62	17.5	0.1	0.2	0.3
2000	147	826	60	31.5	690	61	22.0	605	62	16.9	0.1	0.2	0.3
						65°C - Aluminum Conductor - Compact Segmental Strand							
1000	216	626	58	36.1	526	60	25.5	463	61	19.9	0.1	0.2	0.2
1250	197	699	58	34.6	587	60	24.5	516	61	18.9	0.1	0.2	0.2
1500	174	761	59	33.4	638	61	23.5	560	62	18.1	0.1	0.2	0.2
1750	156	814	59	32.4	681	61	22.7	597	62	17.5	0.1	0.2	0.3
2000	147	861	60	31.5	719	61	22.0	630	62	17.0	0.1	0.2	0.3
2250	134	896	60	30.7	747	61	21.5	654	62	16.4	0.2	0.2	0.3
2500	128	932	60	30.1	777	62	20.9	679	62	16.1	0.2	0.2	0.3
2750	117	958	60	29.3	798	62	20.3	698	62	15.6	0.2	0.2	0.3
3000	113	983	60	28.8	818	62	20.0	715	63	15.3	0.2	0.2	0.3

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1798

5 kV 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 .0220 pf & Rho 60	90	120
		°C	w/ft²		°C	w/ft²		°C	w/ft²				
75% LF													
50°C - Aluminum Conductor - Compact Round Strand													
4/0	525	42	38.6	238	44	29.1	206	45	23.5	185	0.1	0.1	0.1
250	495	43	38.1	262	45	28.5	227	46	22.9	203	0.1	0.1	0.1
350	414	43	36.7	318	45	27.3	274	46	21.8	245	0.1	0.1	0.2
500	365	44	35.3	388	45	26.1	333	46	20.7	297	0.1	0.1	0.2
750	294	44	33.3	485	46	24.3	414	47	19.2	368	0.1	0.2	0.2
1000	246	45	31.7	563	46	23.0	480	47	18.2	426	0.1	0.2	0.2
1250	211	45	28.5	618	46	20.9	529	47	16.6	470	0.1	0.2	0.2
50°C - Aluminum Conductor - Concentric Strand													
1500	174	45	27.1	678	46	19.7	578	47	15.5	513	0.1	0.2	0.2
1750	156	45	26.4	720	47	19.1	613	47	15.0	543	0.1	0.2	0.3
2000	147	46	25.8	757	47	18.8	644	47	14.8	570	0.1	0.2	0.3
50°C - Aluminum Conductor - Compact Segmental Strand													
1000	216	44	28.6	570	46	21.1	488	47	16.7	434	0.1	0.2	0.2
1250	197	45	27.8	639	46	20.3	546	47	16.1	485	0.1	0.2	0.2
1500	174	45	27.1	697	46	19.7	594	47	15.6	527	0.1	0.2	0.2
1750	156	45	26.4	747	47	19.1	635	47	15.2	563	0.1	0.2	0.3
2000	147	46	25.9	791	47	18.8	672	48	14.8	596	0.1	0.2	0.3
2250	134	46	25.5	825	47	18.3	700	48	14.4	620	0.2	0.2	0.3
2500	128	46	25.1	859	47	18.0	728	48	14.1	644	0.2	0.2	0.3
2750	117	46	24.5	883	47	17.6	749	48	13.8	662	0.2	0.2	0.3
3000	113	46	24.2	907	47	17.3	768	48	13.7	679	0.2	0.2	0.3

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5 kV 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	Interface Temp	Flux w/ft²	---- 90 Rho--- Amps	Interface Temp	Flux w/ft²	----120 Rho--- Amps	Interface Temp	Flux w/ft²	delta Td for .0220 pf & Rho 60	90	120
						100% LF							
						50°C - Aluminum Conductor - Compact Round Strand							
4/0	525	217	44	32.0	185	45	23.5	164	46	18.3	0.1	0.1	0.1
250	495	238	44	31.5	203	46	22.9	179	47	18.0	0.1	0.1	0.1
350	414	287	44	30.1	244	46	21.6	215	47	16.9	0.1	0.1	0.2
500	365	349	45	28.6	295	46	20.3	260	47	15.9	0.1	0.1	0.2
750	294	433	46	26.4	364	47	18.7	320	48	14.6	0.1	0.2	0.2
1000	246	500	46	25.0	419	47	17.6	368	48	13.5	0.1	0.2	0.2
1250	211	547	46	22.4	460	47	15.8	404	48	12.2	0.1	0.2	0.2
						50°C - Aluminum Conductor - Concentric Strand							
1500	174	595	46	20.9	498	47	14.7	437	48	11.4	0.1	0.2	0.2
1750	156	630	46	20.2	527	48	14.2	461	48	11.0	0.1	0.2	0.3
2000	147	660	47	19.7	551	48	13.8	483	48	10.5	0.1	0.2	0.3
						50°C - Aluminum Conductor - Compact Segmental Strand							
1000	216	505	46	22.6	425	47	15.9	373	48	12.4	0.1	0.2	0.2
1250	197	564	46	21.7	473	47	15.3	415	48	11.8	0.1	0.2	0.2
1500	174	612	46	20.9	513	47	14.7	449	48	11.4	0.1	0.2	0.2
1750	156	653	46	20.2	546	48	14.2	478	48	11.0	0.1	0.2	0.3
2000	147	690	47	19.7	576	48	13.8	504	48	10.5	0.1	0.2	0.3
2250	134	716	47	19.2	597	48	13.4	522	48	10.3	0.2	0.2	0.3
2500	128	744	47	18.8	620	48	13.1	542	48	10.1	0.2	0.2	0.3
2750	117	763	47	18.3	635	48	12.7	555	48	9.8	0.2	0.2	0.3
3000	113	782	47	18.0	650	48	12.5	568	49	9.5	0.2	0.2	0.3

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1800

5 kV 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	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 .0220 pf & Rho 60	90	120
					75% LF								
					95°C - Aluminum Conductor - Compact Round Strand								
4/0	525	327	78	84.5	280	83	61.8	249	85	48.9	0.1	0.1	0.2
250	495	359	79	82.7	307	83	60.3	272	86	47.7	0.1	0.2	0.2
350	414	433	80	78.6	369	84	57.0	327	87	44.7	0.1	0.2	0.2
500	365	527	82	74.4	447	86	53.5	395	88	42.0	0.1	0.2	0.3
750	294	654	83	68.8	553	87	49.2	488	89	38.3	0.2	0.2	0.3
1000	246	758	85	64.5	639	88	45.9	563	89	35.7	0.2	0.3	0.3
1250	211	835	84	57.8	705	87	41.2	622	89	32.1	0.2	0.3	0.3
					95°C - Aluminum Conductor - Concentric Strand								
1500	174	913	85	53.7	769	88	38.1	677	89	29.6	0.2	0.3	0.4
1750	156	972	86	51.9	817	88	36.7	719	90	28.5	0.2	0.3	0.4
2000	147	1023	86	50.4	859	89	35.6	756	90	27.6	0.2	0.3	0.4
					95°C - Aluminum Conductor - Compact Segmental Strand								
1000	216	765	83	58.3	646	87	41.7	570	89	32.6	0.2	0.3	0.3
1250	197	856	84	55.9	722	87	39.8	637	89	31.0	0.2	0.3	0.4
1500	174	933	85	53.7	786	88	38.1	693	90	29.7	0.2	0.3	0.4
1750	156	1000	86	51.9	841	88	36.7	740	90	28.5	0.2	0.3	0.4
2000	147	1060	86	50.5	891	89	35.6	784	90	27.6	0.2	0.3	0.4
2250	134	1106	87	49.1	928	89	34.6	816	90	26.8	0.2	0.3	0.5
2500	128	1153	87	48.0	966	89	33.7	849	91	26.1	0.2	0.4	0.5
2750	117	1188	87	46.6	995	89	32.8	875	91	25.4	0.2	0.4	0.5
3000	113	1221	87	45.7	1022	90	32.1	898	91	24.8	0.3	0.4	0.5

