115 to 138 kV Shielded Single Conductor Filled X L P E or E P R 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 .0150 pf & Rho 60	90	120
		90°C - Copper Conductor - Concentric Strand								
750	69	580	537	530	478	488	432	9.7	11.8	13.9
750	103	609	563	558	503	515	455	9.7	11.8	13.9
750	138	632	585	580	523	535	474	10.0	12.0	14.1
750	207	662	614	608	551	563	500	10.0	12.1	14.2
750	Open	753	704	697	637	649	582	10.0	12.1	14.2
1000	69	638	588	580	520	531	468	10.2	12.4	14.7
1000	103	677	623	616	552	565	497	10.2	12.4	14.7
1000	138	708	651	645	579	592	521	10.5	12.7	15.0
1000	207	747	690	683	615	628	555	10.5	12.8	15.1
1000	Open	876	816	807	735	748	668	10.6	12.8	15.1
1250	69	681	625	616	550	561	492	10.6	13.1	15.5
1250	103	727	668	659	589	601	527	10.6	13.1	15.5
1250	138	765	702	694	620	634	556	10.9	13.4	15.9
1250	207	814	749	740	664	678	597	11.0	13.4	15.9
1250	Open	979	910	898	815	828	738	11.0	13.5	15.9
1500	Open	1066	989	975	882	896	796	11.5	14.1	16.7
1750	Open	1141	1056	1040	939	953	845	11.9	14.6	17.3
2000	Open	1208	1116	1097	989	1003	887	12.2	15.1	17.9
2250	Open	1262	1164	1143	1028	1041	920	12.5	15.5	18.5
2500	Open	1313	1209	1186	1065	1078	951	12.8	15.9	19.0

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115 to 138 kV Shielded Single Conductor Filled X L P E or E P R 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 for 90°C - Copper Conductor - Concentric Strand							
750	69	45.2	39.6	38.7	32.6	33.7	27.7
750	103	44.2	38.6	38.0	32.0	33.3	27.3
750	138	43.2	37.9	37.3	31.5	32.6	26.9
750	207	41.8	36.8	36.2	30.8	31.9	26.4
750	Open	37.7	33.7	33.2	28.7	29.6	24.9
1000	69	47.9	41.6	40.7	34.0	35.2	28.8
1000	103	46.9	40.8	40.0	33.4	34.7	28.3
1000	138	46.0	39.9	39.3	32.9	34.1	27.9
1000	207	44.3	38.8	38.1	32.2	33.3	27.4
1000	Open	39.6	35.2	34.6	29.8	30.6	25.8
1250	69	49.8	43.0	42.0	34.9	36.0	29.3
1250	103	48.8	42.3	41.4	34.5	35.6	29.0
1250	138	47.9	41.4	40.6	33.9	35.1	28.6
1250	207	46.3	40.3	39.5	33.2	34.3	28.1
1250	Open	41.1	36.5	35.7	30.6	31.4	26.4
1500	Open	42.3	37.5	36.6	31.3	32.1	26.9
1750	Open	43.4	38.3	37.4	31.9	32.7	27.4
2000	Open	44.4	39.1	38.1	32.5	33.2	27.7
2250	Open	45.3	39.8	38.7	32.9	33.6	28.1
2500	Open	46.1	40.4	39.3	33.4	34.0	28.4

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115 to 138 kV Shielded Single Conductor Filled X L P E or E P R Power Cable

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

25°C Earth Ambient

Size	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 - Copper Conductor - Concentric Strand							
750	69	3.218	5.05	2.00	18.60	2.180	1.93	0.29	1.24	0.24	2.03	3.16
750	103	3.218	5.05	2.00	18.60	1.913	1.93	0.29	1.24	0.24	2.03	3.30
750	138	3.218	5.05	2.00	18.60	1.685	1.93	0.29	1.24	0.24	2.11	3.30
750	207	3.218	5.05	2.00	18.60	1.482	1.93	0.29	1.25	0.24	2.11	3.30
750	Open	3.218	5.05	2.00	18.60	1.003	1.93	0.29	1.28	0.24	2.11	3.30
1000	69	3.407	5.05	2.18	14.30	2.482	1.76	0.27	1.16	0.24	2.03	3.16
1000	103	3.407	5.05	2.18	14.30	2.141	1.76	0.27	1.17	0.24	2.03	3.30
1000	138	3.407	5.05	2.18	14.30	1.855	1.76	0.27	1.17	0.24	2.11	3.30
1000	207	3.407	5.05	2.18	14.30	1.600	1.76	0.27	1.18	0.24	2.11	3.30
1000	Open	3.407	5.05	2.18	14.30	1.004	1.76	0.27	1.20	0.24	2.11	3.30
1250	69	3.540	5.05	2.34	11.79	2.745	1.64	0.26	1.11	0.24	2.03	3.16
1250	103	3.540	5.05	2.34	11.79	2.337	1.64	0.26	1.12	0.24	2.03	3.30
1250	138	3.540	5.05	2.34	11.79	2.000	1.64	0.26	1.12	0.24	2.11	3.30
1250	207	3.540	5.05	2.34	11.79	1.701	1.64	0.26	1.13	0.24	2.11	3.30
1250	Open	3.540	5.05	2.34	11.79	1.006	1.64	0.26	1.16	0.24	2.11	3.30
1500	Open	3.660	5.05	2.48	10.16	1.007	1.54	0.25	1.11	0.24	2.11	3.30
1750	Open	3.770	5.05	2.61	9.03	1.009	1.46	0.24	1.08	0.24	2.11	3.30
2000	Open	3.873	5.05	2.73	8.18	1.010	1.39	0.24	1.05	0.24	2.11	3.30
2250	Open	3.968	5.05	2.84	7.60	1.011	1.34	0.23	1.02	0.24	2.11	3.30
2500	Open	4.059	5.05	2.95	7.10	1.013	1.29	0.22	1.00	0.24	2.11	3.30

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115 to 138 kV Shielded Single Conductor Filled X L P E or E P R 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 .0150 pf & Rho 60	90	120
		90°C - Copper Conductor - Concentric Strand								
750	69	511	453	438	378	381	324	13.7	18.0	22.3
750	103	538	478	462	400	403	342	13.7	18.0	22.4
750	138	558	497	480	417	419	358	13.7	18.0	22.4
750	207	584	521	504	438	441	377	13.7	18.0	22.4
750	Open	658	592	573	502	503	433	13.8	18.1	22.4
1000	69	560	493	475	407	410	346	14.6	19.3	24.0
1000	103	594	525	505	434	436	369	14.6	19.3	24.0
1000	138	621	550	529	456	458	388	14.6	19.3	24.0
1000	207	656	582	560	485	485	413	14.6	19.3	24.0
1000	Open	759	681	654	572	571	489	14.6	19.3	24.0
1250	69	596	523	501	428	428	360	15.3	20.4	25.5
1250	103	637	560	537	460	460	387	15.3	20.4	25.5
1250	138	669	590	565	485	485	409	15.4	20.4	25.5
1250	207	711	629	603	519	518	439	15.4	20.4	25.5
1250	Open	841	752	720	627	623	533	15.4	20.5	25.5
1500	Open	911	812	775	672	665	567	16.1	21.5	26.9
1750	Open	969	862	819	709	698	595	16.8	22.4	28.1
2000	Open	1021	906	857	741	726	618	17.4	23.3	29.2
2250	Open	1061	940	886	764	746	633	17.9	24.0	30.2
2500	Open	1099	972	913	786	764	648	18.4	24.8	31.2

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115 to 138 kV Shielded Single Conductor Filled X L P E or E P R 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 for 90°C - Copper Conductor - Concentric Strand							
750	69	68.8	56.6	53.7	43.1	43.6	34.8
750	103	67.6	55.9	53.0	42.7	43.2	34.4
750	138	66.3	55.1	52.2	42.3	42.6	34.4
750	207	64.9	54.1	51.4	41.7	42.1	34.0
750	Open	60.5	51.2	48.8	40.2	40.3	33.0
1000	69	71.9	58.7	55.4	44.2	44.6	35.5
1000	103	70.5	57.9	54.6	43.7	44.0	35.2
1000	138	69.3	57.2	53.9	43.4	43.7	35.0
1000	207	67.8	56.1	52.9	43.0	43.0	34.8
1000	Open	62.7	53.0	49.9	41.3	41.2	33.7
1250	69	74.1	60.3	56.5	45.0	45.0	35.9
1250	103	72.7	59.4	55.7	44.6	44.6	35.7
1250	138	71.5	58.7	55.0	44.2	44.2	35.5
1250	207	69.9	57.7	54.2	43.8	43.7	35.3
1250	Open	64.4	54.3	50.9	42.0	41.7	34.2
1500	Open	65.9	55.4	51.8	42.6	42.1	34.6
1750	Open	67.0	56.3	52.3	43.1	42.3	35.0
2000	Open	68.2	57.2	52.9	43.7	42.6	35.4
2250	Open	69.1	57.9	53.3	44.0	42.8	35.6
2500	Open	70.0	58.6	53.8	44.4	43.0	35.9

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

25°C Earth Ambient

Size	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 - Copper Conductor - Concentric Strand							
750	69	3.218	5.05	2.00	18.60	1.961	1.93	0.29	1.19	0.24	4.00	6.34
750	103	3.218	5.05	2.00	18.60	1.730	1.93	0.29	1.20	0.24	4.00	6.34
750	138	3.218	5.05	2.00	18.60	1.572	1.93	0.29	1.20	0.24	4.00	6.34
750	207	3.218	5.05	2.00	18.60	1.395	1.93	0.29	1.21	0.24	4.00	6.34
750	Open	3.218	5.05	2.00	18.60	1.003	1.93	0.29	1.22	0.24	4.00	6.34
1000	69	3.407	5.05	2.18	14.30	2.201	1.76	0.27	1.12	0.24	4.00	6.34
1000	103	3.407	5.05	2.18	14.30	1.907	1.76	0.27	1.13	0.24	4.00	6.34
1000	138	3.407	5.05	2.18	14.30	1.710	1.76	0.27	1.13	0.24	4.00	6.34
1000	207	3.407	5.05	2.18	14.30	1.490	1.76	0.27	1.14	0.24	4.00	6.34
1000	Open	3.407	5.05	2.18	14.30	1.005	1.76	0.27	1.15	0.24	4.00	6.34
1250	69	3.540	5.05	2.34	11.79	2.407	1.64	0.26	1.08	0.24	4.00	6.34
1250	103	3.540	5.05	2.34	11.79	2.058	1.64	0.26	1.08	0.24	4.00	6.34
1250	138	3.540	5.05	2.34	11.79	1.826	1.64	0.26	1.09	0.24	4.00	6.34
1250	207	3.540	5.05	2.34	11.79	1.569	1.64	0.26	1.09	0.24	4.00	6.34
1250	Open	3.540	5.05	2.34	11.79	1.006	1.64	0.26	1.11	0.24	4.00	6.34
1500	Open	3.660	5.05	2.48	10.16	1.008	1.54	0.25	1.07	0.24	4.00	6.34
1750	Open	3.770	5.05	2.61	9.03	1.009	1.46	0.24	1.03	0.24	4.00	6.34
2000	Open	3.873	5.05	2.73	8.18	1.011	1.39	0.24	1.01	0.24	4.00	6.34
2250	Open	3.968	5.05	2.84	7.60	1.012	1.34	0.23	0.98	0.24	4.00	6.34
2500	Open	4.059	5.05	2.95	7.10	1.014	1.29	0.22	0.96	0.24	4.00	6.34

