115 to 138 kV Shielded Single Conductor Unfilled X L P E Power Cable

in Underground Duct Bank - 1 Circuit - Three Cables - 12 in Spacing

25°C Earth Ambient

Condr Size	Shield 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 .0010 pf & Rho 60	90	120
		90°C - Copper Conductor - Concentric Strand								
750	69	815	762	769	703	729	655	0.5	0.6	0.7
750	103	815	762	769	703	729	655	0.5	0.6	0.7
750	138	684	633	639	577	601	533	0.5	0.6	0.7
750	207	716	664	670	607	632	562	0.5	0.6	0.7
750	Open	814	762	768	702	728	654	0.5	0.6	0.7
1000	69	692	637	641	575	600	528	0.5	0.6	0.8
1000	103	733	677	681	613	638	563	0.5	0.6	0.8
1000	138	768	708	715	642	670	591	0.5	0.6	0.8
1000	207	812	750	757	682	712	629	0.5	0.7	0.8
1000	Open	952	887	895	815	847	757	0.5	0.7	0.8
1250	69	741	680	685	612	639	561	0.5	0.7	0.8
1250	103	792	728	733	657	685	602	0.5	0.7	0.8
1250	138	834	766	773	692	724	635	0.5	0.7	0.8
1250	207	888	817	826	741	774	682	0.6	0.7	0.8
1250	Open	1068	993	1002	909	946	843	0.6	0.7	0.8
1500	Open	1168	1083	1093	990	1031	916	0.6	0.7	0.9
1750	Open	1254	1161	1172	1059	1104	979	0.6	0.7	0.9
2000	Open	1332	1231	1243	1121	1169	1034	0.6	0.8	0.9
2250	Open	1396	1287	1300	1169	1221	1079	0.6	0.8	0.9
2500	Open	1456	1341	1354	1217	1271	1121	0.7	0.8	1.0

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115 to 138 kV Shielded Single Conductor Unfilled X L P E Power Cable in Underground Duct Bank - 1 Circuit - Three Cables - 12 in Spacing

25°C Earth Ambient

Condr Size	Shield 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
		Total Watts/ft					
90°C - Copper Conductor - Concentric Strand							
750	69	37.4	32.7	33.3	27.9	30.0	24.2
750	103	37.4	32.7	33.3	27.9	30.0	24.2
750	138	43.9	37.6	38.3	31.3	33.9	26.8
750	207	42.2	36.4	37.0	30.4	33.0	26.1
750	Open	37.4	32.8	33.3	27.9	30.0	24.2
1000	69	48.9	41.5	42.0	33.9	36.9	28.6
1000	103	47.7	40.7	41.2	33.5	36.2	28.3
1000	138	46.7	39.8	40.5	32.8	35.6	27.8
1000	207	45.0	38.5	39.2	31.9	34.7	27.1
1000	Open	39.4	34.2	34.9	29.0	31.3	25.0
1250	69	51.0	43.0	43.6	34.9	38.0	29.4
1250	103	50.0	42.3	42.9	34.5	37.5	29.0
1250	138	48.9	41.3	42.1	33.8	37.0	28.5
1250	207	47.1	39.9	40.8	32.9	35.9	27.9
1250	Open	40.9	35.4	36.1	29.8	32.2	25.6
1500	Open	42.3	36.4	37.1	30.5	33.0	26.1
1750	Open	43.4	37.3	38.0	31.1	33.7	26.6
2000	Open	44.5	38.1	38.8	31.6	34.4	27.0
2250	Open	45.4	38.7	39.5	32.0	34.9	27.3
2500	Open	46.3	39.3	40.1	32.5	35.4	27.6

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115 to 138 kV Shielded Single Conductor Unfilled X L P E Power Cable

in Underground Duct Bank - 1 Circuit - Three Cables - 12 in Spacing

25°C Earth Ambient

Condr Size	Sheath Res	OD	Duct ID	Wd	Rac	Qs	Ri	Rj	Rsd	Rd	Re @ 90 Rho & loss 75%	Re @ 90 Rho & factor 100%
					90°C - Copper Conductor - Concentric Strand							
750	69	3.218	5.05	0.10	18.60	1.000	1.93	0.29	1.29	0.24	2.11	3.30
750	103	3.218	5.05	0.10	18.60	1.000	1.93	0.29	1.29	0.24	2.11	3.30
750	138	3.218	5.05	0.10	18.60	1.685	1.93	0.29	1.25	0.24	2.11	3.30
750	207	3.218	5.05	0.10	18.60	1.482	1.93	0.29	1.26	0.24	2.11	3.30
750	Open	3.218	5.05	0.10	18.60	1.003	1.93	0.29	1.29	0.24	2.11	3.30
1000	69	3.407	5.05	0.11	14.30	2.482	1.76	0.27	1.16	0.24	2.03	3.16
1000	103	3.407	5.05	0.11	14.30	2.141	1.76	0.27	1.17	0.24	2.03	3.30
1000	138	3.407	5.05	0.11	14.30	1.898	1.76	0.27	1.18	0.24	2.03	3.30
1000	207	3.407	5.05	0.11	14.30	1.600	1.76	0.27	1.18	0.24	2.11	3.30
1000	Open	3.407	5.05	0.11	14.30	1.004	1.76	0.27	1.22	0.24	2.11	3.30
1250	69	3.540	5.05	0.12	11.79	2.745	1.64	0.26	1.11	0.24	2.03	3.16
1250	103	3.540	5.05	0.12	11.79	2.337	1.64	0.26	1.12	0.24	2.03	3.16
1250	138	3.540	5.05	0.12	11.79	2.050	1.64	0.26	1.13	0.24	2.03	3.30
1250	207	3.540	5.05	0.12	11.79	1.701	1.64	0.26	1.13	0.24	2.11	3.30
1250	Open	3.540	5.05	0.12	11.79	1.006	1.64	0.26	1.17	0.24	2.11	3.30
1500	Open	3.660	5.05	0.13	10.16	1.007	1.54	0.25	1.13	0.24	2.11	3.30
1750	Open	3.770	5.05	0.13	9.03	1.009	1.46	0.24	1.09	0.24	2.11	3.30
2000	Open	3.873	5.05	0.14	8.18	1.010	1.39	0.24	1.06	0.24	2.11	3.30
2250	Open	3.968	5.05	0.15	7.60	1.016	1.34	0.23	1.04	0.24	2.09	3.30
2500	Open	4.059	5.05	0.15	7.10	1.018	1.29	0.22	1.01	0.24	2.09	3.30

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115 to 138 kV Shielded Single Conductor Unfilled X L P E Power Cable

in Underground Duct Bank - 2 Circuits - Six Cables - 12 in Spacing

25°C Earth Ambient

Condr Size	Shield 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 .0010 pf & Rho 60	90	120
		90°C - Copper Conductor - Concentric Strand								
750	69	572	507	512	443	466	399	0.7	0.9	1.1
750	103	602	534	539	468	493	422	0.7	0.9	1.1
750	138	624	556	561	488	513	440	0.7	0.9	1.1
750	207	654	584	589	513	539	463	0.7	0.9	1.1
750	Open	736	663	668	586	616	530	0.7	0.9	1.1
1000	69	632	558	562	485	511	434	0.7	1.0	1.2
1000	103	670	593	598	517	544	464	0.7	1.0	1.2
1000	138	701	622	626	542	570	487	0.7	1.0	1.2
1000	207	740	657	663	575	605	518	0.7	1.0	1.2
1000	Open	856	768	774	676	711	610	0.8	1.0	1.2
1250	69	677	595	600	516	543	461	0.8	1.0	1.3
1250	103	724	638	643	554	583	496	0.8	1.0	1.3
1250	138	760	672	677	584	615	524	0.8	1.0	1.3
1250	207	808	717	721	624	658	561	0.8	1.0	1.3
1250	Open	956	856	863	751	791	679	0.8	1.0	1.3
1500	Open	1042	930	937	815	858	734	0.8	1.1	1.4
1750	Open	1116	994	1002	869	915	782	0.9	1.1	1.4
2000	Open	1182	1050	1059	918	966	825	0.9	1.2	1.5
2250	Open	1236	1095	1105	956	1006	858	0.9	1.2	1.5
2500	Open	1287	1139	1148	993	1045	889	0.9	1.3	1.6

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115 to 138 kV Shielded Single Conductor Unfilled X L P E Power Cable

in Underground Duct Bank - 2 Circuits - Six Cables - 12 in Spacing

25°C Earth Ambient

Condr Size	Shield 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
		Total Watts/ft					
90°C - Copper Conductor - Concentric Strand							
750	69	71.8	56.6	57.7	43.3	47.9	35.3
750	103	70.2	55.4	56.4	42.7	47.3	34.8
750	138	68.6	54.6	55.6	42.2	46.6	34.4
750	207	67.0	53.5	54.4	41.4	45.7	33.9
750	Open	61.3	49.9	50.6	39.1	43.1	32.1
1000	69	75.7	59.1	60.0	44.8	49.7	36.0
1000	103	73.7	57.9	58.9	44.2	48.8	35.7
1000	138	72.4	57.1	57.8	43.5	48.1	35.3
1000	207	70.3	55.6	56.6	42.7	47.2	34.8
1000	Open	63.8	51.5	52.3	40.1	44.2	32.7
1250	69	78.3	60.6	61.6	45.8	50.6	36.7
1250	103	76.6	59.6	60.5	45.1	49.9	36.3
1250	138	74.9	58.7	59.6	44.5	49.3	36.0
1250	207	72.8	57.5	58.1	43.7	48.5	35.5
1250	Open	65.8	52.9	53.8	40.9	45.3	33.5
1500	Open	67.5	53.9	54.7	41.6	46.0	33.9
1750	Open	68.9	54.8	55.7	42.1	46.6	34.2
2000	Open	70.3	55.6	56.6	42.7	47.2	34.7
2250	Open	71.5	56.3	57.3	43.1	47.7	34.9
2500	Open	72.6	57.1	57.9	43.6	48.2	35.1

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115 to 138 kV Shielded Single Conductor Unfilled X L P E Power Cable

in Underground Duct Bank - 2 Circuits - Six Cables - 12 in Spacing

25°C Earth Ambient

Condr Size	Sheath Res	OD	Duct ID	Wd	Rac	Qs	Ri	Rj	Rsd	Rd	Re @ 90 loss 75%	Rho & factor 100%
90°C - Copper Conductor - Concentric Strand												
750	69	3.218	5.05	0.10	18.60	1.961	1.93	0.29	1.20	0.24	4.00	6.34
750	103	3.218	5.05	0.10	18.60	1.730	1.93	0.29	1.21	0.24	4.00	6.34
750	138	3.218	5.05	0.10	18.60	1.572	1.93	0.29	1.21	0.24	4.00	6.34
750	207	3.218	5.05	0.10	18.60	1.395	1.93	0.29	1.22	0.24	4.00	6.34
750	Open	3.218	5.05	0.10	18.60	1.003	1.93	0.29	1.24	0.24	4.00	6.34
1000	69	3.407	5.05	0.11	14.30	2.201	1.76	0.27	1.13	0.24	4.00	6.34
1000	103	3.407	5.05	0.11	14.30	1.907	1.76	0.27	1.13	0.24	4.00	6.34
1000	138	3.407	5.05	0.11	14.30	1.710	1.76	0.27	1.14	0.24	4.00	6.34
1000	207	3.407	5.05	0.11	14.30	1.490	1.76	0.27	1.15	0.24	4.00	6.34
1000	Open	3.407	5.05	0.11	14.30	1.005	1.76	0.27	1.17	0.24	4.00	6.34
1250	69	3.540	5.05	0.12	11.79	2.407	1.64	0.26	1.08	0.24	4.00	6.34
1250	103	3.540	5.05	0.12	11.79	2.058	1.64	0.26	1.09	0.24	4.00	6.34
1250	138	3.540	5.05	0.12	11.79	1.826	1.64	0.26	1.09	0.24	4.00	6.34
1250	207	3.540	5.05	0.12	11.79	1.569	1.64	0.26	1.10	0.24	4.00	6.34
1250	Open	3.540	5.05	0.12	11.79	1.006	1.64	0.26	1.12	0.24	4.00	6.34
1500	Open	3.660	5.05	0.13	10.16	1.008	1.54	0.25	1.09	0.24	4.00	6.34
1750	Open	3.770	5.05	0.13	9.03	1.009	1.46	0.24	1.05	0.24	4.00	6.34
2000	Open	3.873	5.05	0.14	8.18	1.011	1.39	0.24	1.02	0.24	4.00	6.34
2250	Open	3.968	5.05	0.15	7.60	1.012	1.34	0.23	1.00	0.24	4.00	6.34
2500	Open	4.059	5.05	0.15	7.10	1.014	1.29	0.22	0.97	0.24	4.00	6.34

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115 to 138 kV Shielded Single Conductor Unfilled X L P E Power Cable

Direct Buried - Triplexed - Single Circuit

25°C Earth Ambient

Condr Size	Shield 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 .0010 pf & Rho 60	90	120
						75% LF							
						90°C - Copper Conductor - Concentric Strand							
750	69	826	61	36.6	738	67	29.2	674	71	24.4	0.4	0.6	0.8
750	103	843	60	35.6	755	66	28.6	691	70	24.0	0.4	0.6	0.8
750	138	853	59	35.1	765	65	28.3	700	69	23.7	0.4	0.6	0.8
750	207	863	59	34.5	775	65	27.9	711	69	23.5	0.4	0.6	0.8
1000	69	945	62	37.2	840	68	29.4	765	72	24.4	0.5	0.6	0.8
1000	103	970	61	36.0	865	67	28.7	789	71	23.9	0.5	0.6	0.8
1000	138	984	61	35.4	879	67	28.3	803	71	23.7	0.5	0.6	0.8
1000	207	1000	60	34.8	894	66	27.8	818	70	23.3	0.5	0.6	0.8
1250	69	1039	64	37.7	920	70	29.6	835	73	24.5	0.5	0.7	0.9
1250	103	1071	63	36.6	952	68	28.9	866	72	24.0	0.5	0.7	0.9
1250	138	1090	62	35.8	970	68	28.4	885	72	23.7	0.5	0.7	0.9
1250	207	1110	61	35.1	991	67	27.9	904	71	23.3	0.5	0.7	0.9
1500	69	1115	65	38.1	984	71	29.8	892	74	24.5	0.5	0.7	0.9
1500	103	1155	64	36.9	1023	69	29.0	929	73	24.0	0.5	0.7	0.9
1500	138	1178	63	36.1	1046	69	28.5	951	72	23.7	0.5	0.7	0.9
1500	207	1203	62	35.3	1070	68	28.0	976	72	23.3	0.5	0.7	0.9
1750	69	1178	66	38.4	1037	71	29.8	939	75	24.5	0.5	0.7	0.9
1750	103	1224	65	37.2	1082	70	29.0	982	74	23.9	0.5	0.7	0.9
1750	138	1252	64	36.3	1109	69	28.5	1007	73	23.6	0.5	0.7	0.9
1750	207	1281	63	35.4	1138	69	28.0	1036	72	23.2	0.5	0.7	0.9
2000	69	1233	67	38.7	1084	72	29.9	979	75	24.5	0.5	0.8	1.0
2000	103	1286	65	37.3	1134	71	29.1	1027	74	23.9	0.5	0.8	1.0
2000	138	1317	64	36.5	1164	70	28.6	1057	74	23.6	0.5	0.8	1.0
2000	207	1351	63	35.5	1197	69	28.0	1088	73	23.2	0.5	0.8	1.0
2250	69	1277	67	38.8	1120	73	29.8	1011	76	24.4	0.6	0.8	1.0
2250	103	1334	66	37.4	1175	71	29.1	1064	75	23.8	0.6	0.8	1.0
2250	138	1369	65	36.6	1208	71	28.6	1095	74	23.5	0.6	0.8	1.0
2250	207	1406	64	35.6	1245	70	28.0	1131	73	23.1	0.6	0.8	1.0
2500	69	1318	68	38.8	1154	73	29.8	1042	76	24.3	0.6	0.8	1.0
2500	103	1381	67	37.5	1214	72	29.0	1098	75	23.8	0.6	0.8	1.0
2500	138	1418	66	36.6	1250	71	28.5	1132	74	23.4	0.6	0.8	1.0
2500	207	1459	65	35.6	1290	70	27.9	1171	74	23.1	0.6	0.8	1.0

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1178

115 to 138 kV Shielded Single Conductor Unfilled X L P E Power Cable

Direct Buried - Triplexed - Single Circuit

25°C Earth Ambient

Condr Size	Shield 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 .0010 pf & Rho 60	90	120
						100% LF							
						90°C - Copper Conductor - Concentric Strand							
750	69	742	66	29.5	645	72	22.4	579	76	18.0	0.4	0.6	0.8
750	103	759	66	28.9	662	71	22.1	594	75	17.8	0.4	0.6	0.8
750	138	769	65	28.5	672	71	21.8	604	75	17.7	0.4	0.6	0.8
750	207	779	65	28.1	682	71	21.6	613	74	17.6	0.4	0.6	0.8
1000	69	842	68	29.5	729	74	22.2	652	77	17.8	0.5	0.6	0.8
1000	103	867	67	28.8	753	73	21.8	674	76	17.5	0.5	0.6	0.8
1000	138	881	67	28.5	767	72	21.5	687	76	17.4	0.5	0.6	0.8
1000	207	897	66	28.0	781	72	21.3	701	75	17.2	0.5	0.6	0.8
1250	69	920	70	29.6	794	75	22.1	708	78	17.6	0.5	0.7	0.9
1250	103	952	68	29.0	824	74	21.7	736	77	17.4	0.5	0.7	0.9
1250	138	971	68	28.5	842	73	21.5	753	77	17.2	0.5	0.7	0.9
1250	207	991	67	28.0	861	73	21.2	771	76	17.1	0.5	0.7	0.9
1500	69	983	71	29.7	845	76	22.0	752	79	17.5	0.5	0.7	0.9
1500	103	1022	69	28.9	881	75	21.6	786	78	17.2	0.5	0.7	0.9
1500	138	1045	69	28.5	903	74	21.3	806	77	17.0	0.5	0.7	0.9
1500	207	1069	68	27.9	926	73	21.0	828	77	16.9	0.5	0.7	0.9
1750	69	1034	71	29.7	887	76	21.9	788	79	17.3	0.5	0.7	0.9
1750	103	1079	70	28.9	928	75	21.5	827	78	17.0	0.5	0.7	0.9
1750	138	1106	70	28.4	953	75	21.2	850	78	16.9	0.5	0.7	0.9
1750	207	1135	69	27.9	981	74	20.9	876	77	16.7	0.5	0.7	0.9
2000	69	1079	72	29.6	923	77	21.8	819	80	17.2	0.5	0.8	1.0
2000	103	1129	71	28.8	969	76	21.3	862	79	16.9	0.5	0.8	1.0
2000	138	1159	70	28.3	998	75	21.1	888	78	16.7	0.5	0.8	1.0
2000	207	1192	69	27.8	1029	75	20.8	917	78	16.5	0.5	0.8	1.0
2250	69	1113	73	29.5	951	78	21.6	843	80	17.0	0.6	0.8	1.0
2250	103	1168	72	28.7	1001	76	21.2	889	79	16.7	0.6	0.8	1.0
2250	138	1201	71	28.2	1032	76	20.9	918	79	16.6	0.6	0.8	1.0
2250	207	1238	70	27.7	1066	75	20.6	950	78	16.4	0.6	0.8	1.0
2500	69	1146	73	29.4	977	78	21.5	865	81	16.9	0.6	0.8	1.0
2500	103	1205	72	28.6	1031	77	21.1	915	80	16.6	0.6	0.8	1.0
2500	138	1241	71	28.1	1065	76	20.8	946	79	16.4	0.6	0.8	1.0
2500	207	1281	70	27.6	1102	76	20.5	981	79	16.2	0.6	0.8	1.0

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115 to 138 kV Shielded Single Conductor Unfilled X L P E Power Cable

Direct Buried - Triplexed - Single Circuit

25°C Earth Ambient

Condr Size	Shield 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 .0010 pf & Rho 60	90	120
						75% LF							
						80°C - Copper Conductor - Concentric Strand							
750	69	768	55	31.1	685	60	24.8	625	64	20.7	0.4	0.6	0.8
750	103	784	55	30.3	702	60	24.2	642	63	20.3	0.4	0.6	0.8
750	138	794	54	29.8	711	59	23.9	651	63	20.1	0.4	0.6	0.8
750	207	804	54	29.2	721	59	23.6	661	62	19.9	0.4	0.6	0.8
1000	69	876	57	31.6	778	62	24.9	708	65	20.7	0.5	0.6	0.8
1000	103	901	56	30.7	802	61	24.4	732	64	20.3	0.5	0.6	0.8
1000	138	915	55	30.1	816	60	24.0	745	64	20.1	0.5	0.6	0.8
1000	207	929	55	29.5	831	60	23.6	760	63	19.8	0.5	0.6	0.8
1250	69	962	58	32.1	851	63	25.2	772	66	20.8	0.5	0.7	0.9
1250	103	993	57	31.1	882	62	24.5	802	65	20.3	0.5	0.7	0.9
1250	138	1012	56	30.5	900	61	24.1	820	65	20.1	0.5	0.7	0.9
1250	207	1031	56	29.8	920	61	23.7	839	64	19.8	0.5	0.7	0.9
1500	69	1031	59	32.4	909	64	25.3	824	67	20.8	0.5	0.7	0.9
1500	103	1069	58	31.4	946	63	24.6	859	66	20.3	0.5	0.7	0.9
1500	138	1092	57	30.7	968	62	24.2	881	65	20.1	0.5	0.7	0.9
1500	207	1116	56	29.9	992	61	23.7	904	65	19.7	0.5	0.7	0.9
1750	69	1088	60	32.7	957	64	25.3	866	67	20.7	0.5	0.7	0.9
1750	103	1132	59	31.5	1000	63	24.6	907	66	20.3	0.5	0.7	0.9
1750	138	1159	58	30.8	1026	63	24.3	931	66	20.0	0.5	0.7	0.9
1750	207	1187	57	30.1	1054	62	23.7	959	65	19.7	0.5	0.7	0.9
2000	69	1138	61	32.8	999	65	25.4	902	68	20.8	0.5	0.8	1.0
2000	103	1188	59	31.7	1047	64	24.7	948	67	20.3	0.5	0.8	1.0
2000	138	1218	59	30.9	1076	63	24.2	976	66	20.0	0.5	0.8	1.0
2000	207	1251	58	30.2	1108	63	23.7	1007	66	19.6	0.5	0.8	1.0
2250	69	1178	61	32.9	1032	66	25.4	931	68	20.7	0.6	0.8	1.0
2250	103	1232	60	31.8	1084	64	24.6	981	67	20.2	0.6	0.8	1.0
2250	138	1265	59	31.1	1116	64	24.2	1011	67	20.0	0.6	0.8	1.0
2250	207	1301	58	30.2	1151	63	23.7	1045	66	19.6	0.6	0.8	1.0
2500	69	1215	62	33.0	1063	66	25.3	958	69	20.6	0.6	0.8	1.0
2500	103	1274	60	31.8	1119	65	24.6	1012	68	20.2	0.6	0.8	1.0
2500	138	1310	60	31.1	1154	64	24.2	1045	67	19.9	0.6	0.8	1.0
2500	207	1350	59	30.2	1192	63	23.7	1082	66	19.5	0.6	0.8	1.0

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1180

115 to 138 kV Shielded Single Conductor Unfilled X L P E Power Cable

Direct Buried - Triplexed - Single Circuit

25°C Earth Ambient

Condr Size	Shield 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 .0010 pf & Rho 60	90	120
						100% LF							
						80°C - Copper Conductor - Concentric Strand							
750	69	689	60	25.1	599	65	19.0	537	68	15.3	0.4	0.6	0.8
750	103	705	59	24.5	615	64	18.7	552	67	15.1	0.4	0.6	0.8
750	138	715	59	24.2	624	64	18.5	561	67	15.0	0.4	0.6	0.8
750	207	725	59	23.9	634	64	18.3	571	67	14.9	0.4	0.6	0.8
1000	69	780	62	25.1	675	66	18.9	603	69	15.1	0.5	0.6	0.8
1000	103	804	61	24.5	698	66	18.5	625	68	14.8	0.5	0.6	0.8
1000	138	819	60	24.2	712	65	18.3	638	68	14.8	0.5	0.6	0.8
1000	207	834	60	23.7	726	65	18.1	651	68	14.6	0.5	0.6	0.8
1250	69	851	63	25.2	734	67	18.8	654	70	15.0	0.5	0.7	0.9
1250	103	882	62	24.5	763	66	18.4	681	69	14.8	0.5	0.7	0.9
1250	138	901	61	24.2	780	66	18.2	698	69	14.6	0.5	0.7	0.9
1250	207	920	61	23.7	799	65	17.9	715	68	14.4	0.5	0.7	0.9
1500	69	908	64	25.3	780	68	18.7	694	71	14.9	0.5	0.7	0.9
1500	103	945	63	24.6	815	67	18.3	726	70	14.6	0.5	0.7	0.9
1500	138	968	62	24.1	836	67	18.1	746	69	14.5	0.5	0.7	0.9
1500	207	992	61	23.7	859	66	17.8	767	69	14.3	0.5	0.7	0.9
1750	69	955	65	25.2	818	69	18.6	726	71	14.7	0.5	0.7	0.9
1750	103	997	63	24.5	858	68	18.2	763	70	14.5	0.5	0.7	0.9
1750	138	1023	63	24.1	882	67	18.0	786	70	14.3	0.5	0.7	0.9
1750	207	1051	62	23.6	908	67	17.7	811	69	14.2	0.5	0.7	0.9
2000	69	995	65	25.2	850	69	18.5	754	71	14.5	0.5	0.8	1.0
2000	103	1043	64	24.5	895	68	18.1	795	71	14.4	0.5	0.8	1.0
2000	138	1072	63	24.1	922	68	17.8	820	70	14.2	0.5	0.8	1.0
2000	207	1104	63	23.6	952	67	17.6	848	70	14.0	0.5	0.8	1.0
2250	69	1026	66	25.1	875	70	18.3	776	72	14.4	0.6	0.8	1.0
2250	103	1078	65	24.4	923	69	18.0	820	71	14.2	0.6	0.8	1.0
2250	138	1110	64	24.0	953	68	17.7	847	71	14.1	0.6	0.8	1.0
2250	207	1145	63	23.5	986	67	17.5	878	70	13.9	0.6	0.8	1.0
2500	69	1055	66	25.0	899	70	18.2	796	72	14.3	0.6	0.8	1.0
2500	103	1112	65	24.3	950	69	17.8	843	71	14.1	0.6	0.8	1.0
2500	138	1146	64	23.8	982	69	17.6	873	71	13.9	0.6	0.8	1.0
2500	207	1185	64	23.4	1018	68	17.3	906	70	13.8	0.6	0.8	1.0

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115 to 138 kV Shielded Single Conductor Unfilled X L P E Power Cable

Direct Buried - Triplexed - Single Circuit

25°C Earth Ambient

Condr Size	Shield 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 .0010 pf & Rho 60	90	120
						75% LF							
						65°C - Copper Conductor - Concentric Strand							
750	69	664	47	22.7	592	51	18.1	540	53	15.1	0.4	0.6	0.8
750	103	680	47	22.1	607	50	17.7	555	53	14.8	0.4	0.6	0.8
750	138	689	46	21.8	616	50	17.5	564	53	14.7	0.4	0.6	0.8
750	207	698	46	21.4	626	50	17.2	573	52	14.5	0.4	0.6	0.8
1000	69	756	48	23.2	670	52	18.2	609	54	15.1	0.5	0.6	0.8
1000	103	778	48	22.4	692	51	17.8	631	54	14.8	0.5	0.6	0.8
1000	138	791	47	22.0	706	51	17.5	644	53	14.6	0.5	0.6	0.8
1000	207	805	47	21.5	720	50	17.2	657	53	14.4	0.5	0.6	0.8
1250	69	828	49	23.5	731	53	18.4	663	55	15.2	0.5	0.7	0.9
1250	103	856	49	22.7	759	52	17.9	690	54	14.8	0.5	0.7	0.9
1250	138	873	48	22.2	776	52	17.6	706	54	14.6	0.5	0.7	0.9
1250	207	892	48	21.8	794	51	17.3	724	53	14.4	0.5	0.7	0.9
1500	69	885	50	23.8	779	53	18.5	705	56	15.2	0.5	0.7	0.9
1500	103	920	49	23.0	813	53	18.0	737	55	14.9	0.5	0.7	0.9
1500	138	941	49	22.4	833	52	17.7	757	54	14.6	0.5	0.7	0.9
1500	207	963	48	21.9	856	52	17.3	779	54	14.4	0.5	0.7	0.9
1750	69	934	51	23.9	820	54	18.5	741	56	15.2	0.5	0.7	0.9
1750	103	974	50	23.1	859	53	18.0	778	55	14.8	0.5	0.7	0.9
1750	138	998	49	22.6	882	53	17.7	800	55	14.6	0.5	0.7	0.9
1750	207	1025	49	22.0	908	52	17.3	825	54	14.4	0.5	0.7	0.9
2000	69	974	51	24.1	854	54	18.5	770	56	15.2	0.5	0.8	1.0
2000	103	1019	50	23.2	897	54	18.0	811	56	14.8	0.5	0.8	1.0
2000	138	1046	50	22.7	923	53	17.7	836	55	14.5	0.5	0.8	1.0
2000	207	1077	49	22.1	953	52	17.3	865	55	14.3	0.5	0.8	1.0
2250	69	1007	52	24.1	881	55	18.5	794	57	15.1	0.6	0.8	1.0
2250	103	1056	51	23.2	927	54	18.0	838	56	14.7	0.6	0.8	1.0
2250	138	1086	50	22.7	956	53	17.7	866	55	14.5	0.6	0.8	1.0
2250	207	1119	49	22.1	989	53	17.3	897	55	14.3	0.6	0.8	1.0
2500	69	1038	52	24.1	906	55	18.5	816	57	15.1	0.6	0.8	1.0
2500	103	1091	51	23.3	957	54	18.0	864	56	14.7	0.6	0.8	1.0
2500	138	1123	50	22.7	988	54	17.7	893	56	14.5	0.6	0.8	1.0
2500	207	1160	50	22.1	1023	53	17.3	927	55	14.2	0.6	0.8	1.0

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1182

115 to 138 kV Shielded Single Conductor Unfilled X L P E Power Cable

Direct Buried - Triplexed - Single Circuit

25°C Earth Ambient

Condr Size	Shield Res	60 Rho Interface Temp	60 Rho Amps	60 Rho Flux w/ft²	90 Rho Interface Temp	90 Rho Amps	90 Rho Flux w/ft²	120 Rho Interface Temp	120 Rho Amps	120 Rho Flux w/ft²	delta Td for .0010 pf & Rho 60	90	120
		°C			°C			°C					
100% LF													
65°C - Copper Conductor - Concentric Strand													
750	69	595	51	18.3	517	54	13.9	463	56	11.1	0.4	0.6	0.8
750	103	611	50	18.0	532	54	13.7	477	56	11.0	0.4	0.6	0.8
750	138	620	50	17.7	541	54	13.5	486	56	10.9	0.4	0.6	0.8
750	207	630	50	17.4	550	53	13.4	494	55	10.8	0.4	0.6	0.8
1000	69	673	52	18.4	581	55	13.8	519	57	11.0	0.5	0.6	0.8
1000	103	695	51	17.9	602	55	13.5	538	57	10.9	0.5	0.6	0.8
1000	138	708	51	17.7	615	54	13.4	550	56	10.7	0.5	0.6	0.8
1000	207	722	50	17.3	628	54	13.2	563	56	10.7	0.5	0.6	0.8
1250	69	732	53	18.4	630	56	13.7	561	58	10.9	0.5	0.7	0.9
1250	103	760	52	17.9	656	55	13.5	585	57	10.7	0.5	0.7	0.9
1250	138	777	52	17.7	672	55	13.3	601	57	10.7	0.5	0.7	0.9
1250	207	796	51	17.3	690	55	13.1	617	57	10.5	0.5	0.7	0.9
1500	69	779	53	18.5	668	57	13.7	594	58	10.9	0.5	0.7	0.9
1500	103	813	53	18.0	700	56	13.4	623	58	10.7	0.5	0.7	0.9
1500	138	833	52	17.7	719	55	13.2	641	57	10.5	0.5	0.7	0.9
1500	207	856	52	17.3	740	55	13.0	661	57	10.5	0.5	0.7	0.9
1750	69	818	54	18.5	700	57	13.6	621	59	10.7	0.5	0.7	0.9
1750	103	857	53	17.9	736	56	13.3	654	58	10.5	0.5	0.7	0.9
1750	138	881	53	17.6	758	56	13.2	675	58	10.5	0.5	0.7	0.9
1750	207	907	52	17.3	782	55	12.9	698	57	10.3	0.5	0.7	0.9
2000	69	851	54	18.4	726	57	13.5	643	59	10.6	0.5	0.8	1.0
2000	103	894	54	17.9	766	57	13.2	680	58	10.4	0.5	0.8	1.0
2000	138	920	53	17.6	790	56	13.1	703	58	10.4	0.5	0.8	1.0
2000	207	950	53	17.2	818	56	12.8	728	58	10.3	0.5	0.8	1.0
2250	69	876	55	18.3	747	58	13.4	661	59	10.6	0.6	0.8	1.0
2250	103	923	54	17.8	789	57	13.1	700	59	10.4	0.6	0.8	1.0
2250	138	952	53	17.5	816	57	12.9	725	58	10.3	0.6	0.8	1.0
2250	207	984	53	17.2	846	56	12.7	753	58	10.1	0.6	0.8	1.0
2500	69	900	55	18.3	766	58	13.3	677	59	10.4	0.6	0.8	1.0
2500	103	951	54	17.8	812	57	13.0	719	59	10.3	0.6	0.8	1.0
2500	138	982	54	17.4	841	57	12.9	746	59	10.2	0.6	0.8	1.0
2500	207	1017	53	17.1	873	56	12.6	776	58	10.0	0.6	0.8	1.0

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115 to 138 kV Shielded Single Conductor Unfilled X L P E Power Cable

Direct Buried - Triplexed - Single Circuit

25°C Earth Ambient

Condr Size	Shield 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 .0010 pf & Rho 60	90	120
						75% LF							
						50°C - Copper Conductor - Concentric Strand							
750	69	532	39	14.4	473	41	11.4	430	43	9.5	0.4	0.6	0.8
750	103	545	39	13.9	486	41	11.1	443	43	9.3	0.4	0.6	0.8
750	138	553	39	13.7	494	41	11.0	451	42	9.2	0.4	0.6	0.8
750	207	561	38	13.4	502	41	10.8	459	42	9.1	0.4	0.6	0.8
1000	69	603	40	14.6	534	42	11.4	484	43	9.5	0.5	0.6	0.8
1000	103	622	39	14.1	553	42	11.2	502	43	9.3	0.5	0.6	0.8
1000	138	634	39	13.8	564	41	11.0	513	43	9.2	0.5	0.6	0.8
1000	207	646	39	13.5	576	41	10.8	525	43	9.0	0.5	0.6	0.8
1250	69	659	40	14.8	580	43	11.6	525	44	9.5	0.5	0.7	0.9
1250	103	683	40	14.3	604	42	11.2	548	44	9.3	0.5	0.7	0.9
1250	138	698	40	14.0	619	42	11.0	562	43	9.2	0.5	0.7	0.9
1250	207	714	39	13.7	634	42	10.8	577	43	9.0	0.5	0.7	0.9
1500	69	703	41	15.0	617	43	11.6	557	44	9.5	0.5	0.7	0.9
1500	103	732	40	14.5	645	42	11.3	584	44	9.3	0.5	0.7	0.9
1500	138	750	40	14.1	663	42	11.0	601	44	9.1	0.5	0.7	0.9
1500	207	769	40	13.7	682	42	10.9	619	43	9.0	0.5	0.7	0.9
1750	69	740	41	15.1	648	43	11.6	584	45	9.5	0.5	0.7	0.9
1750	103	773	41	14.6	680	43	11.3	615	44	9.3	0.5	0.7	0.9
1750	138	794	40	14.2	700	42	11.1	634	44	9.1	0.5	0.7	0.9
1750	207	817	40	13.8	722	42	10.9	655	44	9.0	0.5	0.7	0.9
2000	69	771	42	15.2	674	44	11.6	606	45	9.4	0.5	0.8	1.0
2000	103	808	41	14.6	709	43	11.3	640	44	9.3	0.5	0.8	1.0
2000	138	831	41	14.2	732	43	11.1	662	44	9.1	0.5	0.8	1.0
2000	207	857	40	13.9	757	42	10.8	685	44	8.9	0.5	0.8	1.0
2250	69	796	42	15.2	694	44	11.6	624	45	9.5	0.6	0.8	1.0
2250	103	836	41	14.6	733	43	11.3	661	45	9.2	0.6	0.8	1.0
2250	138	862	41	14.3	757	43	11.1	684	44	9.1	0.6	0.8	1.0
2250	207	890	40	13.8	784	43	10.8	710	44	8.9	0.6	0.8	1.0
2500	69	819	42	15.2	713	44	11.6	641	45	9.4	0.6	0.8	1.0
2500	103	863	41	14.6	755	43	11.3	680	45	9.2	0.6	0.8	1.0
2500	138	891	41	14.3	781	43	11.0	705	44	9.1	0.6	0.8	1.0
2500	207	921	41	13.9	811	43	10.8	733	44	8.9	0.6	0.8	1.0

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115 to 138 kV Shielded Single Conductor Unfilled X L P E Power Cable

Direct Buried - Triplexed - Single Circuit

25°C Earth Ambient

Condr Size	Shield 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 .0010 pf & Rho 60	90	120
						100% LF							
						50°C - Copper Conductor - Concentric Strand							
750	69	476	41	11.5	413	43	8.8	369	45	7.0	0.4	0.6	0.8
750	103	490	41	11.3	426	43	8.6	381	45	7.0	0.4	0.6	0.8
750	138	498	41	11.1	433	43	8.5	388	44	6.9	0.4	0.6	0.8
750	207	506	40	10.9	441	43	8.4	396	44	6.8	0.4	0.6	0.8
1000	69	536	42	11.6	462	44	8.7	412	45	6.9	0.5	0.6	0.8
1000	103	555	42	11.3	480	44	8.5	429	45	6.8	0.5	0.6	0.8
1000	138	567	41	11.1	491	43	8.4	439	45	6.7	0.5	0.6	0.8
1000	207	579	41	10.9	503	43	8.3	450	45	6.6	0.5	0.6	0.8
1250	69	582	43	11.6	500	45	8.6	444	46	6.9	0.5	0.7	0.9
1250	103	606	42	11.3	522	44	8.4	465	45	6.7	0.5	0.7	0.9
1250	138	620	42	11.1	536	44	8.4	478	45	6.7	0.5	0.7	0.9
1250	207	636	41	10.9	551	44	8.2	492	45	6.6	0.5	0.7	0.9
1500	69	618	43	11.6	529	45	8.5	469	46	6.8	0.5	0.7	0.9
1500	103	646	42	11.3	555	44	8.4	493	46	6.7	0.5	0.7	0.9
1500	138	664	42	11.1	571	44	8.3	508	45	6.6	0.5	0.7	0.9
1500	207	683	42	10.9	589	44	8.2	525	45	6.5	0.5	0.7	0.9
1750	69	648	43	11.6	553	45	8.6	489	46	6.8	0.5	0.7	0.9
1750	103	680	43	11.3	583	45	8.4	517	46	6.6	0.5	0.7	0.9
1750	138	700	42	11.1	601	44	8.2	534	46	6.6	0.5	0.7	0.9
1750	207	722	42	10.9	622	44	8.1	554	45	6.4	0.5	0.7	0.9
2000	69	672	44	11.6	572	45	8.5	506	46	6.6	0.5	0.8	1.0
2000	103	708	43	11.2	605	45	8.3	536	46	6.6	0.5	0.8	1.0
2000	138	730	43	11.1	626	45	8.2	555	46	6.5	0.5	0.8	1.0
2000	207	756	42	10.8	649	44	8.1	577	46	6.4	0.5	0.8	1.0
2250	69	692	44	11.5	588	46	8.4	519	47	6.6	0.6	0.8	1.0
2250	103	731	43	11.2	623	45	8.2	551	46	6.5	0.6	0.8	1.0
2250	138	755	43	11.0	646	45	8.1	572	46	6.4	0.6	0.8	1.0
2250	207	782	43	10.7	671	45	8.0	596	46	6.4	0.6	0.8	1.0
2500	69	710	44	11.5	602	46	8.4	531	47	6.5	0.6	0.8	1.0
2500	103	752	44	11.1	640	45	8.2	566	46	6.5	0.6	0.8	1.0
2500	138	778	43	11.0	664	45	8.1	588	46	6.4	0.6	0.8	1.0
2500	207	808	43	10.7	692	45	7.9	614	46	6.3	0.6	0.8	1.0

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115 to 138 kV Shielded Single Conductor Unfilled X L P E Power Cable

Direct Buried - Triplexed - Single Circuit

25°C Earth Ambient

Condr Size	Shield 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
		Total Watts/ft					
90°C - Copper Conductor - Concentric Strand							
750	69	48.8	39.5	39.0	29.9	32.6	24.1
750	103	47.6	38.6	38.2	29.5	32.1	23.8
750	138	46.9	38.2	37.8	29.2	31.7	23.7
750	207	46.1	37.6	37.2	28.9	31.4	23.4
1000	69	52.6	41.8	41.6	31.4	34.6	25.2
1000	103	51.0	40.8	40.7	30.9	33.9	24.8
1000	138	50.1	40.2	40.0	30.5	33.5	24.6
1000	207	49.2	39.7	39.4	30.1	33.0	24.3
1250	69	55.5	43.6	43.6	32.6	36.0	26.0
1250	103	53.7	42.5	42.5	32.0	35.3	25.6
1250	138	52.7	41.9	41.8	31.6	34.9	25.3
1250	207	51.5	41.2	41.2	31.2	34.3	25.0
1500	69	58.1	45.2	45.3	33.5	37.3	26.6
1500	103	56.2	44.1	44.1	32.8	36.5	26.2
1500	138	55.0	43.3	43.4	32.5	36.0	25.9
1500	207	53.7	42.5	42.6	32.0	35.5	25.6
1750	69	60.2	46.5	46.7	34.3	38.4	27.1
1750	103	58.1	45.3	45.5	33.6	37.6	26.8
1750	138	57.0	44.5	44.8	33.2	37.0	26.5
1750	207	55.5	43.7	43.9	32.7	36.5	26.2
2000	69	62.1	47.7	48.1	35.0	39.3	27.6
2000	103	60.1	46.4	46.8	34.3	38.5	27.2
2000	138	58.7	45.6	46.0	33.9	38.0	26.9
2000	207	57.3	44.7	45.1	33.4	37.3	26.6
2250	69	63.9	48.6	49.2	35.6	40.2	28.1
2250	103	61.6	47.3	47.9	34.9	39.4	27.6
2250	138	60.3	46.5	47.0	34.5	38.7	27.4
2250	207	58.7	45.6	46.1	33.9	38.2	27.1
2500	69	65.4	49.6	50.3	36.1	41.1	28.4
2500	103	63.2	48.2	48.9	35.4	40.1	28.0
2500	138	61.7	47.4	48.1	35.0	39.5	27.7
2500	207	60.1	46.4	47.1	34.5	38.9	27.4

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115 to 138 kV Shielded Single Conductor Unfilled X L P E Power Cable

Direct Buried - Triplexed - Single Circuit

25°C Earth Ambient

Condr Size	Shield 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
		Total Watts/ft					
80°C - Copper Conductor - Concentric Strand							
750	69	41.6	33.6	33.2	25.4	27.7	20.5
750	103	40.5	32.8	32.5	25.0	27.2	20.2
750	138	39.9	32.4	32.0	24.7	26.9	20.1
750	207	39.2	31.9	31.6	24.5	26.6	19.9
1000	69	44.6	35.5	35.3	26.6	29.3	21.3
1000	103	43.4	34.6	34.5	26.2	28.8	21.1
1000	138	42.6	34.2	33.9	25.9	28.3	20.9
1000	207	41.6	33.6	33.4	25.6	28.0	20.6
1250	69	47.2	37.0	37.0	27.6	30.5	22.0
1250	103	45.7	36.1	36.1	27.1	29.9	21.7
1250	138	44.8	35.6	35.5	26.8	29.5	21.5
1250	207	43.8	34.9	34.9	26.4	29.1	21.2
1500	69	49.3	38.3	38.4	28.4	31.6	22.6
1500	103	47.7	37.3	37.4	27.9	30.9	22.2
1500	138	46.7	36.8	36.8	27.5	30.5	22.0
1500	207	45.5	36.1	36.1	27.1	30.0	21.7
1750	69	51.2	39.5	39.7	29.1	32.6	23.0
1750	103	49.4	38.4	38.6	28.5	31.9	22.7
1750	138	48.3	37.8	38.0	28.2	31.3	22.4
1750	207	47.1	37.0	37.2	27.7	30.9	22.2
2000	69	52.8	40.5	40.8	29.7	33.3	23.4
2000	103	51.0	39.4	39.7	29.1	32.6	23.1
2000	138	49.9	38.7	39.0	28.7	32.2	22.8
2000	207	48.6	37.9	38.2	28.3	31.6	22.5
2250	69	54.3	41.3	41.8	30.2	34.1	23.8
2250	103	52.4	40.2	40.6	29.6	33.4	23.4
2250	138	51.1	39.5	39.9	29.2	32.8	23.2
2250	207	49.8	38.7	39.1	28.8	32.3	22.9
2500	69	55.6	42.0	42.7	30.7	34.7	24.1
2500	103	53.7	41.0	41.5	30.0	34.0	23.7
2500	138	52.4	40.2	40.8	29.6	33.5	23.5
2500	207	51.0	39.4	39.9	29.2	32.9	23.2

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115 to 138 kV Shielded Single Conductor Unfilled X L P E Power Cable

Direct Buried - Triplexed - Single Circuit

25°C Earth Ambient

Condr Size	Shield 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
		Total Watts/ft					
65°C - Copper Conductor - Concentric Strand							
750	69	30.4	24.5	24.2	18.6	20.2	14.9
750	103	29.6	24.0	23.7	18.2	19.8	14.7
750	138	29.1	23.6	23.3	18.1	19.6	14.6
750	207	28.6	23.3	23.0	17.8	19.3	14.5
1000	69	32.8	26.0	25.8	19.5	21.4	15.6
1000	103	31.7	25.4	25.2	19.1	21.0	15.3
1000	138	31.1	25.0	24.8	18.9	20.7	15.2
1000	207	30.4	24.5	24.4	18.6	20.4	15.1
1250	69	34.6	27.1	27.1	20.2	22.3	16.1
1250	103	33.4	26.4	26.3	19.8	21.8	15.8
1250	138	32.7	26.0	25.9	19.5	21.5	15.7
1250	207	32.0	25.5	25.4	19.3	21.2	15.5
1500	69	36.1	28.1	28.1	20.7	23.1	16.5
1500	103	34.9	27.3	27.3	20.4	22.5	16.2
1500	138	34.1	26.8	26.8	20.1	22.2	16.0
1500	207	33.2	26.3	26.3	19.8	21.9	15.9
1750	69	37.6	28.9	29.0	21.3	23.8	16.8
1750	103	36.2	28.1	28.3	20.9	23.3	16.6
1750	138	35.4	27.6	27.7	20.6	22.9	16.4
1750	207	34.5	27.1	27.1	20.2	22.5	16.2
2000	69	38.7	29.6	29.8	21.7	24.3	17.1
2000	103	37.3	28.8	29.0	21.3	23.8	16.8
2000	138	36.4	28.3	28.4	20.9	23.4	16.7
2000	207	35.5	27.7	27.9	20.6	23.0	16.4
2250	69	39.8	30.2	30.6	22.1	24.9	17.4
2250	103	38.4	29.4	29.7	21.6	24.3	17.1
2250	138	37.4	28.9	29.1	21.3	24.0	16.9
2250	207	36.4	28.3	28.5	21.0	23.5	16.7
2500	69	40.8	30.8	31.2	22.4	25.4	17.6
2500	103	39.3	30.0	30.3	22.0	24.8	17.3
2500	138	38.3	29.4	29.8	21.7	24.4	17.2
2500	207	37.3	28.8	29.1	21.3	24.0	16.9

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115 to 138 kV Shielded Single Conductor Unfilled X L P E Power Cable

Direct Buried - Triplexed - Single Circuit

25°C Earth Ambient

Condr Size	Shield 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
		Total Watts/ft					
50°C - Copper Conductor - Concentric Strand							
750	69	19.2	15.4	15.2	11.7	12.6	9.4
750	103	18.6	15.1	14.9	11.5	12.4	9.3
750	138	18.3	14.9	14.7	11.3	12.3	9.2
750	207	17.9	14.6	14.4	11.2	12.1	9.1
1000	69	20.6	16.4	16.2	12.2	13.4	9.8
1000	103	19.9	15.9	15.8	12.0	13.1	9.7
1000	138	19.6	15.7	15.6	11.9	12.9	9.6
1000	207	19.1	15.4	15.3	11.7	12.7	9.5
1250	69	21.8	17.1	17.0	12.7	14.0	10.1
1250	103	21.0	16.6	16.5	12.4	13.7	9.9
1250	138	20.6	16.3	16.3	12.3	13.5	9.8
1250	207	20.1	16.0	15.9	12.1	13.2	9.7
1500	69	22.8	17.7	17.6	13.1	14.4	10.3
1500	103	22.0	17.2	17.1	12.8	14.1	10.2
1500	138	21.5	16.9	16.9	12.6	13.9	10.1
1500	207	20.9	16.5	16.5	12.4	13.7	9.9
1750	69	23.6	18.2	18.2	13.4	14.9	10.5
1750	103	22.7	17.7	17.7	13.1	14.5	10.4
1750	138	22.2	17.4	17.4	12.9	14.3	10.3
1750	207	21.6	17.0	17.0	12.7	14.0	10.2
2000	69	24.4	18.6	18.7	13.6	15.2	10.7
2000	103	23.5	18.1	18.2	13.3	14.9	10.6
2000	138	22.9	17.8	17.9	13.2	14.7	10.4
2000	207	22.3	17.4	17.5	12.9	14.4	10.3
2250	69	25.0	19.0	19.1	13.9	15.5	10.9
2250	103	24.1	18.5	18.6	13.6	15.2	10.7
2250	138	23.5	18.1	18.2	13.4	15.0	10.6
2250	207	22.8	17.7	17.8	13.2	14.7	10.5
2500	69	25.6	19.4	19.5	14.0	15.9	11.0
2500	103	24.7	18.9	19.0	13.8	15.5	10.9
2500	138	24.1	18.5	18.6	13.6	15.3	10.8
2500	207	23.4	18.1	18.2	13.4	15.0	10.6