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5 kV 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 .0220 pf & Rho 60	90	120
						100% LF							
						95°C - Aluminum Conductor - Compact Round Strand							
4/0	525	288	82	65.5	242	86	46.4	213	88	36.2	0.1	0.1	0.2
250	495	315	83	63.8	265	86	45.1	233	88	35.1	0.1	0.2	0.2
350	414	378	84	59.7	317	87	42.2	278	89	32.4	0.1	0.2	0.2
500	365	457	85	56.1	382	88	39.3	335	90	30.3	0.1	0.2	0.3
750	294	564	86	51.0	470	89	35.5	411	90	27.3	0.2	0.2	0.3
1000	246	650	87	47.4	540	90	32.8	472	91	25.1	0.2	0.3	0.3
1250	211	714	87	42.3	595	89	29.3	520	91	22.4	0.2	0.3	0.3
						95°C - Aluminum Conductor - Concentric Strand							
1500	174	775	88	38.8	644	90	26.7	562	91	20.4	0.2	0.3	0.4
1750	156	822	88	37.2	682	90	25.7	595	91	19.6	0.2	0.3	0.4
2000	147	863	89	36.0	716	91	24.7	624	92	18.9	0.2	0.3	0.4
						95°C - Aluminum Conductor - Compact Segmental Strand							
1000	216	654	87	42.8	545	89	29.7	477	91	22.8	0.2	0.3	0.3
1250	197	730	87	40.6	607	90	28.1	530	91	21.6	0.2	0.3	0.4
1500	174	793	88	38.8	658	90	26.7	575	91	20.4	0.2	0.3	0.4
1750	156	846	88	37.2	702	90	25.7	613	92	19.6	0.2	0.3	0.4
2000	147	895	89	36.0	742	91	24.8	647	92	18.9	0.2	0.3	0.4
2250	134	931	89	34.8	770	91	23.9	672	92	18.2	0.2	0.3	0.5
2500	128	968	89	33.9	801	91	23.3	698	92	17.6	0.2	0.4	0.5
2750	117	995	89	32.8	823	91	22.5	717	92	17.1	0.2	0.4	0.5
3000	113	1021	90	32.0	844	91	21.9	735	92	16.6	0.3	0.4	0.5

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1802

5 kV 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 .0220 pf & Rho 60	90	120
						75% LF							
						85°C - Aluminum Conductor - Compact Round Strand							
4/0	525	307	71	72.3	263	75	53.0	234	77	42.0	0.1	0.1	0.2
250	495	338	71	70.8	288	75	51.6	256	77	40.9	0.1	0.2	0.2
350	414	407	73	67.4	346	76	48.7	307	78	38.3	0.1	0.2	0.2
500	365	495	74	63.8	419	77	46.0	371	79	36.0	0.1	0.2	0.3
750	294	614	75	59.1	519	78	42.2	458	80	32.8	0.2	0.2	0.3
1000	246	711	76	55.4	599	79	39.3	528	80	30.5	0.2	0.3	0.3
1250	211	782	75	49.6	660	78	35.4	583	80	27.6	0.2	0.3	0.3
						85°C - Aluminum Conductor - Concentric Strand							
1500	174	854	76	46.1	719	79	32.7	633	80	25.3	0.2	0.3	0.4
1750	156	907	77	44.5	763	79	31.5	672	81	24.4	0.2	0.3	0.4
2000	147	955	77	43.2	802	80	30.5	705	81	23.6	0.2	0.3	0.4
						85°C - Aluminum Conductor - Compact Segmental Strand							
1000	216	717	75	50.0	606	78	35.7	535	80	27.8	0.2	0.3	0.3
1250	197	802	76	47.9	676	79	34.1	596	80	26.6	0.2	0.3	0.4
1500	174	874	76	46.1	736	79	32.7	648	80	25.3	0.2	0.3	0.4
1750	156	935	77	44.6	786	79	31.5	692	81	24.4	0.2	0.3	0.4
2000	147	991	77	43.2	832	80	30.6	732	81	23.6	0.2	0.3	0.4
2250	134	1032	78	42.1	866	80	29.7	761	81	23.0	0.2	0.3	0.5
2500	128	1075	78	41.2	901	80	29.0	792	81	22.4	0.2	0.4	0.5
2750	117	1107	78	40.0	927	80	28.1	815	81	21.7	0.2	0.4	0.5
3000	113	1137	79	39.3	951	80	27.5	836	82	21.3	0.3	0.4	0.5

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5 kV 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 .0220 pf & Rho 60	90	120
						100% LF							
						85°C - Aluminum Conductor - Compact Round Strand							
4/0	525	270	74	56.2	228	77	39.8	201	79	31.0	0.1	0.1	0.2
250	495	296	74	54.7	249	78	38.8	219	79	29.9	0.1	0.2	0.2
350	414	355	75	51.3	298	78	36.0	262	80	28.0	0.1	0.2	0.2
500	365	429	77	48.1	359	79	33.7	315	80	25.9	0.1	0.2	0.3
750	294	529	78	43.9	441	80	30.5	386	81	23.4	0.2	0.2	0.3
1000	246	609	78	40.6	506	80	28.1	443	82	21.5	0.2	0.3	0.3
1250	211	669	78	36.2	557	80	25.2	487	81	19.2	0.2	0.3	0.3
						85°C - Aluminum Conductor - Concentric Strand							
1500	174	725	79	33.2	602	81	23.0	526	82	17.5	0.2	0.3	0.4
1750	156	768	79	31.9	637	81	22.0	556	82	16.8	0.2	0.3	0.4
2000	147	806	80	30.8	667	81	21.2	582	82	16.1	0.2	0.3	0.4
						85°C - Aluminum Conductor - Compact Segmental Strand							
1000	216	614	78	36.6	511	80	25.5	447	81	19.6	0.2	0.3	0.3
1250	197	684	78	34.9	569	80	24.1	497	82	18.4	0.2	0.3	0.4
1500	174	742	79	33.2	616	81	23.0	538	82	17.5	0.2	0.3	0.4
1750	156	791	79	31.9	656	81	22.0	573	82	16.8	0.2	0.3	0.4
2000	147	836	80	30.9	693	81	21.2	604	82	16.1	0.2	0.3	0.4
2250	134	869	80	29.8	719	82	20.5	627	82	15.6	0.2	0.3	0.5
2500	128	903	80	29.1	747	82	19.9	651	83	15.1	0.2	0.4	0.5
2750	117	927	80	28.1	767	82	19.2	668	83	14.7	0.2	0.4	0.5
3000	113	950	81	27.5	785	82	18.8	684	83	14.3	0.3	0.4	0.5