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115 to 138 kV Shielded Single Conductor Filled X L P E or E P R Power Cable

Direct Buried - Triplexed - Single Circuit

25°C Earth Ambient

90°C - Copper Conductor - Concentric Strand

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 .0150 pf & Rho 60	90	120
						75% LF							
750	69	771	64	36.1	670	71	28.3	594	75	23.3	8.8	11.9	15.0
750	103	787	64	35.3	686	70	27.9	609	74	23.0	8.8	11.9	15.0
750	138	796	63	34.9	695	70	27.6	618	74	22.7	8.8	11.9	15.0
750	207	806	63	34.3	704	69	27.3	627	74	22.6	8.8	11.9	15.0
1000	69	879	66	36.5	758	72	28.3	669	76	23.1	9.2	12.6	15.9
1000	103	902	65	35.6	780	71	27.8	690	76	22.7	9.2	12.6	15.9
1000	138	915	65	35.0	793	71	27.5	702	75	22.5	9.2	12.6	15.9
1000	207	929	64	34.4	807	70	27.1	715	75	22.3	9.2	12.6	15.9
1250	69	962	68	36.9	825	74	28.4	724	77	23.0	9.6	13.2	16.8
1250	103	992	67	35.9	854	73	27.8	751	77	22.6	9.6	13.2	16.8
1250	138	1010	66	35.3	871	72	27.5	767	76	22.4	9.6	13.2	16.8
1250	207	1029	65	34.7	889	72	27.1	784	76	22.2	9.6	13.2	16.8
1500	69	1030	69	37.2	879	75	28.4	768	78	22.9	10.0	13.7	17.5
1500	103	1066	68	36.2	913	74	27.8	800	77	22.5	10.0	13.7	17.5
1500	138	1088	67	35.5	934	73	27.4	819	77	22.2	10.0	13.7	17.5
1500	207	1111	66	34.8	956	72	27.0	840	76	22.0	10.0	13.7	17.5
1750	69	1085	70	37.3	922	75	28.3	803	79	22.7	10.3	14.2	18.1
1750	103	1127	68	36.3	962	74	27.8	840	78	22.3	10.3	14.2	18.1
1750	138	1153	68	35.6	985	74	27.4	862	78	22.1	10.3	14.2	18.1
1750	207	1180	67	34.9	1011	73	26.9	886	77	21.8	10.3	14.2	18.1
2000	69	1133	70	37.5	959	76	28.3	833	79	22.6	10.6	14.7	18.7
2000	103	1181	69	36.4	1003	75	27.7	873	79	22.2	10.6	14.7	18.7
2000	138	1209	68	35.6	1030	74	27.3	898	78	21.9	10.6	14.7	18.7
2000	207	1240	68	34.9	1060	74	26.8	925	78	21.7	10.6	14.7	18.7
2250	69	1170	71	37.5	987	77	28.1	855	80	22.4	10.9	15.1	19.3
2250	103	1222	70	36.3	1036	76	27.5	899	79	22.0	10.9	15.1	19.3
2250	138	1254	69	35.6	1065	75	27.2	926	79	21.8	10.9	15.1	19.3
2250	207	1288	68	34.9	1097	74	26.7	956	78	21.5	10.9	15.1	19.3
2500	69	1205	72	37.5	1014	77	28.0	876	80	22.2	11.2	15.5	19.8
2500	103	1262	70	36.3	1066	76	27.4	923	80	21.9	11.2	15.5	19.8
2500	138	1296	70	35.6	1098	75	27.0	952	79	21.6	11.2	15.5	19.8
2500	207	1334	69	34.8	1133	75	26.6	984	78	21.3	11.2	15.5	19.8

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115 to 138 kV Shielded Single Conductor Filled X L P E or E P R Power Cable

Direct Buried - Triplexed - Single Circuit

25°C Earth Ambient

90°C - Copper Conductor - Concentric Strand

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 .0150 pf & Rho 60	90	120
						100% LF							
750	69	692	69	30.0	586	75	22.7	510	79	18.3	8.8	11.9	15.0
750	103	708	69	29.5	601	75	22.4	524	78	18.2	8.8	11.9	15.0
750	138	717	68	29.2	610	74	22.3	532	78	18.1	8.8	11.9	15.0
750	207	727	68	28.8	619	74	22.1	541	78	18.0	8.8	11.9	15.0
1000	69	783	71	30.0	658	77	22.5	570	80	18.0	9.2	12.6	15.9
1000	103	806	70	29.3	679	76	22.2	589	79	17.9	9.2	12.6	15.9
1000	138	819	70	29.0	692	76	22.0	601	79	17.7	9.2	12.6	15.9
1000	207	834	69	28.6	705	75	21.8	613	79	17.6	9.2	12.6	15.9
1250	69	852	72	30.1	712	78	22.4	614	81	17.9	9.6	13.2	16.8
1250	103	882	71	29.4	739	77	22.0	638	80	17.7	9.6	13.2	16.8
1250	138	900	71	29.0	755	77	21.8	653	80	17.5	9.6	13.2	16.8
1250	207	918	70	28.6	773	76	21.6	669	80	17.4	9.6	13.2	16.8
1500	69	908	73	30.0	754	79	22.2	647	82	17.7	10.0	13.7	17.5
1500	103	943	72	29.3	787	78	21.9	677	81	17.5	10.0	13.7	17.5
1500	138	965	72	28.9	806	77	21.7	694	81	17.4	10.0	13.7	17.5
1500	207	988	71	28.5	827	77	21.4	713	80	17.2	10.0	13.7	17.5
1750	69	952	74	29.9	788	79	22.1	674	82	17.5	10.3	14.2	18.1
1750	103	994	73	29.3	825	78	21.8	707	82	17.3	10.3	14.2	18.1
1750	138	1018	73	28.9	847	78	21.5	727	81	17.2	10.3	14.2	18.1
1750	207	1045	72	28.4	872	77	21.3	749	81	17.0	10.3	14.2	18.1
2000	69	991	75	29.8	817	80	21.9	696	83	17.3	10.6	14.7	18.7
2000	103	1037	74	29.2	858	79	21.6	733	82	17.2	10.6	14.7	18.7
2000	138	1065	73	28.8	883	79	21.4	755	82	17.0	10.6	14.7	18.7
2000	207	1095	73	28.3	910	78	21.1	780	81	16.8	10.6	14.7	18.7
2250	69	1020	76	29.7	838	80	21.7	712	83	17.2	10.9	15.1	19.3
2250	103	1070	75	29.1	883	80	21.4	752	82	17.0	10.9	15.1	19.3
2250	138	1101	74	28.6	910	79	21.2	776	82	16.9	10.9	15.1	19.3
2250	207	1134	73	28.1	940	78	21.0	803	82	16.7	10.9	15.1	19.3
2500	69	1047	76	29.6	858	81	21.6	727	83	17.0	11.2	15.5	19.8
2500	103	1102	75	28.9	906	80	21.2	769	83	16.8	11.2	15.5	19.8
2500	138	1135	74	28.5	935	79	21.1	795	82	16.7	11.2	15.5	19.8
2500	207	1171	74	28.0	968	79	20.8	824	82	16.5	11.2	15.5	19.8

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115 to 138 kV Shielded Single Conductor Filled X L P E or E P R Power Cable

Direct Buried - Triplexed - Single Circuit

25°C Earth Ambient

80°C - Copper Conductor - Concentric Strand

		---- 60 Rho---			---- 90 Rho---			----120 Rho---			delta Td for .0150 pf & Rho		
		Amps	Interface Temp °C	Flux w/ft²	Amps	Interface Temp °C	Flux w/ft²	Amps	Interface Temp °C	Flux w/ft²	60	90	120
Condr Size	Shield Res												
						75% LF							
750	69	707	59	30.7	610	64	23.9	537	68	19.6	8.8	11.9	15.0
750	103	722	58	29.9	625	64	23.6	551	67	19.3	8.8	11.9	15.0
750	138	731	58	29.5	633	64	23.3	559	67	19.1	8.8	11.9	15.0
750	207	740	58	29.1	642	63	23.0	568	67	19.0	8.8	11.9	15.0
1000	69	803	61	30.9	688	66	23.9	601	69	19.4	9.2	12.6	15.9
1000	103	825	60	30.2	709	65	23.5	621	69	19.1	9.2	12.6	15.9
1000	138	838	59	29.7	721	65	23.2	633	68	18.9	9.2	12.6	15.9
1000	207	852	59	29.2	734	64	22.9	645	68	18.7	9.2	12.6	15.9
1250	69	877	62	31.3	746	67	23.9	649	70	19.2	9.6	13.2	16.8
1250	103	906	61	30.4	773	66	23.5	674	69	19.0	9.6	13.2	16.8
1250	138	923	60	29.9	789	66	23.1	689	69	18.8	9.6	13.2	16.8
1250	207	941	60	29.3	807	65	22.8	705	69	18.6	9.6	13.2	16.8
1500	69	937	63	31.5	792	68	23.9	686	71	19.1	10.0	13.7	17.5
1500	103	971	62	30.6	825	67	23.4	716	70	18.8	10.0	13.7	17.5
1500	138	992	61	30.1	844	66	23.1	733	70	18.6	10.0	13.7	17.5
1500	207	1014	61	29.4	865	66	22.8	753	69	18.4	10.0	13.7	17.5
1750	69	985	64	31.6	830	68	23.8	715	71	19.0	10.3	14.2	18.1
1750	103	1025	63	30.6	867	68	23.3	749	71	18.7	10.3	14.2	18.1
1750	138	1049	62	30.1	889	67	23.0	769	70	18.5	10.3	14.2	18.1
1750	207	1075	61	29.4	913	66	22.7	792	70	18.3	10.3	14.2	18.1
2000	69	1027	64	31.6	861	69	23.7	739	72	18.8	10.6	14.7	18.7
2000	103	1072	63	30.7	902	68	23.2	777	71	18.5	10.6	14.7	18.7
2000	138	1099	63	30.1	928	68	22.9	800	71	18.3	10.6	14.7	18.7
2000	207	1129	62	29.5	955	67	22.6	825	70	18.1	10.6	14.7	18.7
2250	69	1060	65	31.6	885	69	23.7	757	72	18.7	10.9	15.1	19.3
2250	103	1109	64	30.7	930	69	23.1	798	72	18.4	10.9	15.1	19.3
2250	138	1139	63	30.1	957	68	22.8	822	71	18.2	10.9	15.1	19.3
2250	207	1171	62	29.4	988	67	22.4	850	71	18.0	10.9	15.1	19.3
2500	69	1090	65	31.6	908	70	23.5	774	73	18.5	11.2	15.5	19.8
2500	103	1143	64	30.7	956	69	23.0	817	72	18.2	11.2	15.5	19.8
2500	138	1176	64	30.1	985	68	22.7	844	72	18.0	11.2	15.5	19.8
2500	207	1211	63	29.4	1018	68	22.3	874	71	17.8	11.2	15.5	19.8