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115 to 138 kV Shielded Single Conductor Unfilled X L P E Power Cable

Direct Buried - Triplexed - Single Circuit

25°C Earth Ambient

Condr Size	Sheath Res	OD	Wd	Rac	Qs	Ri	Rj	Re @ 90 Rho & loss factor 75%	100%
			90°C - Copper Conductor - Concentric Strand						
750	69	3.218	0.10	18.78	1.262	1.93	0.29	3.18	4.71
750	103	3.218	0.10	18.78	1.181	1.93	0.29	3.18	4.71
750	138	3.218	0.10	18.78	1.136	1.93	0.29	3.18	4.71
750	207	3.218	0.10	18.78	1.091	1.93	0.29	3.18	4.71
1000	69	3.407	0.11	14.57	1.338	1.76	0.27	3.10	4.63
1000	103	3.407	0.11	14.57	1.233	1.76	0.27	3.10	4.63
1000	138	3.407	0.11	14.57	1.175	1.76	0.27	3.10	4.63
1000	207	3.407	0.11	14.57	1.118	1.76	0.27	3.10	4.63
1250	69	3.540	0.12	12.15	1.403	1.64	0.26	3.04	4.57
1250	103	3.540	0.12	12.15	1.277	1.64	0.26	3.04	4.57
1250	138	3.540	0.12	12.15	1.209	1.64	0.26	3.04	4.57
1250	207	3.540	0.12	12.15	1.140	1.64	0.26	3.04	4.57
1500	69	3.660	0.13	10.59	1.460	1.54	0.25	2.99	4.53
1500	103	3.660	0.13	10.59	1.316	1.54	0.25	2.99	4.53
1500	138	3.660	0.13	10.59	1.238	1.54	0.25	2.99	4.53
1500	207	3.660	0.13	10.59	1.160	1.54	0.25	2.99	4.53
1750	69	3.770	0.13	9.52	1.509	1.46	0.24	2.95	4.48
1750	103	3.770	0.13	9.52	1.350	1.46	0.24	2.95	4.48
1750	138	3.770	0.13	9.52	1.264	1.46	0.24	2.95	4.48
1750	207	3.770	0.13	9.52	1.177	1.46	0.24	2.95	4.48
2000	69	3.873	0.14	8.71	1.554	1.39	0.24	2.91	4.45
2000	103	3.873	0.14	8.71	1.381	1.39	0.24	2.91	4.45
2000	138	3.873	0.14	8.71	1.287	1.39	0.24	2.91	4.45
2000	207	3.873	0.14	8.71	1.193	1.39	0.24	2.91	4.45
2250	69	3.968	0.15	8.16	1.589	1.34	0.23	2.88	4.41
2250	103	3.968	0.15	8.16	1.405	1.34	0.23	2.88	4.41
2250	138	3.968	0.15	8.16	1.305	1.34	0.23	2.88	4.41
2250	207	3.968	0.15	8.16	1.205	1.34	0.23	2.88	4.41
2500	69	4.059	0.15	7.68	1.624	1.29	0.22	2.85	4.38
2500	103	4.059	0.15	7.68	1.429	1.29	0.22	2.85	4.38
2500	138	4.059	0.15	7.68	1.323	1.29	0.22	2.85	4.38
2500	207	4.059	0.15	7.68	1.217	1.29	0.22	2.85	4.38

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1190

115 to 138 kV Shielded Single Conductor Unfilled X L P E Power Cable

Direct Buried - Triplexed - Single Circuit

25°C Earth Ambient

Condr Size	Sheath Res	OD	Wd	Rac	Qs	Ri	Rj	Re @ 90 loss 75%	Rho & factor 100%
			80°C - Copper Conductor - Concentric Strand						
750	69	3.218	0.10	18.78	1.262	1.93	0.29	3.18	4.71
750	103	3.218	0.10	18.78	1.181	1.93	0.29	3.18	4.71
750	138	3.218	0.10	18.78	1.136	1.93	0.29	3.18	4.71
750	207	3.218	0.10	18.78	1.091	1.93	0.29	3.18	4.71
1000	69	3.407	0.11	14.57	1.338	1.76	0.27	3.10	4.63
1000	103	3.407	0.11	14.57	1.233	1.76	0.27	3.10	4.63
1000	138	3.407	0.11	14.57	1.175	1.76	0.27	3.10	4.63
1000	207	3.407	0.11	14.57	1.118	1.76	0.27	3.10	4.63
1250	69	3.540	0.12	12.15	1.403	1.64	0.26	3.04	4.57
1250	103	3.540	0.12	12.15	1.277	1.64	0.26	3.04	4.57
1250	138	3.540	0.12	12.15	1.209	1.64	0.26	3.04	4.57
1250	207	3.540	0.12	12.15	1.140	1.64	0.26	3.04	4.57
1500	69	3.660	0.13	10.59	1.460	1.54	0.25	2.99	4.53
1500	103	3.660	0.13	10.59	1.316	1.54	0.25	2.99	4.53
1500	138	3.660	0.13	10.59	1.238	1.54	0.25	2.99	4.53
1500	207	3.660	0.13	10.59	1.160	1.54	0.25	2.99	4.53
1750	69	3.770	0.13	9.52	1.509	1.46	0.24	2.95	4.48
1750	103	3.770	0.13	9.52	1.350	1.46	0.24	2.95	4.48
1750	138	3.770	0.13	9.52	1.264	1.46	0.24	2.95	4.48
1750	207	3.770	0.13	9.52	1.177	1.46	0.24	2.95	4.48
2000	69	3.873	0.14	8.71	1.554	1.39	0.24	2.91	4.45
2000	103	3.873	0.14	8.71	1.381	1.39	0.24	2.91	4.45
2000	138	3.873	0.14	8.71	1.287	1.39	0.24	2.91	4.45
2000	207	3.873	0.14	8.71	1.193	1.39	0.24	2.91	4.45
2250	69	3.968	0.15	8.16	1.589	1.34	0.23	2.88	4.41
2250	103	3.968	0.15	8.16	1.405	1.34	0.23	2.88	4.41
2250	138	3.968	0.15	8.16	1.305	1.34	0.23	2.88	4.41
2250	207	3.968	0.15	8.16	1.205	1.34	0.23	2.88	4.41
2500	69	4.059	0.15	7.68	1.624	1.29	0.22	2.85	4.38
2500	103	4.059	0.15	7.68	1.429	1.29	0.22	2.85	4.38
2500	138	4.059	0.15	7.68	1.323	1.29	0.22	2.85	4.38
2500	207	4.059	0.15	7.68	1.217	1.29	0.22	2.85	4.38

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115 to 138 kV Shielded Single Conductor Unfilled X L P E Power Cable

Direct Buried - Triplexed - Single Circuit

25°C Earth Ambient

Condr Size	Sheath Res	OD	Wd	Rac	Qs	Ri	Rj	Re @ 90 Rho & loss factor 75%	Re @ 90 Rho & loss factor 100%
			65°C - Copper Conductor - Concentric Strand						
750	69	3.218	0.10	18.78	1.262	1.93	0.29	3.18	4.71
750	103	3.218	0.10	18.78	1.181	1.93	0.29	3.18	4.71
750	138	3.218	0.10	18.78	1.136	1.93	0.29	3.18	4.71
750	207	3.218	0.10	18.78	1.091	1.93	0.29	3.18	4.71
1000	69	3.407	0.11	14.57	1.338	1.76	0.27	3.10	4.63
1000	103	3.407	0.11	14.57	1.233	1.76	0.27	3.10	4.63
1000	138	3.407	0.11	14.57	1.175	1.76	0.27	3.10	4.63
1000	207	3.407	0.11	14.57	1.118	1.76	0.27	3.10	4.63
1250	69	3.540	0.12	12.15	1.403	1.64	0.26	3.04	4.57
1250	103	3.540	0.12	12.15	1.277	1.64	0.26	3.04	4.57
1250	138	3.540	0.12	12.15	1.209	1.64	0.26	3.04	4.57
1250	207	3.540	0.12	12.15	1.140	1.64	0.26	3.04	4.57
1500	69	3.660	0.13	10.59	1.460	1.54	0.25	2.99	4.53
1500	103	3.660	0.13	10.59	1.316	1.54	0.25	2.99	4.53
1500	138	3.660	0.13	10.59	1.238	1.54	0.25	2.99	4.53
1500	207	3.660	0.13	10.59	1.160	1.54	0.25	2.99	4.53
1750	69	3.770	0.13	9.52	1.509	1.46	0.24	2.95	4.48
1750	103	3.770	0.13	9.52	1.350	1.46	0.24	2.95	4.48
1750	138	3.770	0.13	9.52	1.264	1.46	0.24	2.95	4.48
1750	207	3.770	0.13	9.52	1.177	1.46	0.24	2.95	4.48
2000	69	3.873	0.14	8.71	1.554	1.39	0.24	2.91	4.45
2000	103	3.873	0.14	8.71	1.381	1.39	0.24	2.91	4.45
2000	138	3.873	0.14	8.71	1.287	1.39	0.24	2.91	4.45
2000	207	3.873	0.14	8.71	1.193	1.39	0.24	2.91	4.45
2250	69	3.968	0.15	8.16	1.589	1.34	0.23	2.88	4.41
2250	103	3.968	0.15	8.16	1.405	1.34	0.23	2.88	4.41
2250	138	3.968	0.15	8.16	1.305	1.34	0.23	2.88	4.41
2250	207	3.968	0.15	8.16	1.205	1.34	0.23	2.88	4.41
2500	69	4.059	0.15	7.68	1.624	1.29	0.22	2.85	4.38
2500	103	4.059	0.15	7.68	1.429	1.29	0.22	2.85	4.38
2500	138	4.059	0.15	7.68	1.323	1.29	0.22	2.85	4.38
2500	207	4.059	0.15	7.68	1.217	1.29	0.22	2.85	4.38

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115 to 138 kV Shielded Single Conductor Unfilled X L P E Power Cable

Direct Buried - Triplexed - Single Circuit

25°C Earth Ambient

Condr Size	Sheath Res	OD	Wd	Rac	Qs	Ri	Rj	Re @ 90 loss 75%	Rho & factor 100%
			50°C - Copper Conductor - Concentric Strand						
750	69	3.218	0.10	18.78	1.262	1.93	0.29	3.18	4.71
750	103	3.218	0.10	18.78	1.181	1.93	0.29	3.18	4.71
750	138	3.218	0.10	18.78	1.136	1.93	0.29	3.18	4.71
750	207	3.218	0.10	18.78	1.091	1.93	0.29	3.18	4.71
1000	69	3.407	0.11	14.57	1.338	1.76	0.27	3.10	4.63
1000	103	3.407	0.11	14.57	1.233	1.76	0.27	3.10	4.63
1000	138	3.407	0.11	14.57	1.175	1.76	0.27	3.10	4.63
1000	207	3.407	0.11	14.57	1.118	1.76	0.27	3.10	4.63
1250	69	3.540	0.12	12.15	1.403	1.64	0.26	3.04	4.57
1250	103	3.540	0.12	12.15	1.277	1.64	0.26	3.04	4.57
1250	138	3.540	0.12	12.15	1.209	1.64	0.26	3.04	4.57
1250	207	3.540	0.12	12.15	1.140	1.64	0.26	3.04	4.57
1500	69	3.660	0.13	10.59	1.460	1.54	0.25	2.99	4.53
1500	103	3.660	0.13	10.59	1.316	1.54	0.25	2.99	4.53
1500	138	3.660	0.13	10.59	1.238	1.54	0.25	2.99	4.53
1500	207	3.660	0.13	10.59	1.160	1.54	0.25	2.99	4.53
1750	69	3.770	0.13	9.52	1.509	1.46	0.24	2.95	4.48
1750	103	3.770	0.13	9.52	1.350	1.46	0.24	2.95	4.48
1750	138	3.770	0.13	9.52	1.264	1.46	0.24	2.95	4.48
1750	207	3.770	0.13	9.52	1.177	1.46	0.24	2.95	4.48
2000	69	3.873	0.14	8.71	1.554	1.39	0.24	2.91	4.45
2000	103	3.873	0.14	8.71	1.381	1.39	0.24	2.91	4.45
2000	138	3.873	0.14	8.71	1.287	1.39	0.24	2.91	4.45
2000	207	3.873	0.14	8.71	1.193	1.39	0.24	2.91	4.45
2250	69	3.968	0.15	8.16	1.589	1.34	0.23	2.88	4.41
2250	103	3.968	0.15	8.16	1.405	1.34	0.23	2.88	4.41
2250	138	3.968	0.15	8.16	1.305	1.34	0.23	2.88	4.41
2250	207	3.968	0.15	8.16	1.205	1.34	0.23	2.88	4.41
2500	69	4.059	0.15	7.68	1.624	1.29	0.22	2.85	4.38
2500	103	4.059	0.15	7.68	1.429	1.29	0.22	2.85	4.38
2500	138	4.059	0.15	7.68	1.323	1.29	0.22	2.85	4.38
2500	207	4.059	0.15	7.68	1.217	1.29	0.22	2.85	4.38

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115 to 138 kV Shielded Single Conductor Unfilled X L P E Power Cable

Direct Buried - Triplexed - Double Circuit

25°C Earth Ambient

Condr Size	Shield 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 .0010 pf & Rho 60	90	120
						75% LF							
						90°C - Copper Conductor - Concentric Strand							
750	69	734	67	28.9	642	72	22.1	578	76	18.0	0.6	0.9	1.1
750	103	751	66	28.3	658	72	21.8	593	75	17.7	0.6	0.9	1.1
750	138	761	66	28.0	668	71	21.6	603	75	17.7	0.6	0.9	1.1
750	207	771	65	27.6	678	71	21.4	612	74	17.5	0.6	0.9	1.1
1000	69	833	69	28.9	724	74	21.9	650	77	17.7	0.7	0.9	1.2
1000	103	858	68	28.3	748	73	21.5	673	76	17.4	0.7	0.9	1.2
1000	138	872	67	27.8	762	72	21.3	686	76	17.3	0.7	0.9	1.2
1000	207	887	66	27.4	777	72	21.1	700	75	17.2	0.7	0.9	1.2
1250	69	909	70	29.0	788	75	21.8	706	78	17.5	0.7	1.0	1.3
1250	103	941	69	28.3	819	74	21.4	734	77	17.3	0.7	1.0	1.3
1250	138	960	68	27.9	836	74	21.2	751	77	17.1	0.7	1.0	1.3
1250	207	981	68	27.4	856	73	20.9	770	76	17.0	0.7	1.0	1.3
1500	69	971	71	29.0	839	76	21.7	750	79	17.4	0.7	1.0	1.3
1500	103	1010	70	28.3	875	75	21.3	784	78	17.2	0.7	1.0	1.3
1500	138	1032	69	27.8	897	74	21.0	804	77	17.0	0.7	1.0	1.3
1500	207	1057	68	27.4	920	74	20.8	826	77	16.8	0.7	1.0	1.3
1750	69	1022	72	28.9	881	77	21.6	786	79	17.2	0.8	1.1	1.4
1750	103	1066	71	28.2	922	76	21.2	825	78	17.0	0.8	1.1	1.4
1750	138	1093	70	27.8	947	75	20.9	848	78	16.8	0.8	1.1	1.4
1750	207	1121	69	27.3	974	74	20.6	874	77	16.6	0.8	1.1	1.4
2000	69	1065	73	28.8	916	77	21.4	817	80	17.1	0.8	1.1	1.4
2000	103	1115	71	28.1	962	76	21.0	860	79	16.8	0.8	1.1	1.4
2000	138	1145	71	27.7	991	76	20.8	886	78	16.7	0.8	1.1	1.4
2000	207	1178	70	27.1	1021	75	20.4	915	78	16.5	0.8	1.1	1.4
2250	69	1099	73	28.8	944	78	21.3	841	80	16.9	0.8	1.1	1.5
2250	103	1153	72	28.0	994	77	20.9	887	79	16.7	0.8	1.1	1.5
2250	138	1186	71	27.5	1025	76	20.6	916	79	16.5	0.8	1.1	1.5
2250	207	1223	70	27.0	1059	75	20.3	947	78	16.3	0.8	1.1	1.5
2500	69	1131	74	28.6	970	78	21.1	863	81	16.8	0.8	1.2	1.5
2500	103	1189	73	27.9	1024	77	20.7	913	80	16.5	0.8	1.2	1.5
2500	138	1225	72	27.4	1057	76	20.5	943	79	16.4	0.8	1.2	1.5
2500	207	1265	71	26.9	1094	76	20.2	978	79	16.2	0.8	1.2	1.5

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115 to 138 kV Shielded Single Conductor Unfilled X L P E Power Cable

Direct Buried - Triplexed - Double Circuit

25°C Earth Ambient

Condr Size	Shield 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 .0010 pf & Rho 60	90	120
						100% LF							
						90°C - Copper Conductor - Concentric Strand							
750	69	639	73	22.0	546	77	16.1	484	80	12.7	0.6	0.9	1.1
750	103	655	72	21.6	561	77	15.9	498	79	12.6	0.6	0.9	1.1
750	138	665	71	21.4	570	76	15.8	507	79	12.6	0.6	0.9	1.1
750	207	675	71	21.2	580	76	15.7	515	79	12.5	0.6	0.9	1.1
1000	69	720	74	21.6	612	78	15.8	542	81	12.4	0.7	0.9	1.2
1000	103	743	73	21.3	634	78	15.5	562	80	12.2	0.7	0.9	1.2
1000	138	757	73	21.1	647	77	15.4	573	80	12.2	0.7	0.9	1.2
1000	207	772	72	20.8	660	77	15.3	586	80	12.1	0.7	0.9	1.2
1250	69	782	75	21.5	663	79	15.5	585	82	12.2	0.7	1.0	1.3
1250	103	812	74	21.1	690	79	15.3	610	81	12.0	0.7	1.0	1.3
1250	138	830	74	20.9	707	78	15.2	625	81	12.0	0.7	1.0	1.3
1250	207	849	73	20.6	724	78	15.1	641	80	11.9	0.7	1.0	1.3
1500	69	831	76	21.3	703	80	15.3	620	82	12.0	0.7	1.0	1.3
1500	103	867	75	20.9	735	79	15.1	649	82	11.8	0.7	1.0	1.3
1500	138	889	75	20.6	755	79	15.0	667	81	11.8	0.7	1.0	1.3
1500	207	912	74	20.4	776	78	14.9	686	81	11.6	0.7	1.0	1.3
1750	69	871	77	21.1	735	81	15.1	647	83	11.7	0.8	1.1	1.4
1750	103	912	76	20.7	772	80	14.9	680	82	11.6	0.8	1.1	1.4
1750	138	937	75	20.5	794	79	14.8	701	82	11.6	0.8	1.1	1.4
1750	207	964	75	20.2	819	79	14.6	723	81	11.5	0.8	1.1	1.4
2000	69	905	78	20.9	762	81	14.9	670	83	11.6	0.8	1.1	1.4
2000	103	951	77	20.5	803	80	14.7	707	83	11.5	0.8	1.1	1.4
2000	138	979	76	20.3	828	80	14.6	730	82	11.4	0.8	1.1	1.4
2000	207	1010	75	20.0	856	79	14.4	755	82	11.3	0.8	1.1	1.4
2250	69	931	78	20.7	783	82	14.7	688	83	11.4	0.8	1.1	1.5
2250	103	981	77	20.3	827	81	14.6	728	83	11.3	0.8	1.1	1.5
2250	138	1012	76	20.1	855	80	14.4	753	82	11.2	0.8	1.1	1.5
2250	207	1045	76	19.8	885	80	14.3	780	82	11.2	0.8	1.1	1.5
2500	69	956	78	20.5	803	82	14.6	705	84	11.3	0.8	1.2	1.5
2500	103	1009	77	20.2	850	81	14.3	747	83	11.1	0.8	1.2	1.5
2500	138	1042	77	19.9	879	81	14.2	774	83	11.1	0.8	1.2	1.5
2500	207	1079	76	19.6	912	80	14.1	804	82	11.0	0.8	1.2	1.5

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115 to 138 kV Shielded Single Conductor Unfilled X L P E Power Cable

Direct Buried - Triplexed - Double Circuit

25°C Earth Ambient

Condr Size	Shield 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 .0010 pf & Rho 60	90	120
		°C	w/ft²	Amps	°C	w/ft²	Amps	°C	w/ft²	Amps			
						75% LF							
						80°C - Copper Conductor - Concentric Strand							
750	69	61	24.5	681	65	18.8	595	68	15.3	536	0.6	0.9	1.1
750	103	60	24.0	698	65	18.5	611	67	15.0	551	0.6	0.9	1.1
750	138	59	23.7	708	64	18.3	621	67	15.0	560	0.6	0.9	1.1
750	207	59	23.4	718	64	18.1	631	67	14.8	569	0.6	0.9	1.1
1000	69	62	24.5	772	66	18.6	671	69	15.0	602	0.7	0.9	1.2
1000	103	61	23.9	796	66	18.3	694	69	14.8	623	0.7	0.9	1.2
1000	138	61	23.6	810	65	18.1	707	68	14.7	636	0.7	0.9	1.2
1000	207	60	23.2	825	65	17.9	722	68	14.6	650	0.7	0.9	1.2
1250	69	63	24.6	842	67	18.5	729	70	14.9	652	0.7	1.0	1.3
1250	103	62	24.0	872	67	18.2	758	69	14.7	679	0.7	1.0	1.3
1250	138	62	23.7	891	66	17.9	775	69	14.6	696	0.7	1.0	1.3
1250	207	61	23.3	910	66	17.7	794	68	14.3	714	0.7	1.0	1.3
1500	69	64	24.6	897	68	18.4	775	71	14.7	692	0.7	1.0	1.3
1500	103	63	24.0	934	67	18.1	809	70	14.5	724	0.7	1.0	1.3
1500	138	63	23.6	956	67	17.8	830	69	14.4	744	0.7	1.0	1.3
1500	207	62	23.1	980	66	17.6	853	69	14.2	765	0.7	1.0	1.3
1750	69	65	24.6	943	69	18.3	812	71	14.6	724	0.8	1.1	1.4
1750	103	64	23.9	985	68	17.9	851	70	14.4	761	0.8	1.1	1.4
1750	138	63	23.6	1011	67	17.7	875	70	14.2	783	0.8	1.1	1.4
1750	207	63	23.1	1039	67	17.4	902	69	14.0	808	0.8	1.1	1.4
2000	69	66	24.5	982	69	18.1	844	72	14.5	752	0.8	1.1	1.4
2000	103	64	23.9	1029	68	17.8	888	71	14.2	792	0.8	1.1	1.4
2000	138	64	23.5	1059	68	17.6	915	70	14.1	818	0.8	1.1	1.4
2000	207	63	23.0	1090	67	17.3	945	70	13.9	846	0.8	1.1	1.4
2250	69	66	24.4	1012	70	18.0	869	72	14.3	773	0.8	1.1	1.5
2250	103	65	23.8	1064	69	17.7	916	71	14.1	817	0.8	1.1	1.5
2250	138	64	23.4	1096	68	17.5	945	71	14.0	844	0.8	1.1	1.5
2250	207	64	22.9	1131	68	17.2	978	70	13.8	875	0.8	1.1	1.5
2500	69	67	24.3	1041	70	17.9	892	72	14.2	793	0.8	1.2	1.5
2500	103	65	23.7	1097	69	17.6	943	71	14.0	840	0.8	1.2	1.5
2500	138	65	23.2	1131	69	17.3	975	71	13.8	869	0.8	1.2	1.5
2500	207	64	22.8	1170	68	17.1	1010	70	13.7	903	0.8	1.2	1.5

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115 to 138 kV Shielded Single Conductor Unfilled X L P E Power Cable

Direct Buried - Triplexed - Double Circuit

25°C Earth Ambient

Condr Size	Shield Res	60 Rho Amps	60 Rho Interface Temp °C	60 Rho Interface Flux w/ft²	90 Rho Amps	90 Rho Interface Temp °C	90 Rho Interface Flux w/ft²	120 Rho Amps	120 Rho Interface Temp °C	120 Rho Interface Flux w/ft²	delta Td for .0010 pf & Rho 60	90	120
						100% LF							
						80°C - Copper Conductor - Concentric Strand							
750	69	593	65	18.6	506	69	13.7	449	72	10.8	0.6	0.9	1.1
750	103	609	65	18.3	521	69	13.5	463	71	10.7	0.6	0.9	1.1
750	138	618	64	18.2	530	69	13.4	471	71	10.6	0.6	0.9	1.1
750	207	628	64	18.0	539	68	13.3	479	71	10.5	0.6	0.9	1.1
1000	69	667	67	18.4	567	70	13.4	501	72	10.5	0.7	0.9	1.2
1000	103	689	66	18.1	588	70	13.2	520	72	10.4	0.7	0.9	1.2
1000	138	703	65	17.9	600	69	13.1	532	72	10.3	0.7	0.9	1.2
1000	207	717	65	17.7	613	69	12.9	544	71	10.2	0.7	0.9	1.2
1250	69	723	68	18.2	613	71	13.2	540	73	10.3	0.7	1.0	1.3
1250	103	752	67	17.9	639	71	13.0	564	73	10.2	0.7	1.0	1.3
1250	138	769	66	17.7	655	70	12.9	579	72	10.1	0.7	1.0	1.3
1250	207	788	66	17.5	672	70	12.8	595	72	10.1	0.7	1.0	1.3
1500	69	768	68	18.1	649	72	13.0	571	74	10.1	0.7	1.0	1.3
1500	103	802	68	17.8	679	71	12.8	599	73	10.0	0.7	1.0	1.3
1500	138	823	67	17.6	698	71	12.7	616	73	9.9	0.7	1.0	1.3
1500	207	845	67	17.3	719	70	12.6	635	72	9.9	0.7	1.0	1.3
1750	69	803	69	17.9	677	72	12.8	596	74	10.0	0.8	1.1	1.4
1750	103	843	68	17.6	712	72	12.6	628	73	9.9	0.8	1.1	1.4
1750	138	867	68	17.4	734	71	12.5	647	73	9.8	0.8	1.1	1.4
1750	207	893	67	17.1	758	71	12.4	669	73	9.7	0.8	1.1	1.4
2000	69	834	70	17.8	702	73	12.7	617	74	9.8	0.8	1.1	1.4
2000	103	878	69	17.4	741	72	12.5	652	74	9.7	0.8	1.1	1.4
2000	138	904	68	17.2	765	72	12.4	674	73	9.6	0.8	1.1	1.4
2000	207	934	68	17.0	791	71	12.2	698	73	9.6	0.8	1.1	1.4
2250	69	857	70	17.6	721	73	12.5	633	75	9.7	0.8	1.1	1.5
2250	103	905	69	17.2	762	72	12.3	670	74	9.6	0.8	1.1	1.5
2250	138	934	69	17.0	788	72	12.2	694	74	9.5	0.8	1.1	1.5
2250	207	966	68	16.8	818	71	12.1	720	73	9.5	0.8	1.1	1.5
2500	69	879	70	17.4	738	73	12.3	647	75	9.5	0.8	1.2	1.5
2500	103	930	70	17.1	783	73	12.2	688	74	9.5	0.8	1.2	1.5
2500	138	962	69	16.9	811	72	12.1	713	74	9.4	0.8	1.2	1.5
2500	207	997	68	16.6	842	72	11.9	742	74	9.3	0.8	1.2	1.5

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115 to 138 kV Shielded Single Conductor Unfilled X L P E Power Cable

Direct Buried - Triplexed - Double Circuit

25°C Earth Ambient

Condr Size	Shield 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 .0010 pf & Rho 60	90	120
						75% LF							
						65°C - Copper Conductor - Concentric Strand							
750	69	589	51	18.0	514	54	13.7	461	57	11.1	0.6	0.9	1.1
750	103	604	51	17.6	528	54	13.5	476	56	11.0	0.6	0.9	1.1
750	138	613	50	17.3	537	54	13.3	484	56	10.8	0.6	0.9	1.1
750	207	623	50	17.1	546	53	13.2	493	56	10.8	0.6	0.9	1.1
1000	69	665	52	17.9	577	55	13.6	517	57	11.0	0.7	0.9	1.2
1000	103	687	52	17.5	598	55	13.4	537	57	10.8	0.7	0.9	1.2
1000	138	700	51	17.2	610	54	13.1	548	57	10.7	0.7	0.9	1.2
1000	207	714	51	17.0	624	54	13.0	561	56	10.6	0.7	0.9	1.2
1250	69	723	53	18.0	625	56	13.5	559	58	10.9	0.7	1.0	1.3
1250	103	751	52	17.5	651	55	13.3	583	57	10.7	0.7	1.0	1.3
1250	138	768	52	17.3	667	55	13.1	598	57	10.5	0.7	1.0	1.3
1250	207	786	51	16.9	685	55	12.9	615	57	10.5	0.7	1.0	1.3
1500	69	769	54	18.0	663	57	13.4	591	58	10.7	0.7	1.0	1.3
1500	103	803	53	17.6	694	56	13.2	620	58	10.6	0.7	1.0	1.3
1500	138	823	53	17.2	713	56	13.0	638	58	10.5	0.7	1.0	1.3
1500	207	845	52	16.9	734	55	12.8	658	57	10.3	0.7	1.0	1.3
1750	69	807	54	18.0	694	57	13.3	618	59	10.7	0.8	1.1	1.4
1750	103	846	54	17.5	730	56	13.1	651	58	10.5	0.8	1.1	1.4
1750	138	869	53	17.2	752	56	12.9	672	58	10.3	0.8	1.1	1.4
1750	207	895	52	16.9	776	56	12.7	694	57	10.2	0.8	1.1	1.4
2000	69	839	55	17.9	720	57	13.2	640	59	10.6	0.8	1.1	1.4
2000	103	882	54	17.4	759	57	13.0	677	59	10.4	0.8	1.1	1.4
2000	138	908	53	17.2	784	56	12.8	699	58	10.3	0.8	1.1	1.4
2000	207	937	53	16.8	811	56	12.6	725	58	10.1	0.8	1.1	1.4
2250	69	864	55	17.8	740	58	13.2	657	59	10.4	0.8	1.1	1.5
2250	103	910	54	17.3	782	57	12.9	697	59	10.3	0.8	1.1	1.5
2250	138	939	54	17.0	809	57	12.7	721	58	10.2	0.8	1.1	1.5
2250	207	971	53	16.7	839	56	12.5	749	58	10.0	0.8	1.1	1.5
2500	69	887	55	17.7	759	58	13.0	673	60	10.3	0.8	1.2	1.5
2500	103	937	55	17.3	804	57	12.8	716	59	10.2	0.8	1.2	1.5
2500	138	969	54	17.0	833	57	12.6	742	59	10.1	0.8	1.2	1.5
2500	207	1003	54	16.6	865	56	12.5	772	58	10.0	0.8	1.2	1.5

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1198

115 to 138 kV Shielded Single Conductor Unfilled X L P E Power Cable

Direct Buried - Triplexed - Double Circuit

25°C Earth Ambient

Condr Size	Shield 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 .0010 pf & Rho 60	90	120
						100% LF							
						65°C - Copper Conductor - Concentric Strand							
750	69	512	55	13.6	436	57	9.9	386	59	7.9	0.6	0.9	1.1
750	103	527	54	13.4	450	57	9.9	399	59	7.8	0.6	0.9	1.1
750	138	536	54	13.2	458	57	9.8	407	59	7.7	0.6	0.9	1.1
750	207	545	53	13.1	467	57	9.7	415	58	7.7	0.6	0.9	1.1
1000	69	574	55	13.4	487	58	9.7	430	60	7.6	0.7	0.9	1.2
1000	103	595	55	13.2	506	58	9.6	447	59	7.6	0.7	0.9	1.2
1000	138	607	55	13.1	518	57	9.5	458	59	7.5	0.7	0.9	1.2
1000	207	621	54	12.9	530	57	9.5	469	59	7.5	0.7	0.9	1.2
1250	69	621	56	13.3	525	59	9.6	462	60	7.5	0.7	1.0	1.3
1250	103	647	56	13.1	549	58	9.5	484	60	7.4	0.7	1.0	1.3
1250	138	663	55	12.9	563	58	9.4	497	60	7.4	0.7	1.0	1.3
1250	207	680	55	12.7	579	58	9.3	512	59	7.3	0.7	1.0	1.3
1500	69	657	57	13.2	554	59	9.5	488	60	7.4	0.7	1.0	1.3
1500	103	688	56	13.0	582	59	9.3	513	60	7.3	0.7	1.0	1.3
1500	138	707	56	12.8	599	58	9.3	529	60	7.2	0.7	1.0	1.3
1500	207	728	55	12.6	618	58	9.1	546	60	7.2	0.7	1.0	1.3
1750	69	687	57	13.1	579	60	9.3	508	61	7.3	0.8	1.1	1.4
1750	103	723	57	12.8	610	59	9.2	537	60	7.2	0.8	1.1	1.4
1750	138	745	56	12.7	630	59	9.1	554	60	7.2	0.8	1.1	1.4
1750	207	769	56	12.5	652	58	9.1	574	60	7.1	0.8	1.1	1.4
2000	69	712	58	13.0	598	60	9.3	525	61	7.1	0.8	1.1	1.4
2000	103	751	57	12.7	633	59	9.1	556	61	7.1	0.8	1.1	1.4
2000	138	775	57	12.6	654	59	9.0	576	60	7.0	0.8	1.1	1.4
2000	207	803	56	12.4	679	59	8.9	598	60	7.0	0.8	1.1	1.4
2250	69	731	58	12.9	613	60	9.1	537	61	7.0	0.8	1.1	1.5
2250	103	773	57	12.6	650	60	9.0	571	61	7.0	0.8	1.1	1.5
2250	138	800	57	12.4	674	59	8.9	592	61	6.9	0.8	1.1	1.5
2250	207	829	56	12.3	701	59	8.8	616	60	6.9	0.8	1.1	1.5
2500	69	749	58	12.7	627	60	9.0	549	61	7.0	0.8	1.2	1.5
2500	103	794	58	12.5	667	60	8.9	585	61	6.9	0.8	1.2	1.5
2500	138	823	57	12.3	692	59	8.8	608	61	6.8	0.8	1.2	1.5
2500	207	855	57	12.2	721	59	8.7	634	60	6.8	0.8	1.2	1.5

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115 to 138 kV Shielded Single Conductor Unfilled X L P E Power Cable

Direct Buried - Triplexed - Double Circuit

25°C Earth Ambient

Condr Size	Shield 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 .0010 pf & Rho 60	90	120
						75% LF							
						50°C - Copper Conductor - Concentric Strand							
750	69	470	42	11.3	409	44	8.6	367	45	7.0	0.6	0.9	1.1
750	103	484	41	11.0	422	43	8.5	379	45	6.8	0.6	0.9	1.1
750	138	491	41	10.8	429	43	8.3	386	44	6.8	0.6	0.9	1.1
750	207	500	41	10.7	438	43	8.2	394	44	6.7	0.6	0.9	1.1
1000	69	529	42	11.3	458	44	8.5	409	45	6.9	0.7	0.9	1.2
1000	103	548	42	11.0	476	44	8.3	426	45	6.7	0.7	0.9	1.2
1000	138	559	42	10.8	486	44	8.3	436	45	6.6	0.7	0.9	1.2
1000	207	571	41	10.6	498	43	8.1	447	45	6.6	0.7	0.9	1.2
1250	69	574	43	11.3	495	45	8.4	441	46	6.8	0.7	1.0	1.3
1250	103	597	42	11.0	517	44	8.3	461	45	6.7	0.7	1.0	1.3
1250	138	612	42	10.8	530	44	8.2	474	45	6.6	0.7	1.0	1.3
1250	207	628	42	10.6	545	44	8.1	488	45	6.5	0.7	1.0	1.3
1500	69	609	43	11.3	523	45	8.4	465	46	6.7	0.7	1.0	1.3
1500	103	637	43	11.0	549	45	8.2	489	46	6.6	0.7	1.0	1.3
1500	138	654	42	10.8	565	44	8.2	504	45	6.5	0.7	1.0	1.3
1500	207	673	42	10.6	583	44	8.0	521	45	6.4	0.7	1.0	1.3
1750	69	638	44	11.3	547	45	8.4	485	46	6.6	0.8	1.1	1.4
1750	103	670	43	11.0	576	45	8.2	513	46	6.5	0.8	1.1	1.4
1750	138	690	43	10.8	595	45	8.0	530	46	6.4	0.8	1.1	1.4
1750	207	712	42	10.5	615	44	7.9	549	45	6.4	0.8	1.1	1.4
2000	69	662	44	11.2	566	45	8.3	502	46	6.6	0.8	1.1	1.4
2000	103	697	43	10.9	598	45	8.1	532	46	6.5	0.8	1.1	1.4
2000	138	719	43	10.8	619	45	8.0	551	46	6.4	0.8	1.1	1.4
2000	207	744	43	10.5	642	45	7.9	572	46	6.3	0.8	1.1	1.4
2250	69	681	44	11.2	581	46	8.2	514	47	6.5	0.8	1.1	1.5
2250	103	719	44	10.9	616	45	8.1	547	46	6.4	0.8	1.1	1.5
2250	138	743	43	10.7	638	45	7.9	567	46	6.3	0.8	1.1	1.5
2250	207	770	43	10.4	663	45	7.8	590	46	6.2	0.8	1.1	1.5
2500	69	698	44	11.1	595	46	8.1	527	47	6.5	0.8	1.2	1.5
2500	103	740	44	10.9	632	45	8.0	561	46	6.3	0.8	1.2	1.5
2500	138	766	43	10.6	656	45	7.9	583	46	6.3	0.8	1.2	1.5
2500	207	795	43	10.4	683	45	7.8	608	46	6.2	0.8	1.2	1.5

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1200

115 to 138 kV Shielded Single Conductor Unfilled X L P E Power Cable

Direct Buried - Triplexed - Double Circuit

25°C Earth Ambient

Condr Size	Shield 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 .0010 pf & Rho 60	90	120
						100% LF							
						50°C - Copper Conductor - Concentric Strand							
750	69	409	44	8.6	348	45	6.3	307	46	4.9	0.6	0.9	1.1
750	103	421	43	8.5	359	45	6.2	318	46	4.9	0.6	0.9	1.1
750	138	429	43	8.3	366	45	6.1	324	46	4.9	0.6	0.9	1.1
750	207	437	43	8.2	374	45	6.1	331	46	4.8	0.6	0.9	1.1
1000	69	456	44	8.5	386	46	6.1	340	47	4.8	0.7	0.9	1.2
1000	103	474	44	8.3	403	46	6.0	355	47	4.7	0.7	0.9	1.2
1000	138	485	44	8.2	412	45	6.0	364	46	4.7	0.7	0.9	1.2
1000	207	497	43	8.1	423	45	5.9	374	46	4.7	0.7	0.9	1.2
1250	69	492	45	8.4	415	46	6.1	365	47	4.7	0.7	1.0	1.3
1250	103	514	44	8.2	435	46	6.0	383	47	4.7	0.7	1.0	1.3
1250	138	528	44	8.1	447	46	5.9	394	47	4.6	0.7	1.0	1.3
1250	207	543	44	8.0	461	46	5.8	407	47	4.6	0.7	1.0	1.3
1500	69	520	45	8.3	437	47	5.9	384	47	4.6	0.7	1.0	1.3
1500	103	546	45	8.2	461	46	5.9	405	47	4.6	0.7	1.0	1.3
1500	138	562	44	8.0	475	46	5.8	418	47	4.5	0.7	1.0	1.3
1500	207	580	44	7.9	491	46	5.7	433	47	4.5	0.7	1.0	1.3
1750	69	543	45	8.2	455	47	5.9	399	47	4.5	0.8	1.1	1.4
1750	103	572	45	8.0	482	46	5.8	422	47	4.5	0.8	1.1	1.4
1750	138	591	45	8.0	498	46	5.7	437	47	4.5	0.8	1.1	1.4
1750	207	611	44	7.9	517	46	5.7	454	47	4.5	0.8	1.1	1.4
2000	69	561	46	8.1	470	47	5.8	411	48	4.5	0.8	1.1	1.4
2000	103	594	45	8.0	499	47	5.7	437	47	4.5	0.8	1.1	1.4
2000	138	614	45	7.9	517	46	5.7	453	47	4.4	0.8	1.1	1.4
2000	207	637	45	7.8	537	46	5.6	472	47	4.4	0.8	1.1	1.4
2250	69	575	46	8.1	481	47	5.7	421	48	4.4	0.8	1.1	1.5
2250	103	610	45	7.9	512	47	5.6	448	48	4.4	0.8	1.1	1.5
2250	138	633	45	7.8	531	47	5.6	466	47	4.4	0.8	1.1	1.5
2250	207	658	45	7.7	554	46	5.5	486	47	4.3	0.8	1.1	1.5
2500	69	589	46	8.0	492	47	5.6	429	48	4.4	0.8	1.2	1.5
2500	103	626	46	7.8	524	47	5.6	459	48	4.3	0.8	1.2	1.5
2500	138	650	45	7.7	545	47	5.5	477	47	4.3	0.8	1.2	1.5
2500	207	677	45	7.6	569	46	5.5	499	47	4.3	0.8	1.2	1.5

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115 to 138 kV Shielded Single Conductor Unfilled X L P E Power Cable

Direct Buried - Triplexed - Double Circuit

25°C Earth Ambient

Condr Size	Shield 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
		Total Watts/ft					
90°C - Copper Conductor - Concentric Strand							
750	69	77.2	58.7	59.2	43.0	48.1	33.9
750	103	75.7	57.7	58.2	42.5	47.4	33.6
750	138	74.8	57.2	57.7	42.2	47.2	33.5
750	207	73.7	56.6	57.1	42.0	46.7	33.2
1000	69	81.8	61.3	62.0	44.5	50.1	35.0
1000	103	80.0	60.2	61.0	44.0	49.5	34.7
1000	138	78.8	59.5	60.3	43.7	49.0	34.4
1000	207	77.6	58.9	59.7	43.2	48.6	34.2
1250	69	85.2	63.2	64.2	45.7	51.7	35.7
1250	103	83.1	62.1	63.1	45.0	50.9	35.3
1250	138	81.9	61.4	62.3	44.8	50.4	35.1
1250	207	80.7	60.6	61.6	44.3	50.0	34.8
1500	69	88.2	64.8	66.1	46.6	52.9	36.4
1500	103	86.1	63.6	64.8	45.9	52.2	36.0
1500	138	84.5	62.9	64.1	45.6	51.6	35.8
1500	207	83.1	62.1	63.2	45.2	51.1	35.5
1750	69	90.8	66.2	67.7	47.3	54.0	36.9
1750	103	88.4	64.9	66.3	46.7	53.3	36.4
1750	138	87.0	64.2	65.5	46.3	52.7	36.3
1750	207	85.2	63.3	64.6	45.9	52.1	35.9
2000	69	92.9	67.3	68.9	48.0	55.0	37.3
2000	103	90.5	66.1	67.6	47.4	54.2	36.9
2000	138	89.0	65.3	66.9	46.9	53.6	36.7
2000	207	87.3	64.4	65.8	46.5	53.0	36.4
2250	69	94.8	68.3	70.2	48.6	55.9	37.7
2250	103	92.3	67.1	68.8	47.9	55.0	37.3
2250	138	90.7	66.3	68.0	47.6	54.5	37.1
2250	207	89.1	65.3	67.0	47.1	53.8	36.8
2500	69	96.6	69.3	71.3	49.1	56.6	38.1
2500	103	93.9	67.9	69.9	48.5	55.8	37.6
2500	138	92.3	67.1	69.0	48.0	55.1	37.4
2500	207	90.6	66.2	68.0	47.5	54.5	37.1

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115 to 138 kV Shielded Single Conductor Unfilled X L P E Power Cable

Direct Buried - Triplexed - Double Circuit

25°C Earth Ambient

Condr Size	Shield 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
		Total Watts/ft					
80°C - Copper Conductor - Concentric Strand							
750	69	65.6	49.9	50.2	36.5	40.9	28.8
750	103	64.3	49.1	49.4	36.1	40.3	28.6
750	138	63.5	48.5	49.0	35.9	40.0	28.4
750	207	62.6	48.0	48.5	35.5	39.5	28.2
1000	69	69.5	52.0	52.7	37.8	42.5	29.6
1000	103	67.9	51.0	51.8	37.4	41.9	29.4
1000	138	66.9	50.5	51.1	37.0	41.5	29.2
1000	207	65.8	49.9	50.6	36.6	41.1	29.0
1250	69	72.5	53.7	54.5	38.8	43.8	30.2
1250	103	70.6	52.7	53.5	38.2	43.1	29.9
1250	138	69.6	52.0	52.8	37.9	42.8	29.8
1250	207	68.3	51.4	52.2	37.6	42.3	29.6
1500	69	74.8	55.1	56.1	39.5	44.8	30.8
1500	103	73.0	54.0	54.9	38.9	44.1	30.5
1500	138	71.7	53.4	54.3	38.6	43.8	30.2
1500	207	70.4	52.5	53.5	38.3	43.2	30.0
1750	69	77.1	56.1	57.4	40.1	45.8	31.3
1750	103	75.0	55.1	56.2	39.6	45.1	31.0
1750	138	73.8	54.5	55.5	39.3	44.6	30.7
1750	207	72.4	53.7	54.7	38.9	44.1	30.5
2000	69	78.9	57.1	58.5	40.7	46.6	31.6
2000	103	76.7	56.1	57.3	40.2	45.8	31.3
2000	138	75.6	55.3	56.6	39.8	45.4	31.1
2000	207	73.9	54.5	55.8	39.3	44.9	30.8
2250	69	80.4	57.9	59.5	41.2	47.3	32.0
2250	103	78.3	56.9	58.3	40.6	46.5	31.6
2250	138	77.0	56.2	57.5	40.2	46.0	31.4
2250	207	75.5	55.3	56.7	39.9	45.5	31.1
2500	69	81.9	58.6	60.4	41.6	47.9	32.2
2500	103	79.8	57.6	59.2	41.1	47.2	31.9
2500	138	78.4	56.9	58.5	40.7	46.6	31.7
2500	207	76.9	56.1	57.5	40.2	46.2	31.5

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115 to 138 kV Shielded Single Conductor Unfilled X L P E Power Cable

Direct Buried - Triplexed - Double Circuit

25°C Earth Ambient

Condr Size	Shield 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
		Total Watts/ft					
65°C - Copper Conductor - Concentric Strand							
750	69	48.0	36.4	36.7	26.6	29.6	21.0
750	103	46.9	35.8	36.0	26.3	29.3	20.8
750	138	46.2	35.5	35.6	26.1	29.1	20.7
750	207	45.6	35.1	35.2	25.9	28.8	20.6
1000	69	50.9	38.1	38.5	27.6	31.0	21.7
1000	103	49.6	37.4	37.8	27.2	30.6	21.4
1000	138	48.9	36.9	37.3	27.1	30.2	21.3
1000	207	48.0	36.5	36.8	26.8	29.9	21.1
1250	69	53.0	39.3	39.8	28.3	31.9	22.0
1250	103	51.6	38.5	39.0	27.9	31.4	21.9
1250	138	50.8	38.0	38.5	27.6	31.1	21.7
1250	207	49.8	37.4	38.0	27.3	30.8	21.5
1500	69	54.7	40.2	40.9	28.8	32.6	22.5
1500	103	53.4	39.4	40.0	28.4	32.1	22.2
1500	138	52.4	38.9	39.5	28.1	31.8	22.1
1500	207	51.4	38.3	38.9	27.8	31.4	21.9
1750	69	56.3	41.0	41.8	29.4	33.3	22.8
1750	103	54.9	40.3	41.1	28.9	32.8	22.6
1750	138	53.8	39.8	40.5	28.7	32.5	22.3
1750	207	52.8	39.2	39.9	28.4	32.0	22.2
2000	69	57.6	41.7	42.7	29.7	33.9	23.1
2000	103	56.1	40.9	41.8	29.3	33.4	22.8
2000	138	55.1	40.4	41.3	29.0	33.0	22.7
2000	207	53.9	39.8	40.6	28.7	32.6	22.5
2250	69	58.8	42.3	43.4	30.0	34.4	23.3
2250	103	57.2	41.5	42.5	29.6	33.9	23.0
2250	138	56.2	41.0	41.9	29.4	33.5	22.9
2250	207	55.0	40.4	41.3	29.1	33.1	22.7
2500	69	59.8	42.9	44.0	30.3	34.8	23.5
2500	103	58.2	42.1	43.1	29.9	34.4	23.2
2500	138	57.3	41.6	42.6	29.7	34.0	23.1
2500	207	56.0	40.9	41.9	29.4	33.5	22.9

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115 to 138 kV Shielded Single Conductor Unfilled X L P E Power Cable

Direct Buried - Triplexed - Double Circuit

25°C Earth Ambient

Condr Size	Shield 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
		Total Watts/ft					
50°C - Copper Conductor - Concentric Strand							
750	69	30.1	22.9	22.9	16.8	18.6	13.2
750	103	29.5	22.5	22.6	16.5	18.3	13.1
750	138	29.0	22.2	22.2	16.4	18.1	13.0
750	207	28.6	22.0	22.1	16.3	18.0	12.9
1000	69	31.9	23.9	24.1	17.3	19.3	13.6
1000	103	31.1	23.4	23.6	17.1	19.1	13.4
1000	138	30.6	23.2	23.3	16.9	18.9	13.4
1000	207	30.0	22.9	23.0	16.8	18.7	13.3
1250	69	33.3	24.6	24.9	17.7	19.9	13.9
1250	103	32.3	24.1	24.4	17.5	19.6	13.7
1250	138	31.8	23.9	24.1	17.3	19.4	13.6
1250	207	31.2	23.5	23.7	17.2	19.1	13.5
1500	69	34.4	25.3	25.5	18.1	20.4	14.1
1500	103	33.4	24.8	25.0	17.9	20.0	14.0
1500	138	32.8	24.4	24.7	17.7	19.8	13.9
1500	207	32.2	24.1	24.3	17.5	19.6	13.8
1750	69	35.3	25.8	26.2	18.4	20.7	14.3
1750	103	34.4	25.3	25.6	18.2	20.5	14.1
1750	138	33.8	25.0	25.3	18.0	20.2	14.0
1750	207	33.0	24.5	24.8	17.8	20.0	13.9
2000	69	36.2	26.2	26.7	18.7	21.2	14.5
2000	103	35.2	25.8	26.1	18.4	20.8	14.3
2000	138	34.5	25.4	25.8	18.2	20.6	14.2
2000	207	33.8	25.0	25.4	18.0	20.3	14.1
2250	69	36.9	26.5	27.1	18.8	21.4	14.6
2250	103	35.8	26.0	26.5	18.6	21.1	14.4
2250	138	35.2	25.8	26.2	18.4	20.8	14.4
2250	207	34.4	25.4	25.7	18.2	20.6	14.2
2500	69	37.5	26.9	27.5	19.1	21.7	14.7
2500	103	36.5	26.4	26.9	18.8	21.4	14.6
2500	138	35.9	26.1	26.6	18.6	21.2	14.5
2500	207	35.0	25.7	26.1	18.4	20.9	14.4