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5 kV 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 .0220 pf & Rho 60	90	120
						75% LF							
						65°C - Aluminum Conductor - Compact Round Strand							
4/0	525	259	55	48.4	222	58	35.4	197	60	27.9	0.1	0.1	0.2
250	495	285	56	47.2	243	58	34.6	216	60	27.1	0.1	0.2	0.2
350	414	343	57	44.9	292	59	32.4	258	60	25.6	0.1	0.2	0.2
500	365	416	58	42.5	353	60	30.7	312	61	24.0	0.1	0.2	0.3
750	294	516	58	39.3	436	60	28.1	384	61	21.9	0.2	0.2	0.3
1000	246	596	59	36.9	502	61	26.2	442	62	20.3	0.2	0.3	0.3
1250	211	654	59	33.0	552	60	23.6	487	61	18.3	0.2	0.3	0.3
						65°C - Aluminum Conductor - Concentric Strand							
1500	174	711	59	30.7	598	61	21.8	527	62	16.9	0.2	0.3	0.4
1750	156	754	60	29.6	633	61	21.0	557	62	16.3	0.2	0.3	0.4
2000	147	791	60	28.9	664	61	20.4	584	62	15.7	0.2	0.3	0.4
						65°C - Aluminum Conductor - Compact Segmental Strand							
1000	216	601	58	33.4	508	60	23.8	448	61	18.5	0.2	0.3	0.3
1250	197	672	59	32.0	566	61	22.7	499	62	17.7	0.2	0.3	0.4
1500	174	730	59	30.7	614	61	21.8	541	62	16.9	0.2	0.3	0.4
1750	156	779	60	29.8	655	61	21.0	576	62	16.3	0.2	0.3	0.4
2000	147	824	60	28.9	691	62	20.4	608	62	15.8	0.2	0.3	0.4
2250	134	857	60	28.1	718	62	19.7	631	62	15.3	0.2	0.3	0.5
2500	128	890	60	27.5	746	62	19.3	655	63	14.9	0.2	0.4	0.5
2750	117	915	61	26.8	765	62	18.8	672	63	14.5	0.2	0.4	0.5
3000	113	938	61	26.2	784	62	18.3	688	63	14.2	0.3	0.4	0.5

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5 kV 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 .0220 pf & Rho 60	90	120
		°C	w/ft²		°C	w/ft²		°C	w/ft²				
100% LF													
65°C - Aluminum Conductor - Compact Round Strand													
4/0	525	228	58	37.4	192	60	26.6	169	61	20.5	0.1	0.1	0.2
250	495	250	58	36.5	210	60	25.7	185	61	19.9	0.1	0.2	0.2
350	414	299	59	34.1	251	61	24.2	220	62	18.6	0.1	0.2	0.2
500	365	361	59	32.0	302	61	22.4	265	62	17.2	0.1	0.2	0.3
750	294	444	60	29.3	370	62	20.3	324	62	15.6	0.2	0.2	0.3
1000	246	510	61	27.1	424	62	18.8	371	63	14.3	0.2	0.3	0.3
1250	211	559	60	24.1	465	62	16.8	406	63	12.9	0.2	0.3	0.3
65°C - Aluminum Conductor - Concentric Strand													
1500	174	604	61	22.2	501	62	15.4	437	63	11.7	0.2	0.3	0.4
1750	156	638	61	21.2	529	62	14.7	461	63	11.2	0.2	0.3	0.4
2000	147	667	61	20.6	553	63	14.1	482	63	10.8	0.2	0.3	0.4
65°C - Aluminum Conductor - Compact Segmental Strand													
1000	216	515	60	24.4	429	62	17.0	375	62	13.0	0.2	0.3	0.3
1250	197	572	61	23.2	476	62	16.1	416	63	12.3	0.2	0.3	0.4
1500	174	620	61	22.2	514	62	15.4	449	63	11.7	0.2	0.3	0.4
1750	156	659	61	21.3	546	62	14.7	477	63	11.2	0.2	0.3	0.4
2000	147	695	61	20.6	576	63	14.1	502	63	10.8	0.2	0.3	0.4
2250	134	721	62	19.9	596	63	13.7	519	63	10.4	0.2	0.3	0.5
2500	128	747	62	19.4	618	63	13.3	538	63	10.1	0.2	0.4	0.5
2750	117	766	62	18.8	633	63	12.8	551	63	9.8	0.2	0.4	0.5
3000	113	784	62	18.3	647	63	12.5	563	64	9.5	0.3	0.4	0.5

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1806

5 kV 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 .0220 pf & Rho 60	90	120
		°C	w/ft²	Amps	°C	w/ft²	Amps	°C	w/ft²	Amps			
						75% LF							
						50°C - Aluminum Conductor - Compact Round Strand							
4/0	525	44	30.3	210	46	22.0	180	47	17.3	160	0.1	0.1	0.2
250	495	44	29.4	231	46	21.5	197	47	17.1	175	0.1	0.2	0.2
350	414	45	28.0	278	46	20.3	236	47	15.9	209	0.1	0.2	0.2
500	365	45	26.6	337	47	19.2	285	47	14.9	252	0.1	0.2	0.3
750	294	46	24.6	417	47	17.6	352	48	13.7	310	0.2	0.2	0.3
1000	246	46	23.0	480	47	16.4	404	48	12.8	356	0.2	0.3	0.3
1250	211	46	20.7	526	47	14.7	443	48	11.4	391	0.2	0.3	0.3
						50°C - Aluminum Conductor - Concentric Strand							
1500	174	47	19.2	570	48	13.6	479	48	10.6	422	0.2	0.3	0.4
1750	156	47	18.6	603	48	13.2	506	48	10.2	445	0.2	0.3	0.4
2000	147	47	18.0	631	48	12.8	529	48	9.8	465	0.2	0.3	0.4
						50°C - Aluminum Conductor - Compact Segmental Strand							
1000	216	46	20.8	485	47	14.9	409	48	11.6	361	0.2	0.3	0.3
1250	197	46	19.9	541	47	14.2	455	48	11.0	401	0.2	0.3	0.4
1500	174	47	19.2	587	48	13.6	493	48	10.6	434	0.2	0.3	0.4
1750	156	47	18.6	625	48	13.2	525	48	10.2	461	0.2	0.3	0.4
2000	147	47	18.0	660	48	12.8	553	48	9.8	486	0.2	0.3	0.4
2250	134	47	17.6	684	48	12.4	573	48	9.6	503	0.2	0.3	0.5
2500	128	47	17.2	710	48	12.0	594	49	9.3	521	0.2	0.4	0.5
2750	117	47	16.7	728	48	11.7	609	49	9.0	534	0.2	0.4	0.5
3000	113	47	16.4	746	48	11.5	623	49	8.8	546	0.3	0.4	0.5

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5 kV 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 .0220 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	525	185	45	23.5	156	47	16.6	137	48	13.0	0.1	0.1	0.2
250	495	202	46	22.7	170	47	16.1	150	48	12.4	0.1	0.2	0.2
350	414	242	46	21.4	203	47	15.0	178	48	11.7	0.1	0.2	0.2
500	365	292	47	20.1	244	48	14.0	214	48	10.7	0.1	0.2	0.3
750	294	359	47	18.2	299	48	12.7	261	48	9.7	0.2	0.2	0.3
1000	246	411	47	17.0	342	48	11.7	298	49	9.0	0.2	0.3	0.3
1250	211	449	47	15.1	374	48	10.5	326	49	8.1	0.2	0.3	0.3
50°C - Aluminum Conductor - Concentric Strand													
1500	174	484	48	13.8	401	48	9.6	350	49	7.3	0.2	0.3	0.4
1750	156	510	48	13.3	422	48	9.2	368	49	7.0	0.2	0.3	0.4
2000	147	533	48	12.9	441	49	8.9	384	49	6.8	0.2	0.3	0.4
50°C - Aluminum Conductor - Compact Segmental Strand													
1000	216	415	47	15.3	345	48	10.7	302	48	8.1	0.2	0.3	0.3
1250	197	461	47	14.5	383	48	10.0	334	49	7.7	0.2	0.3	0.4
1500	174	498	48	13.8	413	48	9.6	360	49	7.3	0.2	0.3	0.4
1750	156	529	48	13.3	438	48	9.2	381	49	7.0	0.2	0.3	0.4
2000	147	556	48	12.9	460	49	8.9	401	49	6.8	0.2	0.3	0.4
2250	134	576	48	12.5	476	49	8.6	414	49	6.5	0.2	0.3	0.5
2500	128	596	48	12.1	492	49	8.3	428	49	6.3	0.2	0.4	0.5
2750	117	610	48	11.7	503	49	8.1	438	49	6.1	0.2	0.4	0.5
3000	113	623	48	11.5	514	49	7.8	447	49	5.9	0.3	0.4	0.5