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115 to 138 kV Shielded Single Conductor Filled X L P E or E P R Power Cable

Direct Buried - Triplexed - Single Circuit

25°C Earth Ambient

80°C - Copper Conductor - Concentric Strand

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 .0150 pf & Rho 60	90	120
						100% LF							
750	69	634	63	25.5	533	68	19.4	461	71	15.6	8.8	11.9	15.0
750	103	649	63	25.1	548	68	19.1	474	71	15.5	8.8	11.9	15.0
750	138	658	62	24.8	556	67	19.0	482	71	15.3	8.8	11.9	15.0
750	207	668	62	24.5	565	67	18.8	490	70	15.3	8.8	11.9	15.0
1000	69	715	65	25.5	597	69	19.1	512	72	15.3	9.2	12.6	15.9
1000	103	737	64	25.0	617	69	18.9	531	72	15.2	9.2	12.6	15.9
1000	138	750	63	24.7	629	68	18.7	541	71	15.0	9.2	12.6	15.9
1000	207	764	63	24.4	642	68	18.5	553	71	15.0	9.2	12.6	15.9
1250	69	777	66	25.6	644	70	19.0	550	73	15.2	9.6	13.2	16.8
1250	103	805	65	25.0	669	70	18.8	573	72	15.0	9.6	13.2	16.8
1250	138	822	64	24.7	685	69	18.6	586	72	14.9	9.6	13.2	16.8
1250	207	840	64	24.3	701	69	18.4	601	72	14.8	9.6	13.2	16.8
1500	69	825	67	25.5	680	71	18.9	578	73	15.0	10.0	13.7	17.5
1500	103	859	66	25.0	710	70	18.6	605	73	14.9	10.0	13.7	17.5
1500	138	879	65	24.7	729	70	18.5	621	73	14.7	10.0	13.7	17.5
1500	207	901	65	24.3	749	69	18.3	639	72	14.7	10.0	13.7	17.5
1750	69	865	67	25.5	709	71	18.8	600	74	14.9	10.3	14.2	18.1
1750	103	903	66	24.9	743	71	18.5	630	73	14.7	10.3	14.2	18.1
1750	138	927	66	24.6	764	70	18.3	649	73	14.6	10.3	14.2	18.1
1750	207	952	65	24.2	787	70	18.1	669	73	14.5	10.3	14.2	18.1
2000	69	898	68	25.4	733	72	18.6	618	74	14.7	10.6	14.7	18.7
2000	103	941	67	24.8	771	71	18.3	651	74	14.5	10.6	14.7	18.7
2000	138	967	66	24.5	795	71	18.1	672	74	14.4	10.6	14.7	18.7
2000	207	996	66	24.1	820	70	18.0	695	73	14.4	10.6	14.7	18.7
2250	69	923	68	25.2	751	72	18.4	631	75	14.6	10.9	15.1	19.3
2250	103	970	68	24.7	792	72	18.2	667	74	14.4	10.9	15.1	19.3
2250	138	999	67	24.4	817	71	18.0	689	74	14.3	10.9	15.1	19.3
2250	207	1031	66	24.0	846	71	17.8	714	73	14.2	10.9	15.1	19.3
2500	69	947	69	25.1	768	73	18.3	643	75	14.4	11.2	15.5	19.8
2500	103	997	68	24.6	812	72	18.0	681	74	14.3	11.2	15.5	19.8
2500	138	1029	67	24.3	839	72	17.9	705	74	14.2	11.2	15.5	19.8
2500	207	1063	67	23.8	869	71	17.7	732	74	14.1	11.2	15.5	19.8

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115 to 138 kV Shielded Single Conductor Filled X L P E or E P R Power Cable

Direct Buried - Triplexed - Single Circuit

25°C Earth Ambient

65°C - Copper Conductor - Concentric Strand

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 .0150 pf & Rho 60	90	120
						75% LF							
750	69	590	51	22.3	500	55	17.3	431	58	14.0	8.8	11.9	15.0
750	103	604	51	21.8	513	55	17.0	443	57	13.8	8.8	11.9	15.0
750	138	612	50	21.5	521	54	16.8	450	57	13.7	8.8	11.9	15.0
750	207	620	50	21.2	529	54	16.6	457	57	13.5	8.8	11.9	15.0
1000	69	667	52	22.5	560	56	17.2	478	58	13.8	9.2	12.6	15.9
1000	103	687	52	21.9	578	55	16.9	494	58	13.6	9.2	12.6	15.9
1000	138	699	51	21.5	589	55	16.7	504	58	13.4	9.2	12.6	15.9
1000	207	711	51	21.2	601	55	16.5	515	58	13.4	9.2	12.6	15.9
1250	69	726	53	22.6	603	57	17.1	511	59	13.6	9.6	13.2	16.8
1250	103	751	52	22.0	627	56	16.8	532	59	13.5	9.6	13.2	16.8
1250	138	766	52	21.7	641	56	16.6	544	58	13.3	9.6	13.2	16.8
1250	207	782	52	21.3	656	56	16.4	558	58	13.2	9.6	13.2	16.8
1500	69	772	54	22.8	637	57	17.1	535	60	13.5	10.0	13.7	17.5
1500	103	802	53	22.2	665	57	16.8	560	59	13.3	10.0	13.7	17.5
1500	138	820	53	21.8	681	56	16.5	575	59	13.2	10.0	13.7	17.5
1500	207	840	52	21.3	699	56	16.3	591	59	13.0	10.0	13.7	17.5
1750	69	809	54	22.8	664	58	17.0	554	60	13.3	10.3	14.2	18.1
1750	103	844	54	22.2	695	57	16.7	582	60	13.2	10.3	14.2	18.1
1750	138	865	53	21.8	715	57	16.4	599	59	13.0	10.3	14.2	18.1
1750	207	888	53	21.3	736	57	16.2	617	59	12.9	10.3	14.2	18.1
2000	69	840	55	22.8	686	58	16.9	568	60	13.2	10.6	14.7	18.7
2000	103	879	54	22.2	720	58	16.5	599	60	13.0	10.6	14.7	18.7
2000	138	903	54	21.8	741	57	16.3	617	60	12.9	10.6	14.7	18.7
2000	207	929	53	21.3	765	57	16.1	638	59	12.7	10.6	14.7	18.7
2250	69	865	55	22.7	702	58	16.7	579	61	13.0	10.9	15.1	19.3
2250	103	907	54	22.1	739	58	16.4	611	60	12.9	10.9	15.1	19.3
2250	138	933	54	21.7	762	58	16.3	631	60	12.7	10.9	15.1	19.3
2250	207	961	53	21.2	788	57	16.0	654	60	12.6	10.9	15.1	19.3
2500	69	887	55	22.7	717	59	16.7	588	61	12.9	11.2	15.5	19.8
2500	103	933	55	22.1	757	58	16.3	622	60	12.7	11.2	15.5	19.8
2500	138	961	54	21.7	781	58	16.1	643	60	12.6	11.2	15.5	19.8
2500	207	992	54	21.2	809	58	15.9	668	60	12.5	11.2	15.5	19.8

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115 to 138 kV Shielded Single Conductor Filled X L P E or E P R Power Cable

Direct Buried - Triplexed - Single Circuit

25°C Earth Ambient

65°C - Copper Conductor - Concentric Strand

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 .0150 pf & Rho 60	90	120
						100% LF							
750	69	529	54	18.8	437	57	14.2	369	60	11.4	8.8	11.9	15.0
750	103	543	53	18.5	449	57	14.1	381	59	11.4	8.8	11.9	15.0
750	138	551	53	18.2	457	57	14.0	387	59	11.3	8.8	11.9	15.0
750	207	560	53	18.0	465	57	13.8	395	59	11.2	8.8	11.9	15.0
1000	69	594	55	18.7	485	58	14.1	407	60	11.2	9.2	12.6	15.9
1000	103	613	54	18.4	503	58	13.8	422	60	11.2	9.2	12.6	15.9
1000	138	625	54	18.2	513	58	13.8	431	60	11.1	9.2	12.6	15.9
1000	207	637	54	17.9	525	57	13.6	441	60	11.0	9.2	12.6	15.9
1250	69	642	56	18.8	520	59	13.9	432	61	11.1	9.6	13.2	16.8
1250	103	667	55	18.4	542	58	13.8	451	60	11.0	9.6	13.2	16.8
1250	138	681	55	18.2	555	58	13.7	463	60	10.9	9.6	13.2	16.8
1250	207	697	54	17.9	570	58	13.5	476	60	10.9	9.6	13.2	16.8
1500	69	679	56	18.7	546	59	13.9	451	61	11.0	10.0	13.7	17.5
1500	103	708	56	18.3	572	59	13.7	473	61	10.9	10.0	13.7	17.5
1500	138	726	55	18.2	588	59	13.5	486	61	10.9	10.0	13.7	17.5
1500	207	746	55	17.9	605	58	13.4	501	60	10.7	10.0	13.7	17.5
1750	69	709	57	18.7	567	60	13.7	465	61	10.9	10.3	14.2	18.1
1750	103	743	56	18.3	596	59	13.5	489	61	10.8	10.3	14.2	18.1
1750	138	764	56	18.1	614	59	13.5	505	61	10.7	10.3	14.2	18.1
1750	207	786	55	17.8	634	59	13.3	522	61	10.7	10.3	14.2	18.1
2000	69	734	57	18.6	583	60	13.6	475	62	10.8	10.6	14.7	18.7
2000	103	771	57	18.2	615	60	13.4	502	61	10.6	10.6	14.7	18.7
2000	138	794	56	18.0	635	59	13.3	519	61	10.6	10.6	14.7	18.7
2000	207	819	56	17.7	657	59	13.2	538	61	10.5	10.6	14.7	18.7
2250	69	753	57	18.5	595	60	13.5	482	62	10.6	10.9	15.1	19.3
2250	103	793	57	18.1	629	60	13.3	510	62	10.6	10.9	15.1	19.3
2250	138	818	57	17.9	650	60	13.2	528	61	10.5	10.9	15.1	19.3
2250	207	845	56	17.6	674	59	13.1	549	61	10.4	10.9	15.1	19.3
2500	69	770	58	18.4	606	61	13.4	488	62	10.5	11.2	15.5	19.8
2500	103	813	57	18.0	642	60	13.2	518	62	10.4	11.2	15.5	19.8
2500	138	840	57	17.8	665	60	13.1	537	62	10.4	11.2	15.5	19.8
2500	207	870	56	17.6	691	60	13.0	559	61	10.3	11.2	15.5	19.8

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115 to 138 kV Shielded Single Conductor Filled X L P E or E P R Power Cable