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115 to 138 kV Shielded Single Conductor Unfilled X L P E Power Cable

Direct Buried - Triplexed - Double Circuit

25°C Earth Ambient

Condr Size	Sheath Res	OD	Wd	Rac	Qs	Ri	Rj	Re @ 90 Rho & loss factor 75%	100%
			90°C - Copper Conductor - Concentric Strand						
750	69	3.218	0.10	18.78	1.262	1.93	0.29	3.70	5.55
750	103	3.218	0.10	18.78	1.181	1.93	0.29	3.70	5.55
750	138	3.218	0.10	18.78	1.136	1.93	0.29	3.70	5.55
750	207	3.218	0.10	18.78	1.091	1.93	0.29	3.70	5.55
1000	69	3.407	0.11	14.57	1.338	1.76	0.27	3.62	5.47
1000	103	3.407	0.11	14.57	1.233	1.76	0.27	3.62	5.47
1000	138	3.407	0.11	14.57	1.175	1.76	0.27	3.62	5.47
1000	207	3.407	0.11	14.57	1.118	1.76	0.27	3.62	5.47
1250	69	3.540	0.12	12.15	1.403	1.64	0.26	3.57	5.42
1250	103	3.540	0.12	12.15	1.277	1.64	0.26	3.57	5.42
1250	138	3.540	0.12	12.15	1.209	1.64	0.26	3.57	5.42
1250	207	3.540	0.12	12.15	1.140	1.64	0.26	3.57	5.42
1500	69	3.660	0.13	10.59	1.460	1.54	0.25	3.52	5.37
1500	103	3.660	0.13	10.59	1.316	1.54	0.25	3.52	5.37
1500	138	3.660	0.13	10.59	1.238	1.54	0.25	3.52	5.37
1500	207	3.660	0.13	10.59	1.160	1.54	0.25	3.52	5.37
1750	69	3.770	0.13	9.52	1.509	1.46	0.24	3.48	5.33
1750	103	3.770	0.13	9.52	1.350	1.46	0.24	3.48	5.33
1750	138	3.770	0.13	9.52	1.264	1.46	0.24	3.48	5.33
1750	207	3.770	0.13	9.52	1.177	1.46	0.24	3.48	5.33
2000	69	3.873	0.14	8.71	1.554	1.39	0.24	3.44	5.29
2000	103	3.873	0.14	8.71	1.381	1.39	0.24	3.44	5.29
2000	138	3.873	0.14	8.71	1.287	1.39	0.24	3.44	5.29
2000	207	3.873	0.14	8.71	1.193	1.39	0.24	3.44	5.29
2250	69	3.968	0.15	8.16	1.589	1.34	0.23	3.41	5.26
2250	103	3.968	0.15	8.16	1.405	1.34	0.23	3.41	5.26
2250	138	3.968	0.15	8.16	1.305	1.34	0.23	3.41	5.26
2250	207	3.968	0.15	8.16	1.205	1.34	0.23	3.41	5.26
2500	69	4.059	0.15	7.68	1.624	1.29	0.22	3.37	5.23
2500	103	4.059	0.15	7.68	1.429	1.29	0.22	3.37	5.23
2500	138	4.059	0.15	7.68	1.323	1.29	0.22	3.37	5.23
2500	207	4.059	0.15	7.68	1.217	1.29	0.22	3.37	5.23

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1206

115 to 138 kV Shielded Single Conductor Unfilled X L P E Power Cable

Direct Buried - Triplexed - Double Circuit

25°C Earth Ambient

Condr Size	Sheath Res	OD	Wd	Rac	Qs	Ri	Rj	Re @ 90 Rho & loss factor 75%	100%
			80°C - Copper Conductor - Concentric Strand						
750	69	3.218	0.10	18.78	1.262	1.93	0.29	3.70	5.55
750	103	3.218	0.10	18.78	1.181	1.93	0.29	3.70	5.55
750	138	3.218	0.10	18.78	1.136	1.93	0.29	3.70	5.55
750	207	3.218	0.10	18.78	1.091	1.93	0.29	3.70	5.55
1000	69	3.407	0.11	14.57	1.338	1.76	0.27	3.62	5.47
1000	103	3.407	0.11	14.57	1.233	1.76	0.27	3.62	5.47
1000	138	3.407	0.11	14.57	1.175	1.76	0.27	3.62	5.47
1000	207	3.407	0.11	14.57	1.118	1.76	0.27	3.62	5.47
1250	69	3.540	0.12	12.15	1.403	1.64	0.26	3.57	5.42
1250	103	3.540	0.12	12.15	1.277	1.64	0.26	3.57	5.42
1250	138	3.540	0.12	12.15	1.209	1.64	0.26	3.57	5.42
1250	207	3.540	0.12	12.15	1.140	1.64	0.26	3.57	5.42
1500	69	3.660	0.13	10.59	1.460	1.54	0.25	3.52	5.37
1500	103	3.660	0.13	10.59	1.316	1.54	0.25	3.52	5.37
1500	138	3.660	0.13	10.59	1.238	1.54	0.25	3.52	5.37
1500	207	3.660	0.13	10.59	1.160	1.54	0.25	3.52	5.37
1750	69	3.770	0.13	9.52	1.509	1.46	0.24	3.48	5.33
1750	103	3.770	0.13	9.52	1.350	1.46	0.24	3.48	5.33
1750	138	3.770	0.13	9.52	1.264	1.46	0.24	3.48	5.33
1750	207	3.770	0.13	9.52	1.177	1.46	0.24	3.48	5.33
2000	69	3.873	0.14	8.71	1.554	1.39	0.24	3.44	5.29
2000	103	3.873	0.14	8.71	1.381	1.39	0.24	3.44	5.29
2000	138	3.873	0.14	8.71	1.287	1.39	0.24	3.44	5.29
2000	207	3.873	0.14	8.71	1.193	1.39	0.24	3.44	5.29
2250	69	3.968	0.15	8.16	1.589	1.34	0.23	3.41	5.26
2250	103	3.968	0.15	8.16	1.405	1.34	0.23	3.41	5.26
2250	138	3.968	0.15	8.16	1.305	1.34	0.23	3.41	5.26
2250	207	3.968	0.15	8.16	1.205	1.34	0.23	3.41	5.26
2500	69	4.059	0.15	7.68	1.624	1.29	0.22	3.37	5.23
2500	103	4.059	0.15	7.68	1.429	1.29	0.22	3.37	5.23
2500	138	4.059	0.15	7.68	1.323	1.29	0.22	3.37	5.23
2500	207	4.059	0.15	7.68	1.217	1.29	0.22	3.37	5.23

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115 to 138 kV Shielded Single Conductor Unfilled X L P E Power Cable

Direct Buried - Triplexed - Double Circuit

25°C Earth Ambient

Condr Size	Sheath Res	OD	Wd	Rac	Qs	Ri	Rj	Re @ 90 Rho & loss factor 75%	100%
			65°C - Copper Conductor - Concentric Strand						
750	69	3.218	0.10	18.78	1.262	1.93	0.29	3.70	5.55
750	103	3.218	0.10	18.78	1.181	1.93	0.29	3.70	5.55
750	138	3.218	0.10	18.78	1.136	1.93	0.29	3.70	5.55
750	207	3.218	0.10	18.78	1.091	1.93	0.29	3.70	5.55
1000	69	3.407	0.11	14.57	1.338	1.76	0.27	3.62	5.47
1000	103	3.407	0.11	14.57	1.233	1.76	0.27	3.62	5.47
1000	138	3.407	0.11	14.57	1.175	1.76	0.27	3.62	5.47
1000	207	3.407	0.11	14.57	1.118	1.76	0.27	3.62	5.47
1250	69	3.540	0.12	12.15	1.403	1.64	0.26	3.57	5.42
1250	103	3.540	0.12	12.15	1.277	1.64	0.26	3.57	5.42
1250	138	3.540	0.12	12.15	1.209	1.64	0.26	3.57	5.42
1250	207	3.540	0.12	12.15	1.140	1.64	0.26	3.57	5.42
1500	69	3.660	0.13	10.59	1.460	1.54	0.25	3.52	5.37
1500	103	3.660	0.13	10.59	1.316	1.54	0.25	3.52	5.37
1500	138	3.660	0.13	10.59	1.238	1.54	0.25	3.52	5.37
1500	207	3.660	0.13	10.59	1.160	1.54	0.25	3.52	5.37
1750	69	3.770	0.13	9.52	1.509	1.46	0.24	3.48	5.33
1750	103	3.770	0.13	9.52	1.350	1.46	0.24	3.48	5.33
1750	138	3.770	0.13	9.52	1.264	1.46	0.24	3.48	5.33
1750	207	3.770	0.13	9.52	1.177	1.46	0.24	3.48	5.33
2000	69	3.873	0.14	8.71	1.554	1.39	0.24	3.44	5.29
2000	103	3.873	0.14	8.71	1.381	1.39	0.24	3.44	5.29
2000	138	3.873	0.14	8.71	1.287	1.39	0.24	3.44	5.29
2000	207	3.873	0.14	8.71	1.193	1.39	0.24	3.44	5.29
2250	69	3.968	0.15	8.16	1.589	1.34	0.23	3.41	5.26
2250	103	3.968	0.15	8.16	1.405	1.34	0.23	3.41	5.26
2250	138	3.968	0.15	8.16	1.305	1.34	0.23	3.41	5.26
2250	207	3.968	0.15	8.16	1.205	1.34	0.23	3.41	5.26
2500	69	4.059	0.15	7.68	1.624	1.29	0.22	3.37	5.23
2500	103	4.059	0.15	7.68	1.429	1.29	0.22	3.37	5.23
2500	138	4.059	0.15	7.68	1.323	1.29	0.22	3.37	5.23
2500	207	4.059	0.15	7.68	1.217	1.29	0.22	3.37	5.23

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1208

115 to 138 kV Shielded Single Conductor Unfilled X L P E Power Cable

Direct Buried - Triplexed - Double Circuit

25°C Earth Ambient

Condr Size	Sheath Res	OD	Wd	Rac	Qs	Ri	Rj	Re @ 90 Rho & loss factor 75%	Re @ 90 Rho & loss factor 100%
			50°C - Copper Conductor - Concentric Strand						
750	69	3.218	0.10	18.78	1.262	1.93	0.29	3.70	5.55
750	103	3.218	0.10	18.78	1.181	1.93	0.29	3.70	5.55
750	138	3.218	0.10	18.78	1.136	1.93	0.29	3.70	5.55
750	207	3.218	0.10	18.78	1.091	1.93	0.29	3.70	5.55
1000	69	3.407	0.11	14.57	1.338	1.76	0.27	3.62	5.47
1000	103	3.407	0.11	14.57	1.233	1.76	0.27	3.62	5.47
1000	138	3.407	0.11	14.57	1.175	1.76	0.27	3.62	5.47
1000	207	3.407	0.11	14.57	1.118	1.76	0.27	3.62	5.47
1250	69	3.540	0.12	12.15	1.403	1.64	0.26	3.57	5.42
1250	103	3.540	0.12	12.15	1.277	1.64	0.26	3.57	5.42
1250	138	3.540	0.12	12.15	1.209	1.64	0.26	3.57	5.42
1250	207	3.540	0.12	12.15	1.140	1.64	0.26	3.57	5.42
1500	69	3.660	0.13	10.59	1.460	1.54	0.25	3.52	5.37
1500	103	3.660	0.13	10.59	1.316	1.54	0.25	3.52	5.37
1500	138	3.660	0.13	10.59	1.238	1.54	0.25	3.52	5.37
1500	207	3.660	0.13	10.59	1.160	1.54	0.25	3.52	5.37
1750	69	3.770	0.13	9.52	1.509	1.46	0.24	3.48	5.33
1750	103	3.770	0.13	9.52	1.350	1.46	0.24	3.48	5.33
1750	138	3.770	0.13	9.52	1.264	1.46	0.24	3.48	5.33
1750	207	3.770	0.13	9.52	1.177	1.46	0.24	3.48	5.33
2000	69	3.873	0.14	8.71	1.554	1.39	0.24	3.44	5.29
2000	103	3.873	0.14	8.71	1.381	1.39	0.24	3.44	5.29
2000	138	3.873	0.14	8.71	1.287	1.39	0.24	3.44	5.29
2000	207	3.873	0.14	8.71	1.193	1.39	0.24	3.44	5.29
2250	69	3.968	0.15	8.16	1.589	1.34	0.23	3.41	5.26
2250	103	3.968	0.15	8.16	1.405	1.34	0.23	3.41	5.26
2250	138	3.968	0.15	8.16	1.305	1.34	0.23	3.41	5.26
2250	207	3.968	0.15	8.16	1.205	1.34	0.23	3.41	5.26
2500	69	4.059	0.15	7.68	1.624	1.29	0.22	3.37	5.23
2500	103	4.059	0.15	7.68	1.429	1.29	0.22	3.37	5.23
2500	138	4.059	0.15	7.68	1.323	1.29	0.22	3.37	5.23
2500	207	4.059	0.15	7.68	1.217	1.29	0.22	3.37	5.23

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115 to 138 kV Shielded Single Conductor Unfilled X L P E Power Cable

Direct Buried - 1 Circuit - Three Cables - Spaced

25°C Earth Ambient

Condr Size	Shield 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 .0010 pf & Rho 60	90	120
						75% LF							
						90°C - Copper Conductor - Concentric Strand							
750	69	765	61	32.4	679	67	25.5	618	71	21.1	0.3	0.5	0.6
750	103	798	60	30.7	712	66	24.6	649	70	20.4	0.3	0.5	0.6
750	138	826	59	29.3	740	65	23.5	676	69	19.7	0.3	0.5	0.6
750	207	864	57	27.3	778	64	22.2	713	68	18.6	0.3	0.5	0.6
750	Open	957	52	20.5	873	59	17.1	808	63	14.6	0.4	0.5	0.6
1000	69	848	64	33.5	748	70	26.1	677	73	21.4	0.4	0.5	0.6
1000	103	893	62	32.0	791	68	25.0	718	72	20.6	0.4	0.5	0.6
1000	138	931	61	30.4	828	67	24.0	753	71	20.0	0.4	0.5	0.6
1000	207	983	59	28.3	879	66	22.5	803	70	18.8	0.4	0.5	0.6
1000	Open	1121	54	20.5	1018	60	16.9	940	64	14.5	0.4	0.5	0.6
1250	69	912	66	34.4	799	71	26.5	721	75	21.6	0.4	0.5	0.6
1250	103	966	64	32.8	851	70	25.5	770	74	20.8	0.4	0.5	0.6
1250	138	1013	63	31.3	896	69	24.5	813	73	20.2	0.4	0.5	0.6
1250	207	1078	61	29.0	959	67	23.0	873	71	19.1	0.4	0.5	0.6
1250	Open	1260	55	20.6	1141	61	16.9	1051	65	14.4	0.4	0.5	0.7
1500	Open	1380	55	20.7	1246	62	16.9	1146	66	14.3	0.4	0.6	0.7
1750	Open	1484	56	20.7	1337	63	16.8	1227	67	14.2	0.4	0.6	0.7
2000	Open	1577	57	20.7	1418	63	16.8	1300	67	14.1	0.4	0.6	0.8
2250	Open	1653	57	20.7	1484	64	16.7	1359	68	14.1	0.5	0.6	0.8
2500	Open	1726	58	20.7	1547	64	16.7	1415	68	13.9	0.5	0.6	0.8

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1210

115 to 138 kV Shielded Single Conductor Unfilled X L P E Power Cable

Direct Buried - 1 Circuit - Three Cables - Spaced

25°C Earth Ambient

Condr Size	Shield Res	60 Rho Interface Temp Amps	60 Rho Interface Temp °C	60 Rho Interface Temp Flux w/ft²	90 Rho Interface Temp Amps	90 Rho Interface Temp °C	90 Rho Interface Temp Flux w/ft²	120 Rho Interface Temp Amps	120 Rho Interface Temp °C	120 Rho Interface Temp Flux w/ft²	delta Td for .0010 pf & Rho 60	90	120
						100% LF							
						90°C - Copper Conductor - Concentric Strand							
750	69	684	67	25.9	594	73	19.6	532	77	15.8	0.3	0.5	0.6
750	103	716	66	24.8	624	72	18.9	561	76	15.3	0.3	0.5	0.6
750	138	744	65	23.7	651	72	18.3	585	75	14.7	0.3	0.5	0.6
750	207	779	64	22.2	683	70	17.1	615	74	13.9	0.3	0.5	0.6
750	Open	874	59	17.1	779	65	13.7	709	69	11.3	0.4	0.5	0.6
1000	69	752	70	26.5	649	75	19.7	579	78	15.7	0.4	0.5	0.6
1000	103	795	68	25.3	688	74	19.1	616	77	15.2	0.4	0.5	0.6
1000	138	832	68	24.2	723	73	18.4	648	77	14.8	0.4	0.5	0.6
1000	207	882	66	22.8	769	72	17.3	690	75	13.9	0.4	0.5	0.6
1000	Open	1019	60	16.9	905	66	13.3	821	70	11.1	0.4	0.5	0.6
1250	69	803	71	26.8	690	76	19.7	613	79	15.6	0.4	0.5	0.6
1250	103	855	70	25.7	737	75	19.1	657	78	15.2	0.4	0.5	0.6
1250	138	900	69	24.7	778	74	18.5	696	78	14.8	0.4	0.5	0.6
1250	207	963	68	23.2	836	73	17.5	748	77	14.0	0.4	0.5	0.6
1250	Open	1141	61	16.9	1010	67	13.3	915	71	10.9	0.4	0.5	0.7
1500	Open	1245	62	16.9	1099	68	13.1	994	72	10.7	0.4	0.6	0.7
1750	Open	1335	63	16.8	1176	69	13.1	1062	73	10.6	0.4	0.6	0.7
2000	Open	1416	63	16.8	1244	69	12.9	1122	73	10.6	0.4	0.6	0.8
2250	Open	1481	64	16.7	1299	70	12.8	1170	74	10.5	0.5	0.6	0.8
2500	Open	1543	64	16.6	1351	70	12.7	1216	74	10.4	0.5	0.6	0.8

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115 to 138 kV Shielded Single Conductor Unfilled X L P E Power Cable

Direct Buried - 1 Circuit - Three Cables - Spaced

25°C Earth Ambient

Condr Size	Shield 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 .0010 pf & Rho 60	90	120
						75% LF							
						80°C - Copper Conductor - Concentric Strand							
750	69	701	56	27.9	621	61	22.0	564	65	18.2	0.3	0.5	0.6
750	103	731	55	26.7	651	60	21.1	592	64	17.6	0.3	0.5	0.6
750	138	758	54	25.4	677	59	20.3	618	63	17.0	0.3	0.5	0.6
750	207	795	53	23.6	715	58	19.1	655	62	16.0	0.3	0.5	0.6
750	Open	893	48	17.3	814	54	14.5	753	57	12.3	0.4	0.5	0.6
1000	69	775	58	28.9	682	63	22.4	616	66	18.3	0.4	0.5	0.6
1000	103	815	57	27.6	720	62	21.5	653	65	17.7	0.4	0.5	0.6
1000	138	851	56	26.3	755	61	20.7	686	64	17.2	0.4	0.5	0.6
1000	207	902	54	24.4	805	60	19.5	734	63	16.3	0.4	0.5	0.6
1000	Open	1045	49	17.4	949	55	14.4	876	58	12.2	0.4	0.5	0.6
1250	69	830	60	29.7	727	65	22.8	655	68	18.5	0.4	0.5	0.6
1250	103	879	59	28.4	772	64	21.9	698	67	17.9	0.4	0.5	0.6
1250	138	923	58	27.1	815	63	21.0	738	66	17.3	0.4	0.5	0.6
1250	207	986	56	25.1	875	61	19.9	796	64	16.4	0.4	0.5	0.6
1250	Open	1173	50	17.5	1062	55	14.4	978	59	12.2	0.4	0.5	0.7
1500	Open	1284	51	17.5	1159	56	14.3	1066	60	12.1	0.4	0.6	0.7
1750	Open	1379	51	17.5	1243	57	14.3	1141	60	12.1	0.4	0.6	0.7
2000	Open	1465	52	17.6	1317	57	14.2	1208	61	11.9	0.4	0.6	0.8
2250	Open	1535	52	17.5	1378	58	14.2	1261	61	11.9	0.5	0.6	0.8
2500	Open	1602	53	17.5	1436	58	14.1	1313	62	11.9	0.5	0.6	0.8

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1212

115 to 138 kV Shielded Single Conductor Unfilled X L P E Power Cable

Direct Buried - 1 Circuit - Three Cables - Spaced

25°C Earth Ambient

Condr Size	Shield 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 .0010 pf & Rho 60	90	120
						100% LF							
						80°C - Copper Conductor - Concentric Strand							
750	69	626	61	22.3	543	66	16.7	486	69	13.4	0.3	0.5	0.6
750	103	655	60	21.4	570	65	16.3	511	68	13.1	0.3	0.5	0.6
750	138	681	60	20.5	595	65	15.7	535	68	12.7	0.3	0.5	0.6
750	207	717	59	19.2	628	64	14.7	565	67	12.0	0.3	0.5	0.6
750	Open	816	53	14.5	727	59	11.5	662	63	9.6	0.4	0.5	0.6
1000	69	686	63	22.6	591	68	16.8	526	70	13.5	0.4	0.5	0.6
1000	103	724	62	21.9	626	67	16.4	559	69	13.0	0.4	0.5	0.6
1000	138	759	61	21.0	658	66	15.8	589	69	12.7	0.4	0.5	0.6
1000	207	808	60	19.6	704	65	14.9	631	68	12.0	0.4	0.5	0.6
1000	Open	950	55	14.4	843	60	11.3	765	64	9.3	0.4	0.5	0.6
1250	69	731	65	23.0	626	69	16.9	556	71	13.4	0.4	0.5	0.6
1250	103	776	63	22.1	668	68	16.4	595	70	13.1	0.4	0.5	0.6
1250	138	818	63	21.3	706	67	15.9	630	70	12.7	0.4	0.5	0.6
1250	207	879	62	20.0	763	66	15.1	682	69	12.1	0.4	0.5	0.6
1250	Open	1063	55	14.4	940	61	11.2	852	64	9.3	0.4	0.5	0.7
1500	Open	1159	56	14.3	1022	61	11.2	925	65	9.2	0.4	0.6	0.7
1750	Open	1242	57	14.2	1093	62	11.0	987	65	9.0	0.4	0.6	0.7
2000	Open	1316	57	14.2	1156	63	10.9	1042	66	9.0	0.4	0.6	0.8
2250	Open	1375	58	14.2	1206	63	10.9	1086	66	8.9	0.5	0.6	0.8
2500	Open	1432	58	14.0	1254	63	10.8	1128	67	8.8	0.5	0.6	0.8

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115 to 138 kV Shielded Single Conductor Unfilled X L P E Power Cable

Direct Buried - 1 Circuit - Three Cables - Spaced

25°C Earth Ambient

Condr Size	Shield 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 .0010 pf & Rho 60	90	120
						75% LF							
						65°C - Copper Conductor - Concentric Strand							
750	69	594	48	20.9	525	52	16.3	476	54	13.4	0.3	0.5	0.6
750	103	618	48	20.1	548	51	15.8	498	54	13.1	0.3	0.5	0.6
750	138	642	47	19.2	571	51	15.2	520	53	12.7	0.3	0.5	0.6
750	207	677	46	17.8	606	50	14.4	554	52	12.0	0.3	0.5	0.6
750	Open	778	42	12.6	709	46	10.6	656	49	9.0	0.4	0.5	0.6
1000	69	653	50	21.5	573	53	16.6	517	56	13.6	0.4	0.5	0.6
1000	103	685	49	20.7	603	53	16.1	545	55	13.2	0.4	0.5	0.6
1000	138	716	48	19.8	633	52	15.6	574	54	12.8	0.4	0.5	0.6
1000	207	763	47	18.4	678	51	14.6	617	53	12.1	0.4	0.5	0.6
1000	Open	909	43	12.7	825	47	10.4	761	49	8.9	0.4	0.5	0.6
1250	69	697	51	22.0	608	54	16.8	547	56	13.6	0.4	0.5	0.6
1250	103	735	50	21.3	644	54	16.3	580	56	13.3	0.4	0.5	0.6
1250	138	773	49	20.4	680	53	15.8	614	55	12.9	0.4	0.5	0.6
1250	207	830	48	19.0	734	52	14.9	666	54	12.2	0.4	0.5	0.6
1250	Open	1019	43	12.7	923	47	10.5	849	50	8.8	0.4	0.5	0.7
1500	Open	1114	44	12.7	1005	48	10.4	924	50	8.8	0.4	0.6	0.7
1750	Open	1197	44	12.8	1078	48	10.3	988	51	8.7	0.4	0.6	0.7
2000	Open	1268	45	12.8	1140	49	10.4	1044	51	8.7	0.4	0.6	0.8
2250	Open	1327	45	12.8	1191	49	10.3	1089	52	8.7	0.5	0.6	0.8
2500	Open	1384	45	12.8	1240	49	10.3	1133	52	8.6	0.5	0.6	0.8

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115 to 138 kV Shielded Single Conductor Unfilled X L P E Power Cable

Direct Buried - 1 Circuit - Three Cables - Spaced

25°C Earth Ambient

Condr Size	Shield 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 .0010 pf & Rho 60	90	120
						100% LF							
						65°C - Copper Conductor - Concentric Strand							
750	69	529	52	16.5	457	55	12.5	409	57	10.0	0.3	0.5	0.6
750	103	552	51	16.0	479	55	12.1	429	57	9.7	0.3	0.5	0.6
750	138	575	51	15.4	501	54	11.8	449	56	9.5	0.3	0.5	0.6
750	207	610	50	14.5	533	54	11.0	478	56	8.9	0.3	0.5	0.6
750	Open	710	46	10.6	633	50	8.4	576	52	7.0	0.4	0.5	0.6
1000	69	577	53	16.8	495	56	12.4	441	58	9.9	0.4	0.5	0.6
1000	103	607	53	16.4	523	56	12.1	466	58	9.6	0.4	0.5	0.6
1000	138	637	52	15.7	551	55	11.8	492	57	9.4	0.4	0.5	0.6
1000	207	682	51	14.8	593	55	11.2	531	57	9.0	0.4	0.5	0.6
1000	Open	826	47	10.4	733	51	8.3	665	53	6.8	0.4	0.5	0.6
1250	69	612	54	17.0	523	57	12.5	464	59	9.8	0.4	0.5	0.6
1250	103	647	54	16.5	555	57	12.2	494	58	9.6	0.4	0.5	0.6
1250	138	683	53	16.0	588	56	11.9	524	58	9.4	0.4	0.5	0.6
1250	207	738	52	15.0	638	55	11.2	570	58	9.1	0.4	0.5	0.6
1250	Open	923	47	10.5	816	51	8.2	739	54	6.7	0.4	0.5	0.7
1500	Open	1005	48	10.4	886	52	8.1	801	54	6.7	0.4	0.6	0.7
1750	Open	1077	48	10.3	947	52	8.0	855	54	6.6	0.4	0.6	0.7
2000	Open	1139	49	10.4	1000	52	8.0	901	55	6.5	0.4	0.6	0.8
2250	Open	1189	49	10.3	1042	53	7.9	938	55	6.4	0.5	0.6	0.8
2500	Open	1238	49	10.3	1083	53	7.9	974	55	6.4	0.5	0.6	0.8

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115 to 138 kV Shielded Single Conductor Unfilled X L P E Power Cable

Direct Buried - 1 Circuit - Three Cables - Spaced

25°C Earth Ambient

Condr Size	Shield 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 .0010 pf & Rho 60	90	120
						75% LF							
						50°C - Copper Conductor - Concentric Strand							
750	69	466	40	13.3	410	42	10.3	371	44	8.5	0.3	0.5	0.6
750	103	482	40	12.9	426	42	10.1	386	43	8.3	0.3	0.5	0.6
750	138	501	39	12.5	444	41	9.9	404	43	8.1	0.3	0.5	0.6
750	207	531	38	11.6	473	41	9.3	432	42	7.7	0.3	0.5	0.6
750	Open	628	36	8.0	572	38	6.5	528	40	5.6	0.4	0.5	0.6
1000	69	509	41	13.8	445	43	10.5	401	44	8.5	0.4	0.5	0.6
1000	103	531	41	13.3	466	43	10.3	420	44	8.4	0.4	0.5	0.6
1000	138	556	40	12.9	489	42	10.0	442	44	8.2	0.4	0.5	0.6
1000	207	595	39	12.0	527	42	9.4	478	43	7.7	0.4	0.5	0.6
1000	Open	733	36	7.8	664	39	6.5	612	40	5.6	0.4	0.5	0.6
1250	69	541	42	14.0	471	44	10.7	422	45	8.6	0.4	0.5	0.6
1250	103	567	41	13.7	495	43	10.5	445	45	8.4	0.4	0.5	0.6
1250	138	597	41	13.2	522	43	10.1	471	44	8.2	0.4	0.5	0.6
1250	207	644	40	12.3	567	42	9.6	513	44	7.9	0.4	0.5	0.6
1250	Open	820	37	8.0	741	39	6.5	682	41	5.5	0.4	0.5	0.7
1500	Open	895	37	7.9	807	39	6.5	740	41	5.5	0.4	0.6	0.7
1750	Open	960	37	8.0	863	40	6.5	791	41	5.5	0.4	0.6	0.7
2000	Open	1016	37	8.0	912	40	6.5	834	42	5.4	0.4	0.6	0.8
2250	Open	1062	38	8.0	952	40	6.4	870	42	5.4	0.5	0.6	0.8
2500	Open	1107	38	8.0	990	40	6.4	904	42	5.4	0.5	0.6	0.8

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115 to 138 kV Shielded Single Conductor Unfilled X L P E Power Cable

Direct Buried - 1 Circuit - Three Cables - Spaced

25°C Earth Ambient

Condr Size	Shield 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 .0010 pf & Rho 60	90	120
						100% LF							
						50°C - Copper Conductor - Concentric Strand							
750	69	414	42	10.6	357	44	7.8	318	45	6.3	0.3	0.5	0.6
750	103	430	42	10.3	372	44	7.7	332	45	6.2	0.3	0.5	0.6
750	138	448	41	10.0	389	44	7.5	348	45	6.1	0.3	0.5	0.6
750	207	477	41	9.4	416	43	7.1	373	45	5.8	0.3	0.5	0.6
750	Open	573	38	6.6	510	41	5.2	464	42	4.4	0.4	0.5	0.6
1000	69	449	43	10.7	384	45	7.8	341	46	6.3	0.4	0.5	0.6
1000	103	469	43	10.4	403	45	7.7	358	46	6.2	0.4	0.5	0.6
1000	138	493	42	10.1	424	44	7.5	378	45	6.1	0.4	0.5	0.6
1000	207	530	42	9.5	459	44	7.2	410	45	5.7	0.4	0.5	0.6
1000	Open	666	39	6.5	590	41	5.2	535	43	4.3	0.4	0.5	0.6
1250	69	474	44	10.8	404	45	7.9	358	46	6.3	0.4	0.5	0.6
1250	103	498	43	10.6	426	45	7.8	378	46	6.2	0.4	0.5	0.6
1250	138	526	43	10.3	451	45	7.6	400	46	6.0	0.4	0.5	0.6
1250	207	570	42	9.7	492	44	7.2	438	46	5.7	0.4	0.5	0.6
1250	Open	743	39	6.6	656	41	5.2	593	43	4.2	0.4	0.5	0.7
1500	Open	808	39	6.5	711	42	5.1	642	43	4.2	0.4	0.6	0.7
1750	Open	864	40	6.5	759	42	5.1	684	44	4.2	0.4	0.6	0.7
2000	Open	912	40	6.5	800	42	5.0	720	44	4.0	0.4	0.6	0.8
2250	Open	952	40	6.4	833	42	5.0	749	44	4.0	0.5	0.6	0.8
2500	Open	990	40	6.4	864	43	4.9	776	44	4.0	0.5	0.6	0.8

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115 to 138 kV Shielded Single Conductor Unfilled X L P E Power Cable

Direct Buried - 1 Circuit - Three Cables - Spaced

25°C Earth Ambient

Condr Size	Shield 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
		Total Watts/ft					
90°C - Copper Conductor - Concentric Strand							
750	69	71.2	57.0	56.1	43.0	46.6	34.6
750	103	68.9	55.5	54.9	42.2	45.7	34.2
750	138	66.7	54.2	53.6	41.6	44.8	33.6
750	207	63.8	51.9	51.8	40.0	43.5	32.5
750	Open	51.6	43.1	43.0	34.3	36.9	28.5
1000	69	76.7	60.4	59.7	45.1	49.0	35.9
1000	103	74.4	59.1	58.5	44.3	48.2	35.6
1000	138	72.2	57.7	57.1	43.6	47.3	35.1
1000	207	68.9	55.5	55.1	42.3	46.1	34.1
1000	Open	54.5	45.1	45.0	35.6	38.4	29.4
1250	69	81.0	62.9	62.3	46.5	50.8	36.8
1250	103	78.6	61.6	61.1	45.9	50.1	36.5
1250	138	76.3	60.3	59.8	45.2	49.3	36.2
1250	207	72.9	58.3	57.8	44.0	48.0	35.3
1250	Open	56.9	46.7	46.7	36.7	39.7	30.2
1500	Open	58.9	48.0	48.1	37.5	40.8	30.8
1750	Open	60.7	49.2	49.3	38.3	41.6	31.3
2000	Open	62.3	50.3	50.4	38.9	42.4	31.7
2250	Open	63.7	51.2	51.4	39.5	43.2	32.1
2500	Open	65.0	52.0	52.3	40.0	43.8	32.5

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115 to 138 kV Shielded Single Conductor Unfilled X L P E Power Cable

Direct Buried - 1 Circuit - Three Cables - Spaced

25°C Earth Ambient

Condr Size	Shield 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
		Total Watts/ft					
80°C - Copper Conductor - Concentric Strand							
750	69	61.0	48.7	47.9	36.7	39.6	29.5
750	103	59.2	47.6	47.0	36.1	38.9	29.1
750	138	57.4	46.4	45.9	35.5	38.3	28.8
750	207	54.8	44.6	44.4	34.3	37.3	27.8
750	Open	43.7	36.5	36.4	29.1	31.2	24.2
1000	69	65.8	51.6	51.0	38.4	41.7	30.5
1000	103	63.9	50.5	50.0	37.9	41.2	30.3
1000	138	62.1	49.4	48.9	37.2	40.4	29.9
1000	207	59.3	47.6	47.3	36.2	39.4	29.2
1000	Open	46.1	38.2	38.1	30.1	32.5	24.9
1250	69	69.1	53.7	53.1	39.5	43.2	31.2
1250	103	67.4	52.6	52.1	39.1	42.6	31.1
1250	138	65.5	51.6	51.2	38.5	42.0	30.7
1250	207	62.7	49.9	49.4	37.7	41.0	30.2
1250	Open	48.1	39.6	39.5	31.0	33.5	25.5
1500	Open	49.9	40.7	40.7	31.7	34.5	26.1
1750	Open	51.3	41.7	41.8	32.4	35.3	26.5
2000	Open	52.7	42.6	42.7	33.0	36.0	26.9
2250	Open	53.8	43.3	43.5	33.4	36.5	27.2
2500	Open	54.9	44.0	44.2	33.8	37.1	27.5

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115 to 138 kV Shielded Single Conductor Unfilled X L P E Power Cable

Direct Buried - 1 Circuit - Three Cables - Spaced

25°C Earth Ambient

Condr Size	Shield 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
		Total Watts/ft					
65°C - Copper Conductor - Concentric Strand							
750	69	45.2	35.9	35.4	26.9	29.1	21.6
750	103	44.1	35.2	34.7	26.6	28.7	21.4
750	138	42.8	34.4	34.0	26.2	28.2	21.1
750	207	40.9	33.3	32.8	25.5	27.5	20.6
750	Open	31.8	26.5	26.4	21.1	22.7	17.5
1000	69	48.7	38.1	37.5	28.1	30.6	22.4
1000	103	47.6	37.4	36.9	27.9	30.2	22.2
1000	138	46.2	36.7	36.2	27.5	29.8	22.0
1000	207	44.2	35.4	35.0	26.8	29.0	21.6
1000	Open	33.5	27.8	27.7	21.9	23.6	18.1
1250	69	51.2	39.5	39.0	29.0	31.7	22.9
1250	103	50.0	38.9	38.5	28.7	31.3	22.8
1250	138	48.8	38.2	37.8	28.4	30.9	22.6
1250	207	46.7	37.0	36.6	27.7	30.2	22.2
1250	Open	35.0	28.8	28.8	22.6	24.4	18.6
1500	Open	36.3	29.6	29.6	23.1	25.1	18.9
1750	Open	37.4	30.3	30.4	23.5	25.6	19.3
2000	Open	38.3	31.0	31.0	24.0	26.1	19.5
2250	Open	39.2	31.5	31.6	24.3	26.5	19.8
2500	Open	40.0	32.1	32.2	24.7	27.0	20.0

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115 to 138 kV Shielded Single Conductor Unfilled X L P E Power Cable

Direct Buried - 1 Circuit - Three Cables - Spaced

25°C Earth Ambient

Condr Size	Shield 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
		Total Watts/ft					
50°C - Copper Conductor - Concentric Strand							
750	69	28.8	22.8	22.4	17.0	18.4	13.6
750	103	28.2	22.5	22.1	16.9	18.2	13.5
750	138	27.4	22.0	21.6	16.7	17.9	13.4
750	207	26.3	21.3	20.9	16.2	17.5	13.1
750	Open	19.9	16.6	16.5	13.2	14.1	11.0
1000	69	30.9	24.1	23.7	17.7	19.3	14.0
1000	103	30.3	23.7	23.4	17.6	19.1	14.0
1000	138	29.6	23.4	23.0	17.4	18.9	13.9
1000	207	28.4	22.6	22.3	17.0	18.4	13.6
1000	Open	21.0	17.4	17.3	13.7	14.7	11.3
1250	69	32.4	25.0	24.7	18.2	19.9	14.4
1250	103	31.8	24.6	24.3	18.1	19.7	14.3
1250	138	31.2	24.3	23.9	18.0	19.6	14.2
1250	207	29.9	23.5	23.3	17.6	19.1	14.0
1250	Open	21.9	18.0	17.9	14.1	15.2	11.6
1500	Open	22.7	18.6	18.5	14.5	15.6	11.9
1750	Open	23.3	19.0	18.9	14.7	16.0	12.0
2000	Open	23.9	19.4	19.4	15.0	16.3	12.2
2250	Open	24.5	19.7	19.7	15.2	16.6	12.4
2500	Open	25.0	20.1	20.1	15.4	16.8	12.5

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115 to 138 kV Shielded Single Conductor Unfilled X L P E Power Cable

Direct Buried - 1 Circuit - Three Cables - Spaced

25°C Earth Ambient

Condr Size	Sheath Res	OD	Wd	Rac	Qs	Ri	Rj	Re @ 90 Rho & loss 75%	Re @ 90 Rho & factor 100%
			90°C - Copper Conductor - Concentric Strand						
750	69	3.218	0.10	18.60	2.312	1.93	0.29	2.14	3.18
750	103	3.218	0.10	18.60	2.034	1.93	0.29	2.14	3.18
750	138	3.218	0.10	18.60	1.822	1.93	0.29	2.14	3.48
750	207	3.218	0.10	18.60	1.572	1.93	0.29	2.14	3.48
750	Open	3.218	0.10	18.60	1.005	1.93	0.29	2.33	3.48
1000	69	3.407	0.11	14.30	2.652	1.76	0.27	2.11	3.15
1000	103	3.407	0.11	14.30	2.295	1.76	0.27	2.11	3.15
1000	138	3.407	0.11	14.30	2.027	1.76	0.27	2.11	3.15
1000	207	3.407	0.11	14.30	1.714	1.76	0.27	2.11	3.46
1000	Open	3.407	0.11	14.30	1.008	1.76	0.27	2.30	3.46
1250	69	3.540	0.12	11.79	2.949	1.64	0.26	2.09	3.13
1250	103	3.540	0.12	11.79	2.521	1.64	0.26	2.09	3.13
1250	138	3.540	0.12	11.79	2.204	1.64	0.26	2.09	3.13
1250	207	3.540	0.12	11.79	1.835	1.64	0.26	2.09	3.44
1250	Open	3.540	0.12	11.79	1.010	1.64	0.26	2.28	3.44
1500	Open	3.660	0.13	10.16	1.012	1.54	0.25	2.27	3.42
1750	Open	3.770	0.13	9.03	1.015	1.46	0.24	2.25	3.41
2000	Open	3.873	0.14	8.18	1.018	1.39	0.24	2.24	3.40
2250	Open	3.968	0.15	7.60	1.020	1.34	0.23	2.23	3.38
2500	Open	4.059	0.15	7.10	1.022	1.29	0.22	2.22	3.37

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1222

115 to 138 kV Shielded Single Conductor Unfilled X L P E Power Cable

Direct Buried - 1 Circuit - Three Cables - Spaced

25°C Earth Ambient

Condr Size	Sheath Res	OD	Wd	Rac	Qs	Ri	Rj	Re @ 90 Rho & loss 75%	Re @ 90 Rho & loss factor 100%
			80°C - Copper Conductor - Concentric Strand						
750	69	3.218	0.10	18.60	2.312	1.93	0.29	2.14	3.18
750	103	3.218	0.10	18.60	2.034	1.93	0.29	2.14	3.18
750	138	3.218	0.10	18.60	1.822	1.93	0.29	2.14	3.48
750	207	3.218	0.10	18.60	1.572	1.93	0.29	2.14	3.48
750	Open	3.218	0.10	18.60	1.005	1.93	0.29	2.33	3.48
1000	69	3.407	0.11	14.30	2.652	1.76	0.27	2.11	3.15
1000	103	3.407	0.11	14.30	2.295	1.76	0.27	2.11	3.15
1000	138	3.407	0.11	14.30	2.027	1.76	0.27	2.11	3.15
1000	207	3.407	0.11	14.30	1.714	1.76	0.27	2.11	3.46
1000	Open	3.407	0.11	14.30	1.008	1.76	0.27	2.30	3.46
1250	69	3.540	0.12	11.79	2.949	1.64	0.26	2.09	3.13
1250	103	3.540	0.12	11.79	2.521	1.64	0.26	2.09	3.13
1250	138	3.540	0.12	11.79	2.204	1.64	0.26	2.09	3.13
1250	207	3.540	0.12	11.79	1.835	1.64	0.26	2.09	3.44
1250	Open	3.540	0.12	11.79	1.010	1.64	0.26	2.28	3.44
1500	Open	3.660	0.13	10.16	1.012	1.54	0.25	2.27	3.42
1750	Open	3.770	0.13	9.03	1.015	1.46	0.24	2.25	3.41
2000	Open	3.873	0.14	8.18	1.018	1.39	0.24	2.24	3.40
2250	Open	3.968	0.15	7.60	1.020	1.34	0.23	2.23	3.38
2500	Open	4.059	0.15	7.10	1.022	1.29	0.22	2.22	3.37

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115 to 138 kV Shielded Single Conductor Unfilled X L P E Power Cable

Direct Buried - 1 Circuit - Three Cables - Spaced

25°C Earth Ambient

Condr Size	Sheath Res	OD	Wd	Rac	Qs	Ri	Rj	Re @ 90 loss 75%	Rho & factor 100%
			65°C - Copper Conductor - Concentric Strand						
750	69	3.218	0.10	18.60	2.312	1.93	0.29	2.14	3.18
750	103	3.218	0.10	18.60	2.034	1.93	0.29	2.14	3.18
750	138	3.218	0.10	18.60	1.822	1.93	0.29	2.14	3.48
750	207	3.218	0.10	18.60	1.572	1.93	0.29	2.14	3.48
750	Open	3.218	0.10	18.60	1.005	1.93	0.29	2.33	3.48
1000	69	3.407	0.11	14.30	2.652	1.76	0.27	2.11	3.15
1000	103	3.407	0.11	14.30	2.295	1.76	0.27	2.11	3.15
1000	138	3.407	0.11	14.30	2.027	1.76	0.27	2.11	3.15
1000	207	3.407	0.11	14.30	1.714	1.76	0.27	2.11	3.46
1000	Open	3.407	0.11	14.30	1.008	1.76	0.27	2.30	3.46
1250	69	3.540	0.12	11.79	2.949	1.64	0.26	2.09	3.13
1250	103	3.540	0.12	11.79	2.521	1.64	0.26	2.09	3.13
1250	138	3.540	0.12	11.79	2.204	1.64	0.26	2.09	3.13
1250	207	3.540	0.12	11.79	1.835	1.64	0.26	2.09	3.44
1250	Open	3.540	0.12	11.79	1.010	1.64	0.26	2.28	3.44
1500	Open	3.660	0.13	10.16	1.012	1.54	0.25	2.27	3.42
1750	Open	3.770	0.13	9.03	1.015	1.46	0.24	2.25	3.41
2000	Open	3.873	0.14	8.18	1.018	1.39	0.24	2.24	3.40
2250	Open	3.968	0.15	7.60	1.020	1.34	0.23	2.23	3.38
2500	Open	4.059	0.15	7.10	1.022	1.29	0.22	2.22	3.37

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Not for Resale

115 to 138 kV Shielded Single Conductor Unfilled X L P E Power Cable

Direct Buried - 1 Circuit - Three Cables - Spaced

25°C Earth Ambient

Condr Size	Sheath Res	OD	Wd	Rac	Qs	Ri	Rj	Re @ 90 Rho & loss 75%	Re @ 90 Rho & factor 100%
			50°C - Copper Conductor - Concentric Strand						
750	69	3.218	0.10	18.60	2.312	1.93	0.29	2.14	3.18
750	103	3.218	0.10	18.60	2.034	1.93	0.29	2.14	3.18
750	138	3.218	0.10	18.60	1.822	1.93	0.29	2.14	3.48
750	207	3.218	0.10	18.60	1.572	1.93	0.29	2.14	3.48
750	Open	3.218	0.10	18.60	1.005	1.93	0.29	2.33	3.48
1000	69	3.407	0.11	14.30	2.652	1.76	0.27	2.11	3.15
1000	103	3.407	0.11	14.30	2.295	1.76	0.27	2.11	3.15
1000	138	3.407	0.11	14.30	2.027	1.76	0.27	2.11	3.15
1000	207	3.407	0.11	14.30	1.714	1.76	0.27	2.11	3.46
1000	Open	3.407	0.11	14.30	1.008	1.76	0.27	2.30	3.46
1250	69	3.540	0.12	11.79	2.949	1.64	0.26	2.09	3.13
1250	103	3.540	0.12	11.79	2.521	1.64	0.26	2.09	3.13
1250	138	3.540	0.12	11.79	2.204	1.64	0.26	2.09	3.13
1250	207	3.540	0.12	11.79	1.835	1.64	0.26	2.09	3.44
1250	Open	3.540	0.12	11.79	1.010	1.64	0.26	2.28	3.44
1500	Open	3.660	0.13	10.16	1.012	1.54	0.25	2.27	3.42
1750	Open	3.770	0.13	9.03	1.015	1.46	0.24	2.25	3.41
2000	Open	3.873	0.14	8.18	1.018	1.39	0.24	2.24	3.40
2250	Open	3.968	0.15	7.60	1.020	1.34	0.23	2.23	3.38
2500	Open	4.059	0.15	7.10	1.022	1.29	0.22	2.22	3.37

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115 to 138 kV Shielded Single Conductor Unfilled X L P E Power Cable

Direct Buried - 2 Circuits - Six Cables - Spaced

25°C Earth Ambient

Condr Size	Shield 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 .0010 pf & Rho 60	90	120
						75% LF							
						90°C - Copper Conductor - Concentric Strand							
750	69	693	66	28.0	607	72	21.5	546	75	17.4	0.4	0.6	0.7
750	103	725	65	26.8	637	71	20.8	574	74	16.9	0.4	0.6	0.7
750	138	754	64	25.8	664	69	19.9	600	73	16.4	0.4	0.6	0.7
750	207	793	62	24.1	702	68	18.9	637	72	15.5	0.4	0.6	0.7
750	Open	914	56	18.8	824	62	15.2	756	67	12.8	0.4	0.6	0.7
1000	69	763	69	28.7	662	74	21.8	594	77	17.5	0.4	0.6	0.8
1000	103	804	67	27.6	701	73	21.0	630	76	16.9	0.4	0.6	0.8
1000	138	842	66	26.3	737	72	20.2	663	75	16.5	0.4	0.6	0.8
1000	207	895	64	24.7	787	70	19.1	711	74	15.6	0.5	0.6	0.8
1000	Open	1068	57	18.6	959	63	15.0	878	68	12.7	0.5	0.6	0.8
1250	69	814	70	29.2	703	75	21.9	629	78	17.5	0.5	0.6	0.8
1250	103	864	69	28.1	750	74	21.1	672	77	17.0	0.5	0.6	0.8
1250	138	910	68	26.9	792	73	20.4	712	76	16.5	0.5	0.6	0.8
1250	207	975	66	25.1	853	71	19.3	769	75	15.6	0.5	0.6	0.8
1250	Open	1198	58	18.7	1072	64	15.0	981	69	12.6	0.5	0.6	0.8
1500	Open	1309	59	18.7	1169	65	14.9	1066	69	12.4	0.5	0.7	0.9
1750	Open	1406	60	18.6	1252	66	14.8	1141	70	12.4	0.5	0.7	0.9
2000	Open	1492	60	18.6	1327	67	14.8	1207	71	12.2	0.5	0.7	0.9
2250	Open	1562	61	18.6	1386	67	14.6	1260	71	12.1	0.5	0.7	1.0
2500	Open	1629	61	18.5	1443	68	14.6	1310	72	12.0	0.6	0.8	1.0

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115 to 138 kV Shielded Single Conductor Unfilled X L P E Power Cable