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5 kV 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 .0220 pf & Rho 60	90	120
						75% LF							
						95°C - Aluminum Conductor - Compact Round Strand							
4/0	525	417	67	78.7	367	74	60.9	331	78	49.6	0.1	0.1	0.1
250	495	458	68	78.2	401	75	60.1	362	78	49.0	0.1	0.1	0.1
350	414	549	71	77.0	478	77	58.2	429	80	47.1	0.1	0.1	0.1
500	365	660	73	75.7	571	79	56.6	511	82	45.3	0.1	0.1	0.1
750	294	800	77	73.8	687	81	54.5	611	84	43.3	0.1	0.1	0.2
1000	246	897	78	71.6	768	83	52.5	683	86	41.5	0.1	0.1	0.2
1000	Open	1052	75	61.1	905	81	45.4	807	84	36.0	0.1	0.1	0.2
1250	211	947	77	64.2	813	82	47.3	724	84	37.4	0.1	0.1	0.2
1250	Open	1165	74	53.4	1006	79	40.0	899	83	32.0	0.1	0.1	0.2
						95°C - Aluminum Conductor - Concentric Strand							
1500	174	1009	79	61.1	862	83	44.7	766	86	35.2	0.1	0.1	0.2
1500	Open	1303	76	50.1	1120	81	37.0	998	84	29.4	0.1	0.2	0.2
1750	156	1050	80	60.0	894	84	43.5	793	86	34.2	0.1	0.1	0.2
1750	Open	1413	77	48.4	1212	82	35.6	1079	84	28.3	0.1	0.2	0.2
2000	Open	1512	77	47.2	1294	82	34.6	1152	85	27.5	0.1	0.2	0.2
						95°C - Aluminum Conductor - Compact Segmental Strand							
1000	216	886	76	63.7	762	81	47.2	680	84	37.5	0.1	0.1	0.2
1000	Open	1053	74	54.0	910	79	40.3	814	82	32.2	0.1	0.1	0.2
1250	197	965	77	62.5	827	82	45.8	736	85	36.2	0.1	0.1	0.2
1250	Open	1198	75	52.0	1032	80	38.6	921	83	30.9	0.1	0.1	0.2
1500	174	1021	79	61.2	872	83	44.7	775	86	35.4	0.1	0.1	0.2

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5 kV 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	Flux	Amps	---- 90 Rho--- Interface Temp	Flux	Amps	----120 Rho--- Interface Temp	Flux	Amps	delta Td for .0220 pf & Rho 60	90	120
		°C	w/ft²		°C	w/ft²		°C	w/ft²				
					100% LF								
					95°C - Aluminum Conductor - Compact Round Strand								
4/0	525	374	73	63.2	323	78	46.9	288	82	37.6	0.1	0.1	0.1
250	495	409	74	62.3	352	79	46.4	314	83	36.7	0.1	0.1	0.1
350	414	486	76	60.2	416	81	44.4	370	84	35.0	0.1	0.1	0.1
500	365	580	78	58.4	493	83	42.3	437	86	33.1	0.1	0.1	0.1
750	294	696	81	56.0	588	85	39.8	518	87	31.1	0.1	0.1	0.2
1000	246	779	83	54.0	655	87	38.2	576	88	29.6	0.1	0.1	0.2
1000	Open	918	80	46.6	777	84	33.4	686	87	26.0	0.1	0.1	0.2
1250	211	827	83	48.8	697	86	34.7	613	88	26.9	0.1	0.1	0.2
1250	Open	1017	79	40.8	864	84	29.4	764	86	22.9	0.1	0.1	0.2
					95°C - Aluminum Conductor - Concentric Strand								
1500	174	876	84	46.0	737	88	32.6	646	89	25.1	0.1	0.1	0.2
1500	Open	1130	81	37.8	956	85	27.0	843	87	21.0	0.1	0.2	0.2
1750	156	907	84	44.8	762	88	31.6	669	90	24.4	0.1	0.1	0.2
1750	Open	1221	81	36.3	1031	85	25.8	909	87	20.0	0.1	0.2	0.2
2000	Open	1303	82	35.2	1099	86	24.9	967	88	19.4	0.1	0.2	0.2
					95°C - Aluminum Conductor - Compact Segmental Strand								
1000	216	773	82	48.4	652	86	34.5	574	88	26.8	0.1	0.1	0.2
1000	Open	920	79	41.2	782	83	29.8	692	86	23.4	0.1	0.1	0.2
1250	197	841	83	47.4	707	87	33.4	621	89	25.9	0.1	0.1	0.2
1250	Open	1042	80	39.4	883	84	28.3	780	87	22.1	0.1	0.1	0.2
1500	174	886	84	46.2	745	88	32.6	654	89	25.1	0.1	0.1	0.2

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1810

5 kV 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 .0220 pf & Rho 60	90	120
						75% LF							
						85°C - Aluminum Conductor - Compact Round Strand							
4/0	525	391	61	67.9	344	67	52.4	311	70	42.7	0.1	0.1	0.1
250	495	429	62	67.5	376	68	51.5	339	71	41.9	0.1	0.1	0.1
350	414	514	64	66.2	447	69	50.1	402	72	40.3	0.1	0.1	0.1
500	365	617	67	65.4	533	71	49.0	477	74	39.2	0.1	0.1	0.1
750	294	744	69	63.8	639	74	47.0	569	76	37.5	0.1	0.1	0.2
1000	246	831	71	61.8	711	75	45.4	632	77	35.8	0.1	0.1	0.2
1000	Open	989	68	52.5	851	73	38.7	759	75	30.8	0.1	0.1	0.2
1250	211	875	69	55.3	751	74	40.8	668	76	32.4	0.1	0.1	0.2
1250	Open	1095	67	45.9	945	72	34.3	845	74	27.3	0.1	0.1	0.2
						85°C - Aluminum Conductor - Concentric Strand							
1500	174	930	71	52.7	794	75	38.5	705	77	30.3	0.1	0.1	0.2
1500	Open	1224	69	43.0	1052	73	31.8	937	75	25.3	0.1	0.2	0.2
1750	156	965	72	51.8	822	76	37.6	729	78	29.5	0.1	0.1	0.2
1750	Open	1326	69	41.6	1138	74	30.5	1013	76	24.2	0.1	0.2	0.2
2000	Open	1418	70	40.5	1214	74	29.8	1080	76	23.6	0.1	0.2	0.2
						85°C - Aluminum Conductor - Compact Segmental Strand							
1000	216	821	69	54.9	705	73	40.7	629	76	32.4	0.1	0.1	0.2
1000	Open	991	67	46.3	856	71	34.5	765	74	27.7	0.1	0.1	0.2
1250	197	891	70	53.9	763	74	39.6	679	76	31.3	0.1	0.1	0.2
1250	Open	1126	68	44.6	970	72	33.0	866	75	26.5	0.1	0.1	0.2
1500	174	941	71	52.9	803	75	38.5	713	77	30.3	0.1	0.1	0.2