Direct Buried - Triplexed - Single Circuit

25°C Earth Ambient

50°C - Copper Conductor - Concentric Strand

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 .0150 pf & Rho 60	90	120
						75% LF							
750	69	433	43	13.8	347	45	10.5	276	47	8.3	8.8	11.9	15.0
750	103	443	43	13.5	356	45	10.3	285	47	8.2	8.8	11.9	15.0
750	138	450	42	13.4	362	45	10.2	290	47	8.2	8.8	11.9	15.0
750	207	456	42	13.2	368	45	10.2	295	47	8.2	8.8	11.9	15.0
1000	69	484	44	13.8	381	46	10.3	297	48	8.1	9.2	12.6	15.9
1000	103	499	43	13.6	395	46	10.2	308	47	8.0	9.2	12.6	15.9
1000	138	508	43	13.4	403	46	10.1	315	47	8.0	9.2	12.6	15.9
1000	207	518	43	13.1	412	45	10.0	322	47	7.9	9.2	12.6	15.9
1250	69	522	44	13.9	404	46	10.3	307	48	8.0	9.6	13.2	16.8
1250	103	541	44	13.6	421	46	10.1	320	48	7.9	9.6	13.2	16.8
1250	138	552	43	13.4	431	46	10.0	328	48	7.8	9.6	13.2	16.8
1250	207	565	43	13.2	442	46	9.9	337	48	7.8	9.6	13.2	16.8
1500	69	550	44	13.9	420	47	10.1	311	48	7.8	10.0	13.7	17.5
1500	103	573	44	13.6	439	47	10.0	326	48	7.7	10.0	13.7	17.5
1500	138	587	44	13.3	451	46	9.9	336	48	7.7	10.0	13.7	17.5
1500	207	602	44	13.2	464	46	9.8	346	48	7.6	10.0	13.7	17.5
1750	69	573	45	13.9	432	47	10.0	312	48	7.7	10.3	14.2	18.1
1750	103	599	44	13.5	453	47	9.9	328	48	7.6	10.3	14.2	18.1
1750	138	615	44	13.3	466	47	9.8	339	48	7.5	10.3	14.2	18.1
1750	207	632	44	13.1	481	47	9.7	350	48	7.5	10.3	14.2	18.1
2000	69	591	45	13.9	439	47	9.9	310	49	7.5	10.6	14.7	18.7
2000	103	619	45	13.5	463	47	9.8	327	49	7.5	10.6	14.7	18.7
2000	138	637	44	13.3	477	47	9.7	338	48	7.4	10.6	14.7	18.7
2000	207	657	44	13.1	494	47	9.6	350	48	7.3	10.6	14.7	18.7
2250	69	604	45	13.8	444	47	9.8	305	49	7.3	10.9	15.1	19.3
2250	103	635	45	13.5	469	47	9.7	323	49	7.3	10.9	15.1	19.3
2250	138	654	45	13.2	484	47	9.6	334	49	7.3	10.9	15.1	19.3
2250	207	676	44	13.0	502	47	9.5	347	49	7.2	10.9	15.1	19.3
2500	69	616	46	13.7	448	48	9.7	299	49	7.2	11.2	15.5	19.8
2500	103	650	45	13.4	474	47	9.5	317	49	7.2	11.2	15.5	19.8
2500	138	670	45	13.2	490	47	9.5	329	49	7.2	11.2	15.5	19.8
2500	207	693	45	12.9	509	47	9.4	342	49	7.1	11.2	15.5	19.8

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Not for Resale

115 to 138 kV Shielded Single Conductor Filled X L P E or E P R Power Cable

Direct Buried - Triplexed - Single Circuit

25°C Earth Ambient

50°C - Copper Conductor - Concentric Strand

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 .0150 pf & Rho 60	90	120
						100% LF							
750	69	387	44	12.0	303	47	9.1	237	48	7.3	8.8	11.9	15.0
750	103	398	44	11.8	312	46	9.0	245	48	7.3	8.8	11.9	15.0
750	138	405	44	11.7	318	46	8.9	249	48	7.2	8.8	11.9	15.0
750	207	412	44	11.6	324	46	8.8	254	48	7.2	8.8	11.9	15.0
1000	69	430	45	11.9	330	47	8.9	252	48	7.1	9.2	12.6	15.9
1000	103	445	45	11.7	343	47	8.8	263	48	7.1	9.2	12.6	15.9
1000	138	455	44	11.6	351	47	8.8	269	48	7.1	9.2	12.6	15.9
1000	207	464	44	11.4	359	47	8.7	276	48	7.0	9.2	12.6	15.9
1250	69	461	45	11.9	348	47	8.8	259	49	7.0	9.6	13.2	16.8
1250	103	480	45	11.7	364	47	8.8	272	48	7.0	9.6	13.2	16.8
1250	138	491	45	11.6	373	47	8.7	279	48	6.9	9.6	13.2	16.8
1250	207	504	45	11.4	384	47	8.6	287	48	6.9	9.6	13.2	16.8
1500	69	484	46	11.8	360	48	8.7	262	49	6.9	10.0	13.7	17.5
1500	103	506	45	11.6	378	47	8.7	275	49	6.9	10.0	13.7	17.5
1500	138	519	45	11.5	389	47	8.6	284	49	6.9	10.0	13.7	17.5
1500	207	534	45	11.4	401	47	8.5	293	49	6.8	10.0	13.7	17.5
1750	69	502	46	11.8	368	48	8.7	261	49	6.8	10.3	14.2	18.1
1750	103	527	46	11.6	388	48	8.6	276	49	6.8	10.3	14.2	18.1
1750	138	542	46	11.5	400	48	8.6	285	49	6.8	10.3	14.2	18.1
1750	207	559	45	11.4	414	47	8.5	296	49	6.8	10.3	14.2	18.1
2000	69	515	46	11.7	373	48	8.6	258	49	6.8	10.6	14.7	18.7
2000	103	543	46	11.6	395	48	8.5	274	49	6.7	10.6	14.7	18.7
2000	138	560	46	11.4	408	48	8.5	284	49	6.7	10.6	14.7	18.7
2000	207	579	46	11.3	424	48	8.4	295	49	6.7	10.6	14.7	18.7
2250	69	525	46	11.6	376	48	8.5	254	49	6.7	10.9	15.1	19.3
2250	103	555	46	11.5	399	48	8.4	269	49	6.7	10.9	15.1	19.3
2250	138	573	46	11.3	413	48	8.4	280	49	6.7	10.9	15.1	19.3
2250	207	594	46	11.2	429	48	8.3	291	49	6.6	10.9	15.1	19.3
2500	69	534	47	11.6	378	48	8.4	248	49	6.6	11.2	15.5	19.8
2500	103	566	46	11.4	402	48	8.4	264	49	6.6	11.2	15.5	19.8
2500	138	585	46	11.3	417	48	8.3	274	49	6.6	11.2	15.5	19.8
2500	207	608	46	11.1	434	48	8.2	286	49	6.6	11.2	15.5	19.8

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115 to 138 kV Shielded Single Conductor Filled X L P E or E P R Power Cable

Direct Buried - Triplexed - Single Circuit

25°C Earth Ambient

Total Watts/ft for 90°C - Copper Conductor - Concentric Strand

		60 Rho		90 Rho		120 Rho	
		75 LF	100 LF	75 LF	100 LF	75 LF	100 LF
Condr Size	Shield Res						
750	69	48.3	40.0	37.9	30.4	31.1	24.5
750	103	47.2	39.3	37.3	30.0	30.7	24.3
750	138	46.5	38.9	36.9	29.8	30.4	24.1
750	207	45.9	38.5	36.5	29.5	30.2	24.0
1000	69	51.7	42.4	40.1	31.9	32.7	25.5
1000	103	50.4	41.5	39.3	31.4	32.2	25.2
1000	138	49.5	41.0	38.8	31.1	31.8	25.1
1000	207	48.7	40.5	38.4	30.8	31.5	24.9
1250	69	54.3	44.1	41.8	32.9	33.8	26.3
1250	103	52.8	43.2	40.9	32.4	33.3	25.9
1250	138	51.9	42.7	40.4	32.1	32.9	25.8
1250	207	51.0	42.0	39.8	31.8	32.5	25.6
1500	69	56.7	45.7	43.3	33.8	34.8	26.9
1500	103	55.0	44.6	42.3	33.3	34.2	26.6
1500	138	54.0	44.1	41.8	33.0	33.8	26.4
1500	207	52.9	43.4	41.1	32.6	33.4	26.2
1750	69	58.5	46.9	44.4	34.6	35.6	27.4
1750	103	56.8	45.9	43.5	34.1	35.0	27.1
1750	138	55.8	45.2	42.8	33.7	34.6	26.9
1750	207	54.6	44.5	42.2	33.4	34.2	26.7
2000	69	60.3	48.0	45.5	35.3	36.4	27.9
2000	103	58.5	47.0	44.5	34.7	35.7	27.6
2000	138	57.3	46.3	43.9	34.4	35.3	27.4
2000	207	56.1	45.5	43.2	34.0	34.8	27.1
2250	69	61.8	49.0	46.4	35.8	37.0	28.2
2250	103	59.9	47.9	45.4	35.3	36.3	28.0
2250	138	58.7	47.2	44.8	35.0	35.9	27.8
2250	207	57.5	46.5	44.0	34.6	35.5	27.5
2500	69	63.1	49.8	47.3	36.4	37.5	28.6
2500	103	61.3	48.8	46.2	35.9	36.9	28.3
2500	138	60.0	48.1	45.6	35.5	36.5	28.1
2500	207	58.7	47.3	44.8	35.1	36.0	27.9

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115 to 138 kV Shielded Single Conductor Filled X L P E or E P R Power Cable

Direct Buried - Triplexed - Single Circuit

25°C Earth Ambient

Total Watts/ft for 80°C - Copper Conductor - Concentric Strand

		60 Rho		90 Rho		120 Rho	
		75 LF	100 LF	75 LF	100 LF	75 LF	100 LF
Condr Size	Shield Res						
750	69	41.0	34.1	32.0	25.9	26.2	20.9
750	103	40.0	33.5	31.5	25.6	25.8	20.7
750	138	39.5	33.2	31.1	25.4	25.6	20.6
750	207	38.9	32.8	30.8	25.2	25.4	20.4
1000	69	43.8	36.0	33.9	27.1	27.4	21.7
1000	103	42.6	35.3	33.2	26.7	27.0	21.5
1000	138	42.0	34.9	32.8	26.5	26.7	21.3
1000	207	41.3	34.5	32.3	26.3	26.4	21.2
1250	69	46.0	37.6	35.2	28.0	28.3	22.3
1250	103	44.7	36.8	34.5	27.6	27.9	22.1
1250	138	44.0	36.3	34.0	27.4	27.6	21.9
1250	207	43.2	35.8	33.6	27.1	27.3	21.8
1500	69	47.9	38.8	36.3	28.7	29.1	22.8
1500	103	46.5	38.0	35.6	28.3	28.7	22.6
1500	138	45.7	37.4	35.1	28.1	28.3	22.4
1500	207	44.7	36.9	34.6	27.8	28.0	22.2
1750	69	49.4	39.9	37.4	29.4	29.8	23.3
1750	103	48.0	39.0	36.6	28.9	29.3	23.0
1750	138	47.1	38.5	36.0	28.7	28.9	22.9
1750	207	46.1	37.9	35.5	28.4	28.6	22.7
2000	69	50.9	40.8	38.2	29.9	30.3	23.6
2000	103	49.4	39.9	37.3	29.5	29.8	23.4
2000	138	48.4	39.4	36.9	29.3	29.5	23.2
2000	207	47.4	38.7	36.2	28.9	29.1	23.1
2250	69	52.1	41.6	38.9	30.4	30.8	24.0
2250	103	50.6	40.7	38.1	30.0	30.3	23.7
2250	138	49.6	40.2	37.5	29.7	29.9	23.6
2250	207	48.5	39.5	37.0	29.4	29.6	23.4
2500	69	53.2	42.4	39.7	30.9	31.2	24.3
2500	103	51.7	41.4	38.8	30.5	30.7	24.0
2500	138	50.7	40.9	38.2	30.2	30.4	23.9
2500	207	49.5	40.2	37.6	29.8	30.0	23.7