Direct Buried - 2 Circuits - Six Cables - Spaced

25°C Earth Ambient

Condr Size	Shield 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 .0010 pf & Rho 60	90	120
						100% LF							
						90°C - Copper Conductor - Concentric Strand							
750	69	606	72	21.5	520	77	15.8	462	79	12.5	0.4	0.6	0.7
750	103	636	71	20.7	548	76	15.4	487	79	12.2	0.4	0.6	0.7
750	138	663	70	19.9	572	75	14.8	510	78	11.9	0.4	0.6	0.7
750	207	701	68	18.9	607	73	14.1	544	77	11.4	0.4	0.6	0.7
750	Open	823	62	15.2	727	69	11.9	655	72	9.7	0.4	0.6	0.7
1000	69	661	74	21.6	563	78	15.7	499	81	12.3	0.4	0.6	0.8
1000	103	700	73	21.0	599	77	15.4	533	80	12.2	0.4	0.6	0.8
1000	138	735	72	20.2	632	77	14.9	560	79	11.8	0.4	0.6	0.8
1000	207	785	70	19.1	676	75	14.1	604	78	11.3	0.5	0.6	0.8
1000	Open	956	64	14.9	842	70	11.7	757	73	9.4	0.5	0.6	0.8
1250	69	703	75	21.8	596	79	15.8	526	82	12.3	0.5	0.6	0.8
1250	103	749	74	21.1	636	79	15.3	563	81	12.0	0.5	0.6	0.8
1250	138	790	73	20.3	676	78	14.9	598	80	11.7	0.5	0.6	0.8
1250	207	851	72	19.2	731	76	14.2	648	79	11.2	0.5	0.6	0.8
1250	Open	1068	65	14.9	938	71	11.4	840	74	9.3	0.5	0.6	0.8
1500	Open	1164	65	14.8	1019	71	11.4	912	75	9.1	0.5	0.7	0.9
1750	Open	1246	66	14.7	1085	72	11.1	973	76	9.0	0.5	0.7	0.9
2000	Open	1319	67	14.6	1147	73	11.0	1027	76	8.9	0.5	0.7	0.9
2250	Open	1379	67	14.5	1196	73	11.0	1070	76	8.8	0.5	0.7	1.0
2500	Open	1434	68	14.4	1243	73	10.8	1111	77	8.7	0.6	0.8	1.0

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115 to 138 kV Shielded Single Conductor Unfilled X L P E Power Cable

Direct Buried - 2 Circuits - Six Cables - Spaced

25°C Earth Ambient

Condr Size	Shield 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 .0010 pf & Rho 60	90	120
						75% LF							
						80°C - Copper Conductor - Concentric Strand							
750	69	635	60	24.1	554	65	18.4	498	68	15.0	0.4	0.6	0.7
750	103	663	59	23.1	581	64	17.8	523	67	14.5	0.4	0.6	0.7
750	138	690	58	22.2	606	63	17.2	547	66	14.0	0.4	0.6	0.7
750	207	728	57	20.8	643	62	16.3	583	65	13.4	0.4	0.6	0.7
750	Open	852	51	15.8	768	56	12.9	705	60	10.9	0.4	0.6	0.7
1000	69	696	62	24.7	603	67	18.6	541	69	14.9	0.4	0.6	0.8
1000	103	732	61	23.8	637	66	18.1	573	69	14.6	0.4	0.6	0.8
1000	138	767	60	22.8	670	65	17.4	603	68	14.1	0.4	0.6	0.8
1000	207	818	59	21.3	719	64	16.5	648	67	13.5	0.5	0.6	0.8
1000	Open	995	52	15.8	894	58	12.8	818	61	10.7	0.5	0.6	0.8
1250	69	740	64	25.0	639	68	18.7	571	70	15.0	0.5	0.6	0.8
1250	103	784	63	24.2	679	67	18.1	608	70	14.6	0.5	0.6	0.8
1250	138	827	62	23.2	718	66	17.6	645	69	14.1	0.5	0.6	0.8
1250	207	889	60	21.8	777	65	16.6	699	68	13.5	0.5	0.6	0.8
1250	Open	1115	53	15.8	998	58	12.7	912	62	10.6	0.5	0.6	0.8
1500	Open	1218	54	15.8	1087	59	12.6	992	63	10.5	0.5	0.7	0.9
1750	Open	1306	54	15.8	1164	60	12.6	1060	63	10.4	0.5	0.7	0.9
2000	Open	1386	55	15.8	1232	60	12.5	1120	64	10.4	0.5	0.7	0.9
2250	Open	1450	55	15.7	1287	61	12.4	1169	64	10.3	0.5	0.7	1.0
2500	Open	1511	56	15.7	1339	61	12.3	1215	64	10.2	0.6	0.8	1.0

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1228

115 to 138 kV Shielded Single Conductor Unfilled X L P E Power Cable

Direct Buried - 2 Circuits - Six Cables - Spaced

25°C Earth Ambient

Condr Size	Shield 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 .0010 pf & Rho 60	90	120
						100% LF							
						80°C - Copper Conductor - Concentric Strand							
750	69	554	65	18.4	475	69	13.5	422	71	10.7	0.4	0.6	0.7
750	103	580	64	17.8	499	68	13.2	444	71	10.4	0.4	0.6	0.7
750	138	606	63	17.2	522	68	12.8	466	70	10.2	0.4	0.6	0.7
750	207	643	62	16.3	556	66	12.2	497	69	9.7	0.4	0.6	0.7
750	Open	767	57	12.8	678	62	10.1	611	65	8.2	0.4	0.6	0.7
1000	69	603	67	18.6	514	70	13.5	454	73	10.5	0.4	0.6	0.8
1000	103	636	66	17.9	543	70	13.1	481	72	10.3	0.4	0.6	0.8
1000	138	669	65	17.4	573	69	12.8	509	71	10.1	0.4	0.6	0.8
1000	207	717	64	16.4	617	68	12.2	549	70	9.6	0.5	0.6	0.8
1000	Open	891	58	12.7	785	63	9.9	705	66	8.0	0.5	0.6	0.8
1250	69	638	68	18.7	541	71	13.5	477	73	10.5	0.5	0.6	0.8
1250	103	679	67	18.1	576	71	13.1	509	73	10.3	0.5	0.6	0.8
1250	138	718	66	17.6	611	70	12.7	541	72	10.0	0.5	0.6	0.8
1250	207	774	65	16.5	664	69	12.2	588	71	9.6	0.5	0.6	0.8
1250	Open	994	59	12.6	873	64	9.7	782	67	7.9	0.5	0.6	0.8
1500	Open	1083	59	12.5	945	64	9.6	848	67	7.7	0.5	0.7	0.9
1750	Open	1158	60	12.5	1008	65	9.4	904	68	7.6	0.5	0.7	0.9
2000	Open	1225	60	12.3	1065	65	9.4	954	68	7.5	0.5	0.7	0.9
2250	Open	1280	61	12.3	1110	66	9.2	993	69	7.4	0.5	0.7	1.0
2500	Open	1331	61	12.2	1153	66	9.2	1030	69	7.3	0.6	0.8	1.0

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115 to 138 kV Shielded Single Conductor Unfilled X L P E Power Cable

Direct Buried - 2 Circuits - Six Cables - Spaced

25°C Earth Ambient

Condr Size	Shield 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 .0010 pf & Rho 60	90	120
						75% LF							
						65°C - Copper Conductor - Concentric Strand							
750	69	537	51	17.9	467	55	13.7	420	57	11.0	0.4	0.6	0.7
750	103	559	51	17.3	488	54	13.3	439	56	10.8	0.4	0.6	0.7
750	138	582	50	16.7	510	53	12.8	459	56	10.4	0.4	0.6	0.7
750	207	617	49	15.7	543	52	12.1	491	55	10.0	0.4	0.6	0.7
750	Open	742	44	11.5	669	48	9.4	614	51	8.0	0.4	0.6	0.7
1000	69	585	53	18.3	506	56	13.7	453	58	11.0	0.4	0.6	0.8
1000	103	613	52	17.7	532	55	13.5	477	57	10.8	0.4	0.6	0.8
1000	138	643	51	17.2	560	55	13.0	503	57	10.5	0.4	0.6	0.8
1000	207	689	50	16.0	603	54	12.3	543	56	10.0	0.4	0.6	0.8
1000	Open	866	45	11.4	777	49	9.3	711	51	7.7	0.5	0.6	0.8
1250	69	620	54	18.6	534	57	13.8	476	58	11.0	0.5	0.6	0.8
1250	103	654	53	18.0	565	56	13.5	504	58	10.8	0.5	0.6	0.8
1250	138	689	52	17.4	597	56	13.1	536	57	10.6	0.5	0.6	0.8
1250	207	745	51	16.3	649	55	12.4	583	57	10.0	0.5	0.6	0.8
1250	Open	969	45	11.5	867	49	9.3	791	52	7.7	0.5	0.6	0.8
1500	Open	1056	46	11.5	943	50	9.2	859	52	7.6	0.5	0.7	0.9
1750	Open	1133	46	11.6	1009	50	9.1	918	53	7.6	0.5	0.7	0.9
2000	Open	1199	47	11.4	1065	51	9.1	968	53	7.5	0.5	0.7	0.9
2250	Open	1253	47	11.5	1111	51	9.0	1009	53	7.5	0.5	0.7	1.0
2500	Open	1305	48	11.4	1155	51	8.9	1048	54	7.4	0.6	0.8	1.0

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1230

115 to 138 kV Shielded Single Conductor Unfilled X L P E Power Cable

Direct Buried - 2 Circuits - Six Cables - Spaced

25°C Earth Ambient

Condr Size	Shield 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 .0010 pf & Rho 60	90	120
					100% LF								
					65°C - Copper Conductor - Concentric Strand								
750	69	467	55	13.7	400	57	10.0	354	59	7.8	0.4	0.6	0.7
750	103	488	54	13.3	418	57	9.7	371	59	7.7	0.4	0.6	0.7
750	138	510	53	12.8	438	56	9.5	389	58	7.6	0.4	0.6	0.7
750	207	543	52	12.1	468	56	9.0	418	58	7.2	0.4	0.6	0.7
750	Open	668	48	9.4	588	52	7.2	531	54	5.9	0.4	0.6	0.7
1000	69	506	56	13.7	429	58	9.9	379	60	7.7	0.4	0.6	0.8
1000	103	532	55	13.5	453	58	9.8	400	60	7.6	0.4	0.6	0.8
1000	138	559	55	13.0	478	57	9.5	423	59	7.5	0.4	0.6	0.8
1000	207	602	54	12.2	517	57	9.1	458	58	7.2	0.4	0.6	0.8
1000	Open	775	49	9.2	682	53	7.2	612	55	5.8	0.5	0.6	0.8
1250	69	534	57	13.8	451	59	9.8	397	60	7.7	0.5	0.6	0.8
1250	103	565	56	13.5	478	59	9.7	421	60	7.6	0.5	0.6	0.8
1250	138	597	56	13.1	507	58	9.5	448	60	7.4	0.5	0.6	0.8
1250	207	648	55	12.4	552	57	9.1	491	59	7.2	0.5	0.6	0.8
1250	Open	864	49	9.2	757	53	7.1	679	55	5.7	0.5	0.6	0.8
1500	Open	939	50	9.1	819	54	7.0	734	56	5.6	0.5	0.7	0.9
1750	Open	1004	50	9.0	874	54	6.9	783	56	5.6	0.5	0.7	0.9
2000	Open	1061	51	9.0	920	54	6.8	824	56	5.5	0.5	0.7	0.9
2250	Open	1106	51	9.0	958	55	6.7	857	57	5.4	0.5	0.7	1.0
2500	Open	1149	51	8.9	994	55	6.7	889	57	5.4	0.6	0.8	1.0

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115 to 138 kV Shielded Single Conductor Unfilled X L P E Power Cable

Direct Buried - 2 Circuits - Six Cables - Spaced

25°C Earth Ambient

Condr Size	Shield 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 .0010 pf & Rho 60	90	120
						75% LF							
						50°C - Copper Conductor - Concentric Strand							
750	69	420	42	11.4	365	44	8.7	326	45	6.9	0.4	0.6	0.7
750	103	435	41	11.2	378	44	8.5	339	45	6.9	0.4	0.6	0.7
750	138	453	41	10.8	395	43	8.3	355	44	6.6	0.4	0.6	0.7
750	207	482	40	10.1	423	43	7.8	381	44	6.4	0.4	0.6	0.7
750	Open	599	37	7.2	539	39	5.8	494	41	5.0	0.4	0.6	0.7
1000	69	456	43	11.7	393	45	8.6	351	46	7.0	0.4	0.6	0.8
1000	103	474	42	11.4	410	44	8.5	366	45	6.8	0.4	0.6	0.8
1000	138	497	42	11.0	431	44	8.3	386	45	6.7	0.4	0.6	0.8
1000	207	535	41	10.3	466	43	7.8	418	45	6.4	0.4	0.6	0.8
1000	Open	697	37	7.2	625	40	5.8	571	42	4.8	0.5	0.6	0.8
1250	69	481	43	11.8	413	45	8.7	367	46	6.9	0.5	0.6	0.8
1250	103	503	43	11.5	433	45	8.6	385	46	6.8	0.5	0.6	0.8
1250	138	530	43	11.2	458	44	8.4	409	46	6.7	0.5	0.6	0.8
1250	207	575	42	10.6	499	44	8.0	446	45	6.4	0.5	0.6	0.8
1250	Open	779	38	7.2	696	40	5.7	635	42	4.9	0.5	0.6	0.8
1500	Open	848	38	7.2	755	41	5.7	688	42	4.8	0.5	0.7	0.9
1750	Open	908	39	7.2	807	41	5.7	733	43	4.8	0.5	0.7	0.9
2000	Open	960	39	7.2	851	41	5.7	772	43	4.7	0.5	0.7	0.9
2250	Open	1002	39	7.1	888	41	5.7	804	43	4.6	0.5	0.7	1.0
2500	Open	1043	39	7.2	922	42	5.6	834	43	4.6	0.6	0.8	1.0

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1232

115 to 138 kV Shielded Single Conductor Unfilled X L P E Power Cable

Direct Buried - 2 Circuits - Six Cables - Spaced

25°C Earth Ambient

Condr Size	Shield Res	60 Rho Amps	60 Rho Interface Temp	60 Rho Flux w/ft²	90 Rho Amps	90 Rho Interface Temp	90 Rho Flux w/ft²	120 Rho Amps	120 Rho Interface Temp	120 Rho Flux w/ft²	delta Td for .0010 pf & Rho 60	90	120
						100% LF							
						50°C - Copper Conductor - Concentric Strand							
750	69	365	44	8.7	311	46	6.3	275	47	5.0	0.4	0.6	0.7
750	103	379	43	8.5	323	45	6.2	286	46	4.9	0.4	0.6	0.7
750	138	396	43	8.3	338	45	6.1	300	46	4.9	0.4	0.6	0.7
750	207	423	43	7.8	364	44	5.8	323	46	4.6	0.4	0.6	0.7
750	Open	539	39	5.8	474	42	4.5	427	43	3.7	0.4	0.6	0.7
1000	69	393	45	8.7	332	46	6.3	293	47	4.8	0.4	0.6	0.8
1000	103	410	44	8.5	348	46	6.2	307	47	4.8	0.4	0.6	0.8
1000	138	432	44	8.3	368	46	6.1	325	47	4.8	0.4	0.6	0.8
1000	207	466	43	7.8	398	45	5.8	352	46	4.6	0.4	0.6	0.8
1000	Open	624	40	5.7	547	42	4.5	492	44	3.6	0.5	0.6	0.8
1250	69	413	45	8.6	348	47	6.2	306	47	4.9	0.5	0.6	0.8
1250	103	433	45	8.5	365	46	6.2	322	47	4.7	0.5	0.6	0.8
1250	138	459	44	8.4	387	46	6.0	342	47	4.7	0.5	0.6	0.8
1250	207	499	44	8.0	425	46	5.8	376	47	4.5	0.5	0.6	0.8
1250	Open	695	40	5.7	606	43	4.4	544	44	3.6	0.5	0.6	0.8
1500	Open	754	41	5.7	656	43	4.4	588	44	3.5	0.5	0.7	0.9
1750	Open	805	41	5.7	700	43	4.4	626	45	3.4	0.5	0.7	0.9
2000	Open	849	41	5.6	736	43	4.2	658	45	3.5	0.5	0.7	0.9
2250	Open	885	41	5.6	765	44	4.2	683	45	3.4	0.5	0.7	1.0
2500	Open	919	42	5.6	794	44	4.2	707	45	3.4	0.6	0.8	1.0

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115 to 138 kV Shielded Single Conductor Unfilled X L P E Power Cable

Direct Buried - 2 Circuits - Six Cables - Spaced

25°C Earth Ambient

Condr Size	Shield 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
		Total Watts/ft					
90°C - Copper Conductor - Concentric Strand							
750	69	119.7	91.7	92.0	67.7	74.6	53.6
750	103	116.9	90.1	90.4	67.1	73.5	53.1
750	138	114.3	88.5	88.8	66.0	72.6	52.6
750	207	110.1	86.1	86.4	64.7	71.2	52.1
750	Open	94.2	76.5	76.7	59.8	64.6	48.7
1000	69	127.7	96.0	96.3	69.8	77.7	55.0
1000	103	124.6	94.6	94.9	69.5	76.8	55.1
1000	138	121.9	93.0	93.5	68.9	75.8	54.3
1000	207	117.5	90.5	91.0	67.3	74.4	53.9
1000	Open	99.1	79.5	80.0	61.8	67.2	50.1
1250	69	133.1	99.5	99.5	71.7	79.8	56.0
1250	103	130.3	98.1	98.3	70.9	79.1	55.7
1250	138	127.6	96.4	96.8	70.7	78.4	55.5
1250	207	123.1	94.0	94.4	69.5	76.9	54.8
1250	Open	103.1	82.1	82.7	63.5	69.4	51.1
1500	Open	106.3	84.2	84.9	64.7	70.8	52.0
1750	Open	109.2	86.0	86.8	65.4	72.2	52.7
2000	Open	111.8	87.5	88.6	66.4	73.4	53.4
2250	Open	114.0	89.0	89.9	67.2	74.5	54.0
2500	Open	116.1	90.2	91.3	68.0	75.4	54.5

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1234

115 to 138 kV Shielded Single Conductor Unfilled X L P E Power Cable

Direct Buried - 2 Circuits - Six Cables - Spaced

25°C Earth Ambient

Condr Size	Shield 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
		Total Watts/ft					
80°C - Copper Conductor - Concentric Strand							
750	69	102.6	78.2	78.2	57.7	63.3	45.6
750	103	100.2	76.9	77.1	57.0	62.6	45.3
750	138	98.0	75.7	75.7	56.3	61.8	45.0
750	207	94.3	73.7	73.7	55.3	60.7	44.3
750	Open	79.7	64.7	64.9	50.7	54.8	41.3
1000	69	109.0	82.0	82.0	59.8	66.1	46.8
1000	103	106.6	80.6	80.9	59.0	65.6	46.4
1000	138	104.2	79.4	79.7	58.4	64.7	46.3
1000	207	100.5	77.4	77.8	57.5	63.3	45.6
1000	Open	83.8	67.3	67.8	52.4	56.9	42.4
1250	69	113.3	84.4	84.7	60.9	67.8	47.5
1250	103	111.1	83.5	83.5	60.3	67.1	47.3
1250	138	109.1	82.4	82.4	59.9	66.7	47.1
1250	207	105.4	80.1	80.7	59.1	65.4	46.5
1250	Open	87.1	69.3	69.9	53.6	58.5	43.2
1500	Open	89.9	71.2	71.8	54.4	59.9	44.0
1750	Open	92.3	72.8	73.5	55.3	61.1	44.6
2000	Open	94.6	74.1	74.9	56.2	62.0	45.2
2250	Open	96.4	75.3	76.2	56.9	63.0	45.7
2500	Open	98.1	76.4	77.3	57.5	63.8	46.1

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115 to 138 kV Shielded Single Conductor Unfilled X L P E Power Cable

Direct Buried - 2 Circuits - Six Cables - Spaced

25°C Earth Ambient

Condr Size	Shield 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
		Total Watts/ft					
65°C - Copper Conductor - Concentric Strand							
750	69	75.7	57.4	57.4	42.3	46.5	33.2
750	103	74.3	56.7	56.7	41.8	46.0	33.1
750	138	72.6	55.9	55.9	41.4	45.4	32.8
750	207	70.0	54.3	54.3	40.5	44.5	32.4
750	Open	57.9	47.0	47.2	36.6	39.8	29.9
1000	69	80.2	60.2	60.2	43.5	48.4	34.1
1000	103	78.8	59.5	59.5	43.3	48.0	33.9
1000	138	77.2	58.5	58.7	43.0	47.5	33.8
1000	207	74.6	57.1	57.3	42.3	46.6	33.3
1000	Open	61.0	49.0	49.2	38.1	41.3	30.8
1250	69	83.4	62.1	62.1	44.5	49.5	34.6
1250	103	82.2	61.5	61.5	44.2	49.1	34.5
1250	138	80.6	60.7	60.7	43.9	49.0	34.5
1250	207	78.1	59.3	59.4	43.2	48.1	34.3
1250	Open	63.4	50.6	50.9	39.0	42.5	31.5
1500	Open	65.3	51.8	52.2	39.6	43.5	32.0
1750	Open	67.2	52.9	53.4	40.3	44.4	32.5
2000	Open	68.7	54.0	54.4	40.8	45.1	32.9
2250	Open	70.1	54.8	55.3	41.3	45.8	33.3
2500	Open	71.4	55.6	56.1	41.8	46.4	33.6

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115 to 138 kV Shielded Single Conductor Unfilled X L P E Power Cable

Direct Buried - 2 Circuits - Six Cables - Spaced

25°C Earth Ambient

Condr Size	Shield 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
		Total Watts/ft					
50°C - Copper Conductor - Concentric Strand							
750	69	47.9	36.3	36.3	26.6	29.1	20.9
750	103	47.3	36.0	35.8	26.3	28.9	20.8
750	138	46.4	35.6	35.4	26.1	28.7	20.7
750	207	44.7	34.6	34.6	25.8	28.2	20.4
750	Open	36.3	29.5	29.5	22.9	24.9	18.7
1000	69	50.9	38.0	38.0	27.3	30.4	21.4
1000	103	50.0	37.6	37.6	27.2	30.1	21.3
1000	138	49.2	37.3	37.1	27.3	29.9	21.4
1000	207	47.6	36.3	36.3	26.6	29.3	21.0
1000	Open	38.1	30.6	30.7	23.7	25.8	19.3
1250	69	52.8	39.1	39.1	28.0	31.0	21.8
1250	103	52.0	38.7	38.7	27.7	30.8	21.7
1250	138	51.2	38.6	38.4	27.6	30.8	21.7
1250	207	49.7	37.6	37.6	27.5	30.2	21.7
1250	Open	39.6	31.7	31.8	24.3	26.6	19.7
1500	Open	40.9	32.5	32.6	24.8	27.2	20.1
1750	Open	41.9	33.1	33.3	25.2	27.6	20.3
2000	Open	43.0	33.8	34.0	25.6	28.1	20.6
2250	Open	43.8	34.3	34.6	25.9	28.5	20.8
2500	Open	44.6	34.8	35.1	26.2	28.9	21.0

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115 to 138 kV Shielded Single Conductor Unfilled X L P E Power Cable

Direct Buried - 2 Circuits - Six Cables - Spaced

25°C Earth Ambient

Condr Size	Sheath Res	OD	Wd	Rac	Qs	Ri	Rj	Re @ 90 Rho & loss factor 75%	Re @ 90 Rho & loss factor 100%
			90°C - Copper Conductor - Concentric Strand						
750	69	3.218	0.10	18.60	2.375	1.93	0.29	2.87	4.37
750	103	3.218	0.10	18.60	2.099	1.93	0.29	2.87	4.37
750	138	3.218	0.10	18.60	1.875	1.93	0.29	2.87	4.37
750	207	3.218	0.10	18.60	1.613	1.93	0.29	2.87	4.37
750	Open	3.218	0.10	18.60	1.004	1.93	0.29	2.87	4.37
1000	69	3.407	0.11	14.30	2.735	1.76	0.27	2.84	4.33
1000	103	3.407	0.11	14.30	2.379	1.76	0.27	2.84	4.34
1000	138	3.407	0.11	14.30	2.096	1.76	0.27	2.85	4.33
1000	207	3.407	0.11	14.30	1.766	1.76	0.27	2.85	4.34
1000	Open	3.407	0.11	14.30	1.006	1.76	0.27	2.85	4.34
1250	69	3.540	0.12	11.79	3.050	1.64	0.26	2.82	4.31
1250	103	3.540	0.12	11.79	2.623	1.64	0.26	2.82	4.31
1250	138	3.540	0.12	11.79	2.293	1.64	0.26	2.82	4.31
1250	207	3.540	0.12	11.79	1.898	1.64	0.26	2.83	4.31
1250	Open	3.540	0.12	11.79	1.008	1.64	0.26	2.83	4.32
1500	Open	3.660	0.13	10.16	1.010	1.54	0.25	2.81	4.31
1750	Open	3.770	0.13	9.03	1.016	1.46	0.24	2.79	4.29
2000	Open	3.873	0.14	8.18	1.019	1.39	0.24	2.77	4.28
2250	Open	3.968	0.15	7.60	1.022	1.34	0.23	2.76	4.27
2500	Open	4.059	0.15	7.10	1.025	1.29	0.22	2.75	4.24

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1238

115 to 138 kV Shielded Single Conductor Unfilled X L P E Power Cable

Direct Buried - 2 Circuits - Six Cables - Spaced

25°C Earth Ambient

Condr Size	Sheath Res	OD	Wd	Rac	Qs	Ri	Rj	Re @ 90 loss 75%	Rho & factor 100%
			80°C - Copper Conductor - Concentric Strand						
750	69	3.218	0.10	18.60	2.375	1.93	0.29	2.87	4.37
750	103	3.218	0.10	18.60	2.099	1.93	0.29	2.87	4.37
750	138	3.218	0.10	18.60	1.875	1.93	0.29	2.87	4.37
750	207	3.218	0.10	18.60	1.613	1.93	0.29	2.87	4.37
750	Open	3.218	0.10	18.60	1.004	1.93	0.29	2.87	4.37
1000	69	3.407	0.11	14.30	2.735	1.76	0.27	2.84	4.33
1000	103	3.407	0.11	14.30	2.379	1.76	0.27	2.84	4.34
1000	138	3.407	0.11	14.30	2.096	1.76	0.27	2.85	4.33
1000	207	3.407	0.11	14.30	1.766	1.76	0.27	2.85	4.34
1000	Open	3.407	0.11	14.30	1.006	1.76	0.27	2.85	4.34
1250	69	3.540	0.12	11.79	3.050	1.64	0.26	2.82	4.31
1250	103	3.540	0.12	11.79	2.623	1.64	0.26	2.82	4.31
1250	138	3.540	0.12	11.79	2.293	1.64	0.26	2.82	4.31
1250	207	3.540	0.12	11.79	1.898	1.64	0.26	2.83	4.31
1250	Open	3.540	0.12	11.79	1.008	1.64	0.26	2.83	4.32
1500	Open	3.660	0.13	10.16	1.010	1.54	0.25	2.81	4.31
1750	Open	3.770	0.13	9.03	1.016	1.46	0.24	2.79	4.29
2000	Open	3.873	0.14	8.18	1.019	1.39	0.24	2.77	4.28
2250	Open	3.968	0.15	7.60	1.022	1.34	0.23	2.76	4.27
2500	Open	4.059	0.15	7.10	1.025	1.29	0.22	2.75	4.24

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115 to 138 kV Shielded Single Conductor Unfilled X L P E Power Cable

Direct Buried - 2 Circuits - Six Cables - Spaced

25°C Earth Ambient

Condr Size	Sheath Res	OD	Wd	Rac	Qs	Ri	Rj	Re @ 90 Rho & loss factor 75%	Re @ 90 Rho & loss factor 100%
			65°C - Copper Conductor - Concentric Strand						
750	69	3.218	0.10	18.60	2.375	1.93	0.29	2.87	4.37
750	103	3.218	0.10	18.60	2.099	1.93	0.29	2.87	4.37
750	138	3.218	0.10	18.60	1.875	1.93	0.29	2.87	4.37
750	207	3.218	0.10	18.60	1.613	1.93	0.29	2.87	4.37
750	Open	3.218	0.10	18.60	1.004	1.93	0.29	2.87	4.37
1000	69	3.407	0.11	14.30	2.735	1.76	0.27	2.84	4.33
1000	103	3.407	0.11	14.30	2.379	1.76	0.27	2.84	4.34
1000	138	3.407	0.11	14.30	2.096	1.76	0.27	2.85	4.33
1000	207	3.407	0.11	14.30	1.766	1.76	0.27	2.85	4.34
1000	Open	3.407	0.11	14.30	1.006	1.76	0.27	2.85	4.34
1250	69	3.540	0.12	11.79	3.050	1.64	0.26	2.82	4.31
1250	103	3.540	0.12	11.79	2.623	1.64	0.26	2.82	4.31
1250	138	3.540	0.12	11.79	2.293	1.64	0.26	2.82	4.31
1250	207	3.540	0.12	11.79	1.898	1.64	0.26	2.83	4.31
1250	Open	3.540	0.12	11.79	1.008	1.64	0.26	2.83	4.32
1500	Open	3.660	0.13	10.16	1.010	1.54	0.25	2.81	4.31
1750	Open	3.770	0.13	9.03	1.016	1.46	0.24	2.79	4.29
2000	Open	3.873	0.14	8.18	1.019	1.39	0.24	2.77	4.28
2250	Open	3.968	0.15	7.60	1.022	1.34	0.23	2.76	4.27
2500	Open	4.059	0.15	7.10	1.025	1.29	0.22	2.75	4.24

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1240

115 to 138 kV Shielded Single Conductor Unfilled X L P E Power Cable

Direct Buried - 2 Circuits - Six Cables - Spaced

25°C Earth Ambient

Condr Size	Sheath Res	OD	Wd	Rac	Qs	Ri	Rj	Re @ 90 Rho & loss factor 75%	100%
			50°C - Copper Conductor - Concentric Strand						
750	69	3.218	0.10	18.60	2.375	1.93	0.29	2.87	4.37
750	103	3.218	0.10	18.60	2.099	1.93	0.29	2.87	4.37
750	138	3.218	0.10	18.60	1.875	1.93	0.29	2.87	4.37
750	207	3.218	0.10	18.60	1.613	1.93	0.29	2.87	4.37
750	Open	3.218	0.10	18.60	1.004	1.93	0.29	2.87	4.37
1000	69	3.407	0.11	14.30	2.735	1.76	0.27	2.84	4.33
1000	103	3.407	0.11	14.30	2.379	1.76	0.27	2.84	4.34
1000	138	3.407	0.11	14.30	2.096	1.76	0.27	2.85	4.33
1000	207	3.407	0.11	14.30	1.766	1.76	0.27	2.85	4.34
1000	Open	3.407	0.11	14.30	1.006	1.76	0.27	2.85	4.34
1250	69	3.540	0.12	11.79	3.050	1.64	0.26	2.82	4.31
1250	103	3.540	0.12	11.79	2.623	1.64	0.26	2.82	4.31
1250	138	3.540	0.12	11.79	2.293	1.64	0.26	2.82	4.31
1250	207	3.540	0.12	11.79	1.898	1.64	0.26	2.83	4.31
1250	Open	3.540	0.12	11.79	1.008	1.64	0.26	2.83	4.32
1500	Open	3.660	0.13	10.16	1.010	1.54	0.25	2.81	4.31
1750	Open	3.770	0.13	9.03	1.016	1.46	0.24	2.79	4.29
2000	Open	3.873	0.14	8.18	1.019	1.39	0.24	2.77	4.28
2250	Open	3.968	0.15	7.60	1.022	1.34	0.23	2.76	4.27
2500	Open	4.059	0.15	7.10	1.025	1.29	0.22	2.75	4.24

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115 to 138 kV Shielded Single Conductor Unfilled X L P E Power Cable

in Unventilated Riser - Triplexed

40°C Air Ambient

Condr Size	Shield Res	No Sun 0 Ft/s	No Sun 2 Ft/s	Full Sun 0 Ft/s	Full Sun 2 Ft/s	delta Td for .0010 pf No Sun 0 Ft/s	delta Td for .0010 pf No Sun 2 Ft/s
		90°C - Copper Conductor - Concentric Strand					
750	69	556	586	474	518	0.6	0.5
750	103	574	605	490	534	0.6	0.5
750	138	584	616	499	541	0.6	0.5
750	207	596	628	508	549	0.6	0.5
1000	69	651	680	555	596	0.5	0.5
1000	103	676	706	577	619	0.5	0.5
1000	138	691	722	589	632	0.5	0.5
1000	207	707	738	603	643	0.5	0.5
1250	69	702	735	599	644	0.5	0.5
1250	103	733	767	626	672	0.6	0.5
1250	138	752	786	641	689	0.6	0.5
1250	207	772	807	659	707	0.6	0.5
1500	69	741	776	633	680	0.6	0.5
1500	103	777	813	663	713	0.6	0.5
1500	138	799	836	682	733	0.6	0.5
1500	207	823	861	702	754	0.6	0.5
1750	69	772	809	659	709	0.6	0.5
1750	103	812	850	693	745	0.6	0.5
1750	138	836	876	714	767	0.6	0.5
1750	207	863	904	737	792	0.6	0.5
2000	69	798	837	681	733	0.6	0.5
2000	103	841	882	718	773	0.6	0.5
2000	138	868	909	741	797	0.6	0.5
2000	207	897	940	766	824	0.6	0.6
2250	69	817	858	698	752	0.6	0.6
2250	103	863	905	737	793	0.6	0.6
2250	138	891	935	761	819	0.6	0.6
2250	207	923	968	788	848	0.6	0.6
2500	69	835	877	713	768	0.6	0.6
2500	103	883	927	755	812	0.6	0.6
2500	138	913	958	780	840	0.6	0.6
2500	207	947	994	809	871	0.6	0.6

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115 to 138 kV Shielded Single Conductor Unfilled X L P E Power Cable

in Unventilated Riser - Triplexed

40°C Air Ambient

Condr Size	Shield Res	No Sun 0 Ft/s	No Sun 2 Ft/s	Full Sun 0 Ft/s	Full Sun 2 Ft/s
		Total Watts/ft			
90°C - Copper Conductor - Concentric Strand					
750	69	26.8	29.8	19.5	23.3
750	103	26.3	29.2	19.2	22.8
750	138	25.9	28.8	19.0	19.0
750	207	25.6	28.4	18.7	18.9
1000	69	31.4	34.2	22.8	26.3
1000	103	30.7	33.4	22.4	25.7
1000	138	30.2	33.0	22.0	25.3
1000	207	29.7	32.4	21.7	20.5
1250	69	33.1	36.3	24.1	27.9
1250	103	32.4	35.5	23.7	27.3
1250	138	32.0	35.0	23.3	26.9
1250	207	31.5	34.4	23.0	26.4
1500	69	34.6	37.9	25.3	29.2
1500	103	33.9	37.1	24.7	28.6
1500	138	33.5	36.7	24.5	28.2
1500	207	33.0	36.1	24.1	27.7
1750	69	35.9	39.4	26.2	30.3
1750	103	35.2	38.6	25.7	29.7
1750	138	34.8	38.2	25.4	29.3
1750	207	34.2	37.6	25.1	28.9
2000	69	37.1	40.8	27.1	31.3
2000	103	36.4	40.0	26.6	30.8
2000	138	36.0	39.5	26.3	30.4
2000	207	35.5	38.9	25.9	29.9
2250	69	38.0	41.9	27.8	32.2
2250	103	37.4	41.1	27.3	31.6
2250	138	36.9	40.6	27.0	31.2
2250	207	36.5	40.1	26.7	30.8
2500	69	38.9	42.9	28.4	33.0
2500	103	38.3	42.2	28.1	32.4
2500	138	37.9	41.7	27.7	32.1
2500	207	37.5	41.2	27.4	31.7

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115 to 138 kV Shielded Single Conductor Unfilled X L P E Power Cable

in Unventilated Riser - Triplexed

40°C Air Ambient

Condr Size	Sheath Res	OD	Duct ID	Wd	Rac	Qs	Qe	Ri	Rj	Rsd	Rd	Re No Sun 0 fps	Re No Sun 2 fps
					90°C - Copper Conductor - Concentric Strand								
750	69	3.218	7.98	0.10	19.20	1.387	1.488	1.93	.29	2.25	.00	1.95	1.40
750	103	3.218	7.98	0.10	19.20	1.267	1.368	1.93	.29	2.26	.00	1.95	1.40
750	138	3.218	7.98	0.10	19.20	1.202	1.303	1.93	.29	2.27	.00	1.96	1.40
750	207	3.218	7.98	0.10	19.20	1.136	1.237	1.93	.29	2.27	.00	1.96	1.40
1000	69	3.407	10.02	0.11	15.12	1.491	1.615	1.76	.27	2.02	.00	1.58	1.19
1000	103	3.407	10.02	0.11	15.12	1.339	1.463	1.76	.27	2.04	.00	1.58	1.19
1000	138	3.407	10.02	0.11	15.12	1.256	1.380	1.76	.27	2.04	.00	1.59	1.19
1000	207	3.407	10.02	0.11	15.12	1.172	1.297	1.76	.27	2.05	.00	1.59	1.19
1250	69	3.540	10.02	0.12	12.82	1.573	1.729	1.64	.26	1.96	.00	1.56	1.19
1250	103	3.540	10.02	0.12	12.82	1.396	1.552	1.64	.26	1.97	.00	1.57	1.19
1250	138	3.540	10.02	0.12	12.82	1.299	1.455	1.64	.26	1.98	.00	1.57	1.19
1250	207	3.540	10.02	0.12	12.82	1.201	1.357	1.64	.26	1.99	.00	1.58	1.19
1500	69	3.660	10.02	0.13	11.38	1.641	1.826	1.54	.25	1.90	.00	1.55	1.18
1500	103	3.660	10.02	0.13	11.38	1.442	1.627	1.54	.25	1.92	.00	1.56	1.18
1500	138	3.660	10.02	0.13	11.38	1.334	1.519	1.54	.25	1.92	.00	1.56	1.18
1500	207	3.660	10.02	0.13	11.38	1.225	1.410	1.54	.25	1.93	.00	1.56	1.19
1750	69	3.770	10.02	0.13	10.41	1.696	1.907	1.46	.24	1.86	.00	1.54	1.18
1750	103	3.770	10.02	0.13	10.41	1.480	1.691	1.46	.24	1.87	.00	1.55	1.18
1750	138	3.770	10.02	0.13	10.41	1.362	1.574	1.46	.24	1.88	.00	1.55	1.18
1750	207	3.770	10.02	0.13	10.41	1.244	1.455	1.46	.24	1.89	.00	1.56	1.18
2000	69	3.873	10.02	0.14	9.69	1.744	1.981	1.39	.24	1.82	.00	1.54	1.18
2000	103	3.873	10.02	0.14	9.69	1.513	1.750	1.39	.24	1.83	.00	1.54	1.18
2000	138	3.873	10.02	0.14	9.69	1.387	1.624	1.39	.24	1.84	.00	1.54	1.18
2000	207	3.873	10.02	0.14	9.69	1.261	1.498	1.39	.24	1.85	.00	1.55	1.18
2250	69	3.968	10.02	0.15	9.21	1.779	2.037	1.34	.23	1.78	.00	1.53	1.18
2250	103	3.968	10.02	0.15	9.21	1.537	1.795	1.34	.23	1.80	.00	1.53	1.18
2250	138	3.968	10.02	0.15	9.21	1.405	1.664	1.34	.23	1.80	.00	1.54	1.18
2250	207	3.968	10.02	0.15	9.21	1.273	1.531	1.34	.23	1.81	.00	1.54	1.18
2500	69	4.059	10.02	0.15	8.79	1.812	2.092	1.29	.22	1.75	.00	1.53	1.18
2500	103	4.059	10.02	0.15	8.79	1.560	1.840	1.29	.22	1.76	.00	1.53	1.18
2500	138	4.059	10.02	0.15	8.79	1.423	1.702	1.29	.22	1.77	.00	1.53	1.18
2500	207	4.059	10.02	0.15	8.79	1.284	1.564	1.29	.22	1.78	.00	1.53	1.18

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1244

115 to 138 kV Shielded Single Conductor Unfilled X L P E Power Cable in Underground Duct Bank - 1 Circuit - Three Cables - 12 in Spacing

25°C Earth Ambient

Condr Size	Shield 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 .0010 pf & Rho 60	90	120
		90°C - Aluminum Conductor - Concentric Strand								
750	69	537	499	502	455	472	420	0.5	0.6	0.7
750	103	557	516	521	471	491	436	0.5	0.6	0.7
750	138	571	530	535	485	505	449	0.5	0.6	0.7
750	207	590	548	553	503	523	466	0.5	0.6	0.7
1000	69	605	559	563	507	528	467	0.5	0.6	0.8
1000	103	633	584	589	531	553	489	0.5	0.6	0.8
1000	138	654	604	610	549	573	507	0.5	0.7	0.8
1000	207	679	629	635	574	598	531	0.5	0.7	0.8
1000	Open	755	704	710	647	672	601	0.5	0.7	0.8
1250	69	659	607	611	548	571	503	0.5	0.7	0.8
1250	103	694	639	644	578	603	531	0.5	0.7	0.8
1250	138	721	663	670	601	628	554	0.6	0.7	0.8
1250	207	754	696	703	632	660	583	0.6	0.7	0.8
1250	Open	855	795	802	728	758	675	0.6	0.7	0.8
1500	69	703	646	650	581	607	533	0.6	0.7	0.8
1500	103	745	684	690	617	645	566	0.6	0.7	0.8
1500	138	778	713	721	645	675	592	0.6	0.7	0.9
1500	207	818	753	761	682	713	628	0.6	0.7	0.9
1500	Open	944	876	884	801	834	741	0.6	0.7	0.9
1750	69	741	679	683	610	637	557	0.6	0.7	0.9
1750	103	789	723	728	650	680	596	0.6	0.7	0.9
1750	138	827	757	765	682	714	625	0.6	0.7	0.9
1750	207	874	802	811	725	759	666	0.6	0.7	0.9
1750	Open	1025	949	958	865	902	800	0.6	0.7	0.9
2000	Open	1098	1015	1025	924	963	853	0.6	0.8	0.9
2250	Open	1160	1070	1081	973	1015	897	0.6	0.8	0.9
2500	Open	1221	1125	1136	1021	1066	940	0.7	0.8	1.0

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115 to 138 kV Shielded Single Conductor Unfilled X L P E Power Cable

in Underground Duct Bank - 1 Circuit - Three Cables - 12 in Spacing

25°C Earth Ambient

Condr Size	Shield 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
		Total Watts/ft					
90°C - Aluminum Conductor - Concentric Strand							
750	69	43.8	37.9	38.3	31.5	33.9	26.9
750	103	42.9	36.8	37.5	30.7	33.4	26.4
750	138	41.8	36.1	36.8	30.3	32.8	26.0
750	207	40.7	35.2	35.8	29.7	32.1	25.5
1000	69	46.8	40.0	40.5	32.9	35.7	28.0
1000	103	45.8	39.0	39.7	32.3	35.0	27.5
1000	138	44.8	38.3	39.0	31.7	34.5	27.1
1000	207	43.3	37.2	37.9	31.0	33.6	26.6
1000	Open	39.3	34.2	34.8	29.0	31.2	25.0
1250	69	49.0	41.6	42.2	34.0	36.9	28.7
1250	103	48.0	40.7	41.4	33.4	36.3	28.2
1250	138	47.0	39.8	40.6	32.7	35.7	27.9
1250	207	45.3	38.7	39.5	32.0	34.8	27.3
1250	Open	40.9	35.4	36.0	29.7	32.2	25.6
1500	69	50.8	42.9	43.5	34.8	38.0	29.3
1500	103	49.8	42.0	42.8	34.3	37.4	28.9
1500	138	48.8	41.1	42.0	33.7	36.8	28.4
1500	207	47.1	39.9	40.8	32.8	35.9	27.9
1500	Open	42.2	36.4	37.0	30.5	33.0	26.1
1750	69	52.4	44.0	44.5	35.6	38.8	29.8
1750	103	51.3	43.2	43.8	35.0	38.2	29.5
1750	138	50.3	42.2	43.1	34.4	37.6	28.9
1750	207	48.6	41.0	41.9	33.5	36.7	28.4
1750	Open	43.4	37.3	38.0	31.0	33.7	26.6
2000	Open	44.4	38.0	38.7	31.6	34.2	27.0
2250	Open	45.3	38.6	39.4	32.0	34.8	27.3
2500	Open	46.2	39.3	40.0	32.4	35.3	27.6

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115 to 138 kV Shielded Single Conductor Unfilled X L P E Power Cable in Underground Duct Bank - 1 Circuit - Three Cables - 12 in Spacing

25°C Earth Ambient

Condr Size	Sheath Res	OD	Duct ID	Wd	Rac	Qs	Ri	Rj	Rsd	Rd	Re @ 90 loss 75%	Rho & factor 100%
90°C - Aluminum Conductor - Concentric Strand												
750	69	3.218	5.05	0.10	30.02	1.731	1.93	0.29	1.25	0.24	2.03	3.16
750	103	3.218	5.05	0.10	30.02	1.566	1.93	0.29	1.26	0.24	2.03	3.30
750	138	3.218	5.05	0.10	30.02	1.424	1.93	0.29	1.26	0.24	2.11	3.30
750	207	3.218	5.05	0.10	30.02	1.298	1.93	0.29	1.27	0.24	2.11	3.30
1000	69	3.407	5.05	0.11	22.74	1.933	1.76	0.27	1.18	0.24	2.03	3.16
1000	103	3.407	5.05	0.11	22.74	1.718	1.76	0.27	1.18	0.24	2.03	3.30
1000	138	3.407	5.05	0.11	22.74	1.538	1.76	0.27	1.19	0.24	2.11	3.30
1000	207	3.407	5.05	0.11	22.74	1.377	1.76	0.27	1.19	0.24	2.11	3.30
1000	Open	3.407	5.05	0.11	22.74	1.003	1.76	0.27	1.22	0.24	2.11	3.30
1250	69	3.540	5.05	0.12	18.39	2.118	1.64	0.26	1.13	0.24	2.03	3.16
1250	103	3.540	5.05	0.12	18.39	1.856	1.64	0.26	1.13	0.24	2.03	3.30
1250	138	3.540	5.05	0.12	18.39	1.640	1.64	0.26	1.14	0.24	2.11	3.30
1250	207	3.540	5.05	0.12	18.39	1.449	1.64	0.26	1.14	0.24	2.11	3.30
1250	Open	3.540	5.05	0.12	18.39	1.004	1.64	0.26	1.17	0.24	2.11	3.30
1500	69	3.660	5.05	0.13	15.55	2.287	1.54	0.25	1.08	0.24	2.03	3.16
1500	103	3.660	5.05	0.13	15.55	1.982	1.54	0.25	1.09	0.24	2.03	3.30
1500	138	3.660	5.05	0.13	15.55	1.734	1.54	0.25	1.09	0.24	2.11	3.30
1500	207	3.660	5.05	0.13	15.55	1.514	1.54	0.25	1.10	0.24	2.11	3.30
1500	Open	3.660	5.05	0.13	15.55	1.005	1.54	0.25	1.13	0.24	2.11	3.30
1750	69	3.770	5.05	0.13	13.54	2.442	1.46	0.24	1.05	0.24	2.03	3.16
1750	103	3.770	5.05	0.13	13.54	2.097	1.46	0.24	1.06	0.24	2.03	3.30
1750	138	3.770	5.05	0.13	13.54	1.818	1.46	0.24	1.06	0.24	2.11	3.30
1750	207	3.770	5.05	0.13	13.54	1.572	1.46	0.24	1.07	0.24	2.11	3.30
1750	Open	3.770	5.05	0.13	13.54	1.006	1.46	0.24	1.09	0.24	2.11	3.30
2000	Open	3.873	5.05	0.14	12.06	1.007	1.39	0.24	1.06	0.24	2.11	3.30
2250	Open	3.968	5.05	0.15	11.02	1.008	1.34	0.23	1.04	0.24	2.11	3.30
2500	Open	4.059	5.05	0.15	10.12	1.009	1.29	0.22	1.01	0.24	2.11	3.30

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115 to 138 kV Shielded Single Conductor Unfilled X L P E Power Cable

in Underground Duct Bank - 2 Circuits - Six Cables - 12 in Spacing

25°C Earth Ambient

Condr Size	Shield 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 .0010 pf & Rho 60	90	120
		90°C - Aluminum Conductor - Concentric Strand								
750	69	489	435	439	381	401	344	0.7	0.9	1.1
750	103	507	452	456	397	418	358	0.7	0.9	1.1
750	138	520	465	469	409	429	369	0.7	0.9	1.1
750	207	537	481	484	423	444	382	0.7	0.9	1.1
1000	69	550	488	491	425	447	382	0.7	1.0	1.2
1000	103	575	510	514	446	469	401	0.7	1.0	1.2
1000	138	593	527	532	462	486	416	0.7	1.0	1.2
1000	207	617	549	554	482	507	435	0.7	1.0	1.2
1000	Open	679	610	615	537	564	484	0.8	1.0	1.2
1250	69	599	528	532	459	483	411	0.8	1.0	1.3
1250	103	630	557	561	485	511	435	0.8	1.0	1.3
1250	138	654	580	584	505	531	454	0.8	1.0	1.3
1250	207	683	606	612	530	558	477	0.8	1.0	1.3
1250	Open	766	685	691	602	633	541	0.8	1.0	1.3
1500	69	639	562	566	487	513	436	0.8	1.1	1.4
1500	103	676	596	601	518	545	464	0.8	1.1	1.4
1500	138	705	623	627	541	570	485	0.8	1.1	1.4
1500	207	740	656	661	571	603	510	0.8	1.1	1.4
1500	Open	843	752	758	660	694	592	0.8	1.1	1.4
1750	69	673	590	595	511	538	456	0.9	1.1	1.4
1750	103	716	629	634	546	575	488	0.9	1.1	1.4
1750	138	749	659	665	573	603	512	0.9	1.1	1.4
1750	207	790	698	703	607	639	544	0.9	1.1	1.4
1750	Open	912	812	819	711	748	637	0.9	1.1	1.4
2000	Open	975	866	873	757	797	677	0.9	1.2	1.5
2250	Open	1027	911	919	795	837	714	0.9	1.2	1.5
2500	Open	1079	955	963	833	877	746	0.9	1.3	1.6

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115 to 138 kV Shielded Single Conductor Unfilled X L P E Power Cable in Underground Duct Bank - 2 Circuits - Six Cables - 12 in Spacing