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5 kV 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 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 .0220 pf & Rho 60	90	120
					100% LF								
					85°C - Aluminum Conductor - Compact Round Strand								
4/0	525	350	66	54.3	302	71	40.3	270	74	32.2	0.1	0.1	0.1
250	495	383	67	53.8	330	72	39.7	294	74	31.5	0.1	0.1	0.1
350	414	455	69	52.1	390	73	38.0	346	76	29.9	0.1	0.1	0.1
500	365	542	71	50.5	481	78	39.8	408	77	28.6	0.1	0.1	0.1
750	294	647	73	48.3	547	77	34.5	482	78	26.8	0.1	0.1	0.2
1000	246	722	75	46.8	607	78	32.9	534	80	25.5	0.1	0.1	0.2
1000	Open	862	72	39.9	730	76	28.6	645	78	22.2	0.1	0.1	0.2
1250	211	763	74	42.1	644	78	30.1	566	79	23.1	0.1	0.1	0.2
1250	Open	955	71	34.9	811	75	25.2	717	77	19.8	0.1	0.1	0.2
					85°C - Aluminum Conductor - Concentric Strand								
1500	174	806	75	39.6	678	79	28.1	596	80	21.8	0.1	0.1	0.2
1500	Open	1061	73	32.4	897	76	23.1	791	78	18.1	0.1	0.2	0.2
1750	156	834	76	38.6	700	79	27.2	614	80	21.1	0.1	0.1	0.2
1750	Open	1146	73	31.1	968	77	22.1	853	79	17.2	0.1	0.2	0.2
2000	Open	1223	74	30.1	1030	77	21.4	907	79	16.6	0.1	0.2	0.2
					85°C - Aluminum Conductor - Compact Segmental Strand								
1000	216	717	74	42.0	604	77	29.8	532	79	23.1	0.1	0.1	0.2
1000	Open	865	71	35.4	736	75	25.5	651	77	19.9	0.1	0.1	0.2
1250	197	776	75	40.8	653	78	29.1	574	80	22.3	0.1	0.1	0.2
1250	Open	980	72	33.8	830	76	24.3	733	78	18.9	0.1	0.1	0.2
1500	174	815	75	39.8	686	79	28.1	603	80	21.8	0.1	0.1	0.2

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1812

5 kV 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 .0220 pf & Rho 60	90	120
						75% LF							
						65°C - Aluminum Conductor - Compact Round Strand							
4/0	525	328	49	45.4	288	53	35.3	260	55	28.7	0.1	0.1	0.1
250	495	360	50	45.2	315	54	34.9	284	56	28.2	0.1	0.1	0.1
350	414	429	51	44.7	373	55	34.0	335	57	27.2	0.1	0.1	0.1
500	365	512	53	44.4	443	56	33.1	396	58	26.5	0.1	0.1	0.1
750	294	611	55	43.0	525	57	31.9	468	59	25.2	0.1	0.1	0.2
1000	246	677	56	41.8	579	58	30.6	514	60	24.1	0.1	0.1	0.2
1000	Open	833	54	34.9	716	57	25.8	639	58	20.5	0.1	0.1	0.2
1250	211	708	55	37.4	607	58	27.6	540	59	21.9	0.1	0.1	0.2
1250	Open	921	53	30.5	795	56	22.7	710	58	18.3	0.1	0.1	0.2
						65°C - Aluminum Conductor - Concentric Strand							
1500	174	748	56	35.7	638	58	25.9	566	60	20.5	0.1	0.1	0.2
1500	Open	1029	54	28.7	884	57	21.2	787	59	16.8	0.1	0.2	0.2
1750	156	773	57	34.9	658	59	25.3	583	60	19.8	0.1	0.1	0.2
1750	Open	1113	55	27.7	955	57	20.4	850	59	16.1	0.1	0.2	0.2
2000	Open	1189	55	26.9	1018	58	19.8	905	59	15.7	0.1	0.2	0.2
						65°C - Aluminum Conductor - Compact Segmental Strand							
1000	216	668	54	37.3	574	57	27.4	511	59	21.9	0.1	0.1	0.2
1000	Open	835	53	30.9	722	56	23.1	645	58	18.4	0.1	0.1	0.2
1250	197	722	55	36.4	617	58	26.7	549	59	21.1	0.1	0.1	0.2
1250	Open	950	54	29.7	818	57	22.1	730	58	17.5	0.1	0.1	0.2
1500	174	757	56	35.7	646	59	26.1	573	60	20.5	0.1	0.1	0.2

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5 kV 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 .0220 pf & Rho 60	90	120
		°C	w/ft²		°C	w/ft²		°C	w/ft²				
100% LF													
65°C - Aluminum Conductor - Compact Round Strand													
4/0	525	294	52	36.5	253	56	27.1	226	58	21.7	0.1	0.1	0.1
250	495	321	53	36.0	276	56	26.7	246	58	21.1	0.1	0.1	0.1
350	414	380	54	35.0	325	57	25.6	288	59	20.2	0.1	0.1	0.1
500	365	450	56	34.1	382	58	24.6	338	60	19.5	0.1	0.1	0.1
750	294	533	57	32.9	450	60	23.4	396	61	18.1	0.1	0.1	0.2
1000	246	590	59	31.8	495	60	22.4	435	62	17.4	0.1	0.1	0.2
1000	Open	726	57	26.5	615	59	19.1	543	60	14.8	0.1	0.1	0.2
1250	211	618	58	28.6	522	60	20.4	459	61	15.8	0.1	0.1	0.2
1250	Open	804	56	23.3	683	58	16.8	603	60	13.3	0.1	0.1	0.2
65°C - Aluminum Conductor - Concentric Strand													
1500	174	649	59	26.8	545	61	19.0	479	62	14.7	0.1	0.1	0.2
1500	Open	892	57	21.6	754	59	15.5	665	60	12.1	0.1	0.2	0.2
1750	156	668	59	26.2	560	61	18.4	492	62	14.2	0.1	0.1	0.2
1750	Open	963	57	20.7	812	60	14.7	716	61	11.4	0.1	0.2	0.2
2000	Open	1026	58	20.1	864	60	14.2	760	61	11.0	0.1	0.2	0.2
65°C - Aluminum Conductor - Compact Segmental Strand													
1000	216	584	58	28.5	493	60	20.4	434	61	15.6	0.1	0.1	0.2
1000	Open	730	56	23.6	620	58	17.1	548	60	13.3	0.1	0.1	0.2
1250	197	628	58	27.7	529	60	19.7	465	62	15.1	0.1	0.1	0.2
1250	Open	826	56	22.5	700	59	16.1	618	60	12.5	0.1	0.1	0.2
1500	174	656	59	27.0	551	61	19.0	484	62	14.7	0.1	0.1	0.2

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1814

5 kV 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 .0220 pf & Rho 60	90	120
						75% LF							
						50°C - Aluminum Conductor - Compact Round Strand							
4/0	525	265	40	28.7	233	43	22.1	210	44	18.2	0.1	0.1	0.1
250	495	290	41	28.6	254	43	21.9	229	44	17.8	0.1	0.1	0.1
350	414	345	42	28.2	300	44	21.5	269	45	17.1	0.1	0.1	0.1
500	365	410	43	28.3	354	45	21.0	316	46	16.7	0.1	0.1	0.1
750	294	483	44	27.4	415	45	20.2	370	46	15.9	0.1	0.1	0.1
1000	246	533	44	26.5	455	46	19.3	403	47	15.3	0.1	0.1	0.2
1000	Open	675	43	21.7	580	45	16.2	517	46	12.9	0.1	0.1	0.2
1250	211	554	44	23.8	474	45	17.5	422	46	13.7	0.1	0.1	0.2
1250	Open	746	43	19.1	643	44	14.3	575	46	11.4	0.1	0.1	0.2
						50°C - Aluminum Conductor - Concentric Strand							
1500	174	583	45	22.5	497	46	16.4	440	47	12.8	0.1	0.1	0.2
1500	Open	832	43	17.9	714	45	13.2	636	46	10.4	0.1	0.2	0.2
1750	156	600	45	22.1	510	46	16.0	452	47	12.5	0.1	0.1	0.2
1750	Open	899	44	17.4	771	45	12.8	686	46	10.2	0.1	0.2	0.2
2000	Open	960	44	16.9	821	45	12.4	730	46	9.7	0.1	0.2	0.2
						50°C - Aluminum Conductor - Compact Segmental Strand							
1000	216	525	44	23.6	450	45	17.4	401	46	13.7	0.1	0.1	0.2
1000	Open	677	42	19.3	585	44	14.4	523	46	11.6	0.1	0.1	0.2
1250	197	565	44	23.1	482	46	16.9	428	47	13.3	0.1	0.1	0.2
1250	Open	770	43	18.5	663	45	13.7	591	46	10.9	0.1	0.1	0.2
1500	174	590	45	22.7	503	46	16.4	446	47	12.8	0.1	0.1	0.2