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115 to 138 kV Shielded Single Conductor Filled X L P E or E P R Power Cable

Direct Buried - Triplexed - Single Circuit

25°C Earth Ambient

Total Watts/ft for 65°C - Copper Conductor - Concentric Strand

		60 Rho		90 Rho		120 Rho	
		75 LF	100 LF	75 LF	100 LF	75 LF	100 LF
Condr Size	Shield Res						
750	69	29.8	25.1	23.1	19.0	18.7	15.3
750	103	29.1	24.7	22.7	18.8	18.4	15.2
750	138	28.7	24.4	22.5	18.7	18.3	15.1
750	207	28.3	24.2	22.2	18.5	18.1	15.0
1000	69	31.8	26.6	24.3	19.9	19.5	15.9
1000	103	31.0	26.0	23.9	19.7	19.2	15.8
1000	138	30.6	25.7	23.6	19.5	19.0	15.7
1000	207	30.0	25.4	23.3	19.3	18.8	15.6
1250	69	33.3	27.6	25.2	20.5	20.1	16.3
1250	103	32.5	27.1	24.7	20.3	19.8	16.2
1250	138	31.9	26.7	24.5	20.1	19.6	16.1
1250	207	31.3	26.3	24.1	19.9	19.4	16.0
1500	69	34.6	28.5	26.0	21.0	20.5	16.7
1500	103	33.7	27.9	25.5	20.8	20.2	16.6
1500	138	33.1	27.5	25.1	20.6	20.0	16.4
1500	207	32.4	27.2	24.7	20.4	19.8	16.3
1750	69	35.7	29.2	26.6	21.5	20.9	17.0
1750	103	34.7	28.7	26.1	21.2	20.6	16.9
1750	138	34.1	28.3	25.8	21.1	20.4	16.8
1750	207	33.4	27.9	25.4	20.9	20.2	16.7
2000	69	36.7	29.9	27.2	21.9	21.2	17.3
2000	103	35.6	29.3	26.6	21.6	20.9	17.1
2000	138	35.0	28.9	26.3	21.5	20.7	17.1
2000	207	34.3	28.5	25.9	21.2	20.5	16.9
2250	69	37.6	30.5	27.7	22.3	21.5	17.5
2250	103	36.5	29.9	27.1	22.0	21.2	17.4
2250	138	35.8	29.5	26.7	21.8	21.0	17.3
2250	207	35.1	29.0	26.4	21.6	20.8	17.2
2500	69	38.3	31.0	28.1	22.6	21.8	17.8
2500	103	37.3	30.4	27.5	22.3	21.5	17.6
2500	138	36.6	30.0	27.2	22.1	21.3	17.5
2500	207	35.8	29.6	26.8	21.9	21.1	17.4

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115 to 138 kV Shielded Single Conductor Filled X L P E or E P R Power Cable

Direct Buried - Triplexed - Single Circuit

25°C Earth Ambient

Total Watts/ft for 50°C - Copper Conductor - Concentric Strand

		60 Rho		90 Rho		120 Rho	
		75 LF	100 LF	75 LF	100 LF	75 LF	100 LF
Condr Size	Shield Res						
750	69	18.5	16.0	14.0	12.1	11.1	9.7
750	103	18.1	15.8	13.8	12.0	11.0	9.7
750	138	17.9	15.6	13.7	11.9	10.9	9.6
750	207	17.6	15.5	13.6	11.9	10.9	9.6
1000	69	19.6	16.8	14.6	12.6	11.4	10.1
1000	103	19.2	16.6	14.4	12.5	11.3	10.0
1000	138	18.9	16.4	14.3	12.4	11.3	10.0
1000	207	18.6	16.2	14.2	12.3	11.2	10.0
1250	69	20.5	17.5	15.1	13.0	11.7	10.3
1250	103	20.0	17.2	14.9	12.9	11.5	10.3
1250	138	19.7	17.0	14.7	12.8	11.5	10.2
1250	207	19.4	16.8	14.6	12.7	11.4	10.2
1500	69	21.1	18.0	15.4	13.3	11.8	10.5
1500	103	20.7	17.7	15.2	13.2	11.7	10.5
1500	138	20.4	17.5	15.1	13.1	11.7	10.5
1500	207	20.0	17.3	14.9	13.0	11.6	10.4
1750	69	21.7	18.5	15.7	13.6	12.0	10.7
1750	103	21.2	18.2	15.5	13.5	11.8	10.7
1750	138	20.9	18.0	15.3	13.4	11.8	10.6
1750	207	20.5	17.8	15.2	13.3	11.7	10.6
2000	69	22.3	18.9	16.0	13.8	12.1	10.9
2000	103	21.7	18.6	15.8	13.7	12.0	10.8
2000	138	21.4	18.4	15.6	13.6	11.9	10.8
2000	207	21.0	18.2	15.4	13.5	11.8	10.8
2250	69	22.7	19.2	16.2	14.0	12.1	11.0
2250	103	22.2	18.9	16.0	13.9	12.1	11.0
2250	138	21.8	18.7	15.8	13.8	12.0	11.0
2250	207	21.4	18.5	15.7	13.7	11.9	10.9
2500	69	23.1	19.5	16.4	14.2	12.2	11.2
2500	103	22.6	19.3	16.2	14.1	12.1	11.1
2500	138	22.2	19.0	16.0	14.0	12.1	11.1
2500	207	21.8	18.8	15.8	13.9	12.0	11.1

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115 to 138 kV Shielded Single Conductor Filled X L P E or E P R Power Cable

Direct Buried - Triplexed - Single Circuit

25°C Earth Ambient

Size	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	2.00	18.78	1.262	1.93	0.29	3.18	4.71
750	103	3.218	2.00	18.78	1.181	1.93	0.29	3.18	4.71
750	138	3.218	2.00	18.78	1.136	1.93	0.29	3.18	4.71
750	207	3.218	2.00	18.78	1.091	1.93	0.29	3.18	4.71
1000	69	3.407	2.18	14.57	1.338	1.76	0.27	3.10	4.63
1000	103	3.407	2.18	14.57	1.233	1.76	0.27	3.10	4.63
1000	138	3.407	2.18	14.57	1.175	1.76	0.27	3.10	4.63
1000	207	3.407	2.18	14.57	1.118	1.76	0.27	3.10	4.63
1250	69	3.540	2.34	12.15	1.403	1.64	0.26	3.04	4.57
1250	103	3.540	2.34	12.15	1.277	1.64	0.26	3.04	4.57
1250	138	3.540	2.34	12.15	1.209	1.64	0.26	3.04	4.57
1250	207	3.540	2.34	12.15	1.140	1.64	0.26	3.04	4.57
1500	69	3.660	2.48	10.59	1.460	1.54	0.25	2.99	4.53
1500	103	3.660	2.48	10.59	1.316	1.54	0.25	2.99	4.53
1500	138	3.660	2.48	10.59	1.238	1.54	0.25	2.99	4.53
1500	207	3.660	2.48	10.59	1.160	1.54	0.25	2.99	4.53
1750	69	3.770	2.61	9.52	1.509	1.46	0.24	2.95	4.48
1750	103	3.770	2.61	9.52	1.350	1.46	0.24	2.95	4.48
1750	138	3.770	2.61	9.52	1.264	1.46	0.24	2.95	4.48
1750	207	3.770	2.61	9.52	1.177	1.46	0.24	2.95	4.48
2000	69	3.873	2.73	8.71	1.554	1.39	0.24	2.91	4.45
2000	103	3.873	2.73	8.71	1.381	1.39	0.24	2.91	4.45
2000	138	3.873	2.73	8.71	1.287	1.39	0.24	2.91	4.45
2000	207	3.873	2.73	8.71	1.193	1.39	0.24	2.91	4.45
2250	69	3.968	2.84	8.16	1.589	1.34	0.23	2.88	4.41
2250	103	3.968	2.84	8.16	1.405	1.34	0.23	2.88	4.41
2250	138	3.968	2.84	8.16	1.305	1.34	0.23	2.88	4.41
2250	207	3.968	2.84	8.16	1.205	1.34	0.23	2.88	4.41
2500	69	4.059	2.95	7.68	1.624	1.29	0.22	2.85	4.38
2500	103	4.059	2.95	7.68	1.429	1.29	0.22	2.85	4.38
2500	138	4.059	2.95	7.68	1.323	1.29	0.22	2.85	4.38
2500	207	4.059	2.95	7.68	1.217	1.29	0.22	2.85	4.38

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115 to 138 kV Shielded Single Conductor Filled X L P E or E P R Power Cable

Direct Buried - Triplexed - Single Circuit

25°C Earth Ambient

Size	Res	OD	Wd	Rac	Qs	Ri	Rj	Re @ 90 Rho & loss factor 75%	Re @ 90 Rho & loss factor 100%
			80°C - Copper Conductor - Concentric Strand						
750	69	3.218	2.00	18.78	1.262	1.93	0.29	3.18	4.71
750	103	3.218	2.00	18.78	1.181	1.93	0.29	3.18	4.71
750	138	3.218	2.00	18.78	1.136	1.93	0.29	3.18	4.71
750	207	3.218	2.00	18.78	1.091	1.93	0.29	3.18	4.71
1000	69	3.407	2.18	14.57	1.338	1.76	0.27	3.10	4.63
1000	103	3.407	2.18	14.57	1.233	1.76	0.27	3.10	4.63
1000	138	3.407	2.18	14.57	1.175	1.76	0.27	3.10	4.63
1000	207	3.407	2.18	14.57	1.118	1.76	0.27	3.10	4.63
1250	69	3.540	2.34	12.15	1.403	1.64	0.26	3.04	4.57
1250	103	3.540	2.34	12.15	1.277	1.64	0.26	3.04	4.57
1250	138	3.540	2.34	12.15	1.209	1.64	0.26	3.04	4.57
1250	207	3.540	2.34	12.15	1.140	1.64	0.26	3.04	4.57
1500	69	3.660	2.48	10.59	1.460	1.54	0.25	2.99	4.53
1500	103	3.660	2.48	10.59	1.316	1.54	0.25	2.99	4.53
1500	138	3.660	2.48	10.59	1.238	1.54	0.25	2.99	4.53
1500	207	3.660	2.48	10.59	1.160	1.54	0.25	2.99	4.53
1750	69	3.770	2.61	9.52	1.509	1.46	0.24	2.95	4.48
1750	103	3.770	2.61	9.52	1.350	1.46	0.24	2.95	4.48
1750	138	3.770	2.61	9.52	1.264	1.46	0.24	2.95	4.48
1750	207	3.770	2.61	9.52	1.177	1.46	0.24	2.95	4.48
2000	69	3.873	2.73	8.71	1.554	1.39	0.24	2.91	4.45
2000	103	3.873	2.73	8.71	1.381	1.39	0.24	2.91	4.45
2000	138	3.873	2.73	8.71	1.287	1.39	0.24	2.91	4.45
2000	207	3.873	2.73	8.71	1.193	1.39	0.24	2.91	4.45
2250	69	3.968	2.84	8.16	1.589	1.34	0.23	2.88	4.41
2250	103	3.968	2.84	8.16	1.405	1.34	0.23	2.88	4.41
2250	138	3.968	2.84	8.16	1.305	1.34	0.23	2.88	4.41
2250	207	3.968	2.84	8.16	1.205	1.34	0.23	2.88	4.41
2500	69	4.059	2.95	7.68	1.624	1.29	0.22	2.85	4.38
2500	103	4.059	2.95	7.68	1.429	1.29	0.22	2.85	4.38
2500	138	4.059	2.95	7.68	1.323	1.29	0.22	2.85	4.38
2500	207	4.059	2.95	7.68	1.217	1.29	0.22	2.85	4.38