25°C Earth Ambient

Condr Size	Shield 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
		Total Watts/ft					
90°C - Aluminum Conductor - Concentric Strand							
750	69	69.1	54.8	55.8	42.2	46.6	34.5
750	103	67.6	53.9	54.8	41.7	46.2	34.0
750	138	66.4	53.2	54.1	41.3	45.4	33.7
750	207	65.1	52.4	53.0	40.6	44.7	33.3
1000	69	72.8	57.5	58.2	43.7	48.3	35.5
1000	103	71.2	56.2	57.0	43.1	47.6	35.0
1000	138	69.8	55.3	56.3	42.6	47.1	34.7
1000	207	68.4	54.3	55.3	42.0	46.4	34.3
1000	Open	63.8	51.6	52.4	40.1	44.2	32.7
1250	69	75.6	58.9	59.8	44.7	49.4	36.0
1250	103	73.9	57.9	58.7	44.1	48.8	35.6
1250	138	72.6	57.3	58.0	43.6	48.1	35.4
1250	207	70.7	55.8	56.9	42.9	47.4	34.9
1250	Open	65.7	52.7	53.6	40.9	45.1	33.1
1500	69	77.8	60.4	61.2	45.5	50.4	36.6
1500	103	76.0	59.3	60.2	44.9	49.7	36.2
1500	138	74.8	58.6	59.3	44.3	49.1	35.8
1500	207	72.8	57.4	58.2	43.7	48.6	35.0
1500	Open	67.5	53.8	54.7	41.6	46.0	33.7
1750	69	79.6	61.4	62.4	46.3	51.2	37.0
1750	103	77.9	60.3	61.3	45.6	50.5	36.6
1750	138	76.6	59.5	60.5	45.1	49.9	36.2
1750	207	74.6	58.4	59.2	44.4	49.1	35.8
1750	Open	68.9	54.8	55.7	42.2	46.6	34.0
2000	Open	70.2	55.5	56.4	42.6	47.2	34.3
2250	Open	71.3	56.3	57.3	43.1	47.7	34.9
2500	Open	72.4	56.9	57.9	43.5	48.1	35.1

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115 to 138 kV Shielded Single Conductor Unfilled X L P E Power Cable

in Underground Duct Bank - 2 Circuits - Six Cables - 12 in Spacing

25°C Earth Ambient

Condr Size	Sheath Res	OD	Duct ID	Wd	Rac	Qs	Ri	Rj	Rsd	Rd	Re @ 90 Rho & loss factor 75%	Re @ 90 Rho & loss factor 100%
					90°C - Aluminum Conductor - Concentric Strand							
750	69	3.218	5.05	0.10	30.02	1.595	1.93	0.29	1.21	0.24	4.00	6.34
750	103	3.218	5.05	0.10	30.02	1.452	1.93	0.29	1.22	0.24	4.00	6.34
750	138	3.218	5.05	0.10	30.02	1.354	1.93	0.29	1.22	0.24	4.00	6.34
750	207	3.218	5.05	0.10	30.02	1.245	1.93	0.29	1.23	0.24	4.00	6.34
1000	69	3.407	5.05	0.11	22.74	1.756	1.76	0.27	1.14	0.24	4.00	6.34
1000	103	3.407	5.05	0.11	22.74	1.571	1.76	0.27	1.14	0.24	4.00	6.34
1000	138	3.407	5.05	0.11	22.74	1.446	1.76	0.27	1.15	0.24	4.00	6.34
1000	207	3.407	5.05	0.11	22.74	1.308	1.76	0.27	1.15	0.24	4.00	6.34
1000	Open	3.407	5.05	0.11	22.74	1.003	1.76	0.27	1.17	0.24	4.00	6.34
1250	69	3.540	5.05	0.12	18.39	1.901	1.64	0.26	1.09	0.24	4.00	6.34
1250	103	3.540	5.05	0.12	18.39	1.678	1.64	0.26	1.10	0.24	4.00	6.34
1250	138	3.540	5.05	0.12	18.39	1.529	1.64	0.26	1.10	0.24	4.00	6.34
1250	207	3.540	5.05	0.12	18.39	1.365	1.64	0.26	1.11	0.24	4.00	6.34
1250	Open	3.540	5.05	0.12	18.39	1.004	1.64	0.26	1.12	0.24	4.00	6.34
1500	69	3.660	5.05	0.13	15.55	2.034	1.54	0.25	1.05	0.24	4.00	6.34
1500	103	3.660	5.05	0.13	15.55	1.774	1.54	0.25	1.06	0.24	4.00	6.34
1500	138	3.660	5.05	0.13	15.55	1.604	1.54	0.25	1.06	0.24	4.00	6.34
1500	207	3.660	5.05	0.13	15.55	1.415	1.54	0.25	1.07	0.24	4.00	6.34
1500	Open	3.660	5.05	0.13	15.55	1.005	1.54	0.25	1.09	0.24	4.00	6.34
1750	69	3.770	5.05	0.13	13.54	2.154	1.46	0.24	1.02	0.24	4.00	6.34
1750	103	3.770	5.05	0.13	13.54	1.861	1.46	0.24	1.02	0.24	4.00	6.34
1750	138	3.770	5.05	0.13	13.54	1.671	1.46	0.24	1.03	0.24	4.00	6.34
1750	207	3.770	5.05	0.13	13.54	1.461	1.46	0.24	1.03	0.24	4.00	6.34
1750	Open	3.770	5.05	0.13	13.54	1.006	1.46	0.24	1.05	0.24	4.00	6.34
2000	Open	3.873	5.05	0.14	12.06	1.007	1.39	0.24	1.02	0.24	4.00	6.34
2250	Open	3.968	5.05	0.15	11.02	1.009	1.34	0.23	1.00	0.24	4.00	6.34
2500	Open	4.059	5.05	0.15	10.12	1.010	1.29	0.22	0.97	0.24	4.00	6.34

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1250

115 to 138 kV Shielded Single Conductor Unfilled X L P E Power Cable

Direct Buried - Triplexed - Single Circuit

25°C Earth Ambient

Condr Size	Shield 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 .0010 pf & Rho 60	90	120
						75% LF							
						90°C - Aluminum Conductor - Concentric Strand							
750	69	670	60	35.5	600	66	28.5	549	70	23.9	0.4	0.6	0.8
750	103	679	59	34.8	609	65	28.0	558	69	23.6	0.4	0.6	0.8
750	138	684	59	34.4	614	65	27.8	563	69	23.4	0.4	0.6	0.8
750	207	689	58	34.0	619	64	27.6	568	68	23.3	0.4	0.6	0.8
1000	69	779	61	35.9	695	67	28.6	634	71	23.9	0.5	0.6	0.8
1000	103	793	60	35.1	709	66	28.1	648	70	23.5	0.5	0.6	0.8
1000	138	801	60	34.7	717	66	27.8	656	70	23.3	0.5	0.6	0.8
1000	207	809	60	34.2	725	66	27.5	664	69	23.1	0.5	0.6	0.8
1250	69	871	63	36.4	774	68	28.8	705	72	23.9	0.5	0.7	0.9
1250	103	890	62	35.6	793	67	28.3	723	71	23.5	0.5	0.7	0.9
1250	138	901	61	35.0	804	67	27.9	734	71	23.3	0.5	0.7	0.9
1250	207	912	61	34.5	815	67	27.6	745	70	23.1	0.5	0.7	0.9
1500	69	951	64	36.8	842	69	29.0	766	73	23.9	0.5	0.7	0.9
1500	103	975	63	35.9	866	68	28.3	789	72	23.5	0.5	0.7	0.9
1500	138	989	62	35.3	880	68	28.0	802	72	23.3	0.5	0.7	0.9
1500	207	1004	61	34.7	895	67	27.6	816	71	23.0	0.5	0.7	0.9
1750	69	1020	65	37.2	902	70	29.0	818	74	24.0	0.5	0.7	0.9
1750	103	1050	64	36.1	930	69	28.4	846	73	23.6	0.5	0.7	0.9
1750	138	1067	63	35.5	947	69	28.1	862	72	23.3	0.5	0.7	0.9
1750	207	1085	62	34.9	965	68	27.6	879	72	23.0	0.5	0.7	0.9
2000	69	1082	65	37.4	953	71	29.1	864	74	24.0	0.5	0.8	1.0
2000	103	1116	64	36.4	987	70	28.5	896	73	23.5	0.5	0.8	1.0
2000	138	1136	64	35.7	1007	69	28.1	915	73	23.2	0.5	0.8	1.0
2000	207	1158	63	35.0	1028	69	27.7	936	72	22.9	0.5	0.8	1.0
2250	69	1132	66	37.6	996	72	29.2	901	75	23.9	0.6	0.8	1.0
2250	103	1171	65	36.5	1034	70	28.5	938	74	23.5	0.6	0.8	1.0
2250	138	1194	64	35.8	1057	70	28.1	959	73	23.2	0.6	0.8	1.0
2250	207	1219	63	35.1	1081	69	27.6	983	73	22.9	0.6	0.8	1.0
2500	69	1180	67	37.7	1037	72	29.2	937	75	23.9	0.6	0.8	1.0
2500	103	1224	66	36.6	1079	71	28.5	978	74	23.4	0.6	0.8	1.0
2500	138	1250	65	35.9	1105	70	28.0	1002	74	23.1	0.6	0.8	1.0
2500	207	1278	64	35.1	1132	70	27.6	1028	73	22.8	0.6	0.8	1.0

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115 to 138 kV Shielded Single Conductor Unfilled X L P E Power Cable

Direct Buried - Triplexed - Single Circuit

25°C Earth Ambient

Condr Size	Shield 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 .0010 pf & Rho 60	90	120
						100% LF							
						90°C - Aluminum Conductor - Concentric Strand							
750	69	603	65	28.7	526	71	22.0	473	75	17.8	0.4	0.6	0.8
750	103	612	65	28.3	535	71	21.7	481	74	17.6	0.4	0.6	0.8
750	138	617	64	28.1	540	70	21.6	486	74	17.5	0.4	0.6	0.8
750	207	622	64	27.8	545	70	21.5	491	74	17.4	0.4	0.6	0.8
1000	69	697	67	28.8	605	73	21.8	542	76	17.5	0.5	0.6	0.8
1000	103	710	66	28.3	619	72	21.5	555	76	17.3	0.5	0.6	0.8
1000	138	718	66	28.0	626	72	21.3	562	75	17.2	0.5	0.6	0.8
1000	207	727	65	27.6	634	71	21.1	570	75	17.1	0.5	0.6	0.8
1250	69	775	68	28.8	671	74	21.7	599	77	17.3	0.5	0.7	0.9
1250	103	794	67	28.3	688	73	21.3	616	76	17.1	0.5	0.7	0.9
1250	138	804	67	28.0	699	73	21.1	626	76	17.1	0.5	0.7	0.9
1250	207	816	66	27.6	710	72	21.0	636	76	16.9	0.5	0.7	0.9
1500	69	841	69	28.9	726	75	21.6	647	78	17.2	0.5	0.7	0.9
1500	103	865	68	28.3	748	74	21.2	669	77	17.0	0.5	0.7	0.9
1500	138	879	68	27.9	762	73	21.0	681	77	16.9	0.5	0.7	0.9
1500	207	894	67	27.6	776	73	20.8	694	76	16.8	0.5	0.7	0.9
1750	69	899	70	28.9	774	75	21.5	689	78	17.0	0.5	0.7	0.9
1750	103	928	69	28.3	801	75	21.1	714	78	16.9	0.5	0.7	0.9
1750	138	945	69	27.9	817	74	20.9	729	77	16.7	0.5	0.7	0.9
1750	207	963	68	27.5	834	74	20.7	745	77	16.6	0.5	0.7	0.9
2000	69	949	71	28.9	815	76	21.4	725	79	16.9	0.5	0.8	1.0
2000	103	983	70	28.3	846	75	21.0	754	78	16.7	0.5	0.8	1.0
2000	138	1003	69	27.8	865	75	20.8	771	78	16.6	0.5	0.8	1.0
2000	207	1024	69	27.4	885	74	20.6	790	77	16.4	0.5	0.8	1.0
2250	69	990	72	28.8	848	77	21.2	754	79	16.8	0.6	0.8	1.0
2250	103	1028	71	28.1	884	76	20.9	786	79	16.6	0.6	0.8	1.0
2250	138	1051	70	27.8	905	75	20.6	806	78	16.4	0.6	0.8	1.0
2250	207	1075	69	27.4	927	75	20.4	827	78	16.3	0.6	0.8	1.0
2500	69	1029	72	28.8	880	77	21.1	781	80	16.7	0.6	0.8	1.0
2500	103	1072	71	28.1	919	76	20.8	817	79	16.4	0.6	0.8	1.0
2500	138	1097	71	27.7	943	76	20.5	839	79	16.3	0.6	0.8	1.0
2500	207	1124	70	27.2	968	75	20.3	863	78	16.1	0.6	0.8	1.0

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115 to 138 kV Shielded Single Conductor Unfilled X L P E Power Cable

Direct Buried - Triplexed - Single Circuit

25°C Earth Ambient

Condr Size	Shield 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 .0010 pf & Rho 60	90	120
						75% LF							
						80°C - Aluminum Conductor - Concentric Strand							
750	69	624	54	30.1	558	60	24.2	511	63	20.3	0.4	0.6	0.8
750	103	632	54	29.5	567	59	23.8	520	62	20.0	0.4	0.6	0.8
750	138	637	54	29.2	572	59	23.6	525	62	19.8	0.4	0.6	0.8
750	207	643	53	28.9	578	58	23.3	530	62	19.7	0.4	0.6	0.8
1000	69	725	56	30.4	646	61	24.2	589	64	20.2	0.5	0.6	0.8
1000	103	738	55	29.8	659	60	23.8	602	63	19.9	0.5	0.6	0.8
1000	138	746	55	29.4	667	60	23.6	610	63	19.8	0.5	0.6	0.8
1000	207	754	54	29.0	675	59	23.3	618	63	19.6	0.5	0.6	0.8
1250	69	810	57	30.9	719	62	24.5	654	65	20.3	0.5	0.7	0.9
1250	103	828	56	30.2	737	61	24.0	672	64	20.0	0.5	0.7	0.9
1250	138	839	56	29.7	748	61	23.7	682	64	19.8	0.5	0.7	0.9
1250	207	850	55	29.2	759	60	23.4	693	64	19.6	0.5	0.7	0.9
1500	69	883	58	31.3	781	63	24.6	710	66	20.3	0.5	0.7	0.9
1500	103	906	57	30.4	804	62	24.1	732	65	20.0	0.5	0.7	0.9
1500	138	920	57	30.0	818	61	23.7	745	65	19.7	0.5	0.7	0.9
1500	207	934	56	29.5	832	61	23.4	759	64	19.5	0.5	0.7	0.9
1750	69	946	59	31.6	835	63	24.7	757	66	20.4	0.5	0.7	0.9
1750	103	975	58	30.7	863	63	24.1	784	66	20.0	0.5	0.7	0.9
1750	138	991	57	30.1	880	62	23.8	800	65	19.7	0.5	0.7	0.9
1750	207	1009	57	29.6	897	62	23.4	817	65	19.5	0.5	0.7	0.9
2000	69	1002	59	31.8	882	64	24.7	799	67	20.3	0.5	0.8	1.0
2000	103	1035	58	30.9	915	63	24.2	830	66	19.9	0.5	0.8	1.0
2000	138	1055	58	30.3	934	63	23.8	849	66	19.7	0.5	0.8	1.0
2000	207	1076	57	29.7	955	62	23.4	869	65	19.5	0.5	0.8	1.0
2250	69	1048	60	32.0	921	65	24.7	833	67	20.3	0.6	0.8	1.0
2250	103	1085	59	31.0	958	64	24.1	868	67	19.9	0.6	0.8	1.0
2250	138	1108	58	30.4	979	63	23.8	889	66	19.7	0.6	0.8	1.0
2250	207	1132	58	29.7	1003	62	23.4	912	66	19.4	0.6	0.8	1.0
2500	69	1091	61	32.1	958	65	24.8	865	68	20.3	0.6	0.8	1.0
2500	103	1134	59	31.1	999	64	24.2	904	67	19.9	0.6	0.8	1.0
2500	138	1159	59	30.5	1023	64	23.8	928	66	19.6	0.6	0.8	1.0
2500	207	1186	58	29.8	1050	63	23.4	953	66	19.3	0.6	0.8	1.0

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115 to 138 kV Shielded Single Conductor Unfilled X L P E Power Cable

Direct Buried - Triplexed - Single Circuit

25°C Earth Ambient

Condr Size	Shield 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 .0010 pf & Rho 60	90	120
						100% LF							
						80°C - Aluminum Conductor - Concentric Strand							
750	69	561	59	24.4	490	64	18.6	440	67	15.0	0.4	0.6	0.8
750	103	570	59	24.0	498	64	18.4	448	67	15.0	0.4	0.6	0.8
750	138	575	58	23.8	503	64	18.3	453	67	14.8	0.4	0.6	0.8
750	207	580	58	23.6	508	63	18.2	458	66	14.7	0.4	0.6	0.8
1000	69	648	61	24.4	562	65	18.4	503	68	14.8	0.5	0.6	0.8
1000	103	661	60	23.9	575	65	18.2	516	68	14.7	0.5	0.6	0.8
1000	138	669	60	23.7	583	65	18.1	523	68	14.6	0.5	0.6	0.8
1000	207	677	59	23.5	591	64	17.9	531	67	14.5	0.5	0.6	0.8
1250	69	720	62	24.5	622	66	18.4	556	69	14.7	0.5	0.7	0.9
1250	103	738	61	24.0	640	66	18.1	572	69	14.6	0.5	0.7	0.9
1250	138	748	61	23.7	650	65	17.9	582	68	14.4	0.5	0.7	0.9
1250	207	760	60	23.5	661	65	17.7	592	68	14.3	0.5	0.7	0.9
1500	69	781	63	24.5	673	67	18.3	600	70	14.6	0.5	0.7	0.9
1500	103	804	62	24.0	695	67	18.0	620	69	14.4	0.5	0.7	0.9
1500	138	817	61	23.7	708	66	17.8	632	69	14.3	0.5	0.7	0.9
1500	207	832	61	23.4	721	66	17.6	645	69	14.2	0.5	0.7	0.9
1750	69	833	64	24.6	716	68	18.2	637	70	14.5	0.5	0.7	0.9
1750	103	861	63	24.0	742	67	17.9	662	70	14.3	0.5	0.7	0.9
1750	138	878	62	23.7	758	67	17.7	676	69	14.2	0.5	0.7	0.9
1750	207	895	62	23.3	775	66	17.6	692	69	14.0	0.5	0.7	0.9
2000	69	879	64	24.5	754	68	18.1	670	71	14.4	0.5	0.8	1.0
2000	103	911	63	24.0	784	68	17.8	698	70	14.2	0.5	0.8	1.0
2000	138	931	63	23.6	802	67	17.6	715	70	14.0	0.5	0.8	1.0
2000	207	951	62	23.2	822	67	17.4	733	69	13.9	0.5	0.8	1.0
2250	69	916	65	24.5	784	69	18.0	696	71	14.3	0.6	0.8	1.0
2250	103	953	64	23.9	818	68	17.7	727	71	14.1	0.6	0.8	1.0
2250	138	974	63	23.5	838	68	17.5	746	70	14.0	0.6	0.8	1.0
2250	207	998	63	23.2	860	67	17.3	767	70	13.8	0.6	0.8	1.0
2500	69	951	65	24.4	813	69	17.9	721	72	14.1	0.6	0.8	1.0
2500	103	992	64	23.8	850	68	17.6	755	71	13.9	0.6	0.8	1.0
2500	138	1016	64	23.5	873	68	17.4	776	71	13.8	0.6	0.8	1.0
2500	207	1043	63	23.1	898	67	17.2	799	70	13.7	0.6	0.8	1.0

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115 to 138 kV Shielded Single Conductor Unfilled X L P E Power Cable

Direct Buried - Triplexed - Single Circuit

25°C Earth Ambient

Condr Size	Shield 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 .0010 pf & Rho 60	90	120
						75% LF							
						65°C - Aluminum Conductor - Concentric Strand							
750	69	542	47	22.0	484	50	17.7	443	53	14.7	0.4	0.6	0.8
750	103	550	46	21.5	493	50	17.4	451	52	14.6	0.4	0.6	0.8
750	138	555	46	21.3	498	50	17.2	456	52	14.4	0.4	0.6	0.8
750	207	560	46	21.0	503	49	17.1	461	52	14.4	0.4	0.6	0.8
1000	69	628	48	22.3	559	51	17.7	510	54	14.8	0.5	0.6	0.8
1000	103	641	47	21.8	572	51	17.4	522	53	14.6	0.5	0.6	0.8
1000	138	648	47	21.5	579	50	17.2	529	53	14.4	0.5	0.6	0.8
1000	207	656	46	21.1	587	50	17.0	537	53	14.3	0.5	0.6	0.8
1250	69	701	48	22.6	621	52	17.9	565	54	14.8	0.5	0.7	0.9
1250	103	718	48	22.1	638	51	17.5	581	54	14.6	0.5	0.7	0.9
1250	138	728	47	21.7	648	51	17.3	591	53	14.4	0.5	0.7	0.9
1250	207	738	47	21.3	659	51	17.1	601	53	14.2	0.5	0.7	0.9
1500	69	762	49	23.0	674	53	18.0	611	55	14.9	0.5	0.7	0.9
1500	103	784	49	22.3	695	52	17.6	632	54	14.5	0.5	0.7	0.9
1500	138	797	48	21.9	708	52	17.4	644	54	14.4	0.5	0.7	0.9
1500	207	810	48	21.5	721	51	17.1	657	54	14.2	0.5	0.7	0.9
1750	69	816	50	23.1	719	53	18.1	651	55	14.8	0.5	0.7	0.9
1750	103	842	49	22.5	745	53	17.6	676	55	14.6	0.5	0.7	0.9
1750	138	858	49	22.0	760	52	17.4	691	54	14.4	0.5	0.7	0.9
1750	207	874	48	21.6	776	52	17.1	706	54	14.2	0.5	0.7	0.9
2000	69	862	50	23.3	758	54	18.1	686	56	14.9	0.5	0.8	1.0
2000	103	893	50	22.6	788	53	17.6	714	55	14.5	0.5	0.8	1.0
2000	138	911	49	22.1	806	53	17.4	731	55	14.4	0.5	0.8	1.0
2000	207	931	49	21.7	825	52	17.1	750	54	14.2	0.5	0.8	1.0
2250	69	901	51	23.4	791	54	18.1	714	56	14.8	0.6	0.8	1.0
2250	103	935	50	22.7	824	53	17.7	746	55	14.5	0.6	0.8	1.0
2250	138	956	49	22.2	844	53	17.3	765	55	14.3	0.6	0.8	1.0
2250	207	978	49	21.7	866	52	17.0	786	55	14.1	0.6	0.8	1.0
2500	69	937	51	23.5	821	54	18.1	741	56	14.8	0.6	0.8	1.0
2500	103	975	50	22.7	858	54	17.7	776	56	14.5	0.6	0.8	1.0
2500	138	999	50	22.2	880	53	17.4	797	55	14.3	0.6	0.8	1.0
2500	207	1024	49	21.8	905	53	17.0	821	55	14.1	0.6	0.8	1.0

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115 to 138 kV Shielded Single Conductor Unfilled X L P E Power Cable

Direct Buried - Triplexed - Single Circuit

25°C Earth Ambient

Condr Size	Shield 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 .0010 pf & Rho 60	90	120
						100% LF							
						65°C - Aluminum Conductor - Concentric Strand							
750	69	487	50	17.9	425	54	13.6	381	56	11.0	0.4	0.6	0.8
750	103	496	50	17.6	433	53	13.5	389	56	10.9	0.4	0.6	0.8
750	138	500	49	17.4	437	53	13.3	393	55	10.8	0.4	0.6	0.8
750	207	505	49	17.2	442	53	13.2	398	55	10.8	0.4	0.6	0.8
1000	69	561	51	17.9	487	55	13.5	435	57	10.8	0.5	0.6	0.8
1000	103	574	51	17.5	499	54	13.3	447	56	10.7	0.5	0.6	0.8
1000	138	581	50	17.3	506	54	13.1	453	56	10.6	0.5	0.6	0.8
1000	207	589	50	17.1	513	54	13.1	461	56	10.5	0.5	0.6	0.8
1250	69	622	52	17.9	537	55	13.5	479	57	10.7	0.5	0.7	0.9
1250	103	639	51	17.5	554	55	13.3	495	57	10.6	0.5	0.7	0.9
1250	138	649	51	17.3	563	55	13.1	504	57	10.5	0.5	0.7	0.9
1250	207	660	51	17.1	573	54	13.0	513	56	10.5	0.5	0.7	0.9
1500	69	674	53	18.0	580	56	13.3	516	58	10.7	0.5	0.7	0.9
1500	103	695	52	17.6	600	55	13.2	535	57	10.5	0.5	0.7	0.9
1500	138	708	52	17.4	612	55	13.0	546	57	10.5	0.5	0.7	0.9
1500	207	721	51	17.1	625	55	12.9	559	57	10.3	0.5	0.7	0.9
1750	69	718	53	18.0	616	56	13.3	548	58	10.6	0.5	0.7	0.9
1750	103	743	53	17.6	640	56	13.1	570	58	10.4	0.5	0.7	0.9
1750	138	759	52	17.3	655	55	13.0	583	57	10.3	0.5	0.7	0.9
1750	207	775	52	17.0	670	55	12.8	598	57	10.2	0.5	0.7	0.9
2000	69	756	54	18.0	647	57	13.2	574	59	10.5	0.5	0.8	1.0
2000	103	786	53	17.5	675	56	13.0	600	58	10.3	0.5	0.8	1.0
2000	138	804	53	17.3	692	56	12.9	616	58	10.3	0.5	0.8	1.0
2000	207	823	52	17.0	710	55	12.7	633	57	10.1	0.5	0.8	1.0
2250	69	787	54	17.9	672	57	13.2	596	59	10.4	0.6	0.8	1.0
2250	103	820	53	17.5	703	57	12.9	624	58	10.3	0.6	0.8	1.0
2250	138	840	53	17.2	722	56	12.8	642	58	10.2	0.6	0.8	1.0
2250	207	862	53	16.9	742	56	12.6	661	58	10.1	0.6	0.8	1.0
2500	69	816	55	17.8	696	57	13.1	616	59	10.3	0.6	0.8	1.0
2500	103	853	54	17.4	730	57	12.9	648	59	10.2	0.6	0.8	1.0
2500	138	875	53	17.1	751	56	12.7	667	58	10.1	0.6	0.8	1.0
2500	207	900	53	16.8	774	56	12.5	688	58	10.0	0.6	0.8	1.0

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115 to 138 kV Shielded Single Conductor Unfilled X L P E Power Cable

Direct Buried - Triplexed - Single Circuit

25°C Earth Ambient

Condr Size	Shield 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 .0010 pf & Rho 60	90	120
						75% LF							
						50°C - Aluminum Conductor - Concentric Strand							
750	69	436	39	13.8	389	41	11.1	355	43	9.3	0.4	0.6	0.8
750	103	443	38	13.5	396	41	10.8	362	42	9.1	0.4	0.6	0.8
750	138	447	38	13.4	400	41	10.8	366	42	9.1	0.4	0.6	0.8
750	207	451	38	13.2	405	40	10.6	370	42	9.0	0.4	0.6	0.8
1000	69	504	39	14.1	448	42	11.1	407	43	9.3	0.5	0.6	0.8
1000	103	515	39	13.7	459	41	10.9	418	43	9.1	0.5	0.6	0.8
1000	138	521	39	13.5	465	41	10.7	424	43	9.0	0.5	0.6	0.8
1000	207	528	39	13.3	472	41	10.6	431	42	8.9	0.5	0.6	0.8
1250	69	561	40	14.3	496	42	11.2	450	43	9.2	0.5	0.7	0.9
1250	103	576	39	13.9	511	42	10.9	464	43	9.1	0.5	0.7	0.9
1250	138	584	39	13.7	519	42	10.8	473	43	9.0	0.5	0.7	0.9
1250	207	594	39	13.4	529	41	10.7	482	43	8.9	0.5	0.7	0.9
1500	69	609	40	14.5	537	42	11.3	486	44	9.3	0.5	0.7	0.9
1500	103	628	40	14.0	555	42	11.0	504	44	9.1	0.5	0.7	0.9
1500	138	639	40	13.7	566	42	10.9	514	43	9.0	0.5	0.7	0.9
1500	207	651	39	13.5	578	42	10.7	526	43	8.9	0.5	0.7	0.9
1750	69	650	41	14.6	572	43	11.3	517	44	9.3	0.5	0.7	0.9
1750	103	673	40	14.1	594	42	11.0	538	44	9.1	0.5	0.7	0.9
1750	138	686	40	13.9	607	42	10.9	550	44	9.0	0.5	0.7	0.9
1750	207	701	40	13.5	621	42	10.7	564	43	8.9	0.5	0.7	0.9
2000	69	686	41	14.7	602	43	11.4	543	44	9.3	0.5	0.8	1.0
2000	103	712	41	14.2	627	43	11.1	567	44	9.1	0.5	0.8	1.0
2000	138	728	40	13.9	643	42	10.9	582	44	8.9	0.5	0.8	1.0
2000	207	745	40	13.6	659	42	10.7	598	44	8.8	0.5	0.8	1.0
2250	69	716	41	14.7	627	43	11.3	565	45	9.3	0.6	0.8	1.0
2250	103	745	41	14.3	655	43	11.0	591	44	9.1	0.6	0.8	1.0
2250	138	763	40	14.0	672	43	10.9	608	44	9.0	0.6	0.8	1.0
2250	207	782	40	13.6	691	42	10.7	626	44	8.8	0.6	0.8	1.0
2500	69	743	42	14.8	650	44	11.3	585	45	9.3	0.6	0.8	1.0
2500	103	776	41	14.3	681	43	11.1	614	44	9.1	0.6	0.8	1.0
2500	138	796	41	14.0	700	43	10.9	632	44	9.0	0.6	0.8	1.0
2500	207	817	40	13.6	721	42	10.7	652	44	8.8	0.6	0.8	1.0

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115 to 138 kV Shielded Single Conductor Unfilled X L P E Power Cable

Direct Buried - Triplexed - Single Circuit

25°C Earth Ambient

Condr Size	Shield 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 .0010 pf & Rho 60	90	120
						100% LF							
						50°C - Aluminum Conductor - Concentric Strand							
750	69	392	41	11.2	341	43	8.5	305	44	6.9	0.4	0.6	0.8
750	103	399	41	11.0	348	43	8.5	312	44	6.8	0.4	0.6	0.8
750	138	403	40	10.9	352	43	8.4	316	44	6.8	0.4	0.6	0.8
750	207	408	40	10.8	356	43	8.3	320	44	6.7	0.4	0.6	0.8
1000	69	450	42	11.2	389	44	8.5	348	45	6.8	0.5	0.6	0.8
1000	103	461	41	11.0	400	43	8.3	357	45	6.7	0.5	0.6	0.8
1000	138	467	41	10.9	406	43	8.3	363	45	6.6	0.5	0.6	0.8
1000	207	474	41	10.7	413	43	8.2	370	44	6.6	0.5	0.6	0.8
1250	69	498	42	11.3	429	44	8.4	382	45	6.7	0.5	0.7	0.9
1250	103	512	42	11.0	443	44	8.3	395	45	6.7	0.5	0.7	0.9
1250	138	521	41	10.9	451	44	8.2	403	45	6.6	0.5	0.7	0.9
1250	207	530	41	10.7	460	43	8.2	411	45	6.5	0.5	0.7	0.9
1500	69	538	42	11.3	462	44	8.4	410	46	6.7	0.5	0.7	0.9
1500	103	556	42	11.0	479	44	8.3	426	45	6.6	0.5	0.7	0.9
1500	138	567	42	10.9	489	44	8.2	436	45	6.6	0.5	0.7	0.9
1500	207	579	42	10.7	501	44	8.1	447	45	6.5	0.5	0.7	0.9
1750	69	572	43	11.3	490	45	8.4	434	46	6.6	0.5	0.7	0.9
1750	103	594	42	11.0	510	44	8.2	453	46	6.5	0.5	0.7	0.9
1750	138	607	42	10.9	522	44	8.1	465	45	6.5	0.5	0.7	0.9
1750	207	621	42	10.7	536	44	8.0	477	45	6.4	0.5	0.7	0.9
2000	69	601	43	11.3	513	45	8.3	455	46	6.6	0.5	0.8	1.0
2000	103	626	43	11.0	537	45	8.1	476	46	6.5	0.5	0.8	1.0
2000	138	642	42	10.9	551	44	8.1	490	46	6.4	0.5	0.8	1.0
2000	207	658	42	10.7	567	44	8.0	504	45	6.3	0.5	0.8	1.0
2250	69	625	43	11.3	532	45	8.2	471	46	6.6	0.6	0.8	1.0
2250	103	653	43	11.0	558	45	8.1	495	46	6.4	0.6	0.8	1.0
2250	138	670	43	10.8	574	45	8.0	510	46	6.4	0.6	0.8	1.0
2250	207	689	42	10.6	592	44	7.9	526	46	6.3	0.6	0.8	1.0
2500	69	647	44	11.3	550	45	8.2	486	46	6.5	0.6	0.8	1.0
2500	103	678	43	11.0	579	45	8.1	512	46	6.4	0.6	0.8	1.0
2500	138	697	43	10.8	596	45	7.9	529	46	6.3	0.6	0.8	1.0
2500	207	718	43	10.6	616	45	7.9	547	46	6.2	0.6	0.8	1.0

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115 to 138 kV Shielded Single Conductor Unfilled X L P E Power Cable

Direct Buried - Triplexed - Single Circuit

25°C Earth Ambient

Condr Size	Shield 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
		Total Watts/ft					
90°C - Aluminum Conductor - Concentric Strand							
750	69	47.4	38.5	38.1	29.3	31.9	23.8
750	103	46.6	37.9	37.5	29.0	31.6	23.5
750	138	46.1	37.5	37.2	28.8	31.3	23.4
750	207	45.5	37.2	36.8	28.6	31.1	23.3
1000	69	50.8	40.7	40.5	30.8	33.7	24.7
1000	103	49.7	39.9	39.8	30.4	33.3	24.5
1000	138	49.1	39.5	39.4	30.1	33.0	24.3
1000	207	48.4	39.2	39.0	29.9	32.7	24.2
1250	69	53.5	42.5	42.3	31.9	35.2	25.5
1250	103	52.2	41.6	41.5	31.4	34.6	25.2
1250	138	51.5	41.1	41.1	31.1	34.3	25.0
1250	207	50.7	40.6	40.5	30.9	33.9	24.8
1500	69	56.0	43.9	44.0	32.8	36.5	26.1
1500	103	54.5	43.0	43.1	32.3	35.8	25.9
1500	138	53.7	42.5	42.6	32.0	35.4	25.6
1500	207	52.8	41.9	42.0	31.7	35.0	25.4
1750	69	58.2	45.3	45.6	33.7	37.5	26.8
1750	103	56.6	44.3	44.5	33.1	36.9	26.4
1750	138	55.7	43.8	43.9	32.8	36.5	26.2
1750	207	54.6	43.1	43.3	32.4	36.0	26.0
2000	69	60.3	46.5	46.9	34.4	38.6	27.3
2000	103	58.5	45.5	45.8	33.8	37.9	26.9
2000	138	57.4	44.9	45.2	33.5	37.4	26.7
2000	207	56.3	44.1	44.5	33.1	36.9	26.4
2250	69	62.0	47.5	48.1	35.0	39.4	27.7
2250	103	60.1	46.4	47.0	34.4	38.7	27.3
2250	138	59.0	45.8	46.3	34.1	38.2	27.1
2250	207	57.8	45.1	45.6	33.6	37.7	26.8
2500	69	63.6	48.5	49.2	35.6	40.3	28.1
2500	103	61.7	47.4	48.0	35.0	39.5	27.7
2500	138	60.5	46.7	47.4	34.6	39.0	27.5
2500	207	59.2	45.9	46.6	34.2	38.5	27.2

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115 to 138 kV Shielded Single Conductor Unfilled X L P E Power Cable

Direct Buried - Triplexed - Single Circuit

25°C Earth Ambient

Condr Size	Shield 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
		Total Watts/ft					
80°C - Aluminum Conductor - Concentric Strand							
750	69	40.3	32.6	32.3	24.9	27.1	20.2
750	103	39.4	32.1	31.8	24.6	26.8	20.0
750	138	39.0	31.8	31.5	24.4	26.6	19.9
750	207	38.7	31.5	31.3	24.2	26.4	19.8
1000	69	43.2	34.6	34.3	26.1	28.6	21.0
1000	103	42.1	33.9	33.7	25.7	28.1	20.8
1000	138	41.6	33.5	33.3	25.5	27.9	20.6
1000	207	41.0	33.1	32.9	25.3	27.7	20.5
1250	69	45.6	36.1	36.0	27.0	29.8	21.7
1250	103	44.4	35.4	35.3	26.7	29.4	21.4
1250	138	43.8	34.9	34.9	26.4	29.0	21.2
1250	207	43.1	34.5	34.4	26.2	28.7	21.1
1500	69	47.7	37.4	37.4	27.8	31.0	22.2
1500	103	46.3	36.6	36.6	27.4	30.4	21.9
1500	138	45.6	36.0	36.1	27.2	30.0	21.7
1500	207	44.8	35.6	35.6	26.8	29.7	21.5
1750	69	49.5	38.5	38.7	28.5	31.8	22.7
1750	103	48.1	37.6	37.8	28.0	31.3	22.4
1750	138	47.2	37.2	37.3	27.8	30.9	22.2
1750	207	46.4	36.6	36.7	27.5	30.5	22.0
2000	69	51.2	39.5	39.8	29.2	32.7	23.1
2000	103	49.7	38.6	38.9	28.7	32.1	22.8
2000	138	48.8	38.1	38.3	28.4	31.7	22.6
2000	207	47.8	37.4	37.7	28.0	31.3	22.4
2250	69	52.7	40.4	40.8	29.7	33.4	23.5
2250	103	51.0	39.4	39.9	29.2	32.8	23.1
2250	138	50.1	38.8	39.2	28.8	32.4	22.9
2250	207	49.0	38.2	38.6	28.5	32.0	22.7
2500	69	54.0	41.2	41.8	30.2	34.1	23.8
2500	103	52.4	40.2	40.8	29.6	33.5	23.5
2500	138	51.4	39.6	40.1	29.3	33.1	23.3
2500	207	50.2	39.0	39.5	29.0	32.6	23.0

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1260

115 to 138 kV Shielded Single Conductor Unfilled X L P E Power Cable

Direct Buried - Triplexed - Single Circuit

25°C Earth Ambient

Condr Size	Shield 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
		Total Watts/ft					
65°C - Aluminum Conductor - Concentric Strand							
750	69	29.4	23.8	23.5	18.2	19.8	14.7
750	103	28.8	23.5	23.2	18.0	19.5	14.6
750	138	28.5	23.2	23.0	17.8	19.3	14.4
750	207	28.2	23.0	22.8	17.7	19.2	14.4
1000	69	31.5	25.2	25.1	19.1	20.9	15.3
1000	103	30.8	24.8	24.6	18.8	20.6	15.2
1000	138	30.4	24.5	24.3	18.7	20.4	15.0
1000	207	29.9	24.2	24.0	18.4	20.2	15.0
1250	69	33.4	26.4	26.3	19.7	21.8	15.8
1250	103	32.5	25.8	25.7	19.5	21.4	15.6
1250	138	32.0	25.5	25.4	19.3	21.2	15.5
1250	207	31.4	25.2	25.1	19.1	20.9	15.3
1500	69	34.9	27.4	27.4	20.4	22.6	16.2
1500	103	33.9	26.7	26.7	20.0	22.2	16.0
1500	138	33.3	26.4	26.4	19.8	21.9	15.8
1500	207	32.6	25.9	25.9	19.6	21.6	15.7
1750	69	36.3	28.2	28.2	20.8	23.2	16.6
1750	103	35.2	27.5	27.6	20.5	22.8	16.3
1750	138	34.6	27.1	27.2	20.3	22.6	16.2
1750	207	33.8	26.7	26.7	20.0	22.2	16.0
2000	69	37.5	28.9	29.1	21.3	23.9	16.9
2000	103	36.3	28.2	28.4	20.9	23.4	16.6
2000	138	35.6	27.8	28.0	20.7	23.1	16.5
2000	207	34.9	27.3	27.5	20.4	22.8	16.3
2250	69	38.6	29.6	29.8	21.7	24.4	17.1
2250	103	37.3	28.8	29.1	21.3	23.9	16.9
2250	138	36.6	28.4	28.6	21.1	23.6	16.7
2250	207	35.8	27.9	28.1	20.8	23.3	16.6
2500	69	39.6	30.1	30.5	22.1	24.9	17.4
2500	103	38.3	29.4	29.8	21.7	24.4	17.2
2500	138	37.6	28.9	29.3	21.4	24.1	17.0
2500	207	36.7	28.4	28.7	21.1	23.7	16.8

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115 to 138 kV Shielded Single Conductor Unfilled X L P E Power Cable

Direct Buried - Triplexed - Single Circuit

25°C Earth Ambient

Condr Size	Shield 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
		Total Watts/ft					
50°C - Aluminum Conductor - Concentric Strand							
750	69	18.5	15.0	14.8	11.5	12.4	9.2
750	103	18.1	14.8	14.5	11.3	12.2	9.1
750	138	17.9	14.6	14.4	11.2	12.1	9.1
750	207	17.6	14.5	14.3	11.1	11.9	9.0
1000	69	19.9	15.9	15.8	12.0	13.1	9.6
1000	103	19.4	15.6	15.5	11.8	12.9	9.5
1000	138	19.0	15.4	15.2	11.7	12.7	9.4
1000	207	18.8	15.2	15.1	11.6	12.6	9.4
1250	69	21.0	16.6	16.5	12.4	13.6	9.9
1250	103	20.4	16.2	16.2	12.2	13.4	9.8
1250	138	20.0	16.0	15.9	12.1	13.3	9.7
1250	207	19.7	15.8	15.7	12.0	13.1	9.6
1500	69	21.9	17.2	17.1	12.8	14.1	10.2
1500	103	21.3	16.8	16.7	12.6	13.9	10.0
1500	138	20.9	16.5	16.5	12.4	13.7	9.9
1500	207	20.5	16.3	16.2	12.3	13.5	9.9
1750	69	22.8	17.7	17.7	13.1	14.6	10.4
1750	103	22.1	17.3	17.3	12.9	14.3	10.2
1750	138	21.7	17.0	17.0	12.7	14.1	10.2
1750	207	21.2	16.7	16.7	12.6	13.9	10.0
2000	69	23.6	18.2	18.3	13.4	14.9	10.6
2000	103	22.8	17.7	17.8	13.2	14.6	10.4
2000	138	22.4	17.5	17.5	13.0	14.4	10.4
2000	207	21.9	17.1	17.2	12.8	14.2	10.2
2250	69	24.3	18.6	18.7	13.6	15.3	10.8
2250	103	23.5	18.1	18.3	13.4	14.9	10.6
2250	138	23.0	17.8	17.9	13.2	14.8	10.5
2250	207	22.5	17.5	17.6	13.1	14.5	10.4
2500	69	24.9	19.0	19.1	13.8	15.6	10.9
2500	103	24.1	18.5	18.7	13.6	15.3	10.8
2500	138	23.6	18.2	18.4	13.4	15.0	10.7
2500	207	23.0	17.9	18.0	13.3	14.8	10.6

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115 to 138 kV Shielded Single Conductor Unfilled X L P E Power Cable

Direct Buried - Triplexed - Single Circuit

25°C Earth Ambient

Condr Size	Sheath Res	OD	Wd	Rac	Qs	Ri	Rj	Re @ 90 Rho & loss factor 75%	100%
			90°C - Aluminum Conductor - Concentric Strand						
750	69	3.218	0.10	30.05	1.164	1.93	0.29	3.18	4.71
750	103	3.218	0.10	30.05	1.113	1.93	0.29	3.18	4.71
750	138	3.218	0.10	30.05	1.085	1.93	0.29	3.18	4.71
750	207	3.218	0.10	30.05	1.057	1.93	0.29	3.18	4.71
1000	69	3.407	0.11	22.78	1.216	1.76	0.27	3.10	4.63
1000	103	3.407	0.11	22.78	1.149	1.76	0.27	3.10	4.63
1000	138	3.407	0.11	22.78	1.112	1.76	0.27	3.10	4.63
1000	207	3.407	0.11	22.78	1.075	1.76	0.27	3.10	4.63
1250	69	3.540	0.12	18.47	1.265	1.64	0.26	3.04	4.57
1250	103	3.540	0.12	18.47	1.182	1.64	0.26	3.04	4.57
1250	138	3.540	0.12	18.47	1.137	1.64	0.26	3.04	4.57
1250	207	3.540	0.12	18.47	1.092	1.64	0.26	3.04	4.57
1500	69	3.660	0.13	15.64	1.311	1.54	0.25	2.99	4.53
1500	103	3.660	0.13	15.64	1.214	1.54	0.25	2.99	4.53
1500	138	3.660	0.13	15.64	1.161	1.54	0.25	2.99	4.53
1500	207	3.660	0.13	15.64	1.108	1.54	0.25	2.99	4.53
1750	69	3.770	0.13	13.67	1.354	1.46	0.24	2.95	4.48
1750	103	3.770	0.13	13.67	1.244	1.46	0.24	2.95	4.48
1750	138	3.770	0.13	13.67	1.184	1.46	0.24	2.95	4.48
1750	207	3.770	0.13	13.67	1.123	1.46	0.24	2.95	4.48
2000	69	3.873	0.14	12.22	1.395	1.39	0.24	2.91	4.45
2000	103	3.873	0.14	12.22	1.272	1.39	0.24	2.91	4.45
2000	138	3.873	0.14	12.22	1.205	1.39	0.24	2.91	4.45
2000	207	3.873	0.14	12.22	1.137	1.39	0.24	2.91	4.45
2250	69	3.968	0.15	11.20	1.429	1.34	0.23	2.88	4.41
2250	103	3.968	0.15	11.20	1.295	1.34	0.23	2.88	4.41
2250	138	3.968	0.15	11.20	1.222	1.34	0.23	2.88	4.41
2250	207	3.968	0.15	11.20	1.149	1.34	0.23	2.88	4.41
2500	69	4.059	0.15	10.33	1.464	1.29	0.22	2.85	4.38
2500	103	4.059	0.15	10.33	1.319	1.29	0.22	2.85	4.38
2500	138	4.059	0.15	10.33	1.240	1.29	0.22	2.85	4.38
2500	207	4.059	0.15	10.33	1.161	1.29	0.22	2.85	4.38

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115 to 138 kV Shielded Single Conductor Unfilled X L P E Power Cable

Direct Buried - Triplexed - Single Circuit

25°C Earth Ambient

Condr Size	Sheath Res	OD	Wd	Rac	Qs	Ri	Rj	Re @ 90 Rho & loss factor 75%	100%
			80°C - Aluminum Conductor - Concentric Strand						
750	69	3.218	0.10	30.05	1.164	1.93	0.29	3.18	4.71
750	103	3.218	0.10	30.05	1.113	1.93	0.29	3.18	4.71
750	138	3.218	0.10	30.05	1.085	1.93	0.29	3.18	4.71
750	207	3.218	0.10	30.05	1.057	1.93	0.29	3.18	4.71
1000	69	3.407	0.11	22.78	1.216	1.76	0.27	3.10	4.63
1000	103	3.407	0.11	22.78	1.149	1.76	0.27	3.10	4.63
1000	138	3.407	0.11	22.78	1.112	1.76	0.27	3.10	4.63
1000	207	3.407	0.11	22.78	1.075	1.76	0.27	3.10	4.63
1250	69	3.540	0.12	18.47	1.265	1.64	0.26	3.04	4.57
1250	103	3.540	0.12	18.47	1.182	1.64	0.26	3.04	4.57
1250	138	3.540	0.12	18.47	1.137	1.64	0.26	3.04	4.57
1250	207	3.540	0.12	18.47	1.092	1.64	0.26	3.04	4.57
1500	69	3.660	0.13	15.64	1.311	1.54	0.25	2.99	4.53
1500	103	3.660	0.13	15.64	1.214	1.54	0.25	2.99	4.53
1500	138	3.660	0.13	15.64	1.161	1.54	0.25	2.99	4.53
1500	207	3.660	0.13	15.64	1.108	1.54	0.25	2.99	4.53
1750	69	3.770	0.13	13.67	1.354	1.46	0.24	2.95	4.48
1750	103	3.770	0.13	13.67	1.244	1.46	0.24	2.95	4.48
1750	138	3.770	0.13	13.67	1.184	1.46	0.24	2.95	4.48
1750	207	3.770	0.13	13.67	1.123	1.46	0.24	2.95	4.48
2000	69	3.873	0.14	12.22	1.395	1.39	0.24	2.91	4.45
2000	103	3.873	0.14	12.22	1.272	1.39	0.24	2.91	4.45
2000	138	3.873	0.14	12.22	1.205	1.39	0.24	2.91	4.45
2000	207	3.873	0.14	12.22	1.137	1.39	0.24	2.91	4.45
2250	69	3.968	0.15	11.20	1.429	1.34	0.23	2.88	4.41
2250	103	3.968	0.15	11.20	1.295	1.34	0.23	2.88	4.41
2250	138	3.968	0.15	11.20	1.222	1.34	0.23	2.88	4.41
2250	207	3.968	0.15	11.20	1.149	1.34	0.23	2.88	4.41
2500	69	4.059	0.15	10.33	1.464	1.29	0.22	2.85	4.38
2500	103	4.059	0.15	10.33	1.319	1.29	0.22	2.85	4.38
2500	138	4.059	0.15	10.33	1.240	1.29	0.22	2.85	4.38
2500	207	4.059	0.15	10.33	1.161	1.29	0.22	2.85	4.38

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115 to 138 kV Shielded Single Conductor Unfilled X L P E Power Cable