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5 kV 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 .0220 pf & Rho 60	90	120
						100% LF							
						50°C - Aluminum Conductor - Compact Round Strand							
4/0	525	237	42	22.9	204	44	17.1	182	45	13.6	0.1	0.1	0.1
250	495	259	43	22.6	222	45	16.7	198	46	13.4	0.1	0.1	0.1
350	414	305	44	22.2	260	45	16.1	231	46	12.8	0.1	0.1	0.1
500	365	359	44	21.6	305	46	15.5	270	47	12.2	0.1	0.1	0.1
750	294	423	45	21.0	356	47	14.9	314	47	11.4	0.1	0.1	0.1
1000	246	464	46	20.1	390	47	14.3	342	48	11.0	0.1	0.1	0.2
1000	Open	588	45	16.7	498	46	11.9	439	47	9.3	0.1	0.1	0.2
1250	211	483	46	18.1	407	47	12.8	359	48	9.9	0.1	0.1	0.2
1250	Open	650	44	14.5	552	46	10.5	488	47	8.2	0.1	0.1	0.2
						50°C - Aluminum Conductor - Concentric Strand							
1500	174	505	46	16.9	424	47	11.9	372	48	9.3	0.1	0.1	0.2
1500	Open	721	45	13.4	609	46	9.7	537	47	7.4	0.1	0.2	0.2
1750	156	519	46	16.5	434	47	11.6	381	48	9.0	0.1	0.1	0.2
1750	Open	777	45	13.0	656	47	9.3	577	47	7.2	0.1	0.2	0.2
2000	Open	827	45	12.6	697	47	8.9	613	47	6.9	0.1	0.2	0.2
						50°C - Aluminum Conductor - Compact Segmental Strand							
1000	216	459	45	18.0	387	47	12.9	341	48	9.9	0.1	0.1	0.2
1000	Open	592	44	14.8	503	46	10.7	444	47	8.4	0.1	0.1	0.2
1250	197	491	46	17.5	413	47	12.3	363	48	9.6	0.1	0.1	0.2
1250	Open	669	45	14.1	567	46	10.2	501	47	8.0	0.1	0.1	0.2
1500	174	511	46	16.9	429	47	11.9	377	48	9.3	0.1	0.1	0.2

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1816

5 kV 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 Amps	60 Rho Interface Temp °C	60 Rho Interface Flux w/ft²	90 Rho Interface Amps	90 Rho Interface Temp °C	90 Rho Interface Flux w/ft²	120 Rho Interface Amps	120 Rho Interface Temp °C	120 Rho Interface Flux w/ft²	delta Td for .0220 pf & Rho 60	90	120
						75% LF							
						95°C - Aluminum Conductor - Compact Round Strand							
4/0	525	392	70	69.8	342	76	53.1	307	80	42.7	0.1	0.1	0.1
250	495	429	71	69.0	373	77	51.9	334	81	41.9	0.1	0.1	0.1
350	414	510	74	66.9	441	79	49.8	394	82	39.7	0.1	0.1	0.1
500	365	607	76	64.8	522	81	47.7	464	84	37.7	0.1	0.1	0.2
750	294	727	79	61.9	620	83	45.2	549	86	35.3	0.1	0.1	0.2
1000	246	810	81	59.4	685	85	42.5	606	87	33.4	0.1	0.2	0.2
1000	Open	979	78	53.0	834	83	38.4	740	85	30.3	0.1	0.2	0.2
1250	211	854	80	53.2	724	84	38.3	641	87	30.1	0.1	0.2	0.2
1250	Open	1084	77	46.3	927	82	33.9	824	85	26.7	0.1	0.2	0.2
						95°C - Aluminum Conductor - Concentric Strand							
1500	174	902	82	50.1	763	86	35.9	676	88	28.1	0.1	0.2	0.2
1500	Open	1208	79	43.0	1027	83	31.3	911	86	24.6	0.1	0.2	0.2
1750	156	934	83	49.0	789	86	34.9	696	88	27.2	0.1	0.2	0.3
1750	Open	1307	79	41.6	1110	84	30.0	983	86	23.5	0.1	0.2	0.3
2000	Open	1394	80	40.2	1183	84	29.0	1048	87	22.8	0.1	0.2	0.3
						95°C - Aluminum Conductor - Compact Segmental Strand							
1000	216	801	79	53.2	680	84	38.4	603	86	30.0	0.1	0.2	0.2
1000	Open	981	77	46.7	839	82	34.3	746	84	27.0	0.1	0.2	0.2
1250	197	868	81	51.8	735	85	37.0	650	87	29.1	0.1	0.2	0.2
1250	Open	1113	78	45.0	949	82	32.6	842	85	25.7	0.1	0.2	0.2
1500	174	912	82	50.3	771	86	35.9	683	88	28.3	0.1	0.2	0.2

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5 kV 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 .0220 pf & Rho 60	90	120
						100% LF							
						95°C - Aluminum Conductor - Compact Round Strand							
4/0	525	347	76	54.7	298	81	40.3	263	84	31.4	0.1	0.1	0.1
250	495	377	77	53.4	322	82	38.9	286	85	30.8	0.1	0.1	0.1
350	414	446	79	51.1	380	83	37.0	335	86	28.9	0.1	0.1	0.1
500	365	527	81	48.7	446	85	35.0	393	87	27.1	0.1	0.1	0.2
750	294	624	83	45.7	524	87	32.1	461	88	25.0	0.1	0.1	0.2
1000	246	691	85	43.4	580	88	30.6	508	89	23.4	0.1	0.2	0.2
1000	Open	838	83	38.9	705	86	27.5	621	88	21.2	0.1	0.2	0.2
1250	211	729	84	38.7	611	87	27.3	537	89	21.0	0.1	0.2	0.2
1250	Open	929	82	34.1	784	86	24.2	690	88	18.7	0.1	0.2	0.2
						95°C - Aluminum Conductor - Concentric Strand							
1500	174	767	85	36.1	641	88	25.3	561	90	19.4	0.1	0.2	0.2
1500	Open	1027	83	31.3	864	87	22.2	760	89	17.1	0.1	0.2	0.2
1750	156	792	86	35.1	661	89	24.4	579	90	18.8	0.1	0.2	0.3
1750	Open	1110	84	30.0	931	87	21.1	818	89	16.3	0.1	0.2	0.3
2000	Open	1183	84	29.0	991	87	20.4	870	89	15.7	0.1	0.2	0.3
						95°C - Aluminum Conductor - Compact Segmental Strand							
1000	216	684	84	38.8	575	87	27.4	505	89	21.2	0.1	0.2	0.2
1000	Open	842	81	34.5	710	85	24.7	626	88	19.1	0.1	0.2	0.2
1250	197	739	85	37.4	618	88	26.3	543	89	20.3	0.1	0.2	0.2
1250	Open	950	82	32.6	800	86	23.3	704	88	18.1	0.1	0.2	0.2
1500	174	775	85	36.3	648	88	25.3	567	90	19.5	0.1	0.2	0.2