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115 to 138 kV Shielded Single Conductor Filled X L P E or E P R Power Cable

Direct Buried - Triplexed - Single Circuit

25°C Earth Ambient

Size	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	2.00	18.78	1.262	1.93	0.29	3.18	4.71
750	103	3.218	2.00	18.78	1.181	1.93	0.29	3.18	4.71
750	138	3.218	2.00	18.78	1.136	1.93	0.29	3.18	4.71
750	207	3.218	2.00	18.78	1.091	1.93	0.29	3.18	4.71
1000	69	3.407	2.18	14.57	1.338	1.76	0.27	3.10	4.63
1000	103	3.407	2.18	14.57	1.233	1.76	0.27	3.10	4.63
1000	138	3.407	2.18	14.57	1.175	1.76	0.27	3.10	4.63
1000	207	3.407	2.18	14.57	1.118	1.76	0.27	3.10	4.63
1250	69	3.540	2.34	12.15	1.403	1.64	0.26	3.04	4.57
1250	103	3.540	2.34	12.15	1.277	1.64	0.26	3.04	4.57
1250	138	3.540	2.34	12.15	1.209	1.64	0.26	3.04	4.57
1250	207	3.540	2.34	12.15	1.140	1.64	0.26	3.04	4.57
1500	69	3.660	2.48	10.59	1.460	1.54	0.25	2.99	4.53
1500	103	3.660	2.48	10.59	1.316	1.54	0.25	2.99	4.53
1500	138	3.660	2.48	10.59	1.238	1.54	0.25	2.99	4.53
1500	207	3.660	2.48	10.59	1.160	1.54	0.25	2.99	4.53
1750	69	3.770	2.61	9.52	1.509	1.46	0.24	2.95	4.48
1750	103	3.770	2.61	9.52	1.350	1.46	0.24	2.95	4.48
1750	138	3.770	2.61	9.52	1.264	1.46	0.24	2.95	4.48
1750	207	3.770	2.61	9.52	1.177	1.46	0.24	2.95	4.48
2000	69	3.873	2.73	8.71	1.554	1.39	0.24	2.91	4.45
2000	103	3.873	2.73	8.71	1.381	1.39	0.24	2.91	4.45
2000	138	3.873	2.73	8.71	1.287	1.39	0.24	2.91	4.45
2000	207	3.873	2.73	8.71	1.193	1.39	0.24	2.91	4.45
2250	69	3.968	2.84	8.16	1.589	1.34	0.23	2.88	4.41
2250	103	3.968	2.84	8.16	1.405	1.34	0.23	2.88	4.41
2250	138	3.968	2.84	8.16	1.305	1.34	0.23	2.88	4.41
2250	207	3.968	2.84	8.16	1.205	1.34	0.23	2.88	4.41
2500	69	4.059	2.95	7.68	1.624	1.29	0.22	2.85	4.38
2500	103	4.059	2.95	7.68	1.429	1.29	0.22	2.85	4.38
2500	138	4.059	2.95	7.68	1.323	1.29	0.22	2.85	4.38
2500	207	4.059	2.95	7.68	1.217	1.29	0.22	2.85	4.38

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115 to 138 kV Shielded Single Conductor Filled X L P E or E P R Power Cable

Direct Buried - Triplexed - Single Circuit

25°C Earth Ambient

Size	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	2.00	18.78	1.262	1.93	0.29	3.18	4.71
750	103	3.218	2.00	18.78	1.181	1.93	0.29	3.18	4.71
750	138	3.218	2.00	18.78	1.136	1.93	0.29	3.18	4.71
750	207	3.218	2.00	18.78	1.091	1.93	0.29	3.18	4.71
1000	69	3.407	2.18	14.57	1.338	1.76	0.27	3.10	4.63
1000	103	3.407	2.18	14.57	1.233	1.76	0.27	3.10	4.63
1000	138	3.407	2.18	14.57	1.175	1.76	0.27	3.10	4.63
1000	207	3.407	2.18	14.57	1.118	1.76	0.27	3.10	4.63
1250	69	3.540	2.34	12.15	1.403	1.64	0.26	3.04	4.57
1250	103	3.540	2.34	12.15	1.277	1.64	0.26	3.04	4.57
1250	138	3.540	2.34	12.15	1.209	1.64	0.26	3.04	4.57
1250	207	3.540	2.34	12.15	1.140	1.64	0.26	3.04	4.57
1500	69	3.660	2.48	10.59	1.460	1.54	0.25	2.99	4.53
1500	103	3.660	2.48	10.59	1.316	1.54	0.25	2.99	4.53
1500	138	3.660	2.48	10.59	1.238	1.54	0.25	2.99	4.53
1500	207	3.660	2.48	10.59	1.160	1.54	0.25	2.99	4.53
1750	69	3.770	2.61	9.52	1.509	1.46	0.24	2.95	4.48
1750	103	3.770	2.61	9.52	1.350	1.46	0.24	2.95	4.48
1750	138	3.770	2.61	9.52	1.264	1.46	0.24	2.95	4.48
1750	207	3.770	2.61	9.52	1.177	1.46	0.24	2.95	4.48
2000	69	3.873	2.73	8.71	1.554	1.39	0.24	2.91	4.45
2000	103	3.873	2.73	8.71	1.381	1.39	0.24	2.91	4.45
2000	138	3.873	2.73	8.71	1.287	1.39	0.24	2.91	4.45
2000	207	3.873	2.73	8.71	1.193	1.39	0.24	2.91	4.45
2250	69	3.968	2.84	8.16	1.589	1.34	0.23	2.88	4.41
2250	103	3.968	2.84	8.16	1.405	1.34	0.23	2.88	4.41
2250	138	3.968	2.84	8.16	1.305	1.34	0.23	2.88	4.41
2250	207	3.968	2.84	8.16	1.205	1.34	0.23	2.88	4.41
2500	69	4.059	2.95	7.68	1.624	1.29	0.22	2.85	4.38
2500	103	4.059	2.95	7.68	1.429	1.29	0.22	2.85	4.38
2500	138	4.059	2.95	7.68	1.323	1.29	0.22	2.85	4.38
2500	207	4.059	2.95	7.68	1.217	1.29	0.22	2.85	4.38

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115 to 138 kV Shielded Single Conductor Filled X L P E or E P R Power Cable

Direct Buried - Triplexed - Double Circuit

25°C Earth Ambient

90°C - Copper Conductor - Concentric Strand

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 .0150 pf & Rho 60	90	120
						75% LF							
750	69	665	71	28.0	555	77	20.9	475	80	16.5	12.1	17.0	21.8
750	103	681	70	27.5	570	76	20.6	488	80	16.3	12.1	17.0	21.8
750	138	689	70	27.2	578	76	20.5	496	80	16.2	12.1	17.0	21.8
750	207	699	70	26.9	587	76	20.3	504	79	16.2	12.1	17.0	21.8
1000	69	749	73	27.8	620	78	20.5	526	82	16.0	12.9	18.1	23.3
1000	103	772	72	27.3	640	78	20.2	544	81	15.9	12.9	18.1	23.3
1000	138	785	71	27.0	652	77	20.1	554	81	15.8	12.9	18.1	23.3
1000	207	798	71	26.6	665	77	19.9	566	80	15.7	12.9	18.1	23.3
1250	69	813	74	27.7	667	79	20.3	562	82	15.7	13.6	19.1	24.7
1250	103	842	73	27.2	693	79	19.9	584	82	15.6	13.6	19.1	24.7
1250	138	859	73	26.9	708	78	19.8	598	82	15.4	13.6	19.1	24.7
1250	207	877	72	26.4	724	78	19.6	612	81	15.4	13.6	19.1	24.7
1500	69	863	75	27.6	704	80	20.0	588	83	15.5	14.2	20.0	25.9
1500	103	898	74	27.0	734	79	19.7	614	83	15.3	14.2	20.0	25.9
1500	138	918	74	26.7	752	79	19.5	630	82	15.2	14.2	20.0	25.9
1500	207	940	73	26.3	772	79	19.3	648	82	15.1	14.2	20.0	25.9
1750	69	903	76	27.5	732	81	19.7	608	84	15.1	14.8	20.9	27.0
1750	103	943	75	26.9	766	80	19.4	637	83	15.0	14.8	20.9	27.0
1750	138	966	74	26.5	787	80	19.3	656	83	14.9	14.8	20.9	27.0
1750	207	992	74	26.1	809	79	19.0	675	82	14.8	14.8	20.9	27.0
2000	69	937	77	27.2	755	81	19.5	623	84	14.9	15.3	21.6	28.0
2000	103	981	76	26.7	793	81	19.2	656	84	14.7	15.3	21.6	28.0
2000	138	1008	75	26.3	816	80	19.0	676	83	14.7	15.3	21.6	28.0
2000	207	1037	74	25.9	842	80	18.8	698	83	14.5	15.3	21.6	28.0
2250	69	963	77	27.1	772	82	19.2	634	84	14.6	15.7	22.3	28.9
2250	103	1010	76	26.4	813	81	18.9	669	84	14.5	15.7	22.3	28.9
2250	138	1039	76	26.1	838	81	18.7	690	84	14.4	15.7	22.3	28.9
2250	207	1071	75	25.7	865	80	18.6	714	83	14.3	15.7	22.3	28.9
2500	69	986	78	26.8	787	82	19.0	643	85	14.4	16.2	23.0	29.8
2500	103	1038	77	26.3	831	82	18.7	680	84	14.3	16.2	23.0	29.8
2500	138	1069	76	25.9	858	81	18.6	703	84	14.2	16.2	23.0	29.8
2500	207	1104	75	25.5	888	81	18.3	729	84	14.1	16.2	23.0	29.8

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115 to 138 kV Shielded Single Conductor Filled X L P E or E P R Power Cable