Direct Buried - Triplexed - Single Circuit

25°C Earth Ambient

Condr Size	Sheath Res	OD	Wd	Rac	Qs	Ri	Rj	Re @ 90 loss 75%	Rho & factor 100%
			65°C - Aluminum Conductor - Concentric Strand						
750	69	3.218	0.10	30.05	1.164	1.93	0.29	3.18	4.71
750	103	3.218	0.10	30.05	1.113	1.93	0.29	3.18	4.71
750	138	3.218	0.10	30.05	1.085	1.93	0.29	3.18	4.71
750	207	3.218	0.10	30.05	1.057	1.93	0.29	3.18	4.71
1000	69	3.407	0.11	22.78	1.216	1.76	0.27	3.10	4.63
1000	103	3.407	0.11	22.78	1.149	1.76	0.27	3.10	4.63
1000	138	3.407	0.11	22.78	1.112	1.76	0.27	3.10	4.63
1000	207	3.407	0.11	22.78	1.075	1.76	0.27	3.10	4.63
1250	69	3.540	0.12	18.47	1.265	1.64	0.26	3.04	4.57
1250	103	3.540	0.12	18.47	1.182	1.64	0.26	3.04	4.57
1250	138	3.540	0.12	18.47	1.137	1.64	0.26	3.04	4.57
1250	207	3.540	0.12	18.47	1.092	1.64	0.26	3.04	4.57
1500	69	3.660	0.13	15.64	1.311	1.54	0.25	2.99	4.53
1500	103	3.660	0.13	15.64	1.214	1.54	0.25	2.99	4.53
1500	138	3.660	0.13	15.64	1.161	1.54	0.25	2.99	4.53
1500	207	3.660	0.13	15.64	1.108	1.54	0.25	2.99	4.53
1750	69	3.770	0.13	13.67	1.354	1.46	0.24	2.95	4.48
1750	103	3.770	0.13	13.67	1.244	1.46	0.24	2.95	4.48
1750	138	3.770	0.13	13.67	1.184	1.46	0.24	2.95	4.48
1750	207	3.770	0.13	13.67	1.123	1.46	0.24	2.95	4.48
2000	69	3.873	0.14	12.22	1.395	1.39	0.24	2.91	4.45
2000	103	3.873	0.14	12.22	1.272	1.39	0.24	2.91	4.45
2000	138	3.873	0.14	12.22	1.205	1.39	0.24	2.91	4.45
2000	207	3.873	0.14	12.22	1.137	1.39	0.24	2.91	4.45
2250	69	3.968	0.15	11.20	1.429	1.34	0.23	2.88	4.41
2250	103	3.968	0.15	11.20	1.295	1.34	0.23	2.88	4.41
2250	138	3.968	0.15	11.20	1.222	1.34	0.23	2.88	4.41
2250	207	3.968	0.15	11.20	1.149	1.34	0.23	2.88	4.41
2500	69	4.059	0.15	10.33	1.464	1.29	0.22	2.85	4.38
2500	103	4.059	0.15	10.33	1.319	1.29	0.22	2.85	4.38
2500	138	4.059	0.15	10.33	1.240	1.29	0.22	2.85	4.38
2500	207	4.059	0.15	10.33	1.161	1.29	0.22	2.85	4.38

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115 to 138 kV Shielded Single Conductor Unfilled X L P E Power Cable

Direct Buried - Triplexed - Single Circuit

25°C Earth Ambient

Condr Size	Sheath Res	OD	Wd	Rac	Qs	Ri	Rj	Re @ 90 Rho & loss factor 75%	Re @ 90 Rho & loss factor 100%
			50°C - Aluminum Conductor - Concentric Strand						
750	69	3.218	0.10	30.05	1.164	1.93	0.29	3.18	4.71
750	103	3.218	0.10	30.05	1.113	1.93	0.29	3.18	4.71
750	138	3.218	0.10	30.05	1.085	1.93	0.29	3.18	4.71
750	207	3.218	0.10	30.05	1.057	1.93	0.29	3.18	4.71
1000	69	3.407	0.11	22.78	1.216	1.76	0.27	3.10	4.63
1000	103	3.407	0.11	22.78	1.149	1.76	0.27	3.10	4.63
1000	138	3.407	0.11	22.78	1.112	1.76	0.27	3.10	4.63
1000	207	3.407	0.11	22.78	1.075	1.76	0.27	3.10	4.63
1250	69	3.540	0.12	18.47	1.265	1.64	0.26	3.04	4.57
1250	103	3.540	0.12	18.47	1.182	1.64	0.26	3.04	4.57
1250	138	3.540	0.12	18.47	1.137	1.64	0.26	3.04	4.57
1250	207	3.540	0.12	18.47	1.092	1.64	0.26	3.04	4.57
1500	69	3.660	0.13	15.64	1.311	1.54	0.25	2.99	4.53
1500	103	3.660	0.13	15.64	1.214	1.54	0.25	2.99	4.53
1500	138	3.660	0.13	15.64	1.161	1.54	0.25	2.99	4.53
1500	207	3.660	0.13	15.64	1.108	1.54	0.25	2.99	4.53
1750	69	3.770	0.13	13.67	1.354	1.46	0.24	2.95	4.48
1750	103	3.770	0.13	13.67	1.244	1.46	0.24	2.95	4.48
1750	138	3.770	0.13	13.67	1.184	1.46	0.24	2.95	4.48
1750	207	3.770	0.13	13.67	1.123	1.46	0.24	2.95	4.48
2000	69	3.873	0.14	12.22	1.395	1.39	0.24	2.91	4.45
2000	103	3.873	0.14	12.22	1.272	1.39	0.24	2.91	4.45
2000	138	3.873	0.14	12.22	1.205	1.39	0.24	2.91	4.45
2000	207	3.873	0.14	12.22	1.137	1.39	0.24	2.91	4.45
2250	69	3.968	0.15	11.20	1.429	1.34	0.23	2.88	4.41
2250	103	3.968	0.15	11.20	1.295	1.34	0.23	2.88	4.41
2250	138	3.968	0.15	11.20	1.222	1.34	0.23	2.88	4.41
2250	207	3.968	0.15	11.20	1.149	1.34	0.23	2.88	4.41
2500	69	4.059	0.15	10.33	1.464	1.29	0.22	2.85	4.38
2500	103	4.059	0.15	10.33	1.319	1.29	0.22	2.85	4.38
2500	138	4.059	0.15	10.33	1.240	1.29	0.22	2.85	4.38
2500	207	4.059	0.15	10.33	1.161	1.29	0.22	2.85	4.38

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1266

115 to 138 kV Shielded Single Conductor Unfilled X L P E Power Cable

Direct Buried - Triplexed - Double Circuit

25°C Earth Ambient

Condr Size	Shield 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 .0010 pf & Rho 60	90	120
						75% LF							
						90°C - Aluminum Conductor - Concentric Strand							
750	69	597	66	28.2	523	71	21.8	472	75	17.7	0.6	0.9	1.1
750	103	606	65	27.7	532	71	21.5	481	74	17.6	0.6	0.9	1.1
750	138	611	65	27.5	537	71	21.3	485	74	17.5	0.6	0.9	1.1
750	207	616	65	27.3	542	70	21.2	490	74	17.4	0.6	0.9	1.1
1000	69	689	67	28.1	602	73	21.5	541	76	17.4	0.7	0.9	1.2
1000	103	703	67	27.6	615	72	21.2	554	76	17.2	0.7	0.9	1.2
1000	138	711	66	27.4	623	72	21.1	561	75	17.2	0.7	0.9	1.2
1000	207	719	66	27.1	631	71	20.9	569	75	17.0	0.7	0.9	1.2
1250	69	766	69	28.2	666	74	21.4	598	77	17.3	0.7	1.0	1.3
1250	103	785	68	27.7	684	73	21.1	615	76	17.1	0.7	1.0	1.3
1250	138	796	67	27.4	694	73	20.9	625	76	16.9	0.7	1.0	1.3
1250	207	807	67	27.1	705	72	20.7	635	76	16.9	0.7	1.0	1.3
1500	69	832	70	28.3	721	75	21.3	646	78	17.2	0.7	1.0	1.3
1500	103	855	69	27.7	744	74	21.0	667	77	16.9	0.7	1.0	1.3
1500	138	869	68	27.4	757	74	20.8	679	77	16.8	0.7	1.0	1.3
1500	207	884	68	27.0	771	73	20.6	693	76	16.6	0.7	1.0	1.3
1750	69	888	71	28.2	768	76	21.2	687	79	17.0	0.8	1.1	1.4
1750	103	917	70	27.6	795	75	20.8	712	78	16.8	0.8	1.1	1.4
1750	138	934	69	27.3	811	74	20.6	727	77	16.7	0.8	1.1	1.4
1750	207	952	69	26.9	828	74	20.4	743	77	16.5	0.8	1.1	1.4
2000	69	938	72	28.2	809	76	21.1	723	79	16.8	0.8	1.1	1.4
2000	103	971	71	27.6	840	75	20.7	752	78	16.7	0.8	1.1	1.4
2000	138	991	70	27.2	859	75	20.5	769	78	16.5	0.8	1.1	1.4
2000	207	1012	69	26.8	879	74	20.3	788	77	16.3	0.8	1.1	1.4
2250	69	978	72	28.1	842	77	20.9	751	80	16.7	0.8	1.1	1.5
2250	103	1015	71	27.5	877	76	20.6	784	79	16.5	0.8	1.1	1.5
2250	138	1038	71	27.1	898	75	20.4	804	78	16.3	0.8	1.1	1.5
2250	207	1062	70	26.7	921	75	20.1	825	78	16.2	0.8	1.1	1.5
2500	69	1016	73	28.0	874	77	20.8	779	80	16.5	0.8	1.2	1.5
2500	103	1058	72	27.4	913	76	20.5	815	79	16.4	0.8	1.2	1.5
2500	138	1083	71	27.0	936	76	20.2	836	79	16.2	0.8	1.2	1.5
2500	207	1110	70	26.6	961	75	20.0	860	78	16.1	0.8	1.2	1.5

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115 to 138 kV Shielded Single Conductor Unfilled X L P E Power Cable

Direct Buried - Triplexed - Double Circuit

25°C Earth Ambient

Condr Size	Shield 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 .0010 pf & Rho 60	90	120
						100% LF							
						90°C - Aluminum Conductor - Concentric Strand							
750	69	521	72	21.5	447	77	15.9	397	79	12.6	0.6	0.9	1.1
750	103	530	71	21.3	455	76	15.8	404	79	12.5	0.6	0.9	1.1
750	138	535	71	21.2	459	76	15.7	409	79	12.4	0.6	0.9	1.1
750	207	540	71	21.0	464	76	15.6	413	79	12.4	0.6	0.9	1.1
1000	69	598	73	21.2	510	78	15.5	452	80	12.2	0.7	0.9	1.2
1000	103	611	72	21.0	522	77	15.4	463	80	12.2	0.7	0.9	1.2
1000	138	619	72	20.8	529	77	15.3	470	80	12.1	0.7	0.9	1.2
1000	207	627	72	20.6	537	77	15.2	477	79	12.0	0.7	0.9	1.2
1250	69	661	74	21.1	562	79	15.3	497	81	12.0	0.7	1.0	1.3
1250	103	679	74	20.8	578	78	15.2	512	81	11.9	0.7	1.0	1.3
1250	138	689	73	20.6	588	78	15.0	521	80	11.8	0.7	1.0	1.3
1250	207	700	73	20.4	598	77	15.0	530	80	11.8	0.7	1.0	1.3
1500	69	714	75	20.9	606	79	15.1	535	82	11.8	0.7	1.0	1.3
1500	103	737	74	20.6	626	79	14.9	553	81	11.7	0.7	1.0	1.3
1500	138	750	74	20.4	638	78	14.9	564	81	11.6	0.7	1.0	1.3
1500	207	764	73	20.2	651	78	14.7	576	81	11.6	0.7	1.0	1.3
1750	69	760	76	20.7	643	80	14.9	567	82	11.6	0.8	1.1	1.4
1750	103	787	75	20.4	667	79	14.7	589	82	11.6	0.8	1.1	1.4
1750	138	803	75	20.2	682	79	14.6	602	81	11.5	0.8	1.1	1.4
1750	207	820	74	20.0	697	79	14.6	616	81	11.4	0.8	1.1	1.4
2000	69	800	77	20.6	675	80	14.7	594	83	11.5	0.8	1.1	1.4
2000	103	831	76	20.3	703	80	14.5	620	82	11.4	0.8	1.1	1.4
2000	138	849	75	20.0	720	79	14.5	635	82	11.3	0.8	1.1	1.4
2000	207	869	75	19.8	738	79	14.4	651	81	11.2	0.8	1.1	1.4
2250	69	831	77	20.4	701	81	14.6	617	83	11.3	0.8	1.1	1.5
2250	103	866	76	20.1	732	80	14.4	645	82	11.2	0.8	1.1	1.5
2250	138	887	76	19.8	751	80	14.3	662	82	11.2	0.8	1.1	1.5
2250	207	909	75	19.7	771	79	14.2	680	82	11.1	0.8	1.1	1.5
2500	69	861	78	20.2	725	81	14.4	637	83	11.2	0.8	1.2	1.5
2500	103	900	77	19.9	759	81	14.2	668	83	11.1	0.8	1.2	1.5
2500	138	923	76	19.7	780	80	14.1	687	82	11.0	0.8	1.2	1.5
2500	207	948	76	19.4	803	80	14.0	708	82	11.0	0.8	1.2	1.5

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1268

115 to 138 kV Shielded Single Conductor Unfilled X L P E Power Cable

Direct Buried - Triplexed - Double Circuit

25°C Earth Ambient

Condr Size	Shield 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 .0010 pf & Rho 60	90	120
						75% LF							
						80°C - Aluminum Conductor - Concentric Strand							
750	69	556	60	23.9	487	64	18.4	439	67	15.0	0.6	0.9	1.1
750	103	564	59	23.6	495	64	18.2	447	67	14.9	0.6	0.9	1.1
750	138	569	59	23.3	500	64	18.1	452	67	14.8	0.6	0.9	1.1
750	207	575	59	23.1	506	63	18.0	457	67	14.7	0.6	0.9	1.1
1000	69	641	61	23.9	559	66	18.2	502	68	14.8	0.7	0.9	1.2
1000	103	654	60	23.5	572	65	17.9	515	68	14.6	0.7	0.9	1.2
1000	138	662	60	23.2	579	65	17.8	522	68	14.5	0.7	0.9	1.2
1000	207	670	60	23.0	587	64	17.7	529	67	14.4	0.7	0.9	1.2
1250	69	711	62	23.9	618	67	18.2	554	69	14.6	0.7	1.0	1.3
1250	103	730	61	23.5	636	66	17.9	571	69	14.5	0.7	1.0	1.3
1250	138	740	61	23.2	646	66	17.7	580	68	14.3	0.7	1.0	1.3
1250	207	751	61	22.9	656	65	17.5	591	68	14.3	0.7	1.0	1.3
1500	69	771	63	24.0	668	67	18.1	598	70	14.5	0.7	1.0	1.3
1500	103	794	62	23.5	690	67	17.8	618	69	14.3	0.7	1.0	1.3
1500	138	808	62	23.2	703	66	17.6	631	69	14.2	0.7	1.0	1.3
1500	207	822	61	22.9	717	66	17.4	644	69	14.1	0.7	1.0	1.3
1750	69	823	64	23.9	711	68	17.9	635	70	14.4	0.8	1.1	1.4
1750	103	851	63	23.4	737	67	17.7	660	70	14.2	0.8	1.1	1.4
1750	138	867	63	23.1	752	67	17.5	674	69	14.1	0.8	1.1	1.4
1750	207	885	62	22.8	769	66	17.3	690	69	14.0	0.8	1.1	1.4
2000	69	868	65	23.9	748	69	17.8	668	71	14.3	0.8	1.1	1.4
2000	103	900	64	23.4	778	68	17.5	696	70	14.1	0.8	1.1	1.4
2000	138	919	63	23.1	796	67	17.3	712	70	14.0	0.8	1.1	1.4
2000	207	940	63	22.7	815	67	17.2	731	69	13.8	0.8	1.1	1.4
2250	69	904	65	23.8	778	69	17.7	694	71	14.1	0.8	1.1	1.5
2250	103	940	64	23.3	812	68	17.4	725	71	14.0	0.8	1.1	1.5
2250	138	962	64	23.0	832	68	17.2	744	70	13.8	0.8	1.1	1.5
2250	207	986	63	22.6	854	67	17.0	764	70	13.7	0.8	1.1	1.5
2500	69	938	66	23.8	806	69	17.6	718	72	14.1	0.8	1.2	1.5
2500	103	979	65	23.2	843	69	17.3	752	71	13.8	0.8	1.2	1.5
2500	138	1003	64	22.9	866	68	17.1	773	71	13.7	0.8	1.2	1.5
2500	207	1030	64	22.5	891	68	16.9	796	70	13.6	0.8	1.2	1.5

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115 to 138 kV Shielded Single Conductor Unfilled X L P E Power Cable

Direct Buried - Triplexed - Double Circuit

25°C Earth Ambient

Condr Size	Shield 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 .0010 pf & Rho 60	90	120
						100% LF							
						80°C - Aluminum Conductor - Concentric Strand							
750	69	485	65	18.2	415	69	13.5	369	71	10.6	0.6	0.9	1.1
750	103	494	64	18.1	423	68	13.3	376	71	10.5	0.6	0.9	1.1
750	138	498	64	18.0	428	68	13.3	380	71	10.5	0.6	0.9	1.1
750	207	504	64	17.8	433	68	13.2	385	70	10.5	0.6	0.9	1.1
1000	69	555	66	18.0	474	70	13.1	419	72	10.4	0.7	0.9	1.2
1000	103	568	65	17.7	486	69	13.0	430	72	10.3	0.7	0.9	1.2
1000	138	576	65	17.6	492	69	12.9	437	71	10.2	0.7	0.9	1.2
1000	207	584	65	17.4	500	69	12.9	443	71	10.2	0.7	0.9	1.2
1250	69	613	67	17.9	521	70	13.0	461	73	10.2	0.7	1.0	1.3
1250	103	631	66	17.6	537	70	12.9	475	72	10.1	0.7	1.0	1.3
1250	138	641	66	17.5	546	70	12.8	484	72	10.1	0.7	1.0	1.3
1250	207	652	65	17.3	556	69	12.6	493	72	10.0	0.7	1.0	1.3
1500	69	662	68	17.8	561	71	12.8	495	73	10.0	0.7	1.0	1.3
1500	103	684	67	17.5	581	71	12.7	513	73	9.9	0.7	1.0	1.3
1500	138	697	67	17.3	592	70	12.6	524	72	9.9	0.7	1.0	1.3
1500	207	710	66	17.1	605	70	12.5	535	72	9.8	0.7	1.0	1.3
1750	69	704	68	17.6	595	72	12.6	524	74	9.9	0.8	1.1	1.4
1750	103	730	68	17.3	618	71	12.5	545	73	9.8	0.8	1.1	1.4
1750	138	745	67	17.2	632	71	12.4	558	73	9.7	0.8	1.1	1.4
1750	207	762	67	17.0	647	70	12.3	572	73	9.6	0.8	1.1	1.4
2000	69	739	69	17.5	624	72	12.5	549	74	9.8	0.8	1.1	1.4
2000	103	769	68	17.2	651	72	12.4	573	73	9.6	0.8	1.1	1.4
2000	138	787	68	17.0	667	71	12.2	588	73	9.6	0.8	1.1	1.4
2000	207	807	67	16.8	684	71	12.2	604	73	9.5	0.8	1.1	1.4
2250	69	768	69	17.3	647	72	12.4	569	74	9.6	0.8	1.1	1.5
2250	103	802	69	17.0	677	72	12.2	596	74	9.5	0.8	1.1	1.5
2250	138	822	68	16.9	695	72	12.1	612	73	9.5	0.8	1.1	1.5
2250	207	844	68	16.6	715	71	12.0	630	73	9.4	0.8	1.1	1.5
2500	69	795	70	17.1	669	73	12.2	587	74	9.5	0.8	1.2	1.5
2500	103	832	69	16.8	702	72	12.1	617	74	9.4	0.8	1.2	1.5
2500	138	855	69	16.7	722	72	12.0	635	74	9.3	0.8	1.2	1.5
2500	207	879	68	16.5	744	71	11.9	655	73	9.3	0.8	1.2	1.5

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1270

115 to 138 kV Shielded Single Conductor Unfilled X L P E Power Cable

Direct Buried - Triplexed - Double Circuit

25°C Earth Ambient

Condr Size	Shield 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 .0010 pf & Rho 60	90	120
						75% LF							
						65°C - Aluminum Conductor - Concentric Strand							
750	69	482	50	17.4	422	54	13.4	380	56	10.9	0.6	0.9	1.1
750	103	490	50	17.2	430	54	13.2	387	56	10.8	0.6	0.9	1.1
750	138	495	50	17.1	435	53	13.2	392	56	10.8	0.6	0.9	1.1
750	207	500	50	16.8	439	53	13.1	397	55	10.7	0.6	0.9	1.1
1000	69	555	51	17.4	483	55	13.3	434	57	10.7	0.7	0.9	1.2
1000	103	567	51	17.1	495	54	13.1	445	56	10.6	0.7	0.9	1.2
1000	138	575	51	17.0	502	54	13.0	452	56	10.5	0.7	0.9	1.2
1000	207	582	50	16.7	510	54	12.9	459	56	10.5	0.7	0.9	1.2
1250	69	615	52	17.5	533	55	13.3	478	57	10.7	0.7	1.0	1.3
1250	103	632	52	17.1	549	55	13.1	493	57	10.5	0.7	1.0	1.3
1250	138	641	51	16.9	559	55	12.9	502	57	10.5	0.7	1.0	1.3
1250	207	652	51	16.7	569	54	12.8	511	56	10.3	0.7	1.0	1.3
1500	69	665	53	17.5	575	56	13.2	514	58	10.6	0.7	1.0	1.3
1500	103	686	52	17.2	595	56	13.0	533	57	10.5	0.7	1.0	1.3
1500	138	699	52	16.9	607	55	12.8	544	57	10.3	0.7	1.0	1.3
1500	207	713	52	16.6	620	55	12.7	556	57	10.3	0.7	1.0	1.3
1750	69	708	54	17.5	611	56	13.1	545	58	10.5	0.8	1.1	1.4
1750	103	734	53	17.1	635	56	12.9	567	58	10.3	0.8	1.1	1.4
1750	138	749	53	16.9	649	56	12.8	581	58	10.3	0.8	1.1	1.4
1750	207	766	52	16.6	665	55	12.6	595	57	10.2	0.8	1.1	1.4
2000	69	746	54	17.5	642	57	13.0	572	59	10.4	0.8	1.1	1.4
2000	103	775	53	17.1	669	56	12.8	597	58	10.3	0.8	1.1	1.4
2000	138	793	53	16.8	686	56	12.7	613	58	10.1	0.8	1.1	1.4
2000	207	812	53	16.5	704	56	12.5	630	58	10.1	0.8	1.1	1.4
2250	69	776	54	17.4	666	57	12.9	593	59	10.3	0.8	1.1	1.5
2250	103	809	54	17.0	697	57	12.7	621	58	10.1	0.8	1.1	1.5
2250	138	829	53	16.7	716	56	12.6	639	58	10.1	0.8	1.1	1.5
2250	207	851	53	16.5	736	56	12.4	658	58	9.9	0.8	1.1	1.5
2500	69	804	55	17.4	690	58	12.9	613	59	10.2	0.8	1.2	1.5
2500	103	841	54	17.0	723	57	12.6	644	59	10.1	0.8	1.2	1.5
2500	138	863	54	16.7	744	57	12.5	663	58	10.0	0.8	1.2	1.5
2500	207	888	53	16.4	767	56	12.3	685	58	9.8	0.8	1.2	1.5

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115 to 138 kV Shielded Single Conductor Unfilled X L P E Power Cable

Direct Buried - Triplexed - Double Circuit

25°C Earth Ambient

Condr Size	Shield 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 .0010 pf & Rho 60	90	120
						100% LF							
						65°C - Aluminum Conductor - Concentric Strand							
750	69	420	54	13.3	360	57	9.8	319	59	7.8	0.6	0.9	1.1
750	103	429	54	13.2	367	57	9.7	326	58	7.7	0.6	0.9	1.1
750	138	433	53	13.1	371	56	9.6	330	58	7.7	0.6	0.9	1.1
750	207	438	53	13.0	376	56	9.6	334	58	7.6	0.6	0.9	1.1
1000	69	481	55	13.1	409	58	9.6	362	59	7.6	0.7	0.9	1.2
1000	103	493	54	12.9	420	57	9.5	372	59	7.5	0.7	0.9	1.2
1000	138	500	54	12.9	427	57	9.5	378	59	7.5	0.7	0.9	1.2
1000	207	507	54	12.7	434	57	9.4	384	59	7.4	0.7	0.9	1.2
1250	69	530	56	13.1	449	58	9.5	396	60	7.4	0.7	1.0	1.3
1250	103	546	55	12.9	464	58	9.4	410	59	7.3	0.7	1.0	1.3
1250	138	555	55	12.7	473	58	9.3	418	59	7.3	0.7	1.0	1.3
1250	207	565	55	12.6	482	57	9.2	426	59	7.3	0.7	1.0	1.3
1500	69	571	56	13.0	483	59	9.3	425	60	7.3	0.7	1.0	1.3
1500	103	591	56	12.8	501	58	9.2	442	60	7.2	0.7	1.0	1.3
1500	138	602	55	12.6	512	58	9.1	452	60	7.2	0.7	1.0	1.3
1500	207	615	55	12.5	523	58	9.1	462	59	7.2	0.7	1.0	1.3
1750	69	605	57	12.8	511	59	9.3	449	60	7.2	0.8	1.1	1.4
1750	103	629	56	12.6	532	59	9.1	469	60	7.2	0.8	1.1	1.4
1750	138	643	56	12.5	545	58	9.1	480	60	7.1	0.8	1.1	1.4
1750	207	659	55	12.4	559	58	9.0	493	60	7.0	0.8	1.1	1.4
2000	69	635	57	12.7	535	59	9.1	470	61	7.1	0.8	1.1	1.4
2000	103	662	57	12.6	559	59	9.0	492	60	7.0	0.8	1.1	1.4
2000	138	679	56	12.4	574	59	8.9	505	60	7.0	0.8	1.1	1.4
2000	207	697	56	12.2	590	58	8.9	520	60	7.0	0.8	1.1	1.4
2250	69	659	57	12.6	554	60	9.0	486	61	7.0	0.8	1.1	1.5
2250	103	689	57	12.4	581	59	8.9	510	61	6.9	0.8	1.1	1.5
2250	138	707	57	12.3	597	59	8.9	525	60	6.9	0.8	1.1	1.5
2250	207	728	56	12.1	616	59	8.7	542	60	6.9	0.8	1.1	1.5
2500	69	681	58	12.5	572	60	8.9	501	61	6.9	0.8	1.2	1.5
2500	103	714	57	12.3	601	59	8.8	528	61	6.8	0.8	1.2	1.5
2500	138	735	57	12.2	619	59	8.7	544	61	6.8	0.8	1.2	1.5
2500	207	757	56	12.0	640	59	8.7	563	60	6.8	0.8	1.2	1.5

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115 to 138 kV Shielded Single Conductor Unfilled X L P E Power Cable

Direct Buried - Triplexed - Double Circuit

25°C Earth Ambient

Condr Size	Shield 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 .0010 pf & Rho 60	90	120
						75% LF							
						50°C - Aluminum Conductor - Concentric Strand							
750	69	387	41	10.9	338	43	8.4	303	45	6.8	0.6	0.9	1.1
750	103	394	41	10.8	345	43	8.3	310	44	6.7	0.6	0.9	1.1
750	138	398	41	10.6	349	43	8.2	314	44	6.7	0.6	0.9	1.1
750	207	403	41	10.5	353	43	8.2	318	44	6.7	0.6	0.9	1.1
1000	69	444	42	11.0	386	44	8.3	345	45	6.7	0.7	0.9	1.2
1000	103	455	41	10.7	396	44	8.2	355	45	6.6	0.7	0.9	1.2
1000	138	461	41	10.6	402	43	8.1	361	45	6.6	0.7	0.9	1.2
1000	207	468	41	10.5	409	43	8.1	367	44	6.5	0.7	0.9	1.2
1250	69	491	42	11.0	425	44	8.3	379	45	6.7	0.7	1.0	1.3
1250	103	505	42	10.7	438	44	8.2	392	45	6.6	0.7	1.0	1.3
1250	138	514	42	10.6	447	44	8.1	400	45	6.5	0.7	1.0	1.3
1250	207	523	41	10.5	455	44	8.0	408	45	6.5	0.7	1.0	1.3
1500	69	530	43	11.0	457	45	8.2	407	46	6.6	0.7	1.0	1.3
1500	103	548	42	10.7	474	44	8.1	423	45	6.5	0.7	1.0	1.3
1500	138	559	42	10.6	484	44	8.0	433	45	6.4	0.7	1.0	1.3
1500	207	571	42	10.5	495	44	7.9	443	45	6.4	0.7	1.0	1.3
1750	69	563	43	11.0	484	45	8.2	431	46	6.5	0.8	1.1	1.4
1750	103	585	43	10.7	504	45	8.0	450	46	6.4	0.8	1.1	1.4
1750	138	598	42	10.6	517	44	8.0	461	45	6.4	0.8	1.1	1.4
1750	207	612	42	10.4	530	44	7.9	474	45	6.3	0.8	1.1	1.4
2000	69	592	43	10.9	508	45	8.1	451	46	6.5	0.8	1.1	1.4
2000	103	617	43	10.7	531	45	8.0	472	46	6.4	0.8	1.1	1.4
2000	138	632	43	10.6	545	45	7.9	485	46	6.3	0.8	1.1	1.4
2000	207	649	42	10.4	560	44	7.8	500	45	6.3	0.8	1.1	1.4
2250	69	615	44	10.9	526	45	8.1	467	46	6.4	0.8	1.1	1.5
2250	103	643	43	10.7	552	45	7.9	490	46	6.3	0.8	1.1	1.5
2250	138	660	43	10.5	568	45	7.8	505	46	6.2	0.8	1.1	1.5
2250	207	678	43	10.3	585	44	7.8	521	46	6.2	0.8	1.1	1.5
2500	69	636	44	10.9	544	46	8.0	482	46	6.3	0.8	1.2	1.5
2500	103	667	43	10.6	572	45	7.9	508	46	6.3	0.8	1.2	1.5
2500	138	686	43	10.4	589	45	7.8	524	46	6.2	0.8	1.2	1.5
2500	207	707	43	10.3	609	45	7.7	542	46	6.2	0.8	1.2	1.5

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115 to 138 kV Shielded Single Conductor Unfilled X L P E Power Cable

Direct Buried - Triplexed - Double Circuit

25°C Earth Ambient

Condr Size	Shield 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 .0010 pf & Rho 60	90	120
						100% LF							
						50°C - Aluminum Conductor - Concentric Strand							
750	69	337	43	8.4	288	45	6.1	255	46	4.9	0.6	0.9	1.1
750	103	344	43	8.3	294	45	6.1	261	46	4.9	0.6	0.9	1.1
750	138	348	43	8.2	298	45	6.1	264	46	4.8	0.6	0.9	1.1
750	207	353	43	8.2	302	45	6.1	268	46	4.8	0.6	0.9	1.1
1000	69	385	44	8.3	326	46	6.0	288	47	4.7	0.7	0.9	1.2
1000	103	395	44	8.1	336	45	5.9	297	46	4.7	0.7	0.9	1.2
1000	138	401	43	8.1	342	45	5.9	302	46	4.7	0.7	0.9	1.2
1000	207	408	43	8.0	348	45	5.9	308	46	4.7	0.7	0.9	1.2
1250	69	423	44	8.2	358	46	5.9	315	47	4.7	0.7	1.0	1.3
1250	103	437	44	8.1	370	46	5.8	326	47	4.6	0.7	1.0	1.3
1250	138	445	44	8.0	378	46	5.8	333	47	4.6	0.7	1.0	1.3
1250	207	454	44	7.9	386	45	5.8	340	46	4.6	0.7	1.0	1.3
1500	69	454	45	8.2	383	46	5.9	337	47	4.6	0.7	1.0	1.3
1500	103	471	44	8.0	399	46	5.8	351	47	4.5	0.7	1.0	1.3
1500	138	482	44	8.0	408	46	5.8	359	47	4.5	0.7	1.0	1.3
1500	207	493	44	7.8	418	46	5.7	368	47	4.5	0.7	1.0	1.3
1750	69	481	45	8.1	405	46	5.8	355	47	4.5	0.8	1.1	1.4
1750	103	501	45	7.9	423	46	5.7	371	47	4.5	0.8	1.1	1.4
1750	138	513	44	7.9	434	46	5.7	381	47	4.5	0.8	1.1	1.4
1750	207	527	44	7.8	446	46	5.6	392	47	4.4	0.8	1.1	1.4
2000	69	504	45	8.0	423	47	5.7	370	47	4.5	0.8	1.1	1.4
2000	103	527	45	7.9	443	46	5.7	389	47	4.4	0.8	1.1	1.4
2000	138	541	45	7.8	456	46	5.6	400	47	4.4	0.8	1.1	1.4
2000	207	556	44	7.7	470	46	5.5	413	47	4.4	0.8	1.1	1.4
2250	69	522	45	7.9	437	47	5.6	382	48	4.4	0.8	1.1	1.5
2250	103	547	45	7.8	460	47	5.6	403	47	4.4	0.8	1.1	1.5
2250	138	563	45	7.7	474	46	5.5	415	47	4.3	0.8	1.1	1.5
2250	207	580	45	7.6	489	46	5.5	430	47	4.3	0.8	1.1	1.5
2500	69	538	46	7.9	450	47	5.6	394	48	4.3	0.8	1.2	1.5
2500	103	566	45	7.7	475	47	5.5	416	47	4.3	0.8	1.2	1.5
2500	138	584	45	7.6	490	47	5.5	430	47	4.3	0.8	1.2	1.5
2500	207	603	45	7.5	508	46	5.5	445	47	4.2	0.8	1.2	1.5

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115 to 138 kV Shielded Single Conductor Unfilled X L P E Power Cable

Direct Buried - Triplexed - Double Circuit

25°C Earth Ambient

Condr Size	Shield 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
		Total Watts/ft					
90°C - Aluminum Conductor - Concentric Strand							
750	69	75.4	57.6	58.0	42.6	47.4	33.7
750	103	74.3	57.0	57.4	42.2	47.0	33.4
750	138	73.7	56.6	57.0	41.8	46.6	33.3
750	207	72.9	56.2	56.6	41.6	46.4	33.1
1000	69	79.6	60.1	60.9	43.9	49.3	34.6
1000	103	78.3	59.3	60.1	43.5	48.9	34.3
1000	138	77.5	58.9	59.7	43.2	48.5	34.2
1000	207	76.6	58.4	59.2	43.0	48.2	34.1
1250	69	83.0	62.0	62.9	45.0	50.8	35.3
1250	103	81.4	61.1	62.0	44.5	50.3	35.0
1250	138	80.5	60.5	61.4	44.3	49.9	34.9
1250	207	79.5	60.0	60.9	44.0	49.5	34.7
1500	69	85.9	63.5	64.7	45.9	52.1	36.0
1500	103	84.1	62.7	63.8	45.4	51.5	35.6
1500	138	83.0	62.1	63.2	45.1	51.0	35.4
1500	207	82.0	61.5	62.6	44.8	50.7	35.3
1750	69	88.4	64.9	66.3	46.7	53.2	36.5
1750	103	86.6	64.0	65.3	46.2	52.5	36.2
1750	138	85.5	63.4	64.7	46.0	52.1	36.0
1750	207	84.3	62.7	63.9	45.5	51.6	35.7
2000	69	90.8	66.3	67.8	47.4	54.3	36.9
2000	103	88.8	65.2	66.6	46.9	53.6	36.7
2000	138	87.6	64.5	66.0	46.6	53.1	36.5
2000	207	86.2	63.8	65.2	46.2	52.6	36.2
2250	69	92.7	67.2	69.0	48.1	55.0	37.4
2250	103	90.5	66.1	67.8	47.5	54.4	37.1
2250	138	89.4	65.5	67.1	47.2	54.0	36.9
2250	207	88.0	64.7	66.4	46.8	53.4	36.6
2500	69	94.6	68.2	70.2	48.6	56.0	37.7
2500	103	92.4	67.1	69.0	48.0	55.2	37.4
2500	138	91.0	66.4	68.2	47.7	54.6	37.2
2500	207	89.6	65.6	67.4	47.3	54.1	37.0

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115 to 138 kV Shielded Single Conductor Unfilled X L P E Power Cable

Direct Buried - Triplexed - Double Circuit

25°C Earth Ambient

Condr Size	Shield 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
		Total Watts/ft					
80°C - Aluminum Conductor - Concentric Strand							
750	69	64.1	48.9	49.3	36.0	40.2	28.6
750	103	62.9	48.4	48.6	35.6	39.7	28.3
750	138	62.4	47.9	48.3	35.6	39.6	28.2
750	207	61.9	47.7	48.1	35.4	39.4	28.1
1000	69	67.6	50.9	51.6	37.3	41.7	29.3
1000	103	66.3	50.2	50.9	36.9	41.4	29.0
1000	138	65.7	49.9	50.4	36.6	41.1	29.0
1000	207	64.9	49.5	50.0	36.4	40.7	28.8
1250	69	70.4	52.5	53.4	38.1	43.0	30.0
1250	103	69.2	51.9	52.7	37.8	42.6	29.7
1250	138	68.3	51.4	52.2	37.5	42.2	29.6
1250	207	67.4	51.0	51.6	37.2	42.0	29.4
1500	69	72.9	53.9	54.9	38.9	44.1	30.5
1500	103	71.4	53.2	54.1	38.6	43.5	30.2
1500	138	70.5	52.7	53.6	38.2	43.3	30.1
1500	207	69.5	52.1	53.1	38.0	43.0	29.9
1750	69	75.1	55.2	56.3	39.7	45.1	30.9
1750	103	73.5	54.3	55.3	39.1	44.5	30.6
1750	138	72.5	53.7	54.7	38.9	44.1	30.5
1750	207	71.5	53.2	54.2	38.6	43.8	30.3
2000	69	77.0	56.1	57.4	40.2	46.0	31.3
2000	103	75.3	55.2	56.5	39.8	45.4	31.0
2000	138	74.2	54.6	55.9	39.5	44.9	30.9
2000	207	73.1	54.1	55.2	39.1	44.5	30.7
2250	69	78.6	57.0	58.5	40.7	46.7	31.7
2250	103	76.8	56.1	57.5	40.2	46.0	31.4
2250	138	75.7	55.5	56.8	39.9	45.6	31.2
2250	207	74.6	54.9	56.2	39.6	45.1	31.0
2500	69	80.1	57.8	59.4	41.2	47.3	31.9
2500	103	78.4	56.8	58.3	40.7	46.6	31.7
2500	138	77.2	56.3	57.8	40.4	46.2	31.5
2500	207	76.0	55.6	57.1	40.1	45.8	31.3

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115 to 138 kV Shielded Single Conductor Unfilled X L P E Power Cable

Direct Buried - Triplexed - Double Circuit

25°C Earth Ambient

Condr Size	Shield 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
		Total Watts/ft					
65°C - Aluminum Conductor - Concentric Strand							
750	69	46.7	35.6	35.9	26.3	29.2	20.8
750	103	45.9	35.3	35.5	26.0	28.8	20.6
750	138	45.5	34.9	35.3	25.8	28.7	20.6
750	207	45.0	34.7	34.8	25.7	28.6	20.4
1000	69	49.4	37.3	37.6	27.1	30.5	21.4
1000	103	48.4	36.7	37.0	26.9	30.1	21.2
1000	138	48.0	36.4	36.7	26.8	29.9	21.1
1000	207	47.3	36.0	36.4	26.6	29.6	21.0
1250	69	51.6	38.5	38.9	27.8	31.4	21.8
1250	103	50.5	37.9	38.3	27.6	31.0	21.7
1250	138	49.8	37.5	38.0	27.4	30.8	21.6
1250	207	49.1	37.1	37.6	27.2	30.5	21.4
1500	69	53.3	39.5	40.0	28.5	32.1	22.2
1500	103	52.1	38.9	39.4	28.1	31.8	22.1
1500	138	51.5	38.4	39.0	28.0	31.5	22.0
1500	207	50.8	38.0	38.6	27.7	31.2	21.8
1750	69	54.8	40.2	41.0	28.9	32.8	22.5
1750	103	53.6	39.6	40.4	28.6	32.3	22.4
1750	138	52.9	39.2	39.9	28.4	32.1	22.2
1750	207	52.1	38.8	39.5	28.1	31.8	22.1
2000	69	56.4	41.1	42.0	29.4	33.5	22.9
2000	103	55.0	40.3	41.2	29.0	32.9	22.6
2000	138	54.2	39.9	40.8	28.8	32.7	22.5
2000	207	53.2	39.4	40.2	28.5	32.4	22.3
2250	69	57.5	41.7	42.6	29.7	33.9	23.1
2250	103	56.1	41.0	41.9	29.4	33.4	22.8
2250	138	55.3	40.4	41.5	29.1	33.2	22.7
2250	207	54.4	40.0	40.9	28.9	32.9	22.6
2500	69	58.6	42.3	43.4	30.1	34.4	23.3
2500	103	57.2	41.5	42.5	29.7	33.9	23.1
2500	138	56.3	41.1	42.1	29.4	33.6	22.9
2500	207	55.4	40.5	41.5	29.2	33.3	22.8

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115 to 138 kV Shielded Single Conductor Unfilled X L P E Power Cable

Direct Buried - Triplexed - Double Circuit

25°C Earth Ambient

Condr Size	Shield 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
		Total Watts/ft					
50°C - Aluminum Conductor - Concentric Strand							
750	69	29.3	22.4	22.5	16.5	18.2	13.1
750	103	28.8	22.1	22.2	16.3	18.1	13.0
750	138	28.5	21.9	22.0	16.2	18.0	12.9
750	207	28.2	21.8	21.8	16.1	17.8	12.8
1000	69	31.0	23.5	23.6	17.0	19.0	13.4
1000	103	30.4	23.1	23.2	16.9	18.8	13.3
1000	138	30.0	22.8	22.9	16.8	18.6	13.2
1000	207	29.6	22.7	22.8	16.7	18.5	13.2
1250	69	32.3	24.2	24.4	17.5	19.5	13.7
1250	103	31.6	23.8	23.9	17.3	19.3	13.6
1250	138	31.2	23.6	23.8	17.2	19.2	13.5
1250	207	30.7	23.3	23.4	17.0	19.0	13.4
1500	69	33.4	24.7	25.0	17.8	20.0	14.0
1500	103	32.6	24.3	24.6	17.7	19.8	13.8
1500	138	32.2	24.1	24.3	17.5	19.6	13.7
1500	207	31.7	23.8	24.0	17.3	19.4	13.6
1750	69	34.4	25.3	25.6	18.2	20.5	14.2
1750	103	33.6	24.9	25.2	18.0	20.2	14.0
1750	138	33.1	24.6	25.0	17.8	20.0	13.9
1750	207	32.5	24.3	24.6	17.7	19.8	13.8
2000	69	35.3	25.8	26.2	18.4	20.9	14.3
2000	103	34.5	25.4	25.8	18.2	20.5	14.2
2000	138	33.9	25.1	25.4	18.1	20.3	14.1
2000	207	33.4	24.7	25.1	17.9	20.2	14.0
2250	69	36.1	26.2	26.6	18.6	21.2	14.4
2250	103	35.2	25.7	26.2	18.4	20.8	14.4
2250	138	34.7	25.5	25.9	18.3	20.7	14.2
2250	207	34.0	25.1	25.5	18.1	20.4	14.2
2500	69	36.7	26.5	27.1	18.8	21.5	14.6
2500	103	35.9	26.1	26.6	18.6	21.2	14.5
2500	138	35.3	25.8	26.3	18.5	21.0	14.4
2500	207	34.7	25.5	25.9	18.3	20.7	14.3

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115 to 138 kV Shielded Single Conductor Unfilled X L P E Power Cable

Direct Buried - Triplexed - Double Circuit

25°C Earth Ambient

Condr Size	Sheath Res	OD	Wd	Rac	Qs	Ri	Rj	Re @ 90 loss 75%	Rho & factor 100%
			90°C - Aluminum Conductor - Concentric Strand						
750	69	3.218	0.10	30.05	1.164	1.93	0.29	3.70	5.55
750	103	3.218	0.10	30.05	1.113	1.93	0.29	3.70	5.55
750	138	3.218	0.10	30.05	1.085	1.93	0.29	3.70	5.55
750	207	3.218	0.10	30.05	1.057	1.93	0.29	3.70	5.55
1000	69	3.407	0.11	22.78	1.216	1.76	0.27	3.62	5.47
1000	103	3.407	0.11	22.78	1.149	1.76	0.27	3.62	5.47
1000	138	3.407	0.11	22.78	1.112	1.76	0.27	3.62	5.47
1000	207	3.407	0.11	22.78	1.075	1.76	0.27	3.62	5.47
1250	69	3.540	0.12	18.47	1.265	1.64	0.26	3.57	5.42
1250	103	3.540	0.12	18.47	1.182	1.64	0.26	3.57	5.42
1250	138	3.540	0.12	18.47	1.137	1.64	0.26	3.57	5.42
1250	207	3.540	0.12	18.47	1.092	1.64	0.26	3.57	5.42
1500	69	3.660	0.13	15.64	1.311	1.54	0.25	3.52	5.37
1500	103	3.660	0.13	15.64	1.214	1.54	0.25	3.52	5.37
1500	138	3.660	0.13	15.64	1.161	1.54	0.25	3.52	5.37
1500	207	3.660	0.13	15.64	1.108	1.54	0.25	3.52	5.37
1750	69	3.770	0.13	13.67	1.354	1.46	0.24	3.48	5.33
1750	103	3.770	0.13	13.67	1.244	1.46	0.24	3.48	5.33
1750	138	3.770	0.13	13.67	1.184	1.46	0.24	3.48	5.33
1750	207	3.770	0.13	13.67	1.123	1.46	0.24	3.48	5.33
2000	69	3.873	0.14	12.22	1.395	1.39	0.24	3.44	5.29
2000	103	3.873	0.14	12.22	1.272	1.39	0.24	3.44	5.29
2000	138	3.873	0.14	12.22	1.205	1.39	0.24	3.44	5.29
2000	207	3.873	0.14	12.22	1.137	1.39	0.24	3.44	5.29
2250	69	3.968	0.15	11.20	1.429	1.34	0.23	3.41	5.26
2250	103	3.968	0.15	11.20	1.295	1.34	0.23	3.41	5.26
2250	138	3.968	0.15	11.20	1.222	1.34	0.23	3.41	5.26
2250	207	3.968	0.15	11.20	1.149	1.34	0.23	3.41	5.26
2500	69	4.059	0.15	10.33	1.464	1.29	0.22	3.37	5.23
2500	103	4.059	0.15	10.33	1.319	1.29	0.22	3.37	5.23
2500	138	4.059	0.15	10.33	1.240	1.29	0.22	3.37	5.23
2500	207	4.059	0.15	10.33	1.161	1.29	0.22	3.37	5.23

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115 to 138 kV Shielded Single Conductor Unfilled X L P E Power Cable

Direct Buried - Triplexed - Double Circuit

25°C Earth Ambient

Condr Size	Sheath Res	OD	Wd	Rac	Qs	Ri	Rj	Re @ 90 Rho & loss factor 75%	100%
			80°C - Aluminum Conductor - Concentric Strand						
750	69	3.218	0.10	30.05	1.164	1.93	0.29	3.70	5.55
750	103	3.218	0.10	30.05	1.113	1.93	0.29	3.70	5.55
750	138	3.218	0.10	30.05	1.085	1.93	0.29	3.70	5.55
750	207	3.218	0.10	30.05	1.057	1.93	0.29	3.70	5.55
1000	69	3.407	0.11	22.78	1.216	1.76	0.27	3.62	5.47
1000	103	3.407	0.11	22.78	1.149	1.76	0.27	3.62	5.47
1000	138	3.407	0.11	22.78	1.112	1.76	0.27	3.62	5.47
1000	207	3.407	0.11	22.78	1.075	1.76	0.27	3.62	5.47
1250	69	3.540	0.12	18.47	1.265	1.64	0.26	3.57	5.42
1250	103	3.540	0.12	18.47	1.182	1.64	0.26	3.57	5.42
1250	138	3.540	0.12	18.47	1.137	1.64	0.26	3.57	5.42
1250	207	3.540	0.12	18.47	1.092	1.64	0.26	3.57	5.42
1500	69	3.660	0.13	15.64	1.311	1.54	0.25	3.52	5.37
1500	103	3.660	0.13	15.64	1.214	1.54	0.25	3.52	5.37
1500	138	3.660	0.13	15.64	1.161	1.54	0.25	3.52	5.37
1500	207	3.660	0.13	15.64	1.108	1.54	0.25	3.52	5.37
1750	69	3.770	0.13	13.67	1.354	1.46	0.24	3.48	5.33
1750	103	3.770	0.13	13.67	1.244	1.46	0.24	3.48	5.33
1750	138	3.770	0.13	13.67	1.184	1.46	0.24	3.48	5.33
1750	207	3.770	0.13	13.67	1.123	1.46	0.24	3.48	5.33
2000	69	3.873	0.14	12.22	1.395	1.39	0.24	3.44	5.29
2000	103	3.873	0.14	12.22	1.272	1.39	0.24	3.44	5.29
2000	138	3.873	0.14	12.22	1.205	1.39	0.24	3.44	5.29
2000	207	3.873	0.14	12.22	1.137	1.39	0.24	3.44	5.29
2250	69	3.968	0.15	11.20	1.429	1.34	0.23	3.41	5.26
2250	103	3.968	0.15	11.20	1.295	1.34	0.23	3.41	5.26
2250	138	3.968	0.15	11.20	1.222	1.34	0.23	3.41	5.26
2250	207	3.968	0.15	11.20	1.149	1.34	0.23	3.41	5.26
2500	69	4.059	0.15	10.33	1.464	1.29	0.22	3.37	5.23
2500	103	4.059	0.15	10.33	1.319	1.29	0.22	3.37	5.23
2500	138	4.059	0.15	10.33	1.240	1.29	0.22	3.37	5.23
2500	207	4.059	0.15	10.33	1.161	1.29	0.22	3.37	5.23

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1280

115 to 138 kV Shielded Single Conductor Unfilled X L P E Power Cable

Direct Buried - Triplexed - Double Circuit

25°C Earth Ambient

Condr Size	Sheath Res	OD	Wd	Rac	Qs	Ri	Rj	Re @ 90 loss 75%	Rho & factor 100%
			65°C - Aluminum Conductor - Concentric Strand						
750	69	3.218	0.10	30.05	1.164	1.93	0.29	3.70	5.55
750	103	3.218	0.10	30.05	1.113	1.93	0.29	3.70	5.55
750	138	3.218	0.10	30.05	1.085	1.93	0.29	3.70	5.55
750	207	3.218	0.10	30.05	1.057	1.93	0.29	3.70	5.55
1000	69	3.407	0.11	22.78	1.216	1.76	0.27	3.62	5.47
1000	103	3.407	0.11	22.78	1.149	1.76	0.27	3.62	5.47
1000	138	3.407	0.11	22.78	1.112	1.76	0.27	3.62	5.47
1000	207	3.407	0.11	22.78	1.075	1.76	0.27	3.62	5.47
1250	69	3.540	0.12	18.47	1.265	1.64	0.26	3.57	5.42
1250	103	3.540	0.12	18.47	1.182	1.64	0.26	3.57	5.42
1250	138	3.540	0.12	18.47	1.137	1.64	0.26	3.57	5.42
1250	207	3.540	0.12	18.47	1.092	1.64	0.26	3.57	5.42
1500	69	3.660	0.13	15.64	1.311	1.54	0.25	3.52	5.37
1500	103	3.660	0.13	15.64	1.214	1.54	0.25	3.52	5.37
1500	138	3.660	0.13	15.64	1.161	1.54	0.25	3.52	5.37
1500	207	3.660	0.13	15.64	1.108	1.54	0.25	3.52	5.37
1750	69	3.770	0.13	13.67	1.354	1.46	0.24	3.48	5.33
1750	103	3.770	0.13	13.67	1.244	1.46	0.24	3.48	5.33
1750	138	3.770	0.13	13.67	1.184	1.46	0.24	3.48	5.33
1750	207	3.770	0.13	13.67	1.123	1.46	0.24	3.48	5.33
2000	69	3.873	0.14	12.22	1.395	1.39	0.24	3.44	5.29
2000	103	3.873	0.14	12.22	1.272	1.39	0.24	3.44	5.29
2000	138	3.873	0.14	12.22	1.205	1.39	0.24	3.44	5.29
2000	207	3.873	0.14	12.22	1.137	1.39	0.24	3.44	5.29
2250	69	3.968	0.15	11.20	1.429	1.34	0.23	3.41	5.26
2250	103	3.968	0.15	11.20	1.295	1.34	0.23	3.41	5.26
2250	138	3.968	0.15	11.20	1.222	1.34	0.23	3.41	5.26
2250	207	3.968	0.15	11.20	1.149	1.34	0.23	3.41	5.26
2500	69	4.059	0.15	10.33	1.464	1.29	0.22	3.37	5.23
2500	103	4.059	0.15	10.33	1.319	1.29	0.22	3.37	5.23
2500	138	4.059	0.15	10.33	1.240	1.29	0.22	3.37	5.23
2500	207	4.059	0.15	10.33	1.161	1.29	0.22	3.37	5.23