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1818

5 kV 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 °C	Flux w/ft²	---- 90 Rho--- Interface Temp Amps °C	Flux w/ft²	----120 Rho--- Interface Temp Amps °C	Flux w/ft²	delta Td for .0220 pf & Rho 60	90	120
				75% LF						
				85°C - Aluminum Conductor - Compact Round Strand						
4/0	525	367 64	60.1	320 69	45.4	288 72	36.8	0.1	0.1	0.1
250	495	402 65	59.3	349 70	44.9	313 73	36.0	0.1	0.1	0.1
350	414	477 67	57.5	412 71	42.7	368 74	34.3	0.1	0.1	0.1
500	365	567 69	55.7	486 73	41.1	433 76	32.5	0.1	0.1	0.2
750	294	675 71	53.4	576 75	38.8	509 77	30.3	0.1	0.1	0.2
1000	246	750 73	51.3	634 76	36.8	560 78	28.6	0.1	0.2	0.2
1000	Open	920 71	45.4	784 75	32.9	695 77	26.0	0.1	0.2	0.2
1250	211	788 72	46.1	668 76	33.0	591 78	25.9	0.1	0.2	0.2
1250	Open	1019 70	39.8	871 74	29.0	773 76	22.9	0.1	0.2	0.2
				85°C - Aluminum Conductor - Concentric Strand						
1500	174	830 74	43.2	702 77	30.9	620 79	24.2	0.1	0.2	0.2
1500	Open	1134 71	36.9	964 75	26.8	855 77	21.0	0.1	0.2	0.2
1750	156	858 75	42.1	724 78	30.0	639 79	23.3	0.1	0.2	0.3
1750	Open	1227 72	35.6	1041 75	25.6	923 77	20.2	0.1	0.2	0.3
2000	Open	1308 72	34.5	1110 76	24.8	983 78	19.6	0.1	0.2	0.3
				85°C - Aluminum Conductor - Compact Segmental Strand						
1000	216	741 72	45.9	629 75	33.0	557 77	25.9	0.1	0.2	0.2
1000	Open	922 69	40.1	789 73	29.4	701 76	23.1	0.1	0.2	0.2
1250	197	799 73	44.4	678 76	31.8	599 78	24.9	0.1	0.2	0.2
1250	Open	1046 70	38.4	892 74	28.1	791 77	22.1	0.1	0.2	0.2
1500	174	840 74	43.4	710 77	31.1	626 79	24.2	0.1	0.2	0.2

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5 kV 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 .0220 pf & Rho 60	90	120
						100% LF							
						85°C - Aluminum Conductor - Compact Round Strand							
4/0	525	324	69	46.5	278	73	34.1	247	76	27.1	0.1	0.1	0.1
250	495	353	69	46.0	302	74	33.4	268	76	26.3	0.1	0.1	0.1
350	414	417	71	43.7	355	75	31.9	313	77	24.9	0.1	0.1	0.1
500	365	492	73	42.0	416	76	30.1	366	78	23.4	0.1	0.1	0.2
750	294	579	75	39.3	487	78	27.9	428	79	21.5	0.1	0.1	0.2
1000	246	639	76	37.2	535	79	26.3	470	80	20.3	0.1	0.2	0.2
1000	Open	788	74	33.2	663	78	23.6	583	79	18.1	0.1	0.2	0.2
1250	211	672	76	33.4	564	78	23.6	495	80	18.1	0.1	0.2	0.2
1250	Open	873	74	29.2	736	77	20.8	649	79	16.2	0.1	0.2	0.2
						85°C - Aluminum Conductor - Concentric Strand							
1500	174	705	77	31.3	589	79	21.8	516	81	16.8	0.1	0.2	0.2
1500	Open	965	75	26.8	811	78	19.0	713	79	14.7	0.1	0.2	0.2
1750	156	727	78	30.4	606	80	21.1	531	81	16.1	0.1	0.2	0.3
1750	Open	1042	75	25.6	874	78	18.1	768	80	14.0	0.1	0.2	0.3
2000	Open	1110	76	24.8	930	79	17.4	816	80	13.4	0.1	0.2	0.3
						85°C - Aluminum Conductor - Compact Segmental Strand							
1000	216	633	75	33.4	531	78	23.6	467	80	18.2	0.1	0.2	0.2
1000	Open	791	73	29.6	668	77	21.0	588	79	16.3	0.1	0.2	0.2
1250	197	681	76	32.2	570	79	22.7	500	80	17.5	0.1	0.2	0.2
1250	Open	893	74	28.1	752	77	19.9	662	79	15.5	0.1	0.2	0.2
1500	174	713	77	31.3	596	79	21.8	522	81	16.8	0.1	0.2	0.2

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1820

5 kV 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 .0220 pf & Rho 60	90	120
						75% LF							
						65°C - Aluminum Conductor - Compact Round Strand							
4/0	525	308	51	40.3	268	54	30.6	241	56	24.4	0.1	0.1	0.1
250	495	336	52	39.7	292	55	30.0	261	57	24.1	0.1	0.1	0.1
350	414	397	53	38.7	342	56	28.9	306	58	22.9	0.1	0.1	0.1
500	365	469	54	37.7	403	57	27.7	359	59	21.9	0.1	0.1	0.2
750	294	554	56	36.1	472	59	26.3	419	60	20.7	0.1	0.1	0.2
1000	246	610	57	34.6	515	59	24.8	455	61	19.3	0.1	0.2	0.2
1000	Open	775	55	30.3	660	58	22.0	585	60	17.2	0.1	0.2	0.2
1250	211	635	57	30.9	539	59	22.3	477	60	17.5	0.1	0.2	0.2
1250	Open	857	55	26.5	732	57	19.4	650	59	15.4	0.1	0.2	0.2
						65°C - Aluminum Conductor - Concentric Strand							
1500	174	667	58	29.2	564	60	20.8	497	61	16.2	0.1	0.2	0.2
1500	Open	953	56	24.6	810	58	17.9	719	60	14.0	0.1	0.2	0.2
1750	156	687	58	28.6	579	60	20.4	511	61	15.8	0.1	0.2	0.3
1750	Open	1030	56	23.7	874	59	17.0	774	60	13.5	0.1	0.2	0.3
2000	Open	1096	57	22.9	930	59	16.6	824	60	13.1	0.1	0.2	0.3
						65°C - Aluminum Conductor - Compact Segmental Strand							
1000	216	602	56	31.1	511	59	22.3	452	60	17.6	0.1	0.2	0.2
1000	Open	777	55	26.8	665	57	19.5	591	59	15.4	0.1	0.2	0.2
1250	197	646	57	30.1	547	59	21.5	483	61	16.9	0.1	0.2	0.2
1250	Open	882	55	25.7	752	58	18.7	667	59	14.7	0.1	0.2	0.2
1500	174	675	58	29.2	570	60	21.0	503	61	16.4	0.1	0.2	0.2