Direct Buried - Triplexed - Double Circuit

25°C Earth Ambient

90°C - Copper Conductor - Concentric Strand

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 .0150 pf & Rho 60	90	120
						100% LF							
750	69	579	76	22.3	473	80	16.4	398	83	12.9	12.1	17.0	21.8
750	103	594	75	22.1	486	80	16.2	410	83	12.9	12.1	17.0	21.8
750	138	603	75	21.9	494	80	16.2	417	83	12.8	12.1	17.0	21.8
750	207	612	74	21.7	502	79	16.1	424	82	12.7	12.1	17.0	21.8
1000	69	648	77	22.0	524	82	16.0	438	84	12.5	12.9	18.1	23.3
1000	103	669	76	21.7	542	81	15.8	454	84	12.4	12.9	18.1	23.3
1000	138	681	76	21.5	553	81	15.8	463	84	12.4	12.9	18.1	23.3
1000	207	695	76	21.3	565	80	15.6	474	83	12.4	12.9	18.1	23.3
1250	69	699	78	21.8	561	82	15.7	466	85	12.3	13.6	19.1	24.7
1250	103	726	77	21.4	584	82	15.6	485	84	12.2	13.6	19.1	24.7
1250	138	742	77	21.3	598	82	15.5	497	84	12.2	13.6	19.1	24.7
1250	207	759	77	21.1	613	81	15.4	510	84	12.1	13.6	19.1	24.7
1500	69	739	79	21.6	589	83	15.5	486	85	12.1	14.2	20.0	25.9
1500	103	771	78	21.2	616	83	15.3	509	85	12.0	14.2	20.0	25.9
1500	138	790	78	21.0	633	82	15.3	523	85	12.0	14.2	20.0	25.9
1500	207	811	77	20.8	651	82	15.1	538	84	11.9	14.2	20.0	25.9
1750	69	770	80	21.3	611	84	15.3	500	86	11.9	14.8	20.9	27.0
1750	103	807	79	21.0	641	83	15.1	526	85	11.8	14.8	20.9	27.0
1750	138	829	79	20.8	660	83	15.0	542	85	11.7	14.8	20.9	27.0
1750	207	853	78	20.6	680	82	14.9	559	85	11.7	14.8	20.9	27.0
2000	69	797	80	21.1	628	84	15.0	512	86	11.7	15.3	21.6	28.0
2000	103	837	80	20.8	662	84	14.9	540	86	11.6	15.3	21.6	28.0
2000	138	862	79	20.6	683	83	14.8	557	85	11.6	15.3	21.6	28.0
2000	207	889	79	20.4	705	83	14.7	576	85	11.5	15.3	21.6	28.0
2250	69	816	81	20.9	640	84	14.9	519	86	11.5	15.7	22.3	28.9
2250	103	860	80	20.6	676	84	14.7	549	86	11.5	15.7	22.3	28.9
2250	138	886	80	20.4	699	84	14.6	567	86	11.4	15.7	22.3	28.9
2250	207	916	79	20.2	723	83	14.6	588	85	11.3	15.7	22.3	28.9
2500	69	834	81	20.6	651	85	14.6	525	87	11.4	16.2	23.0	29.8
2500	103	880	80	20.4	690	84	14.5	557	86	11.3	16.2	23.0	29.8
2500	138	909	80	20.2	714	84	14.5	576	86	11.3	16.2	23.0	29.8
2500	207	941	79	20.0	740	83	14.3	599	86	11.2	16.2	23.0	29.8

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115 to 138 kV Shielded Single Conductor Filled X L P E or E P R Power Cable

Direct Buried - Triplexed - Double Circuit

25°C Earth Ambient

80°C - Copper Conductor - Concentric Strand

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 .0150 pf & Rho 60	90	120
						75% LF							
750	69	605	65	23.6	499	70	17.5	421	73	13.8	12.1	17.0	21.8
750	103	620	64	23.3	513	69	17.3	433	72	13.6	12.1	17.0	21.8
750	138	628	64	23.0	520	69	17.2	440	72	13.5	12.1	17.0	21.8
750	207	637	63	22.7	528	69	17.1	447	72	13.5	12.1	17.0	21.8
1000	69	679	66	23.5	554	71	17.2	462	74	13.4	12.9	18.1	23.3
1000	103	700	65	23.0	573	70	16.9	478	73	13.2	12.9	18.1	23.3
1000	138	713	65	22.7	584	70	16.7	488	73	13.1	12.9	18.1	23.3
1000	207	726	65	22.4	596	70	16.6	499	73	13.0	12.9	18.1	23.3
1250	69	735	67	23.3	594	72	16.9	490	74	13.1	13.6	19.1	24.7
1250	103	762	67	22.9	617	71	16.7	510	74	12.9	13.6	19.1	24.7
1250	138	777	66	22.6	631	71	16.5	523	74	12.9	13.6	19.1	24.7
1250	207	795	66	22.3	647	70	16.4	536	73	12.7	13.6	19.1	24.7
1500	69	778	68	23.2	623	72	16.6	510	75	12.8	14.2	20.0	25.9
1500	103	810	67	22.8	651	72	16.4	533	75	12.6	14.2	20.0	25.9
1500	138	829	67	22.4	668	72	16.3	548	74	12.6	14.2	20.0	25.9
1500	207	850	66	22.1	686	71	16.1	564	74	12.5	14.2	20.0	25.9
1750	69	812	69	23.0	646	73	16.4	524	75	12.5	14.8	20.9	27.0
1750	103	848	68	22.5	677	72	16.2	550	75	12.4	14.8	20.9	27.0
1750	138	871	68	22.3	696	72	16.0	566	75	12.3	14.8	20.9	27.0
1750	207	895	67	22.0	717	72	15.9	584	75	12.2	14.8	20.9	27.0
2000	69	840	69	22.9	664	73	16.2	534	76	12.2	15.3	21.6	28.0
2000	103	881	69	22.4	699	73	16.0	563	75	12.1	15.3	21.6	28.0
2000	138	906	68	22.1	720	73	15.8	581	75	12.1	15.3	21.6	28.0
2000	207	933	68	21.8	743	72	15.7	601	75	12.0	15.3	21.6	28.0
2250	69	862	70	22.7	677	74	16.0	540	76	12.0	15.7	22.3	28.9
2250	103	906	69	22.2	714	73	15.7	571	76	11.9	15.7	22.3	28.9
2250	138	933	69	21.9	737	73	15.6	590	75	11.8	15.7	22.3	28.9
2250	207	962	68	21.5	762	73	15.5	611	75	11.8	15.7	22.3	28.9
2500	69	881	70	22.5	688	74	15.7	545	76	11.8	16.2	23.0	29.8
2500	103	928	70	22.0	727	74	15.5	577	76	11.7	16.2	23.0	29.8
2500	138	958	69	21.7	752	73	15.4	597	76	11.7	16.2	23.0	29.8
2500	207	990	69	21.4	779	73	15.2	620	76	11.6	16.2	23.0	29.8

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115 to 138 kV Shielded Single Conductor Filled X L P E or E P R Power Cable

Direct Buried - Triplexed - Double Circuit

25°C Earth Ambient

80°C - Copper Conductor - Concentric Strand

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 .0150 pf & Rho 60	90	120
						100% LF							
750	69	526	68	19.0	424	73	13.9	352	75	11.0	12.1	17.0	21.8
750	103	541	68	18.8	437	72	13.8	363	75	10.9	12.1	17.0	21.8
750	138	549	68	18.6	444	72	13.8	369	74	10.8	12.1	17.0	21.8
750	207	558	67	18.5	452	72	13.7	376	74	10.8	12.1	17.0	21.8
1000	69	587	70	18.7	468	73	13.6	384	76	10.7	12.9	18.1	23.3
1000	103	607	69	18.4	485	73	13.4	399	75	10.6	12.9	18.1	23.3
1000	138	619	69	18.3	496	73	13.4	408	75	10.5	12.9	18.1	23.3
1000	207	631	68	18.1	507	73	13.3	417	75	10.5	12.9	18.1	23.3
1250	69	631	71	18.5	499	74	13.3	406	76	10.5	13.6	19.1	24.7
1250	103	657	70	18.2	521	74	13.3	424	76	10.4	13.6	19.1	24.7
1250	138	672	70	18.1	533	73	13.1	435	76	10.3	13.6	19.1	24.7
1250	207	688	69	17.9	547	73	13.1	447	75	10.3	13.6	19.1	24.7
1500	69	665	71	18.3	522	75	13.2	421	77	10.3	14.2	20.0	25.9
1500	103	695	71	18.0	547	74	13.0	441	76	10.2	14.2	20.0	25.9
1500	138	713	70	17.9	562	74	13.0	454	76	10.1	14.2	20.0	25.9
1500	207	733	70	17.7	578	74	12.9	468	76	10.1	14.2	20.0	25.9
1750	69	692	72	18.1	539	75	13.0	431	77	10.1	14.8	20.9	27.0
1750	103	726	71	17.9	567	75	12.8	454	77	10.0	14.8	20.9	27.0
1750	138	746	71	17.7	584	74	12.8	468	76	10.0	14.8	20.9	27.0
1750	207	769	70	17.5	603	74	12.7	484	76	10.0	14.8	20.9	27.0
2000	69	714	72	17.9	552	75	12.7	438	77	9.9	15.3	21.6	28.0
2000	103	751	72	17.6	583	75	12.7	463	77	9.9	15.3	21.6	28.0
2000	138	774	71	17.5	602	75	12.6	478	77	9.8	15.3	21.6	28.0
2000	207	800	71	17.3	623	75	12.5	496	77	9.8	15.3	21.6	28.0
2250	69	730	73	17.7	561	76	12.6	442	77	9.8	15.7	22.3	28.9
2250	103	770	72	17.5	594	75	12.5	468	77	9.7	15.7	22.3	28.9
2250	138	795	72	17.3	614	75	12.4	484	77	9.7	15.7	22.3	28.9
2250	207	823	71	17.2	637	75	12.4	503	77	9.6	15.7	22.3	28.9
2500	69	745	73	17.6	569	76	12.5	445	78	9.6	16.2	23.0	29.8
2500	103	787	73	17.3	604	76	12.3	472	77	9.6	16.2	23.0	29.8
2500	138	814	72	17.1	625	75	12.3	490	77	9.5	16.2	23.0	29.8
2500	207	844	72	17.0	650	75	12.2	509	77	9.5	16.2	23.0	29.8

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115 to 138 kV Shielded Single Conductor Filled X L P E or E P R Power Cable