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115 to 138 kV Shielded Single Conductor Unfilled X L P E Power Cable

Direct Buried - Triplexed - Double Circuit

25°C Earth Ambient

Condr Size	Sheath Res	OD	Wd	Rac	Qs	Ri	Rj	Re @ 90 Rho & loss factor 75%	Re @ 90 Rho & loss factor 100%
			50°C - Aluminum Conductor - Concentric Strand						
750	69	3.218	0.10	30.05	1.164	1.93	0.29	3.70	5.55
750	103	3.218	0.10	30.05	1.113	1.93	0.29	3.70	5.55
750	138	3.218	0.10	30.05	1.085	1.93	0.29	3.70	5.55
750	207	3.218	0.10	30.05	1.057	1.93	0.29	3.70	5.55
1000	69	3.407	0.11	22.78	1.216	1.76	0.27	3.62	5.47
1000	103	3.407	0.11	22.78	1.149	1.76	0.27	3.62	5.47
1000	138	3.407	0.11	22.78	1.112	1.76	0.27	3.62	5.47
1000	207	3.407	0.11	22.78	1.075	1.76	0.27	3.62	5.47
1250	69	3.540	0.12	18.47	1.265	1.64	0.26	3.57	5.42
1250	103	3.540	0.12	18.47	1.182	1.64	0.26	3.57	5.42
1250	138	3.540	0.12	18.47	1.137	1.64	0.26	3.57	5.42
1250	207	3.540	0.12	18.47	1.092	1.64	0.26	3.57	5.42
1500	69	3.660	0.13	15.64	1.311	1.54	0.25	3.52	5.37
1500	103	3.660	0.13	15.64	1.214	1.54	0.25	3.52	5.37
1500	138	3.660	0.13	15.64	1.161	1.54	0.25	3.52	5.37
1500	207	3.660	0.13	15.64	1.108	1.54	0.25	3.52	5.37
1750	69	3.770	0.13	13.67	1.354	1.46	0.24	3.48	5.33
1750	103	3.770	0.13	13.67	1.244	1.46	0.24	3.48	5.33
1750	138	3.770	0.13	13.67	1.184	1.46	0.24	3.48	5.33
1750	207	3.770	0.13	13.67	1.123	1.46	0.24	3.48	5.33
2000	69	3.873	0.14	12.22	1.395	1.39	0.24	3.44	5.29
2000	103	3.873	0.14	12.22	1.272	1.39	0.24	3.44	5.29
2000	138	3.873	0.14	12.22	1.205	1.39	0.24	3.44	5.29
2000	207	3.873	0.14	12.22	1.137	1.39	0.24	3.44	5.29
2250	69	3.968	0.15	11.20	1.429	1.34	0.23	3.41	5.26
2250	103	3.968	0.15	11.20	1.295	1.34	0.23	3.41	5.26
2250	138	3.968	0.15	11.20	1.222	1.34	0.23	3.41	5.26
2250	207	3.968	0.15	11.20	1.149	1.34	0.23	3.41	5.26
2500	69	4.059	0.15	10.33	1.464	1.29	0.22	3.37	5.23
2500	103	4.059	0.15	10.33	1.319	1.29	0.22	3.37	5.23
2500	138	4.059	0.15	10.33	1.240	1.29	0.22	3.37	5.23
2500	207	4.059	0.15	10.33	1.161	1.29	0.22	3.37	5.23

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1282

115 to 138 kV Shielded Single Conductor Unfilled X L P E Power Cable

Direct Buried - 1 Circuit - Three Cables - Spaced

25°C Earth Ambient

Condr Size	Shield Res	60 Rho Amps	60 Rho Interface Temp °C	60 Rho Interface Flux w/ft²	90 Rho Amps	90 Rho Interface Temp °C	90 Rho Interface Flux w/ft²	120 Rho Amps	120 Rho Interface Temp °C	120 Rho Interface Flux w/ft²	delta Td for .0010 pf & Rho 60	90	120
						75% LF							
						90°C - Aluminum Conductor - Concentric Strand							
750	69	652	59	29.3	583	65	23.5	533	69	19.7	0.3	0.5	0.6
750	103	672	58	28.0	604	64	22.6	553	69	19.0	0.3	0.5	0.6
750	138	688	57	26.8	621	63	21.8	568	68	18.3	0.3	0.5	0.6
750	207	708	56	25.2	639	62	20.5	587	67	17.3	0.4	0.5	0.6
1000	69	737	61	30.5	655	67	24.1	596	71	20.0	0.4	0.5	0.6
1000	103	766	60	29.0	683	66	23.2	623	70	19.3	0.4	0.5	0.6
1000	138	790	59	27.8	707	65	22.3	647	70	18.6	0.4	0.5	0.6
1000	207	821	58	26.0	736	64	21.0	673	68	17.6	0.4	0.5	0.6
1000	Open	890	54	20.4	808	60	16.9	746	64	14.5	0.4	0.5	0.6
1250	69	805	63	31.5	712	69	24.7	645	73	20.3	0.4	0.5	0.6
1250	103	842	62	30.0	747	68	23.6	679	72	19.5	0.4	0.5	0.6
1250	138	873	60	28.7	778	67	22.8	708	71	18.9	0.4	0.5	0.6
1250	207	913	59	26.8	817	66	21.5	745	70	17.9	0.4	0.5	0.7
1250	Open	1009	55	20.5	914	61	16.8	842	65	14.4	0.4	0.5	0.7
1500	69	862	65	32.2	758	70	25.0	685	74	20.5	0.4	0.5	0.7
1500	103	906	63	30.7	801	69	24.0	726	73	19.7	0.4	0.5	0.7
1500	138	943	62	29.3	837	68	23.1	760	72	19.1	0.4	0.5	0.7
1500	207	993	61	27.3	885	67	21.8	806	71	18.1	0.4	0.5	0.7
1500	Open	1116	55	20.6	1008	62	16.8	927	66	14.2	0.4	0.6	0.7
1750	69	909	66	32.8	797	72	25.2	719	75	20.6	0.4	0.5	0.7
1750	103	961	64	31.2	846	70	24.2	765	74	19.9	0.4	0.5	0.7
1750	138	1004	63	29.8	887	69	23.3	804	73	19.1	0.4	0.5	0.7
1750	207	1062	62	27.8	944	68	22.0	859	72	18.2	0.4	0.5	0.7
1750	Open	1213	56	20.6	1093	62	16.8	1003	67	14.2	0.4	0.6	0.7
2000	Open	1301	57	20.6	1170	63	16.7	1073	67	14.1	0.4	0.6	0.8
2250	Open	1375	57	20.6	1235	64	16.7	1131	68	14.0	0.5	0.6	0.8
2500	Open	1448	58	20.6	1299	64	16.6	1188	68	13.9	0.5	0.6	0.8

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115 to 138 kV Shielded Single Conductor Unfilled X L P E Power Cable

Direct Buried - 1 Circuit - Three Cables - Spaced

25°C Earth Ambient

Condr Size	Shield 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 .0010 pf & Rho 60	90	120
						100% LF							
						90°C - Aluminum Conductor - Concentric Strand							
750	69	587	65	23.7	513	71	18.2	461	75	14.7	0.3	0.5	0.6
750	103	606	64	22.8	531	70	17.4	478	74	14.2	0.3	0.5	0.6
750	138	621	63	21.8	545	70	16.9	491	73	13.8	0.3	0.5	0.6
750	207	639	62	20.5	563	68	16.0	509	72	13.1	0.4	0.5	0.6
1000	69	659	68	24.3	573	73	18.5	513	77	14.8	0.4	0.5	0.6
1000	103	687	67	23.3	598	72	17.8	536	76	14.4	0.4	0.5	0.6
1000	138	709	66	22.4	618	72	17.0	555	75	13.8	0.4	0.5	0.6
1000	207	735	64	21.0	644	70	16.1	580	74	13.1	0.4	0.5	0.6
1000	Open	809	60	16.9	718	66	13.3	652	70	11.0	0.4	0.5	0.6
1250	69	715	69	24.9	618	75	18.7	552	78	14.9	0.4	0.5	0.6
1250	103	750	68	23.8	651	74	18.0	583	77	14.5	0.4	0.5	0.6
1250	138	780	67	22.9	678	73	17.4	607	76	13.9	0.4	0.5	0.6
1250	207	815	66	21.4	711	72	16.3	638	75	13.2	0.4	0.5	0.7
1250	Open	914	61	16.8	809	67	13.3	733	71	10.9	0.4	0.5	0.7
1500	69	761	70	25.3	655	76	18.7	584	79	14.9	0.4	0.5	0.7
1500	103	803	69	24.2	694	75	18.1	620	78	14.4	0.4	0.5	0.7
1500	138	839	69	23.2	728	74	17.5	650	77	14.0	0.4	0.5	0.7
1500	207	884	67	21.7	768	73	16.4	687	76	13.1	0.4	0.5	0.7
1500	Open	1008	62	16.8	889	68	13.1	804	72	10.7	0.4	0.6	0.7
1750	69	800	71	25.4	686	76	18.7	610	79	14.8	0.4	0.5	0.7
1750	103	848	70	24.3	731	76	18.1	651	79	14.4	0.4	0.5	0.7
1750	138	890	70	23.4	769	75	17.5	686	78	14.0	0.4	0.5	0.7
1750	207	943	68	22.0	817	74	16.5	730	77	13.2	0.4	0.5	0.7
1750	Open	1092	63	16.7	961	69	13.0	868	73	10.6	0.4	0.6	0.7
2000	Open	1168	63	16.7	1026	69	12.9	926	73	10.6	0.4	0.6	0.8
2250	Open	1232	64	16.6	1081	70	12.8	974	74	10.4	0.5	0.6	0.8
2500	Open	1295	64	16.5	1134	70	12.7	1021	74	10.3	0.5	0.6	0.8

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1284

115 to 138 kV Shielded Single Conductor Unfilled X L P E Power Cable

Direct Buried - 1 Circuit - Three Cables - Spaced

25°C Earth Ambient

Condr Size	Shield 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 .0010 pf & Rho 60	90	120
						75% LF							
						80°C - Aluminum Conductor - Concentric Strand							
750	69	600	54	25.3	537	59	20.2	490	63	16.9	0.3	0.5	0.6
750	103	619	53	24.2	555	58	19.5	508	62	16.4	0.3	0.5	0.6
750	138	635	52	23.1	572	58	18.8	524	62	15.8	0.3	0.5	0.6
750	207	656	51	21.7	591	57	17.7	542	61	15.0	0.4	0.5	0.6
1000	69	677	56	26.3	601	61	20.7	546	64	17.2	0.4	0.5	0.6
1000	103	703	55	25.1	627	60	20.0	571	64	16.6	0.4	0.5	0.6
1000	138	726	54	24.0	649	59	19.2	593	63	16.0	0.4	0.5	0.6
1000	207	757	53	22.5	679	59	18.2	620	62	15.1	0.4	0.5	0.6
1000	Open	831	49	17.3	754	55	14.2	696	58	12.2	0.4	0.5	0.6
1250	69	738	58	27.2	651	63	21.1	589	66	17.4	0.4	0.5	0.6
1250	103	771	56	26.0	683	62	20.4	620	65	16.8	0.4	0.5	0.6
1250	138	801	55	24.8	712	61	19.6	648	64	16.3	0.4	0.5	0.6
1250	207	841	54	23.2	751	60	18.6	685	63	15.4	0.4	0.5	0.7
1250	Open	942	50	17.4	853	55	14.2	785	59	12.1	0.4	0.5	0.7
1500	69	788	59	27.8	692	64	21.5	624	67	17.5	0.4	0.5	0.7
1500	103	828	58	26.5	730	63	20.7	661	66	16.9	0.4	0.5	0.7
1500	138	863	57	25.4	764	62	19.9	693	65	16.4	0.4	0.5	0.7
1500	207	912	55	23.7	811	61	18.8	739	64	15.6	0.4	0.5	0.7
1500	Open	1041	51	17.4	940	56	14.2	864	60	12.1	0.4	0.6	0.7
1750	69	829	60	28.2	726	65	21.7	654	68	17.6	0.4	0.5	0.7
1750	103	876	59	27.0	770	64	20.9	695	67	17.0	0.4	0.5	0.7
1750	138	917	58	25.7	809	63	20.1	732	66	16.4	0.4	0.5	0.7
1750	207	974	56	24.0	864	62	18.9	784	65	15.6	0.4	0.5	0.7
1750	Open	1130	51	17.4	1019	57	14.2	935	60	12.0	0.4	0.6	0.7
2000	Open	1212	52	17.5	1090	57	14.1	999	61	11.9	0.4	0.6	0.8
2250	Open	1280	52	17.4	1149	58	14.1	1052	61	11.8	0.5	0.6	0.8
2500	Open	1348	53	17.4	1208	58	14.0	1105	62	11.8	0.5	0.6	0.8

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115 to 138 kV Shielded Single Conductor Unfilled X L P E Power Cable

Direct Buried - 1 Circuit - Three Cables - Spaced

25°C Earth Ambient

Condr Size	Shield 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 .0010 pf & Rho 60	90	120
						100% LF							
						80°C - Aluminum Conductor - Concentric Strand							
750	69	540	60	20.4	472	65	15.7	423	68	12.6	0.3	0.5	0.6
750	103	558	59	19.7	488	64	15.1	439	67	12.2	0.3	0.5	0.6
750	138	573	58	18.9	502	63	14.5	452	66	11.8	0.3	0.5	0.6
750	207	591	57	17.7	520	62	13.8	470	65	11.3	0.4	0.5	0.6
1000	69	604	61	21.0	524	66	15.8	469	69	12.7	0.4	0.5	0.6
1000	103	630	61	20.2	548	66	15.4	491	68	12.3	0.4	0.5	0.6
1000	138	652	60	19.4	568	65	14.7	510	68	11.9	0.4	0.5	0.6
1000	207	678	59	18.1	594	64	13.9	534	67	11.2	0.4	0.5	0.6
1000	Open	755	55	14.4	670	60	11.3	608	63	9.3	0.4	0.5	0.6
1250	69	654	63	21.4	564	67	16.0	504	70	12.7	0.4	0.5	0.6
1250	103	686	62	20.6	594	67	15.4	531	69	12.4	0.4	0.5	0.6
1250	138	715	61	19.7	621	66	15.0	555	69	12.0	0.4	0.5	0.6
1250	207	751	60	18.5	654	65	14.0	586	68	11.3	0.4	0.5	0.7
1250	Open	853	55	14.2	755	61	11.2	684	64	9.2	0.4	0.5	0.7
1500	69	695	64	21.6	597	68	16.1	531	71	12.7	0.4	0.5	0.7
1500	103	733	63	20.8	632	67	15.6	564	70	12.4	0.4	0.5	0.7
1500	138	767	62	20.0	664	67	15.0	593	70	12.0	0.4	0.5	0.7
1500	207	812	61	18.8	704	66	14.2	630	69	11.4	0.4	0.5	0.7
1500	Open	940	56	14.2	829	61	11.1	750	65	9.1	0.4	0.6	0.7
1750	69	728	65	21.8	624	69	16.0	554	71	12.7	0.4	0.5	0.7
1750	103	772	64	21.0	664	68	15.5	591	71	12.4	0.4	0.5	0.7
1750	138	811	63	20.2	700	68	15.1	624	70	12.0	0.4	0.5	0.7
1750	207	865	62	18.9	748	67	14.2	667	69	11.3	0.4	0.5	0.7
1750	Open	1018	57	14.2	896	62	11.0	809	65	9.0	0.4	0.6	0.7
2000	Open	1088	57	14.1	956	63	10.9	862	66	8.9	0.4	0.6	0.8
2250	Open	1147	58	14.1	1006	63	10.9	906	66	8.9	0.5	0.6	0.8
2500	Open	1205	58	13.9	1055	63	10.7	950	67	8.8	0.5	0.6	0.8

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1286

115 to 138 kV Shielded Single Conductor Unfilled X L P E Power Cable

Direct Buried - 1 Circuit - Three Cables - Spaced

25°C Earth Ambient

Condr Size	Shield 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 .0010 pf & Rho 60	90	120
						75% LF							
						65°C - Aluminum Conductor - Concentric Strand							
750	69	513	46	18.9	457	50	15.0	417	53	12.5	0.3	0.5	0.6
750	103	528	46	18.2	472	50	14.6	432	52	12.1	0.3	0.5	0.6
750	138	543	45	17.4	487	49	14.0	446	52	11.8	0.3	0.5	0.6
750	207	564	45	16.4	507	49	13.3	465	51	11.2	0.3	0.5	0.6
1000	69	576	48	19.6	509	52	15.4	462	54	12.7	0.4	0.5	0.6
1000	103	597	47	18.8	530	51	14.9	482	54	12.3	0.4	0.5	0.6
1000	138	618	47	18.1	550	50	14.4	501	53	12.0	0.4	0.5	0.6
1000	207	647	46	16.9	579	50	13.6	529	53	11.3	0.4	0.5	0.6
1000	Open	724	43	12.6	658	47	10.4	607	49	8.9	0.4	0.5	0.6
1250	69	625	49	20.3	549	53	15.8	497	55	12.8	0.4	0.5	0.6
1250	103	652	49	19.5	575	52	15.2	521	55	12.5	0.4	0.5	0.6
1250	138	678	48	18.7	600	52	14.7	545	54	12.1	0.4	0.5	0.6
1250	207	715	47	17.4	637	51	13.8	580	53	11.5	0.4	0.5	0.6
1250	Open	820	43	12.6	743	47	10.4	684	50	8.8	0.4	0.5	0.7
1500	69	664	50	20.7	582	54	15.9	524	56	12.9	0.4	0.5	0.7
1500	103	697	50	19.9	612	53	15.4	553	55	12.6	0.4	0.5	0.7
1500	138	728	49	19.1	642	52	14.9	581	55	12.2	0.4	0.5	0.7
1500	207	773	48	17.8	686	51	14.0	623	54	11.6	0.4	0.5	0.7
1500	Open	906	44	12.7	818	48	10.3	752	50	8.8	0.4	0.6	0.7
1750	69	698	51	21.0	609	54	16.0	547	56	13.0	0.4	0.5	0.7
1750	103	735	50	20.3	643	54	15.5	580	56	12.7	0.4	0.5	0.7
1750	138	771	50	19.4	677	53	15.0	612	55	12.3	0.4	0.5	0.7
1750	207	823	48	18.0	727	52	14.2	659	54	11.7	0.4	0.5	0.7
1750	Open	983	44	12.7	886	48	10.3	813	51	8.7	0.4	0.6	0.7
2000	Open	1053	45	12.7	947	49	10.3	867	51	8.7	0.4	0.6	0.8
2250	Open	1112	45	12.7	998	49	10.3	913	52	8.6	0.5	0.6	0.8
2500	Open	1170	45	12.7	1048	49	10.3	957	52	8.6	0.5	0.6	0.8

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115 to 138 kV Shielded Single Conductor Unfilled X L P E Power Cable

Direct Buried - 1 Circuit - Three Cables - Spaced

25°C Earth Ambient

Condr Size	Shield 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 .0010 pf & Rho 60	90	120
						100% LF							
						65°C - Aluminum Conductor - Concentric Strand							
750	69	460	51	15.2	402	54	11.6	360	56	9.4	0.3	0.5	0.6
750	103	475	50	14.7	416	54	11.3	373	56	9.1	0.3	0.5	0.6
750	138	490	50	14.2	428	53	10.9	385	55	8.8	0.3	0.5	0.6
750	207	508	49	13.3	446	52	10.3	402	55	8.4	0.3	0.5	0.6
1000	69	512	52	15.6	444	55	11.7	398	58	9.4	0.4	0.5	0.6
1000	103	533	51	15.0	463	55	11.4	414	57	9.2	0.4	0.5	0.6
1000	138	553	51	14.6	482	54	11.1	431	57	8.9	0.4	0.5	0.6
1000	207	580	50	13.6	506	54	10.4	454	56	8.4	0.4	0.5	0.6
1000	Open	658	47	10.4	584	50	8.2	530	53	6.8	0.4	0.5	0.6
1250	69	552	53	15.9	476	56	11.8	424	58	9.4	0.4	0.5	0.6
1250	103	578	52	15.4	499	56	11.5	446	58	9.2	0.4	0.5	0.6
1250	138	603	52	14.8	523	55	11.1	468	57	9.0	0.4	0.5	0.6
1250	207	639	51	13.9	555	55	10.6	497	57	8.4	0.4	0.5	0.6
1250	Open	743	47	10.4	657	51	8.2	595	54	6.7	0.4	0.5	0.7
1500	69	585	54	16.1	501	57	11.8	445	58	9.4	0.4	0.5	0.7
1500	103	615	53	15.6	529	56	11.6	471	58	9.2	0.4	0.5	0.7
1500	138	645	53	15.0	556	56	11.2	496	58	9.0	0.4	0.5	0.7
1500	207	688	52	14.1	595	55	10.6	532	57	8.5	0.4	0.5	0.7
1500	Open	818	48	10.3	722	52	8.1	652	54	6.7	0.4	0.6	0.7
1750	69	611	54	16.1	522	57	11.9	463	59	9.3	0.4	0.5	0.7
1750	103	646	54	15.7	554	57	11.6	492	58	9.1	0.4	0.5	0.7
1750	138	680	53	15.1	585	56	11.2	520	58	8.9	0.4	0.5	0.7
1750	207	730	52	14.3	630	56	10.6	562	58	8.5	0.4	0.5	0.7
1750	Open	885	48	10.3	779	52	8.0	703	54	6.6	0.4	0.6	0.7
2000	Open	946	49	10.3	830	52	8.0	748	55	6.5	0.4	0.6	0.8
2250	Open	996	49	10.2	873	53	7.9	786	55	6.4	0.5	0.6	0.8
2500	Open	1046	49	10.2	915	53	7.8	823	55	6.4	0.5	0.6	0.8

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1288

115 to 138 kV Shielded Single Conductor Unfilled X L P E Power Cable

Direct Buried - 1 Circuit - Three Cables - Spaced

25°C Earth Ambient

Condr Size	Shield 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 .0010 pf & Rho 60	90	120
						75% LF							
						50°C - Aluminum Conductor - Concentric Strand							
750	69	406	39	12.1	361	41	9.6	328	43	8.0	0.3	0.5	0.6
750	103	417	38	11.8	371	41	9.4	338	42	7.8	0.3	0.5	0.6
750	138	429	38	11.3	383	41	9.0	350	42	7.6	0.3	0.5	0.6
750	207	447	38	10.6	401	40	8.5	367	42	7.2	0.3	0.5	0.6
1000	69	453	40	12.6	399	42	9.8	361	44	8.1	0.4	0.5	0.6
1000	103	468	39	12.2	414	42	9.5	375	43	7.8	0.4	0.5	0.6
1000	138	485	39	11.8	430	41	9.3	391	43	7.6	0.4	0.5	0.6
1000	207	510	38	11.0	455	41	8.7	415	43	7.3	0.4	0.5	0.6
1000	Open	585	36	7.8	531	39	6.5	489	40	5.5	0.4	0.5	0.6
1250	69	489	41	12.9	429	43	10.0	387	44	8.1	0.4	0.5	0.6
1250	103	508	40	12.6	447	42	9.7	404	44	8.0	0.4	0.5	0.6
1250	138	529	40	12.1	467	42	9.5	423	43	7.8	0.4	0.5	0.6
1250	207	561	39	11.3	498	41	9.0	452	43	7.3	0.4	0.5	0.6
1250	Open	662	37	7.9	599	39	6.5	551	41	5.5	0.4	0.5	0.7
1500	69	518	41	13.3	453	43	10.1	407	45	8.1	0.4	0.5	0.7
1500	103	541	41	12.8	474	43	9.9	427	44	8.0	0.4	0.5	0.7
1500	138	566	40	12.3	497	43	9.6	449	44	7.8	0.4	0.5	0.7
1500	207	604	40	11.6	534	42	9.1	483	43	7.4	0.4	0.5	0.7
1500	Open	731	37	7.9	659	39	6.5	605	41	5.4	0.4	0.6	0.7
1750	69	543	42	13.4	472	44	10.1	423	45	8.2	0.4	0.5	0.7
1750	103	569	41	13.0	496	43	9.9	446	45	8.0	0.4	0.5	0.7
1750	138	597	41	12.6	523	43	9.6	470	44	7.8	0.4	0.5	0.7
1750	207	641	40	11.8	564	42	9.1	510	44	7.5	0.4	0.5	0.7
1750	Open	792	37	7.9	713	40	6.5	653	41	5.5	0.4	0.6	0.7
2000	Open	848	37	8.0	761	40	6.4	696	42	5.4	0.4	0.6	0.8
2250	Open	894	38	8.0	801	40	6.4	732	42	5.4	0.5	0.6	0.8
2500	Open	939	38	7.9	840	40	6.4	767	42	5.4	0.5	0.6	0.8

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115 to 138 kV Shielded Single Conductor Unfilled X L P E Power Cable

Direct Buried - 1 Circuit - Three Cables - Spaced

25°C Earth Ambient

Condr Size	Shield 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 .0010 pf & Rho 60	90	120
						100% LF							
						50°C - Aluminum Conductor - Concentric Strand							
750	69	363	41	9.7	316	44	7.4	283	45	5.9	0.3	0.5	0.6
750	103	374	41	9.5	326	43	7.2	292	45	5.8	0.3	0.5	0.6
750	138	386	41	9.1	337	43	7.0	302	44	5.7	0.3	0.5	0.6
750	207	403	40	8.7	352	42	6.6	317	44	5.3	0.3	0.5	0.6
1000	69	402	42	10.0	347	44	7.4	309	45	5.9	0.4	0.5	0.6
1000	103	417	42	9.6	361	44	7.3	322	45	5.8	0.4	0.5	0.6
1000	138	433	41	9.4	376	44	7.1	336	45	5.7	0.4	0.5	0.6
1000	207	458	41	8.9	398	43	6.7	356	45	5.4	0.4	0.5	0.6
1000	Open	532	39	6.5	472	41	5.2	427	43	4.3	0.4	0.5	0.6
1250	69	432	43	10.1	370	45	7.4	329	46	5.9	0.4	0.5	0.6
1250	103	450	42	9.9	387	44	7.3	345	46	5.8	0.4	0.5	0.6
1250	138	470	42	9.6	405	44	7.1	362	45	5.7	0.4	0.5	0.6
1250	207	500	42	9.1	434	44	6.8	387	45	5.4	0.4	0.5	0.6
1250	Open	600	39	6.5	530	41	5.1	479	43	4.2	0.4	0.5	0.7
1500	69	455	43	10.2	389	45	7.5	345	46	5.9	0.4	0.5	0.7
1500	103	476	43	10.0	408	45	7.4	363	46	5.8	0.4	0.5	0.7
1500	138	500	43	9.7	430	45	7.2	382	46	5.7	0.4	0.5	0.7
1500	207	536	42	9.1	463	44	6.9	413	46	5.4	0.4	0.5	0.7
1500	Open	660	39	6.5	581	42	5.1	525	43	4.2	0.4	0.6	0.7
1750	69	474	44	10.2	404	45	7.5	358	46	5.9	0.4	0.5	0.7
1750	103	499	43	10.0	426	45	7.4	377	46	5.8	0.4	0.5	0.7
1750	138	525	43	9.7	450	45	7.2	399	46	5.7	0.4	0.5	0.7
1750	207	566	43	9.2	488	45	6.9	435	46	5.5	0.4	0.5	0.7
1750	Open	713	40	6.5	627	42	5.1	565	43	4.2	0.4	0.6	0.7
2000	Open	761	40	6.4	667	42	5.0	601	44	4.0	0.4	0.6	0.8
2250	Open	801	40	6.4	701	42	4.9	630	44	4.0	0.5	0.6	0.8
2500	Open	840	40	6.4	734	43	4.9	659	44	4.0	0.5	0.6	0.8

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1290

115 to 138 kV Shielded Single Conductor Unfilled X L P E Power Cable

Direct Buried - 1 Circuit - Three Cables - Spaced

25°C Earth Ambient

Condr Size	Shield 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
		Total Watts/ft					
90°C - Aluminum Conductor - Concentric Strand							
750	69	66.4	53.8	53.1	41.2	44.4	33.3
750	103	64.4	52.4	52.1	40.3	43.7	32.7
750	138	62.6	51.1	51.1	39.4	42.8	32.1
750	207	60.1	49.0	49.0	38.1	41.4	31.2
1000	69	71.8	57.4	56.8	43.5	47.0	34.9
1000	103	69.7	56.2	55.5	42.6	46.2	34.3
1000	138	67.9	54.7	54.4	41.7	45.6	33.7
1000	207	65.2	52.3	52.5	40.2	43.9	32.7
1000	Open	54.5	45.1	45.0	35.6	38.4	29.4
1250	69	76.0	60.0	59.5	44.9	48.9	35.9
1250	103	73.8	58.6	58.2	44.3	48.1	35.6
1250	138	71.9	57.4	57.1	43.5	47.4	34.9
1250	207	68.9	55.0	55.3	41.9	46.0	33.8
1250	Open	56.8	46.7	46.7	36.7	39.7	30.2
1500	69	79.7	62.2	61.7	46.2	50.5	36.8
1500	103	77.3	60.8	60.5	45.5	49.8	36.4
1500	138	75.2	59.6	59.3	45.0	49.0	35.9
1500	207	72.3	57.4	57.5	43.4	47.7	34.8
1500	Open	58.8	48.1	48.1	37.5	40.7	30.7
1750	69	82.5	64.0	63.5	47.2	51.8	37.4
1750	103	80.3	62.6	62.3	46.6	51.1	37.1
1750	138	78.2	61.5	61.1	46.0	50.3	36.7
1750	207	75.0	59.2	59.4	44.6	49.2	35.7
1750	Open	60.6	49.2	49.3	38.2	41.6	31.2
2000	Open	62.2	50.2	50.4	38.9	42.5	31.7
2250	Open	63.6	51.1	51.4	39.5	43.2	32.1
2500	Open	64.9	52.0	52.3	40.0	43.8	32.5

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115 to 138 kV Shielded Single Conductor Unfilled X L P E Power Cable

Direct Buried - 1 Circuit - Three Cables - Spaced

25°C Earth Ambient

Condr Size	Shield 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
		Total Watts/ft					
80°C - Aluminum Conductor - Concentric Strand							
750	69	56.7	46.0	45.5	35.2	37.9	28.3
750	103	55.2	45.0	44.5	34.5	37.3	27.9
750	138	53.8	43.8	43.7	33.7	36.7	27.4
750	207	51.7	42.0	42.0	32.6	35.4	26.7
1000	69	61.5	49.0	48.5	37.0	40.1	29.7
1000	103	59.7	48.0	47.6	36.4	39.5	29.3
1000	138	58.1	46.9	46.5	35.7	38.9	28.9
1000	207	55.8	44.9	45.0	34.5	37.6	28.0
1000	Open	46.2	38.2	38.1	30.1	32.5	24.9
1250	69	65.2	51.2	50.8	38.2	41.6	30.6
1250	103	63.3	50.2	49.8	37.7	41.1	30.2
1250	138	61.7	49.3	48.8	37.2	40.5	29.8
1250	207	59.2	47.3	47.3	36.0	39.4	28.9
1250	Open	48.1	39.5	39.5	31.0	33.5	25.5
1500	69	68.2	53.1	52.7	39.3	42.9	31.2
1500	103	66.4	52.1	51.7	38.8	42.4	31.0
1500	138	64.6	51.1	50.7	38.4	41.8	30.7
1500	207	62.0	49.2	49.1	37.1	40.8	29.8
1500	Open	49.8	40.7	40.7	31.7	34.4	26.0
1750	69	70.5	54.5	54.2	40.1	44.1	31.7
1750	103	68.8	53.5	53.3	39.7	43.5	31.5
1750	138	67.1	52.6	52.3	39.3	42.9	31.3
1750	207	64.4	50.9	50.8	38.2	41.9	30.4
1750	Open	51.3	41.7	41.8	32.4	35.2	26.5
2000	Open	52.6	42.5	42.6	32.9	35.9	26.8
2250	Open	53.8	43.3	43.4	33.4	36.5	27.2
2500	Open	54.9	44.0	44.2	33.8	37.1	27.5

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115 to 138 kV Shielded Single Conductor Unfilled X L P E Power Cable

Direct Buried - 1 Circuit - Three Cables - Spaced

25°C Earth Ambient

Condr Size	Shield 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
		Total Watts/ft					
65°C - Aluminum Conductor - Concentric Strand							
750	69	42.1	33.9	33.5	26.0	27.9	20.9
750	103	41.0	33.2	32.8	25.6	27.6	20.6
750	138	40.0	32.6	32.2	25.0	27.1	20.3
750	207	38.5	31.3	31.1	24.2	26.2	19.7
1000	69	45.6	36.1	35.7	27.2	29.4	21.9
1000	103	44.4	35.5	35.1	26.8	29.1	21.5
1000	138	43.3	34.8	34.4	26.5	28.6	21.2
1000	207	41.5	33.5	33.3	25.5	27.9	20.6
1000	Open	33.5	27.7	27.7	21.9	23.6	18.1
1250	69	48.3	37.7	37.3	28.2	30.7	22.4
1250	103	47.1	37.1	36.7	27.7	30.2	22.2
1250	138	45.9	36.4	36.0	27.5	29.8	22.1
1250	207	44.0	35.2	35.0	26.6	29.1	21.4
1250	Open	34.9	28.7	28.7	22.5	24.4	18.6
1500	69	50.3	39.1	38.7	28.8	31.5	22.8
1500	103	49.3	38.4	38.1	28.5	31.2	22.7
1500	138	48.0	37.8	37.4	28.2	30.7	22.5
1500	207	46.1	36.6	36.4	27.5	30.1	22.0
1500	Open	36.2	29.6	29.6	23.1	25.1	18.9
1750	69	52.2	40.1	39.9	29.4	32.2	23.2
1750	103	51.1	39.5	39.2	29.2	32.0	23.1
1750	138	49.9	38.9	38.6	28.9	31.6	22.9
1750	207	47.9	37.8	37.5	28.2	30.9	22.6
1750	Open	37.3	30.3	30.4	23.6	25.6	19.3
2000	Open	38.3	31.0	31.0	23.9	26.1	19.5
2250	Open	39.2	31.5	31.6	24.3	26.5	19.8
2500	Open	40.0	32.0	32.2	24.6	26.9	20.0

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115 to 138 kV Shielded Single Conductor Unfilled X L P E Power Cable

Direct Buried - 1 Circuit - Three Cables - Spaced

25°C Earth Ambient

Condr Size	Shield 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
		Total Watts/ft					
50°C - Aluminum Conductor - Concentric Strand							
750	69	26.8	21.5	21.3	16.4	17.6	13.2
750	103	26.3	21.2	20.9	16.2	17.4	13.0
750	138	25.7	20.8	20.5	15.9	17.2	12.9
750	207	24.6	20.1	19.9	15.4	16.7	12.5
1000	69	29.0	22.9	22.6	17.2	18.5	13.7
1000	103	28.4	22.6	22.3	17.0	18.4	13.6
1000	138	27.8	22.2	21.9	16.8	18.2	13.5
1000	207	26.6	21.5	21.3	16.3	17.7	13.1
1000	Open	21.0	17.4	17.3	13.8	14.7	11.3
1250	69	30.6	24.0	23.7	17.7	19.3	14.1
1250	103	30.0	23.6	23.3	17.6	19.1	14.0
1250	138	29.3	23.2	22.9	17.3	18.9	13.9
1250	207	28.2	22.5	22.3	17.0	18.4	13.6
1250	Open	21.8	18.0	18.0	14.1	15.2	11.6
1500	69	31.9	24.7	24.5	18.2	19.8	14.4
1500	103	31.3	24.3	24.1	18.0	19.7	14.3
1500	138	30.7	24.0	23.7	17.9	19.5	14.2
1500	207	29.5	23.3	23.1	17.5	19.0	14.0
1500	Open	22.6	18.5	18.5	14.4	15.6	11.9
1750	69	33.1	25.3	25.1	18.5	20.3	14.6
1750	103	32.5	25.1	24.8	18.4	20.1	14.5
1750	138	31.8	24.7	24.5	18.2	19.9	14.4
1750	207	30.7	24.0	23.8	17.9	19.6	14.3
1750	Open	23.3	19.0	19.0	14.8	16.0	12.1
2000	Open	23.9	19.4	19.4	15.0	16.3	12.2
2250	Open	24.5	19.7	19.7	15.2	16.5	12.4
2500	Open	25.0	20.1	20.1	15.4	16.8	12.5

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1294

115 to 138 kV Shielded Single Conductor Unfilled X L P E Power Cable

Direct Buried - 1 Circuit - Three Cables - Spaced

25°C Earth Ambient

Condr Size	Sheath Res	OD	Wd	Rac	Qs	Ri	Rj	Re @ 90 Rho & loss factor 75%	100%
			90°C - Aluminum Conductor - Concentric Strand						
750	69	3.218	0.10	30.02	1.813	1.93	0.29	2.14	3.48
750	103	3.218	0.10	30.02	1.640	1.93	0.29	2.14	3.48
750	138	3.218	0.10	30.02	1.399	1.93	0.29	2.33	3.48
750	207	3.218	0.10	30.02	1.278	1.93	0.29	2.33	3.48
1000	69	3.407	0.11	22.74	2.039	1.76	0.27	2.11	3.15
1000	103	3.407	0.11	22.74	1.814	1.76	0.27	2.11	3.46
1000	138	3.407	0.11	22.74	1.646	1.76	0.27	2.11	3.46
1000	207	3.407	0.11	22.74	1.353	1.76	0.27	2.30	3.46
1000	Open	3.407	0.11	22.74	1.005	1.76	0.27	2.30	3.46
1250	69	3.540	0.12	18.39	2.248	1.64	0.26	2.09	3.13
1250	103	3.540	0.12	18.39	1.974	1.64	0.26	2.09	3.13
1250	138	3.540	0.12	18.39	1.771	1.64	0.26	2.09	3.44
1250	207	3.540	0.12	18.39	1.421	1.64	0.26	2.28	3.44
1250	Open	3.540	0.12	18.39	1.006	1.64	0.26	2.28	3.44
1500	69	3.660	0.13	15.55	2.440	1.54	0.25	2.08	3.11
1500	103	3.660	0.13	15.55	2.120	1.54	0.25	2.08	3.11
1500	138	3.660	0.13	15.55	1.885	1.54	0.25	2.08	3.42
1500	207	3.660	0.13	15.55	1.613	1.54	0.25	2.08	3.42
1500	Open	3.660	0.13	15.55	1.008	1.54	0.25	2.27	3.42
1750	69	3.770	0.13	13.54	2.617	1.46	0.24	2.06	3.10
1750	103	3.770	0.13	13.54	2.252	1.46	0.24	2.06	3.10
1750	138	3.770	0.13	13.54	1.988	1.46	0.24	2.06	3.10
1750	207	3.770	0.13	13.54	1.684	1.46	0.24	2.06	3.41
1750	Open	3.770	0.13	13.54	1.010	1.46	0.24	2.25	3.41
2000	Open	3.873	0.14	12.06	1.012	1.39	0.24	2.24	3.40
2250	Open	3.968	0.15	11.02	1.014	1.34	0.23	2.23	3.38
2500	Open	4.059	0.15	10.12	1.016	1.29	0.22	2.22	3.37

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115 to 138 kV Shielded Single Conductor Unfilled X L P E Power Cable

Direct Buried - 1 Circuit - Three Cables - Spaced

25°C Earth Ambient

Condr Size	Sheath Res	OD	Wd	Rac	Qs	Ri	Rj	Re @ 90 Rho & loss factor 75%	100%
			80°C - Aluminum Conductor - Concentric Strand						
750	69	3.218	0.10	30.02	1.813	1.93	0.29	2.14	3.48
750	103	3.218	0.10	30.02	1.640	1.93	0.29	2.14	3.48
750	138	3.218	0.10	30.02	1.399	1.93	0.29	2.33	3.48
750	207	3.218	0.10	30.02	1.278	1.93	0.29	2.33	3.48
1000	69	3.407	0.11	22.74	2.039	1.76	0.27	2.11	3.15
1000	103	3.407	0.11	22.74	1.814	1.76	0.27	2.11	3.46
1000	138	3.407	0.11	22.74	1.646	1.76	0.27	2.11	3.46
1000	207	3.407	0.11	22.74	1.353	1.76	0.27	2.30	3.46
1000	Open	3.407	0.11	22.74	1.005	1.76	0.27	2.30	3.46
1250	69	3.540	0.12	18.39	2.248	1.64	0.26	2.09	3.13
1250	103	3.540	0.12	18.39	1.974	1.64	0.26	2.09	3.13
1250	138	3.540	0.12	18.39	1.771	1.64	0.26	2.09	3.44
1250	207	3.540	0.12	18.39	1.421	1.64	0.26	2.28	3.44
1250	Open	3.540	0.12	18.39	1.006	1.64	0.26	2.28	3.44
1500	69	3.660	0.13	15.55	2.440	1.54	0.25	2.08	3.11
1500	103	3.660	0.13	15.55	2.120	1.54	0.25	2.08	3.11
1500	138	3.660	0.13	15.55	1.885	1.54	0.25	2.08	3.42
1500	207	3.660	0.13	15.55	1.613	1.54	0.25	2.08	3.42
1500	Open	3.660	0.13	15.55	1.008	1.54	0.25	2.27	3.42
1750	69	3.770	0.13	13.54	2.617	1.46	0.24	2.06	3.10
1750	103	3.770	0.13	13.54	2.252	1.46	0.24	2.06	3.10
1750	138	3.770	0.13	13.54	1.988	1.46	0.24	2.06	3.10
1750	207	3.770	0.13	13.54	1.684	1.46	0.24	2.06	3.41
1750	Open	3.770	0.13	13.54	1.010	1.46	0.24	2.25	3.41
2000	Open	3.873	0.14	12.06	1.012	1.39	0.24	2.24	3.40
2250	Open	3.968	0.15	11.02	1.014	1.34	0.23	2.23	3.38
2500	Open	4.059	0.15	10.12	1.016	1.29	0.22	2.22	3.37

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115 to 138 kV Shielded Single Conductor Unfilled X L P E Power Cable

Direct Buried - 1 Circuit - Three Cables - Spaced

25°C Earth Ambient

Condr Size	Sheath Res	OD	Wd	Rac	Qs	Ri	Rj	Re @ 90 Rho & loss factor 75%	100%
			65°C - Aluminum Conductor - Concentric Strand						
750	69	3.218	0.10	30.02	1.813	1.93	0.29	2.14	3.48
750	103	3.218	0.10	30.02	1.640	1.93	0.29	2.14	3.48
750	138	3.218	0.10	30.02	1.399	1.93	0.29	2.33	3.48
750	207	3.218	0.10	30.02	1.278	1.93	0.29	2.33	3.48
1000	69	3.407	0.11	22.74	2.039	1.76	0.27	2.11	3.15
1000	103	3.407	0.11	22.74	1.814	1.76	0.27	2.11	3.46
1000	138	3.407	0.11	22.74	1.646	1.76	0.27	2.11	3.46
1000	207	3.407	0.11	22.74	1.353	1.76	0.27	2.30	3.46
1000	Open	3.407	0.11	22.74	1.005	1.76	0.27	2.30	3.46
1250	69	3.540	0.12	18.39	2.248	1.64	0.26	2.09	3.13
1250	103	3.540	0.12	18.39	1.974	1.64	0.26	2.09	3.13
1250	138	3.540	0.12	18.39	1.771	1.64	0.26	2.09	3.44
1250	207	3.540	0.12	18.39	1.421	1.64	0.26	2.28	3.44
1250	Open	3.540	0.12	18.39	1.006	1.64	0.26	2.28	3.44
1500	69	3.660	0.13	15.55	2.440	1.54	0.25	2.08	3.11
1500	103	3.660	0.13	15.55	2.120	1.54	0.25	2.08	3.11
1500	138	3.660	0.13	15.55	1.885	1.54	0.25	2.08	3.42
1500	207	3.660	0.13	15.55	1.613	1.54	0.25	2.08	3.42
1500	Open	3.660	0.13	15.55	1.008	1.54	0.25	2.27	3.42
1750	69	3.770	0.13	13.54	2.617	1.46	0.24	2.06	3.10
1750	103	3.770	0.13	13.54	2.252	1.46	0.24	2.06	3.10
1750	138	3.770	0.13	13.54	1.988	1.46	0.24	2.06	3.10
1750	207	3.770	0.13	13.54	1.684	1.46	0.24	2.06	3.41
1750	Open	3.770	0.13	13.54	1.010	1.46	0.24	2.25	3.41
2000	Open	3.873	0.14	12.06	1.012	1.39	0.24	2.24	3.40
2250	Open	3.968	0.15	11.02	1.014	1.34	0.23	2.23	3.38
2500	Open	4.059	0.15	10.12	1.016	1.29	0.22	2.22	3.37

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115 to 138 kV Shielded Single Conductor Unfilled X L P E Power Cable

Direct Buried - 1 Circuit - Three Cables - Spaced

25°C Earth Ambient

Condr Size	Sheath Res	OD	Wd	Rac	Qs	Ri	Rj	Re @ 90 Rho & loss factor 75%	100%
			50°C - Aluminum Conductor - Concentric Strand						
750	69	3.218	0.10	30.02	1.813	1.93	0.29	2.14	3.48
750	103	3.218	0.10	30.02	1.640	1.93	0.29	2.14	3.48
750	138	3.218	0.10	30.02	1.399	1.93	0.29	2.33	3.48
750	207	3.218	0.10	30.02	1.278	1.93	0.29	2.33	3.48
1000	69	3.407	0.11	22.74	2.039	1.76	0.27	2.11	3.15
1000	103	3.407	0.11	22.74	1.814	1.76	0.27	2.11	3.46
1000	138	3.407	0.11	22.74	1.646	1.76	0.27	2.11	3.46
1000	207	3.407	0.11	22.74	1.353	1.76	0.27	2.30	3.46
1000	Open	3.407	0.11	22.74	1.005	1.76	0.27	2.30	3.46
1250	69	3.540	0.12	18.39	2.248	1.64	0.26	2.09	3.13
1250	103	3.540	0.12	18.39	1.974	1.64	0.26	2.09	3.13
1250	138	3.540	0.12	18.39	1.771	1.64	0.26	2.09	3.44
1250	207	3.540	0.12	18.39	1.421	1.64	0.26	2.28	3.44
1250	Open	3.540	0.12	18.39	1.006	1.64	0.26	2.28	3.44
1500	69	3.660	0.13	15.55	2.440	1.54	0.25	2.08	3.11
1500	103	3.660	0.13	15.55	2.120	1.54	0.25	2.08	3.11
1500	138	3.660	0.13	15.55	1.885	1.54	0.25	2.08	3.42
1500	207	3.660	0.13	15.55	1.613	1.54	0.25	2.08	3.42
1500	Open	3.660	0.13	15.55	1.008	1.54	0.25	2.27	3.42
1750	69	3.770	0.13	13.54	2.617	1.46	0.24	2.06	3.10
1750	103	3.770	0.13	13.54	2.252	1.46	0.24	2.06	3.10
1750	138	3.770	0.13	13.54	1.988	1.46	0.24	2.06	3.10
1750	207	3.770	0.13	13.54	1.684	1.46	0.24	2.06	3.41
1750	Open	3.770	0.13	13.54	1.010	1.46	0.24	2.25	3.41
2000	Open	3.873	0.14	12.06	1.012	1.39	0.24	2.24	3.40
2250	Open	3.968	0.15	11.02	1.014	1.34	0.23	2.23	3.38
2500	Open	4.059	0.15	10.12	1.016	1.29	0.22	2.22	3.37

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1298

115 to 138 kV Shielded Single Conductor Unfilled X L P E Power Cable

Direct Buried - 2 Circuits - Six Cables - Spaced

25°C Earth Ambient

Condr Size	Shield 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 .0010 pf & Rho 60	90	120
						75% LF							
						90°C - Aluminum Conductor - Concentric Strand							
750	69	596	63	25.5	525	69	19.9	475	73	16.3	0.4	0.6	0.7
750	103	616	62	24.6	545	68	19.2	494	72	15.8	0.4	0.6	0.7
750	138	633	61	23.6	561	67	18.6	510	71	15.3	0.4	0.6	0.7
750	207	656	60	22.3	584	66	17.7	532	70	14.7	0.4	0.6	0.7
1000	69	669	66	26.3	585	72	20.2	527	75	16.4	0.4	0.6	0.8
1000	103	696	65	25.3	611	70	19.5	552	74	15.9	0.4	0.6	0.8
1000	138	720	64	24.2	635	69	18.8	574	73	15.5	0.5	0.6	0.8
1000	207	753	62	22.9	666	68	17.9	604	72	14.8	0.5	0.6	0.8
1000	Open	848	57	18.6	761	63	15.0	697	68	12.6	0.5	0.6	0.8
1250	69	726	68	27.0	632	73	20.5	567	76	16.5	0.5	0.6	0.8
1250	103	761	66	25.9	665	72	19.9	598	75	16.1	0.5	0.6	0.8
1250	138	791	65	24.8	693	71	19.1	625	75	15.5	0.5	0.6	0.8
1250	207	833	64	23.3	733	70	18.1	663	73	14.8	0.5	0.6	0.8
1250	Open	959	58	18.6	859	64	14.9	786	69	12.5	0.5	0.6	0.8
1500	69	772	69	27.4	669	74	20.7	600	78	16.6	0.5	0.7	0.9
1500	103	814	68	26.3	708	73	19.9	636	77	16.2	0.5	0.7	0.9
1500	138	850	67	25.3	742	72	19.3	667	76	15.7	0.5	0.7	0.9
1500	207	900	65	23.7	790	71	18.3	712	74	14.9	0.5	0.7	0.9
1500	Open	1059	59	18.6	946	65	14.8	865	69	12.4	0.5	0.7	0.9
1750	69	811	70	27.8	700	75	20.8	627	78	16.6	0.5	0.7	0.9
1750	103	859	69	26.6	744	74	20.1	668	77	16.1	0.5	0.7	0.9
1750	138	901	68	25.5	783	73	19.4	704	77	15.6	0.5	0.7	0.9
1750	207	959	66	23.9	838	72	18.3	754	75	14.9	0.5	0.7	0.9
1750	Open	1149	60	18.5	1024	66	14.8	935	70	12.4	0.5	0.7	0.9
2000	Open	1231	60	18.5	1094	67	14.7	995	71	12.1	0.5	0.7	0.9
2250	Open	1300	61	18.5	1154	67	14.6	1048	71	12.0	0.5	0.8	1.0
2500	Open	1367	61	18.4	1212	68	14.5	1100	72	12.0	0.6	0.8	1.0