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5 kV 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	°C	w/ft² Flux	---- 90 Rho--- Interface Temp Amps	°C	w/ft² Flux	----120 Rho--- Interface Temp Amps	°C	w/ft² Flux	delta Td for .0220 pf & Rho 60	90	120
					100% LF								
					65°C - Aluminum Conductor - Compact Round Strand								
4/0	525	271	54	31.4	232	57	22.9	207	59	18.2	0.1	0.1	0.1
250	495	296	55	30.8	252	58	22.3	224	59	17.8	0.1	0.1	0.1
350	414	347	56	29.6	295	58	21.2	260	60	16.8	0.1	0.1	0.1
500	365	407	57	28.3	344	59	20.4	303	61	15.8	0.1	0.1	0.2
750	294	475	58	26.6	399	60	18.9	350	61	14.6	0.1	0.1	0.2
1000	246	520	59	25.3	435	61	17.7	381	62	13.6	0.1	0.2	0.2
1000	Open	663	58	22.2	558	60	15.8	491	61	12.2	0.1	0.2	0.2
1250	211	543	59	22.5	455	61	16.0	399	62	12.2	0.1	0.2	0.2
1250	Open	734	57	19.4	619	60	13.9	545	61	10.7	0.1	0.2	0.2
					65°C - Aluminum Conductor - Concentric Strand								
1500	174	567	60	21.0	473	61	14.7	414	62	11.4	0.1	0.2	0.2
1500	Open	812	58	17.9	682	60	12.7	599	61	9.7	0.1	0.2	0.2
1750	156	582	60	20.5	485	62	14.2	425	62	10.9	0.1	0.2	0.3
1750	Open	875	59	17.2	734	61	12.1	644	62	9.3	0.1	0.2	0.3
2000	Open	930	59	16.6	779	61	11.7	684	62	9.0	0.1	0.2	0.3
					65°C - Aluminum Conductor - Compact Segmental Strand								
1000	216	514	59	22.5	431	61	15.9	379	62	12.2	0.1	0.2	0.2
1000	Open	667	57	19.7	563	60	14.1	496	61	10.9	0.1	0.2	0.2
1250	197	551	59	21.9	460	61	15.3	404	62	11.7	0.1	0.2	0.2
1250	Open	753	58	18.7	634	60	13.3	558	61	10.4	0.1	0.2	0.2
1500	174	573	60	21.2	478	61	14.7	419	62	11.4	0.1	0.2	0.2

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1822

5 kV 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 .0220 pf & Rho 60	90	120
						75% LF							
						50°C - Aluminum Conductor - Compact Round Strand							
4/0	525	248	41	25.2	216	43	19.0	194	45	15.5	0.1	0.1	0.1
250	495	270	42	24.8	235	44	18.9	210	45	15.2	0.1	0.1	0.1
350	414	318	43	24.2	274	45	18.2	245	46	14.5	0.1	0.1	0.1
500	365	374	44	23.7	321	45	17.6	285	46	13.7	0.1	0.1	0.2
750	294	436	45	22.6	371	46	16.5	329	47	13.0	0.1	0.1	0.2
1000	246	479	45	22.0	404	47	15.5	357	47	12.2	0.1	0.2	0.2
1000	Open	627	44	18.9	534	46	13.6	473	47	10.7	0.1	0.2	0.2
1250	211	497	45	19.6	421	46	14.1	372	47	10.9	0.1	0.2	0.2
1250	Open	693	44	16.6	592	45	12.0	526	46	9.5	0.1	0.2	0.2
						50°C - Aluminum Conductor - Concentric Strand							
1500	174	519	46	18.4	438	47	13.2	387	48	10.2	0.1	0.2	0.2
1500	Open	768	44	15.3	655	46	11.2	580	47	8.7	0.1	0.2	0.2
1750	156	533	46	18.1	449	47	12.8	395	48	10.0	0.1	0.2	0.3
1750	Open	829	45	14.7	706	46	10.7	625	47	8.4	0.1	0.2	0.3
2000	Open	884	45	14.4	750	46	10.4	664	47	8.0	0.1	0.2	0.3
						50°C - Aluminum Conductor - Compact Segmental Strand							
1000	216	472	45	19.5	401	46	14.1	354	47	10.9	0.1	0.2	0.2
1000	Open	628	44	16.5	539	45	12.2	479	46	9.6	0.1	0.2	0.2
1250	197	505	45	18.9	427	47	13.5	377	47	10.5	0.1	0.2	0.2
1250	Open	715	44	15.9	609	46	11.5	540	47	9.2	0.1	0.2	0.2
1500	174	525	46	18.4	444	47	13.2	391	48	10.2	0.1	0.2	0.2

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5 kV 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 °C	Flux w/ft²		---- 90 Rho--- Interface Temp Amps °C	Flux w/ft²		----120 Rho--- Interface Temp Amps °C	Flux w/ft²		delta Td for .0220 pf & Rho 60	90	120
					100% LF								
					50°C - Aluminum Conductor - Compact Round Strand								
4/0	525	219	43	19.8	187	45	14.3	166	46	11.2	0.1	0.1	0.1
250	495	238	44	19.3	203	45	14.1	180	46	11.1	0.1	0.1	0.1
350	414	278	44	18.5	236	46	13.4	208	47	10.4	0.1	0.1	0.1
500	365	324	45	17.9	273	47	12.8	241	47	9.7	0.1	0.1	0.2
750	294	375	46	16.7	315	47	12.0	276	48	9.0	0.1	0.1	0.2
1000	246	408	47	16.0	341	48	11.2	299	48	8.6	0.1	0.2	0.2
1000	Open	537	46	13.8	452	47	9.8	397	48	7.6	0.1	0.2	0.2
1250	211	425	46	14.3	355	47	10.1	311	48	7.8	0.1	0.2	0.2
1250	Open	594	45	12.2	501	47	8.6	441	47	6.7	0.1	0.2	0.2
					50°C - Aluminum Conductor - Concentric Strand								
1500	174	441	47	13.4	368	48	9.3	322	48	7.1	0.1	0.2	0.2
1500	Open	656	46	11.2	551	47	7.8	484	48	6.1	0.1	0.2	0.2
1750	156	451	47	13.0	376	48	9.0	329	48	6.8	0.1	0.2	0.3
1750	Open	706	46	10.7	592	47	7.5	520	48	5.8	0.1	0.2	0.3
2000	Open	751	46	10.4	628	47	7.2	551	48	5.7	0.1	0.2	0.3
					50°C - Aluminum Conductor - Compact Segmental Strand								
1000	216	404	46	14.4	338	47	10.1	297	48	7.7	0.1	0.2	0.2
1000	Open	541	45	12.2	456	47	8.8	402	47	6.9	0.1	0.2	0.2
1250	197	430	47	13.7	359	48	9.8	315	48	7.4	0.1	0.2	0.2
1250	Open	611	46	11.7	514	47	8.4	452	48	6.4	0.1	0.2	0.2
1500	174	446	47	13.4	372	48	9.3	326	48	7.1	0.1	0.2	0.2

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1824

5 kV 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 .0220 pf No Sun 0 Ft/s	delta Td for .0220 pf No Sun 2 Ft/s
95°C - Aluminum Conductor - Compact Round Strand							
4/0	525	204	212	156	174	0.2	0.1
250	495	225	234	172	192	0.2	0.2
350	414	283	293	214	238	0.2	0.2
500	365	348	361	263	292	0.2	0.2
750	294	439	456	332	370	0.2	0.2
1000	246	531	550	399	441	0.2	0.2

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5 kV 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 .0220 pf No Sun 0 Ft/s	delta Td for .0220 pf No Sun 2 Ft/s
95°C - Aluminum Conductor - Compact Round Strand							
4/0	525	247	301	205	269	0.1	0.1
250	495	275	333	228	297	0.1	0.1
350	414	341	409	282	363	0.1	0.1
500	365	427	508	351	449	0.1	0.1
750	294	552	652	451	572	0.1	0.1
1000	246	661	776	537	676	0.1	0.1

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1826

5 kV 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 .0220 pf No Sun 0 Ft/s	delta Td for .0220 pf No Sun 2 Ft/s
		95°C - Aluminum Conductor - Compact Round Strand					
4/0	525	201	221	175	200	0.2	0.1
250	495	221	243	193	221	0.2	0.1
350	414	285	308	248	277	0.2	0.1
500	365	347	377	302	340	0.2	0.2
750	294	432	471	376	429	0.2	0.2
1000	246	527	569	459	515	0.2	0.2

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