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115 to 138 kV Shielded Single Conductor Unfilled X L P E Power Cable

Direct Buried - 2 Circuits - Six Cables - Spaced

25°C Earth Ambient

Condr Size	Shield 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 .0010 pf & Rho 60	90	120
						100% LF							
						90°C - Aluminum Conductor - Concentric Strand							
750	69	525	69	19.8	453	75	14.8	404	78	11.9	0.4	0.6	0.7
750	103	544	68	19.2	471	74	14.4	421	77	11.5	0.4	0.6	0.7
750	138	561	67	18.5	487	73	14.0	436	76	11.3	0.4	0.6	0.7
750	207	583	66	17.7	508	72	13.4	455	75	10.8	0.4	0.6	0.7
1000	69	584	72	20.1	502	76	14.9	445	79	11.8	0.4	0.6	0.8
1000	103	610	71	19.4	525	76	14.5	467	79	11.4	0.4	0.6	0.8
1000	138	633	70	18.7	546	75	14.0	487	78	11.2	0.5	0.6	0.8
1000	207	664	68	17.8	575	74	13.3	515	77	10.8	0.5	0.6	0.8
1000	Open	758	64	14.9	669	70	11.7	601	73	9.4	0.5	0.6	0.8
1250	69	630	73	20.4	538	78	14.9	477	80	11.8	0.5	0.6	0.8
1250	103	662	72	19.6	567	77	14.5	504	80	11.4	0.5	0.6	0.8
1250	138	691	71	19.0	594	76	14.0	528	79	11.1	0.5	0.6	0.8
1250	207	731	70	18.0	630	75	13.4	562	78	10.7	0.5	0.6	0.8
1250	Open	855	65	14.8	751	71	11.4	673	74	9.2	0.5	0.6	0.8
1500	69	668	75	20.6	567	79	14.9	502	81	11.7	0.5	0.7	0.9
1500	103	705	73	19.8	602	78	14.5	535	81	11.5	0.5	0.7	0.9
1500	138	739	72	19.1	633	77	14.1	561	80	11.1	0.5	0.7	0.9
1500	207	787	71	18.2	676	76	13.5	602	79	10.6	0.5	0.7	0.9
1500	Open	941	65	14.7	825	71	11.4	737	75	9.1	0.5	0.7	0.9
1750	69	698	76	20.6	592	80	14.8	523	82	11.7	0.5	0.7	0.9
1750	103	742	74	20.0	631	79	14.4	558	81	11.3	0.5	0.7	0.9
1750	138	781	73	19.3	665	78	14.0	592	81	11.1	0.5	0.7	0.9
1750	207	835	72	18.1	715	77	13.4	635	80	10.5	0.5	0.7	0.9
1750	Open	1021	66	14.7	887	72	11.1	796	75	9.0	0.5	0.7	0.9
2000	Open	1091	67	14.6	945	72	10.9	847	76	8.9	0.5	0.7	0.9
2250	Open	1146	67	14.4	994	73	10.9	890	76	8.8	0.5	0.8	1.0
2500	Open	1204	68	14.3	1043	73	10.8	932	77	8.7	0.6	0.8	1.0

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1300

115 to 138 kV Shielded Single Conductor Unfilled X L P E Power Cable

Direct Buried - 2 Circuits - Six Cables - Spaced

25°C Earth Ambient

Condr Size	Shield 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 .0010 pf & Rho 60	90	120
						75% LF							
						80°C - Aluminum Conductor - Concentric Strand							
750	69	549	58	22.0	483	63	17.1	436	66	13.9	0.4	0.6	0.7
750	103	567	57	21.2	500	62	16.5	453	65	13.5	0.4	0.6	0.7
750	138	583	56	20.4	516	61	16.0	468	65	13.2	0.4	0.6	0.7
750	207	606	55	19.2	539	60	15.2	490	64	12.6	0.4	0.6	0.7
1000	69	614	60	22.6	536	65	17.3	482	68	14.0	0.4	0.6	0.8
1000	103	638	59	21.9	560	64	16.8	505	67	13.7	0.4	0.6	0.8
1000	138	661	58	21.0	581	63	16.3	525	66	13.2	0.5	0.6	0.8
1000	207	693	57	19.7	612	62	15.4	555	65	12.7	0.5	0.6	0.8
1000	Open	791	52	15.7	710	57	12.7	650	61	10.7	0.5	0.6	0.8
1250	69	664	62	23.2	577	66	17.6	518	69	14.1	0.5	0.6	0.8
1250	103	695	61	22.3	606	65	17.0	544	68	13.8	0.5	0.6	0.8
1250	138	724	60	21.5	634	64	16.5	570	67	13.4	0.5	0.6	0.8
1250	207	764	58	20.2	672	63	15.6	607	66	12.7	0.5	0.6	0.8
1250	Open	895	53	15.8	801	58	12.6	732	62	10.6	0.5	0.6	0.8
1500	69	705	63	23.6	610	67	17.6	546	70	14.2	0.5	0.7	0.9
1500	103	742	62	22.8	644	66	17.1	578	69	13.9	0.5	0.7	0.9
1500	138	776	61	21.8	676	66	16.6	607	68	13.4	0.5	0.7	0.9
1500	207	825	59	20.5	722	64	15.8	650	67	12.7	0.5	0.7	0.9
1500	Open	987	54	15.8	882	59	12.5	804	63	10.4	0.5	0.7	0.9
1750	69	739	64	23.8	638	68	17.7	570	71	14.2	0.5	0.7	0.9
1750	103	781	63	22.9	676	67	17.2	605	70	13.8	0.5	0.7	0.9
1750	138	820	62	22.0	712	66	16.6	638	69	13.4	0.5	0.7	0.9
1750	207	877	60	20.7	765	65	15.8	688	68	12.8	0.5	0.7	0.9
1750	Open	1071	54	15.7	954	60	12.5	868	63	10.3	0.5	0.7	0.9
2000	Open	1147	55	15.7	1019	60	12.4	927	64	10.3	0.5	0.7	0.9
2250	Open	1210	55	15.6	1075	61	12.4	975	64	10.2	0.5	0.7	1.0
2500	Open	1272	56	15.6	1127	61	12.2	1023	64	10.2	0.6	0.8	1.0

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115 to 138 kV Shielded Single Conductor Unfilled X L P E Power Cable

Direct Buried - 2 Circuits - Six Cables - Spaced

25°C Earth Ambient

Condr Size	Shield 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 .0010 pf & Rho 60	90	120
						100% LF							
						80°C - Aluminum Conductor - Concentric Strand							
750	69	482	63	17.0	416	67	12.7	371	70	10.1	0.4	0.6	0.7
750	103	500	62	16.5	432	67	12.3	386	69	9.9	0.4	0.6	0.7
750	138	516	61	16.0	447	66	12.0	400	69	9.6	0.4	0.6	0.7
750	207	538	60	15.2	468	65	11.5	419	68	9.3	0.4	0.6	0.7
1000	69	535	65	17.3	459	69	12.7	407	71	10.1	0.4	0.6	0.8
1000	103	558	64	16.7	480	68	12.3	427	71	9.9	0.4	0.6	0.8
1000	138	580	63	16.1	500	68	12.0	446	70	9.6	0.5	0.6	0.8
1000	207	611	62	15.4	528	67	11.4	472	69	9.2	0.5	0.6	0.8
1000	Open	708	58	12.6	624	63	9.9	560	66	8.0	0.5	0.6	0.8
1250	69	576	66	17.5	491	70	12.7	435	72	10.0	0.5	0.6	0.8
1250	103	605	65	16.9	517	69	12.4	459	72	9.8	0.5	0.6	0.8
1250	138	632	65	16.4	542	69	12.1	482	71	9.6	0.5	0.6	0.8
1250	207	670	63	15.5	577	68	11.5	514	70	9.2	0.5	0.6	0.8
1250	Open	798	59	12.5	700	64	9.7	628	67	7.8	0.5	0.6	0.8
1500	69	609	67	17.6	517	71	12.7	457	73	10.0	0.5	0.7	0.9
1500	103	643	66	17.1	548	70	12.4	484	72	9.7	0.5	0.7	0.9
1500	138	674	66	16.5	576	69	12.1	510	72	9.5	0.5	0.7	0.9
1500	207	720	64	15.7	618	68	11.6	549	71	9.1	0.5	0.7	0.9
1500	Open	878	59	12.4	769	64	9.6	688	67	7.7	0.5	0.7	0.9
1750	69	635	68	17.6	538	72	12.7	475	73	9.9	0.5	0.7	0.9
1750	103	674	67	17.1	572	71	12.4	505	73	9.6	0.5	0.7	0.9
1750	138	711	66	16.5	606	70	12.1	535	72	9.4	0.5	0.7	0.9
1750	207	762	65	15.6	653	69	11.6	578	72	9.0	0.5	0.7	0.9
1750	Open	951	60	12.5	830	65	9.5	741	68	7.6	0.5	0.7	0.9
2000	Open	1016	60	12.3	881	65	9.3	789	68	7.5	0.5	0.7	0.9
2250	Open	1067	61	12.2	926	66	9.2	828	69	7.4	0.5	0.7	1.0
2500	Open	1120	61	12.1	970	66	9.1	867	69	7.3	0.6	0.8	1.0

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1302

115 to 138 kV Shielded Single Conductor Unfilled X L P E Power Cable

Direct Buried - 2 Circuits - Six Cables - Spaced

25°C Earth Ambient

Condr Size	Shield 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 .0010 pf & Rho 60	90	120
						75% LF							
						65°C - Aluminum Conductor - Concentric Strand							
750	69	468	49	16.4	411	53	12.6	371	55	10.3	0.4	0.6	0.7
750	103	482	49	15.9	425	53	12.3	383	55	10.1	0.4	0.6	0.7
750	138	497	48	15.3	439	52	12.0	397	54	9.9	0.4	0.6	0.7
750	207	518	47	14.4	460	51	11.4	417	54	9.4	0.4	0.6	0.7
1000	69	521	51	16.8	454	54	12.8	408	56	10.3	0.4	0.6	0.8
1000	103	540	50	16.4	472	54	12.6	425	56	10.2	0.4	0.6	0.8
1000	138	560	50	15.7	491	53	12.1	443	55	9.9	0.4	0.6	0.8
1000	207	590	49	14.8	520	52	11.4	470	55	9.4	0.5	0.6	0.8
1000	Open	689	45	11.4	619	49	9.2	566	51	7.7	0.5	0.6	0.8
1250	69	561	52	17.3	486	55	12.9	435	57	10.5	0.5	0.6	0.8
1250	103	585	52	16.7	509	55	12.6	457	57	10.3	0.5	0.6	0.8
1250	138	611	51	16.1	533	54	12.3	478	56	9.9	0.5	0.6	0.8
1250	207	648	50	15.1	568	53	11.7	512	56	9.5	0.5	0.6	0.8
1250	Open	780	45	11.4	697	49	9.2	637	52	7.7	0.5	0.6	0.8
1500	69	593	53	17.4	512	56	13.0	457	58	10.4	0.5	0.7	0.9
1500	103	622	52	17.0	539	56	12.7	482	57	10.2	0.5	0.7	0.9
1500	138	652	52	16.4	566	55	12.3	508	57	10.0	0.5	0.7	0.9
1500	207	697	51	15.3	608	54	11.7	546	56	9.5	0.5	0.7	0.9
1500	Open	860	46	11.5	767	50	9.2	699	52	7.6	0.5	0.7	0.9
1750	69	620	54	17.6	534	57	13.1	476	58	10.4	0.5	0.7	0.9
1750	103	653	53	17.1	564	56	12.8	503	58	10.2	0.5	0.7	0.9
1750	138	687	52	16.5	594	56	12.4	531	58	9.9	0.5	0.7	0.9
1750	207	738	51	15.5	642	55	11.8	577	57	9.5	0.5	0.7	0.9
1750	Open	931	46	11.4	829	50	9.1	754	53	7.5	0.5	0.7	0.9
2000	Open	996	47	11.4	885	51	9.1	804	53	7.5	0.5	0.7	0.9
2250	Open	1050	47	11.4	931	51	9.0	846	53	7.4	0.5	0.7	1.0
2500	Open	1103	47	11.4	977	51	8.9	886	54	7.3	0.6	0.8	1.0

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115 to 138 kV Shielded Single Conductor Unfilled X L P E Power Cable

Direct Buried - 2 Circuits - Six Cables - Spaced

25°C Earth Ambient

Condr Size	Shield 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 .0010 pf & Rho 60	90	120
						100% LF							
						65°C - Aluminum Conductor - Concentric Strand							
750	69	411	53	12.6	353	56	9.4	314	58	7.5	0.4	0.6	0.7
750	103	424	53	12.3	366	56	9.1	327	58	7.4	0.4	0.6	0.7
750	138	438	52	12.0	379	55	8.9	338	57	7.1	0.4	0.6	0.7
750	207	459	51	11.3	398	55	8.5	356	57	6.9	0.4	0.6	0.7
1000	69	453	54	12.8	387	57	9.4	343	59	7.4	0.4	0.6	0.8
1000	103	471	54	12.4	404	57	9.2	358	59	7.3	0.4	0.6	0.8
1000	138	491	53	12.1	422	56	9.0	376	58	7.2	0.4	0.6	0.8
1000	207	519	52	11.4	447	56	8.5	399	58	6.8	0.5	0.6	0.8
1000	Open	617	49	9.2	543	53	7.2	488	55	5.8	0.5	0.6	0.8
1250	69	485	55	12.9	413	58	9.4	365	60	7.3	0.5	0.6	0.8
1250	103	508	55	12.6	433	58	9.2	384	59	7.2	0.5	0.6	0.8
1250	138	532	54	12.2	454	57	9.0	403	59	7.1	0.5	0.6	0.8
1250	207	567	53	11.5	486	56	8.5	432	58	6.8	0.5	0.6	0.8
1250	Open	695	49	9.2	609	53	7.0	546	55	5.7	0.5	0.6	0.8
1500	69	511	56	13.0	433	59	9.4	382	60	7.3	0.5	0.7	0.9
1500	103	538	56	12.7	457	58	9.2	403	60	7.2	0.5	0.7	0.9
1500	138	566	55	12.3	481	58	9.0	425	59	7.0	0.5	0.7	0.9
1500	207	606	54	11.7	519	57	8.6	460	59	6.8	0.5	0.7	0.9
1500	Open	764	50	9.1	668	54	7.0	598	56	5.6	0.5	0.7	0.9
1750	69	533	57	13.1	450	59	9.3	396	60	7.3	0.5	0.7	0.9
1750	103	563	56	12.8	476	59	9.1	419	60	7.1	0.5	0.7	0.9
1750	138	593	56	12.4	503	58	8.9	446	60	7.1	0.5	0.7	0.9
1750	207	640	55	11.7	545	58	8.5	483	59	6.7	0.5	0.7	0.9
1750	Open	825	50	9.0	720	54	6.9	643	56	5.6	0.5	0.7	0.9
2000	Open	881	51	9.0	765	54	6.8	684	56	5.4	0.5	0.7	0.9
2250	Open	927	51	8.9	803	55	6.7	718	57	5.4	0.5	0.7	1.0
2500	Open	972	51	8.8	841	55	6.7	751	57	5.4	0.6	0.8	1.0

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1304

115 to 138 kV Shielded Single Conductor Unfilled X L P E Power Cable

Direct Buried - 2 Circuits - Six Cables - Spaced

25°C Earth Ambient

Condr Size	Shield 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 .0010 pf & Rho 60	90	120
						75% LF							
						50°C - Aluminum Conductor - Concentric Strand							
750	69	369	41	10.4	323	43	8.0	291	44	6.5	0.4	0.6	0.7
750	103	379	40	10.2	332	43	7.8	299	44	6.4	0.4	0.6	0.7
750	138	391	40	9.9	344	42	7.7	310	44	6.3	0.4	0.6	0.7
750	207	409	39	9.3	361	42	7.2	327	43	5.9	0.4	0.6	0.7
1000	69	409	42	10.8	355	44	8.1	318	45	6.5	0.4	0.6	0.8
1000	103	422	41	10.5	367	43	8.0	330	45	6.5	0.4	0.6	0.8
1000	138	438	41	10.2	382	43	7.7	344	44	6.3	0.4	0.6	0.8
1000	207	463	40	9.5	406	43	7.4	366	44	6.1	0.5	0.6	0.8
1000	Open	557	37	7.2	499	40	5.7	456	42	4.8	0.5	0.6	0.8
1250	69	438	42	11.0	379	44	8.2	338	45	6.6	0.5	0.6	0.8
1250	103	455	42	10.7	394	44	8.1	353	45	6.5	0.5	0.6	0.8
1250	138	475	42	10.4	412	44	7.9	370	45	6.4	0.5	0.6	0.8
1250	207	506	41	9.8	442	43	7.4	397	44	6.0	0.5	0.6	0.8
1250	Open	629	38	7.1	562	40	5.7	512	42	4.7	0.5	0.6	0.8
1500	69	462	43	11.1	397	45	8.2	354	46	6.6	0.5	0.7	0.9
1500	103	482	43	10.9	415	44	8.1	370	46	6.5	0.5	0.7	0.9
1500	138	505	42	10.5	436	44	7.9	390	45	6.4	0.5	0.7	0.9
1500	207	542	41	9.9	471	44	7.5	422	45	6.1	0.5	0.7	0.9
1500	Open	693	38	7.2	617	41	5.7	562	42	4.8	0.5	0.7	0.9
1750	69	481	43	11.1	413	45	8.3	367	46	6.6	0.5	0.7	0.9
1750	103	504	43	10.9	433	45	8.1	386	46	6.5	0.5	0.7	0.9
1750	138	530	43	10.6	457	45	7.9	407	46	6.3	0.5	0.7	0.9
1750	207	572	42	10.0	495	44	7.5	443	45	6.1	0.5	0.7	0.9
1750	Open	750	38	7.2	667	41	5.7	606	43	4.7	0.5	0.7	0.9
2000	Open	801	39	7.1	710	41	5.6	645	43	4.6	0.5	0.7	0.9
2250	Open	844	39	7.1	747	41	5.6	677	43	4.6	0.5	0.7	1.0
2500	Open	885	39	7.1	783	42	5.6	708	43	4.6	0.6	0.8	1.0

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115 to 138 kV Shielded Single Conductor Unfilled X L P E Power Cable

Direct Buried - 2 Circuits - Six Cables - Spaced

25°C Earth Ambient

Condr Size	Shield 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 .0010 pf & Rho 60	90	120
						100% LF							
						50°C - Aluminum Conductor - Concentric Strand							
750	69	323	43	8.1	277	45	5.9	246	46	4.7	0.4	0.6	0.7
750	103	333	43	8.0	286	45	5.8	254	46	4.6	0.4	0.6	0.7
750	138	344	42	7.7	296	44	5.7	264	45	4.5	0.4	0.6	0.7
750	207	362	42	7.2	313	44	5.5	279	45	4.4	0.4	0.6	0.7
1000	69	355	44	8.1	302	45	5.9	267	46	4.7	0.4	0.6	0.8
1000	103	368	43	8.0	314	45	5.8	278	46	4.6	0.4	0.6	0.8
1000	138	382	43	7.7	327	45	5.7	290	46	4.5	0.4	0.6	0.8
1000	207	406	43	7.4	349	44	5.5	310	46	4.4	0.5	0.6	0.8
1000	Open	498	40	5.7	437	42	4.5	393	44	3.6	0.5	0.6	0.8
1250	69	379	44	8.2	321	46	5.9	283	47	4.6	0.5	0.6	0.8
1250	103	394	44	8.1	335	46	5.8	295	47	4.6	0.5	0.6	0.8
1250	138	412	44	7.9	351	45	5.7	310	46	4.5	0.5	0.6	0.8
1250	207	441	43	7.4	377	45	5.5	334	46	4.3	0.5	0.6	0.8
1250	Open	561	40	5.7	490	43	4.4	440	44	3.6	0.5	0.6	0.8
1500	69	398	45	8.2	335	46	5.9	295	47	4.6	0.5	0.7	0.9
1500	103	415	45	8.1	351	46	5.8	309	47	4.6	0.5	0.7	0.9
1500	138	437	44	7.9	371	46	5.7	326	47	4.5	0.5	0.7	0.9
1500	207	470	44	7.5	400	45	5.4	354	46	4.3	0.5	0.7	0.9
1500	Open	616	41	5.6	536	43	4.4	481	44	3.5	0.5	0.7	0.9
1750	69	412	45	8.2	347	47	5.9	305	47	4.6	0.5	0.7	0.9
1750	103	432	45	8.1	365	46	5.8	321	47	4.6	0.5	0.7	0.9
1750	138	456	45	7.9	386	46	5.7	339	47	4.5	0.5	0.7	0.9
1750	207	495	44	7.5	420	46	5.5	372	47	4.3	0.5	0.7	0.9
1750	Open	665	41	5.7	577	43	4.3	517	45	3.4	0.5	0.7	0.9
2000	Open	708	41	5.6	614	43	4.2	549	45	3.5	0.5	0.7	0.9
2250	Open	745	41	5.6	644	44	4.2	575	45	3.4	0.5	0.7	1.0
2500	Open	780	42	5.6	674	44	4.1	601	45	3.4	0.6	0.8	1.0

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1306

115 to 138 kV Shielded Single Conductor Unfilled X L P E Power Cable

Direct Buried - 2 Circuits - Six Cables - Spaced

25°C Earth Ambient

Condr Size	Shield 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
		Total Watts/ft					
90°C - Aluminum Conductor - Concentric Strand							
750	69	113.1	87.9	87.9	65.6	72.1	52.3
750	103	110.6	86.4	86.7	64.9	71.3	52.0
750	138	108.2	85.1	85.1	64.3	70.5	51.7
750	207	105.0	83.1	83.4	63.2	69.3	50.8
1000	69	121.0	92.4	92.7	68.4	75.3	53.9
1000	103	118.1	90.9	91.2	67.5	74.5	53.5
1000	138	115.6	89.5	90.1	66.8	73.7	53.2
1000	207	112.1	87.3	87.8	65.6	72.3	52.8
1000	Open	99.2	79.4	80.0	62.0	67.2	50.1
1250	69	126.9	95.7	96.3	70.0	77.7	55.2
1250	103	124.1	94.1	95.0	69.2	76.9	54.8
1250	138	121.3	92.8	93.3	68.7	76.0	54.5
1250	207	117.6	90.7	91.2	67.6	74.7	53.9
1250	Open	102.7	81.8	82.6	63.3	69.2	50.9
1500	69	131.5	98.6	98.9	71.3	79.7	56.0
1500	103	128.8	96.8	97.7	70.8	79.0	56.1
1500	138	126.1	95.5	96.2	70.3	77.9	55.3
1500	207	122.0	93.4	94.2	69.1	76.6	55.0
1500	Open	106.1	84.0	84.8	64.7	71.1	51.8
1750	69	135.4	100.5	101.1	72.5	81.3	56.8
1750	103	132.8	99.3	99.9	72.1	80.7	56.5
1750	138	130.2	98.1	98.6	71.3	79.8	56.7
1750	207	126.0	95.7	96.4	70.4	78.2	55.7
1750	Open	109.1	86.3	86.8	65.3	72.5	52.8
2000	Open	111.6	87.8	88.3	66.1	73.2	53.3
2250	Open	114.0	88.8	90.0	67.0	74.4	53.9
2500	Open	116.0	90.2	91.4	67.9	75.4	54.4

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115 to 138 kV Shielded Single Conductor Unfilled X L P E Power Cable

Direct Buried - 2 Circuits - Six Cables - Spaced

25°C Earth Ambient

Condr Size	Shield 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
		Total Watts/ft					
80°C - Aluminum Conductor - Concentric Strand							
750	69	96.8	74.8	75.1	55.9	61.3	44.6
750	103	94.8	73.8	73.8	55.3	60.7	44.3
750	138	92.6	72.7	72.7	54.7	59.9	43.9
750	207	89.9	71.0	71.2	53.9	59.0	43.3
1000	69	103.4	78.7	79.0	58.1	64.0	45.8
1000	103	101.0	77.4	78.0	57.5	63.5	45.6
1000	138	98.9	76.3	76.6	56.9	62.6	45.4
1000	207	95.8	74.6	74.8	55.9	61.7	44.8
1000	Open	83.7	67.2	67.6	52.4	56.8	42.3
1250	69	108.2	81.6	81.9	59.5	66.1	46.9
1250	103	106.0	80.5	80.8	59.0	65.2	46.6
1250	138	103.8	79.3	79.8	58.5	64.6	46.4
1250	207	100.4	77.3	77.8	57.6	63.6	45.8
1250	Open	87.0	69.3	69.8	53.5	58.4	43.2
1500	69	112.3	84.0	84.3	60.7	67.7	47.6
1500	103	110.1	82.9	83.2	60.4	67.1	47.3
1500	138	107.9	81.6	82.1	59.8	66.3	47.0
1500	207	104.5	79.7	80.2	58.9	65.1	46.7
1500	Open	89.7	71.1	71.8	54.7	59.8	44.0
1750	69	115.6	85.5	86.3	61.6	69.1	48.2
1750	103	113.3	84.6	85.1	61.2	68.3	47.9
1750	138	111.2	83.8	84.0	61.1	67.6	47.8
1750	207	107.8	81.6	82.2	60.1	66.7	47.3
1750	Open	92.3	72.9	73.4	55.7	60.9	44.6
2000	Open	94.5	74.4	74.8	56.1	62.0	45.2
2250	Open	96.4	75.2	76.3	56.8	62.9	45.6
2500	Open	98.1	76.3	77.2	57.4	63.8	46.1

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115 to 138 kV Shielded Single Conductor Unfilled X L P E Power Cable

Direct Buried - 2 Circuits - Six Cables - Spaced

25°C Earth Ambient

Condr Size	Shield 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
		Total Watts/ft					
65°C - Aluminum Conductor - Concentric Strand							
750	69	71.4	55.2	55.2	40.9	45.1	32.5
750	103	70.0	54.3	54.5	40.6	44.4	32.5
750	138	68.6	53.4	53.7	40.2	44.0	32.1
750	207	66.3	52.2	52.4	39.4	43.2	31.7
1000	69	76.3	57.8	58.1	42.4	47.0	33.4
1000	103	74.7	57.0	57.2	42.1	46.5	33.2
1000	138	73.2	56.4	56.4	41.9	46.1	33.4
1000	207	70.9	55.0	55.2	41.0	45.2	32.8
1000	Open	60.8	48.9	49.2	38.0	41.3	30.8
1250	69	79.8	59.8	60.0	43.6	48.2	34.2
1250	103	78.2	59.2	59.4	43.2	48.0	34.1
1250	138	77.0	58.6	58.8	42.8	47.4	33.9
1250	207	74.4	57.1	57.3	42.2	46.7	33.5
1250	Open	63.3	50.4	50.7	38.9	42.5	31.4
1500	69	82.5	61.5	61.7	44.3	49.3	34.7
1500	103	81.1	60.9	61.1	44.2	49.0	34.5
1500	138	79.8	60.3	60.3	43.8	48.7	34.3
1500	207	77.4	58.7	59.1	43.3	47.8	34.1
1500	Open	65.4	51.7	52.1	39.7	43.4	32.0
1750	69	84.9	62.9	63.2	45.1	50.4	35.1
1750	103	83.6	62.3	62.6	44.8	49.9	34.9
1750	138	82.3	61.5	61.7	44.5	49.5	35.1
1750	207	79.8	60.2	60.6	43.9	49.1	34.6
1750	Open	67.1	52.8	53.3	40.4	44.3	32.4
2000	Open	68.7	53.9	54.4	40.9	45.1	32.9
2250	Open	70.1	54.8	55.3	41.4	45.8	33.2
2500	Open	71.3	55.6	56.2	41.9	46.4	33.6

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115 to 138 kV Shielded Single Conductor Unfilled X L P E Power Cable

Direct Buried - 2 Circuits - Six Cables - Spaced

25°C Earth Ambient

Condr Size	Shield 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
		Total Watts/ft					
50°C - Aluminum Conductor - Concentric Strand							
750	69	45.2	34.8	34.8	25.7	28.3	20.4
750	103	44.5	34.5	34.3	25.6	27.9	20.3
750	138	43.8	34.0	34.0	25.3	27.7	20.3
750	207	42.3	33.2	33.1	25.0	27.2	20.0
1000	69	48.4	36.6	36.6	26.7	29.5	21.0
1000	103	47.5	36.3	36.1	26.6	29.3	21.0
1000	138	46.7	35.7	35.7	26.3	29.1	20.8
1000	207	45.2	34.9	34.9	26.0	28.5	20.6
1000	Open	38.1	30.6	30.7	23.7	25.7	19.3
1250	69	50.4	37.9	37.9	27.4	30.3	21.5
1250	103	49.7	37.5	37.5	27.3	30.2	21.3
1250	138	49.0	37.0	37.0	27.1	30.0	21.3
1250	207	47.4	36.2	36.3	26.6	29.4	21.1
1250	Open	39.6	31.6	31.7	24.3	26.4	19.7
1500	69	52.2	38.9	38.7	27.8	30.9	21.7
1500	103	51.5	38.4	38.4	27.7	30.7	21.6
1500	138	50.7	38.2	38.0	27.7	30.5	21.6
1500	207	49.2	37.2	37.4	27.2	30.1	21.4
1500	Open	40.8	32.4	32.5	24.7	27.1	20.1
1750	69	53.5	39.5	39.7	28.2	31.5	22.0
1750	103	52.9	39.1	39.3	28.2	31.4	22.0
1750	138	52.2	38.8	39.0	28.1	31.1	21.8
1750	207	50.7	38.2	38.2	27.7	30.8	21.9
1750	Open	42.0	33.2	33.3	25.2	27.7	20.4
2000	Open	42.9	33.7	33.9	25.5	28.1	20.6
2250	Open	43.8	34.3	34.5	25.9	28.5	20.8
2500	Open	44.5	34.8	35.0	26.2	28.8	21.0

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1310

115 to 138 kV Shielded Single Conductor Unfilled X L P E Power Cable

Direct Buried - 2 Circuits - Six Cables - Spaced

25°C Earth Ambient

Condr Size	Sheath Res	OD	Wd	Rac	Qs	Ri	Rj	Re @ 90 loss 75%	Rho & factor 100%
			90°C - Aluminum Conductor - Concentric Strand						
750	69	3.218	0.10	30.02	1.848	1.93	0.29	2.87	4.37
750	103	3.218	0.10	30.02	1.677	1.93	0.29	2.87	4.37
750	138	3.218	0.10	30.02	1.542	1.93	0.29	2.87	4.37
750	207	3.218	0.10	30.02	1.380	1.93	0.29	2.87	4.37
1000	69	3.407	0.11	22.74	2.086	1.76	0.27	2.85	4.33
1000	103	3.407	0.11	22.74	1.863	1.76	0.27	2.85	4.34
1000	138	3.407	0.11	22.74	1.689	1.76	0.27	2.85	4.34
1000	207	3.407	0.11	22.74	1.482	1.76	0.27	2.85	4.34
1000	Open	3.407	0.11	22.74	1.004	1.76	0.27	2.85	4.34
1250	69	3.540	0.12	18.39	2.313	1.64	0.26	2.82	4.32
1250	103	3.540	0.12	18.39	2.033	1.64	0.26	2.83	4.32
1250	138	3.540	0.12	18.39	1.824	1.64	0.26	2.83	4.32
1250	207	3.540	0.12	18.39	1.575	1.64	0.26	2.83	4.32
1250	Open	3.540	0.12	18.39	1.005	1.64	0.26	2.83	4.32
1500	69	3.660	0.13	15.55	2.517	1.54	0.25	2.81	4.29
1500	103	3.660	0.13	15.55	2.196	1.54	0.25	2.81	4.31
1500	138	3.660	0.13	15.55	1.947	1.54	0.25	2.81	4.31
1500	207	3.660	0.13	15.55	1.660	1.54	0.25	2.81	4.31
1500	Open	3.660	0.13	15.55	1.006	1.54	0.25	2.81	4.31
1750	69	3.770	0.13	13.54	2.706	1.46	0.24	2.79	4.28
1750	103	3.770	0.13	13.54	2.340	1.46	0.24	2.79	4.29
1750	138	3.770	0.13	13.54	2.059	1.46	0.24	2.80	4.29
1750	207	3.770	0.13	13.54	1.738	1.46	0.24	2.80	4.29
1750	Open	3.770	0.13	13.54	1.008	1.46	0.24	2.80	4.29
2000	Open	3.873	0.14	12.06	1.009	1.39	0.24	2.79	4.28
2250	Open	3.968	0.15	11.02	1.011	1.34	0.23	2.78	4.27
2500	Open	4.059	0.15	10.12	1.017	1.29	0.22	2.75	4.26

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115 to 138 kV Shielded Single Conductor Unfilled X L P E Power Cable

Direct Buried - 2 Circuits - Six Cables - Spaced

25°C Earth Ambient

Condr Size	Sheath Res	OD	Wd	Rac	Qs	Ri	Rj	Re @ 90 Rho & loss 75%	Re @ 90 Rho & factor 100%
			80°C - Aluminum Conductor - Concentric Strand						
750	69	3.218	0.10	30.02	1.848	1.93	0.29	2.87	4.37
750	103	3.218	0.10	30.02	1.677	1.93	0.29	2.87	4.37
750	138	3.218	0.10	30.02	1.542	1.93	0.29	2.87	4.37
750	207	3.218	0.10	30.02	1.380	1.93	0.29	2.87	4.37
1000	69	3.407	0.11	22.74	2.086	1.76	0.27	2.85	4.33
1000	103	3.407	0.11	22.74	1.863	1.76	0.27	2.85	4.34
1000	138	3.407	0.11	22.74	1.689	1.76	0.27	2.85	4.34
1000	207	3.407	0.11	22.74	1.482	1.76	0.27	2.85	4.34
1000	Open	3.407	0.11	22.74	1.004	1.76	0.27	2.85	4.34
1250	69	3.540	0.12	18.39	2.313	1.64	0.26	2.82	4.32
1250	103	3.540	0.12	18.39	2.033	1.64	0.26	2.83	4.32
1250	138	3.540	0.12	18.39	1.824	1.64	0.26	2.83	4.32
1250	207	3.540	0.12	18.39	1.575	1.64	0.26	2.83	4.32
1250	Open	3.540	0.12	18.39	1.005	1.64	0.26	2.83	4.32
1500	69	3.660	0.13	15.55	2.517	1.54	0.25	2.81	4.29
1500	103	3.660	0.13	15.55	2.196	1.54	0.25	2.81	4.31
1500	138	3.660	0.13	15.55	1.947	1.54	0.25	2.81	4.31
1500	207	3.660	0.13	15.55	1.660	1.54	0.25	2.81	4.31
1500	Open	3.660	0.13	15.55	1.006	1.54	0.25	2.81	4.31
1750	69	3.770	0.13	13.54	2.706	1.46	0.24	2.79	4.28
1750	103	3.770	0.13	13.54	2.340	1.46	0.24	2.79	4.29
1750	138	3.770	0.13	13.54	2.059	1.46	0.24	2.80	4.29
1750	207	3.770	0.13	13.54	1.738	1.46	0.24	2.80	4.29
1750	Open	3.770	0.13	13.54	1.008	1.46	0.24	2.80	4.29
2000	Open	3.873	0.14	12.06	1.009	1.39	0.24	2.79	4.28
2250	Open	3.968	0.15	11.02	1.011	1.34	0.23	2.78	4.27
2500	Open	4.059	0.15	10.12	1.017	1.29	0.22	2.75	4.26

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1312

115 to 138 kV Shielded Single Conductor Unfilled X L P E Power Cable

Direct Buried - 2 Circuits - Six Cables - Spaced

25°C Earth Ambient

Condr Size	Sheath Res	OD	Wd	Rac	Qs	Ri	Rj	Re @ 90 Rho & loss 75%	Re @ 90 Rho & factor 100%
			65°C - Aluminum Conductor - Concentric Strand						
750	69	3.218	0.10	30.02	1.848	1.93	0.29	2.87	4.37
750	103	3.218	0.10	30.02	1.677	1.93	0.29	2.87	4.37
750	138	3.218	0.10	30.02	1.542	1.93	0.29	2.87	4.37
750	207	3.218	0.10	30.02	1.380	1.93	0.29	2.87	4.37
1000	69	3.407	0.11	22.74	2.086	1.76	0.27	2.85	4.33
1000	103	3.407	0.11	22.74	1.863	1.76	0.27	2.85	4.34
1000	138	3.407	0.11	22.74	1.689	1.76	0.27	2.85	4.34
1000	207	3.407	0.11	22.74	1.482	1.76	0.27	2.85	4.34
1000	Open	3.407	0.11	22.74	1.004	1.76	0.27	2.85	4.34
1250	69	3.540	0.12	18.39	2.313	1.64	0.26	2.82	4.32
1250	103	3.540	0.12	18.39	2.033	1.64	0.26	2.83	4.32
1250	138	3.540	0.12	18.39	1.824	1.64	0.26	2.83	4.32
1250	207	3.540	0.12	18.39	1.575	1.64	0.26	2.83	4.32
1250	Open	3.540	0.12	18.39	1.005	1.64	0.26	2.83	4.32
1500	69	3.660	0.13	15.55	2.517	1.54	0.25	2.81	4.29
1500	103	3.660	0.13	15.55	2.196	1.54	0.25	2.81	4.31
1500	138	3.660	0.13	15.55	1.947	1.54	0.25	2.81	4.31
1500	207	3.660	0.13	15.55	1.660	1.54	0.25	2.81	4.31
1500	Open	3.660	0.13	15.55	1.006	1.54	0.25	2.81	4.31
1750	69	3.770	0.13	13.54	2.706	1.46	0.24	2.79	4.28
1750	103	3.770	0.13	13.54	2.340	1.46	0.24	2.79	4.29
1750	138	3.770	0.13	13.54	2.059	1.46	0.24	2.80	4.29
1750	207	3.770	0.13	13.54	1.738	1.46	0.24	2.80	4.29
1750	Open	3.770	0.13	13.54	1.008	1.46	0.24	2.80	4.29
2000	Open	3.873	0.14	12.06	1.009	1.39	0.24	2.79	4.28
2250	Open	3.968	0.15	11.02	1.011	1.34	0.23	2.78	4.27
2500	Open	4.059	0.15	10.12	1.017	1.29	0.22	2.75	4.26

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115 to 138 kV Shielded Single Conductor Unfilled X L P E Power Cable

Direct Buried - 2 Circuits - Six Cables - Spaced

25°C Earth Ambient

Condr Size	Sheath Res	OD	Wd	Rac	Qs	Ri	Rj	Re @ 90 Rho & loss factor 75%	100%
50°C - Aluminum Conductor - Concentric Strand									
750	69	3.218	0.10	30.02	1.848	1.93	0.29	2.87	4.37
750	103	3.218	0.10	30.02	1.677	1.93	0.29	2.87	4.37
750	138	3.218	0.10	30.02	1.542	1.93	0.29	2.87	4.37
750	207	3.218	0.10	30.02	1.380	1.93	0.29	2.87	4.37
1000	69	3.407	0.11	22.74	2.086	1.76	0.27	2.85	4.33
1000	103	3.407	0.11	22.74	1.863	1.76	0.27	2.85	4.34
1000	138	3.407	0.11	22.74	1.689	1.76	0.27	2.85	4.34
1000	207	3.407	0.11	22.74	1.482	1.76	0.27	2.85	4.34
1000	Open	3.407	0.11	22.74	1.004	1.76	0.27	2.85	4.34
1250	69	3.540	0.12	18.39	2.313	1.64	0.26	2.82	4.32
1250	103	3.540	0.12	18.39	2.033	1.64	0.26	2.83	4.32
1250	138	3.540	0.12	18.39	1.824	1.64	0.26	2.83	4.32
1250	207	3.540	0.12	18.39	1.575	1.64	0.26	2.83	4.32
1250	Open	3.540	0.12	18.39	1.005	1.64	0.26	2.83	4.32
1500	69	3.660	0.13	15.55	2.517	1.54	0.25	2.81	4.29
1500	103	3.660	0.13	15.55	2.196	1.54	0.25	2.81	4.31
1500	138	3.660	0.13	15.55	1.947	1.54	0.25	2.81	4.31
1500	207	3.660	0.13	15.55	1.660	1.54	0.25	2.81	4.31
1500	Open	3.660	0.13	15.55	1.006	1.54	0.25	2.81	4.31
1750	69	3.770	0.13	13.54	2.706	1.46	0.24	2.79	4.28
1750	103	3.770	0.13	13.54	2.340	1.46	0.24	2.79	4.29
1750	138	3.770	0.13	13.54	2.059	1.46	0.24	2.80	4.29
1750	207	3.770	0.13	13.54	1.738	1.46	0.24	2.80	4.29
1750	Open	3.770	0.13	13.54	1.008	1.46	0.24	2.80	4.29
2000	Open	3.873	0.14	12.06	1.009	1.39	0.24	2.79	4.28
2250	Open	3.968	0.15	11.02	1.011	1.34	0.23	2.78	4.27
2500	Open	4.059	0.15	10.12	1.017	1.29	0.22	2.75	4.26

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1314

115 to 138 kV Shielded Single Conductor Unfilled X L P E Power Cable

in Unventilated Riser - Triplexed

40°C Air Ambient

Condr Size	Shield Res	No Sun 0 Ft/s	No Sun 2 Ft/s	Full Sun 0 Ft/s	Full Sun 2 Ft/s	delta Td for .0010 pf No Sun 0 Ft/s	delta Td for .0010 pf No Sun 2 Ft/s
		90°C - Aluminum Conductor - Concentric Strand					
750	69	462	487	394	425	0.6	0.5
750	103	472	497	402	431	0.6	0.5
750	138	478	503	407	435	0.6	0.5
750	207	484	509	413	439	0.6	0.5
1000	69	552	576	471	500	0.5	0.5
1000	103	567	592	484	510	0.5	0.5
1000	138	576	601	491	515	0.5	0.5
1000	207	586	611	498	521	0.5	0.5
1250	69	609	636	519	557	0.6	0.5
1250	103	629	657	536	571	0.6	0.5
1250	138	640	669	546	579	0.6	0.5
1250	207	653	682	557	587	0.6	0.5
1500	69	655	686	559	601	0.6	0.5
1500	103	680	711	580	623	0.6	0.5
1500	138	694	726	592	634	0.6	0.5
1500	207	710	742	606	644	0.6	0.5
1750	69	694	727	593	637	0.6	0.5
1750	103	723	757	617	663	0.6	0.5
1750	138	740	775	632	679	0.6	0.5
1750	207	759	794	647	695	0.6	0.5
2000	69	727	762	621	668	0.6	0.5
2000	103	760	796	649	698	0.6	0.5
2000	138	779	816	665	715	0.6	0.6
2000	207	801	839	683	735	0.6	0.6
2250	69	753	790	643	692	0.6	0.6
2250	103	789	827	674	725	0.6	0.6
2250	138	811	850	692	745	0.6	0.6
2250	207	834	874	712	766	0.6	0.6
2500	69	777	816	664	715	0.6	0.6
2500	103	816	856	697	750	0.6	0.6
2500	138	840	881	717	772	0.6	0.6
2500	207	866	908	739	796	0.6	0.6

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115 to 138 kV Shielded Single Conductor Unfilled X L P E Power Cable

in Unventilated Riser - Triplexed

40°C Air Ambient

Condr Size	Shield Res	No Sun 0 Ft/s	No Sun 2 Ft/s	Full Sun 0 Ft/s	Full Sun 2 Ft/s
		Total Watts/ft			
90°C - Aluminum Conductor - Concentric Strand					
750	69	25.7	28.5	18.7	19.3
750	103	25.3	28.0	18.4	18.9
750	138	25.1	27.7	18.2	18.8
750	207	24.8	27.4	18.1	18.7
1000	69	29.9	32.6	21.8	21.1
1000	103	29.3	32.0	21.4	20.8
1000	138	29.0	31.6	21.1	20.5
1000	207	28.7	31.2	18.6	20.3
1250	69	31.7	34.6	23.1	26.6
1250	103	31.1	33.9	22.6	21.7
1250	138	30.7	33.5	22.4	21.5
1250	207	30.3	33.0	22.1	21.2
1500	69	33.2	36.4	24.2	27.9
1500	103	32.6	35.6	23.7	27.4
1500	138	32.1	35.1	23.4	22.3
1500	207	31.7	34.6	23.2	21.9
1750	69	34.5	37.9	25.3	29.1
1750	103	33.9	37.2	24.8	28.5
1750	138	33.5	36.7	24.5	28.2
1750	207	33.1	36.2	24.1	22.6
2000	69	35.8	39.3	26.1	30.2
2000	103	35.2	38.6	25.7	29.7
2000	138	34.7	38.0	25.4	29.3
2000	207	34.3	37.6	25.0	28.9
2250	69	36.8	40.5	26.9	31.1
2250	103	36.2	39.7	26.5	30.6
2250	138	35.8	39.3	26.2	30.3
2250	207	35.3	38.7	25.8	29.8
2500	69	37.8	41.7	27.7	32.0
2500	103	37.2	40.9	27.2	31.5
2500	138	36.8	40.5	26.9	31.2
2500	207	36.4	40.0	26.6	30.8

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1316

115 to 138 kV Shielded Single Conductor Unfilled X L P E Power Cable

in Unventilated Riser - Triplexed

40°C Air Ambient

Condr Size	Sheath Res	OD	Duct ID	Wd	Rac	Qs	Qe	Ri	Rj	Rsd	Rd	Re No Sun 0 fps	Re Sun 2 fps
					90°C - Aluminum Conductor - Concentric Strand								
750	69	3.218	7.98	0.10	30.27	1.246	1.310	1.93	.29	2.26	.00	1.96	1.40
750	103	3.218	7.98	0.10	30.27	1.170	1.234	1.93	.29	2.27	.00	1.96	1.40
750	138	3.218	7.98	0.10	30.27	1.128	1.193	1.93	.29	2.27	.00	1.97	1.40
750	207	3.218	7.98	0.10	30.27	1.086	1.151	1.93	.29	2.28	.00	1.97	1.40
1000	69	3.407	10.02	0.11	23.06	1.323	1.404	1.76	.27	2.04	.00	1.59	1.19
1000	103	3.407	10.02	0.11	23.06	1.223	1.304	1.76	.27	2.05	.00	1.59	1.19
1000	138	3.407	10.02	0.11	23.06	1.168	1.250	1.76	.27	2.05	.00	1.60	1.19
1000	207	3.407	10.02	0.11	23.06	1.113	1.195	1.76	.27	2.06	.00	1.60	1.19
1250	69	3.540	10.02	0.12	18.82	1.392	1.498	1.64	.26	1.97	.00	1.57	1.19
1250	103	3.540	10.02	0.12	18.82	1.270	1.377	1.64	.26	1.98	.00	1.58	1.19
1250	138	3.540	10.02	0.12	18.82	1.204	1.310	1.64	.26	1.99	.00	1.58	1.19
1250	207	3.540	10.02	0.12	18.82	1.137	1.243	1.64	.26	1.99	.00	1.59	1.19
1500	69	3.660	10.02	0.13	16.05	1.455	1.586	1.54	.25	1.91	.00	1.56	1.19
1500	103	3.660	10.02	0.13	16.05	1.314	1.445	1.54	.25	1.92	.00	1.57	1.19
1500	138	3.660	10.02	0.13	16.05	1.237	1.368	1.54	.25	1.93	.00	1.57	1.19
1500	207	3.660	10.02	0.13	16.05	1.159	1.291	1.54	.25	1.94	.00	1.57	1.19
1750	69	3.770	10.02	0.13	14.15	1.513	1.669	1.46	.24	1.87	.00	1.55	1.18
1750	103	3.770	10.02	0.13	14.15	1.354	1.510	1.46	.24	1.88	.00	1.56	1.18
1750	138	3.770	10.02	0.13	14.15	1.267	1.423	1.46	.24	1.88	.00	1.56	1.18
1750	207	3.770	10.02	0.13	14.15	1.180	1.335	1.46	.24	1.89	.00	1.56	1.19
2000	69	3.873	10.02	0.14	12.77	1.566	1.746	1.39	.24	1.83	.00	1.55	1.18
2000	103	3.873	10.02	0.14	12.77	1.390	1.570	1.39	.24	1.84	.00	1.55	1.18
2000	138	3.873	10.02	0.14	12.77	1.295	1.474	1.39	.24	1.84	.00	1.55	1.18
2000	207	3.873	10.02	0.14	12.77	1.198	1.378	1.39	.24	1.85	.00	1.56	1.18
2250	69	3.968	10.02	0.15	11.81	1.609	1.810	1.34	.23	1.79	.00	1.54	1.18
2250	103	3.968	10.02	0.15	11.81	1.420	1.621	1.34	.23	1.80	.00	1.54	1.18
2250	138	3.968	10.02	0.15	11.81	1.317	1.518	1.34	.23	1.81	.00	1.55	1.18
2250	207	3.968	10.02	0.15	11.81	1.213	1.415	1.34	.23	1.82	.00	1.55	1.18
2500	69	4.059	10.02	0.15	11.00	1.650	1.874	1.29	.22	1.76	.00	1.53	1.18
2500	103	4.059	10.02	0.15	11.00	1.448	1.672	1.29	.22	1.77	.00	1.54	1.18
2500	138	4.059	10.02	0.15	11.00	1.338	1.562	1.29	.22	1.78	.00	1.54	1.18
2500	207	4.059	10.02	0.15	11.00	1.228	1.451	1.29	.22	1.78	.00	1.54	1.18

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