Direct Buried - Triplexed - Double Circuit

25°C Earth Ambient

65°C - Copper Conductor - Concentric Strand

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 .0150 pf & Rho 60	90	120
						75% LF							
750	69	495	55	17.0	394	59	12.4	316	61	9.6	12.1	17.0	21.8
750	103	508	55	16.8	405	59	12.3	325	61	9.5	12.1	17.0	21.8
750	138	516	55	16.5	412	58	12.2	331	61	9.4	12.1	17.0	21.8
750	207	524	54	16.4	419	58	12.1	337	61	9.4	12.1	17.0	21.8
1000	69	552	56	16.8	432	60	12.1	339	62	9.2	12.9	18.1	23.3
1000	103	570	56	16.5	448	59	11.9	352	62	9.1	12.9	18.1	23.3
1000	138	581	55	16.3	457	59	11.9	360	61	9.1	12.9	18.1	23.3
1000	207	592	55	16.1	467	59	11.8	368	61	9.0	12.9	18.1	23.3
1250	69	593	57	16.7	457	60	11.8	351	62	9.0	13.6	19.1	24.7
1250	103	616	57	16.4	476	60	11.7	367	62	8.9	13.6	19.1	24.7
1250	138	629	56	16.2	488	60	11.6	376	62	8.8	13.6	19.1	24.7
1250	207	644	56	16.0	501	60	11.6	387	62	8.8	13.6	19.1	24.7
1500	69	623	58	16.6	474	61	11.6	357	63	8.7	14.2	20.0	25.9
1500	103	650	57	16.2	497	60	11.5	375	62	8.7	14.2	20.0	25.9
1500	138	667	57	16.0	510	60	11.4	386	62	8.6	14.2	20.0	25.9
1500	207	685	56	15.8	525	60	11.3	397	62	8.5	14.2	20.0	25.9
1750	69	648	58	16.4	487	61	11.4	359	63	8.5	14.8	20.9	27.0
1750	103	678	58	16.1	512	61	11.3	378	63	8.4	14.8	20.9	27.0
1750	138	697	57	15.9	527	61	11.2	390	63	8.4	14.8	20.9	27.0
1750	207	718	57	15.6	544	60	11.1	403	62	8.4	14.8	20.9	27.0
2000	69	666	59	16.2	495	61	11.2	357	63	8.3	15.3	21.6	28.0
2000	103	700	58	15.9	522	61	11.1	378	63	8.3	15.3	21.6	28.0
2000	138	721	58	15.7	539	61	11.0	390	63	8.2	15.3	21.6	28.0
2000	207	744	57	15.5	557	61	10.9	404	63	8.1	15.3	21.6	28.0
2250	69	680	59	16.1	499	62	11.0	353	63	8.1	15.7	22.3	28.9
2250	103	716	58	15.8	528	61	10.9	374	63	8.1	15.7	22.3	28.9
2250	138	739	58	15.6	546	61	10.9	387	63	8.0	15.7	22.3	28.9
2250	207	764	58	15.3	566	61	10.7	402	63	8.0	15.7	22.3	28.9
2500	69	692	59	15.9	503	62	10.9	347	64	7.9	16.2	23.0	29.8
2500	103	731	59	15.6	533	62	10.7	369	63	7.9	16.2	23.0	29.8
2500	138	755	58	15.4	552	62	10.7	382	63	7.8	16.2	23.0	29.8
2500	207	783	58	15.2	573	61	10.6	398	63	7.8	16.2	23.0	29.8

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115 to 138 kV Shielded Single Conductor Filled X L P E or E P R Power Cable

Direct Buried - Triplexed - Double Circuit

25°C Earth Ambient

65°C - Copper Conductor - Concentric Strand

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 .0150 pf & Rho 60	90	120
						100% LF							
750	69	431	58	14.0	335	61	10.2	264	62	8.1	12.1	17.0	21.8
750	103	443	57	13.8	346	60	10.2	273	62	8.0	12.1	17.0	21.8
750	138	450	57	13.7	352	60	10.1	278	62	8.0	12.1	17.0	21.8
750	207	458	57	13.6	358	60	10.0	284	62	8.0	12.1	17.0	21.8
1000	69	476	58	13.7	365	61	10.0	282	63	7.8	12.9	18.1	23.3
1000	103	494	58	13.6	379	61	9.9	294	63	7.8	12.9	18.1	23.3
1000	138	504	58	13.4	388	61	9.8	300	62	7.8	12.9	18.1	23.3
1000	207	515	58	13.3	397	61	9.7	308	62	7.7	12.9	18.1	23.3
1250	69	509	59	13.5	384	62	9.8	291	63	7.6	13.6	19.1	24.7
1250	103	530	59	13.4	401	61	9.7	305	63	7.6	13.6	19.1	24.7
1250	138	543	58	13.3	412	61	9.7	313	63	7.6	13.6	19.1	24.7
1250	207	558	58	13.2	424	61	9.6	322	63	7.5	13.6	19.1	24.7
1500	69	533	60	13.4	397	62	9.6	295	63	7.5	14.2	20.0	25.9
1500	103	558	59	13.2	417	62	9.5	310	63	7.5	14.2	20.0	25.9
1500	138	573	59	13.2	429	62	9.5	319	63	7.4	14.2	20.0	25.9
1500	207	590	59	13.0	443	61	9.5	330	63	7.4	14.2	20.0	25.9
1750	69	551	60	13.3	406	62	9.4	295	64	7.3	14.8	20.9	27.0
1750	103	580	60	13.1	428	62	9.4	312	63	7.3	14.8	20.9	27.0
1750	138	597	59	13.0	442	62	9.4	322	63	7.3	14.8	20.9	27.0
1750	207	617	59	12.9	457	62	9.3	334	63	7.3	14.8	20.9	27.0
2000	69	565	60	13.1	411	63	9.3	293	64	7.3	15.3	21.6	28.0
2000	103	596	60	12.9	435	62	9.3	310	64	7.2	15.3	21.6	28.0
2000	138	616	60	12.9	450	62	9.3	321	64	7.2	15.3	21.6	28.0
2000	207	637	59	12.7	467	62	9.2	334	64	7.2	15.3	21.6	28.0
2250	69	575	61	13.0	414	63	9.2	288	64	7.2	15.7	22.3	28.9
2250	103	608	60	12.8	439	63	9.2	306	64	7.1	15.7	22.3	28.9
2250	138	629	60	12.7	455	62	9.1	318	64	7.1	15.7	22.3	28.9
2250	207	653	60	12.6	473	62	9.0	331	64	7.1	15.7	22.3	28.9
2500	69	584	61	12.8	416	63	9.1	283	64	7.0	16.2	23.0	29.8
2500	103	619	61	12.7	442	63	9.0	302	64	7.0	16.2	23.0	29.8
2500	138	642	60	12.6	459	63	9.0	313	64	7.0	16.2	23.0	29.8
2500	207	667	60	12.5	478	62	9.0	327	64	7.0	16.2	23.0	29.8

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115 to 138 kV Shielded Single Conductor Filled X L P E or E P R Power Cable

Direct Buried - Triplexed - Double Circuit

25°C Earth Ambient

50°C - Copper Conductor - Concentric Strand

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 .0150 pf & Rho 60	90	120
						75% LF							
750	69	342	46	10.3	236	48	7.3	134	49	5.4	12.1	17.0	21.8
750	103	351	45	10.2	243	48	7.2	139	49	5.4	12.1	17.0	21.8
750	138	357	45	10.1	248	48	7.2	141	49	5.4	12.1	17.0	21.8
750	207	363	45	10.0	252	48	7.2	144	49	5.4	12.1	17.0	21.8
1000	69	373	46	10.1	245	48	7.0	109	50	5.1	12.9	18.1	23.3
1000	103	386	46	10.0	255	48	6.9	114	50	5.1	12.9	18.1	23.3
1000	138	394	46	9.9	260	48	6.9	116	50	5.1	12.9	18.1	23.3
1000	207	403	46	9.7	267	48	6.9	119	50	5.1	12.9	18.1	23.3
1250	69	393	47	9.9	244	49	6.8	52	50	4.8	13.6	19.1	24.7
1250	103	409	46	9.8	255	49	6.7	54	50	4.8	13.6	19.1	24.7
1250	138	419	46	9.7	262	49	6.7	55	50	4.8	13.6	19.1	24.7
1250	207	430	46	9.7	269	49	6.7	57	50	4.8	13.6	19.1	24.7
1500	69	406	47	9.8	238	49	6.6	0	51	4.9	14.2	20.0	25.9
1500	103	425	47	9.7	250	49	6.5	0	51	4.9	14.2	20.0	25.9
1500	138	436	47	9.6	257	49	6.5	0	51	4.9	14.2	20.0	25.9
1500	207	449	46	9.5	265	49	6.5	0	51	4.9	14.2	20.0	25.9
1750	69	415	47	9.6	227	49	6.4	0	52	5.0	14.8	20.9	27.0
1750	103	435	47	9.5	239	49	6.4	0	52	5.0	14.8	20.9	27.0
1750	138	448	47	9.4	247	49	6.3	0	52	5.0	14.8	20.9	27.0
1750	207	463	47	9.3	256	49	6.3	0	52	5.0	14.8	20.9	27.0
2000	69	419	48	9.5	213	49	6.2	0	53	5.1	15.3	21.6	28.0
2000	103	442	47	9.4	225	49	6.2	0	53	5.1	15.3	21.6	28.0
2000	138	456	47	9.3	232	49	6.2	0	53	5.1	15.3	21.6	28.0
2000	207	472	47	9.2	241	49	6.2	0	53	5.1	15.3	21.6	28.0
2250	69	421	48	9.3	195	50	6.1	0	54	5.2	15.7	22.3	28.9
2250	103	445	48	9.2	206	50	6.1	0	54	5.2	15.7	22.3	28.9
2250	138	460	47	9.2	214	49	6.0	0	54	5.2	15.7	22.3	28.9
2250	207	477	47	9.1	222	49	6.0	0	54	5.2	15.7	22.3	28.9
2500	69	422	48	9.2	173	50	5.9	0	55	5.2	16.2	23.0	29.8
2500	103	447	48	9.1	184	50	5.9	0	55	5.2	16.2	23.0	29.8
2500	138	463	48	9.0	191	50	5.9	0	55	5.2	16.2	23.0	29.8
2500	207	480	47	9.0	199	50	5.9	0	55	5.2	16.2	23.0	29.8

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115 to 138 kV Shielded Single Conductor Filled X L P E or E P R Power Cable

Direct Buried - Triplexed - Double Circuit

25°C Earth Ambient

50°C - Copper Conductor - Concentric Strand

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 .0150 pf & Rho 60	90	120
						100% LF							
750	69	297	47	8.9	201	49	6.5	112	50	5.1	12.1	17.0	21.8
750	103	306	46	8.8	207	48	6.4	116	50	5.1	12.1	17.0	21.8
750	138	312	46	8.8	211	48	6.4	119	50	5.1	12.1	17.0	21.8
750	207	318	46	8.7	216	48	6.4	121	49	5.1	12.1	17.0	21.8
1000	69	322	47	8.7	207	49	6.3	91	50	4.9	12.9	18.1	23.3
1000	103	334	47	8.6	215	49	6.3	95	50	4.9	12.9	18.1	23.3
1000	138	342	47	8.5	221	49	6.3	97	50	4.9	12.9	18.1	23.3
1000	207	350	47	8.5	226	49	6.2	100	50	4.9	12.9	18.1	23.3
1250	69	337	48	8.6	205	49	6.2	43	50	4.8	13.6	19.1	24.7
1250	103	352	47	8.5	215	49	6.2	45	50	4.8	13.6	19.1	24.7
1250	138	362	47	8.4	221	49	6.1	46	50	4.8	13.6	19.1	24.7
1250	207	372	47	8.4	228	49	6.1	48	50	4.8	13.6	19.1	24.7
1500	69	347	48	8.5	199	49	6.1	0	51	4.9	14.2	20.0	25.9
1500	103	364	48	8.4	209	49	6.1	0	51	4.9	14.2	20.0	25.9
1500	138	375	48	8.4	216	49	6.1	0	51	4.9	14.2	20.0	25.9
1500	207	387	47	8.3	223	49	6.1	0	51	4.9	14.2	20.0	25.9
1750	69	353	48	8.4	189	49	5.9	0	52	5.0	14.8	20.9	27.0
1750	103	372	48	8.3	200	49	5.9	0	52	5.0	14.8	20.9	27.0
1750	138	384	48	8.2	207	49	5.9	0	52	5.0	14.8	20.9	27.0
1750	207	397	48	8.2	215	49	5.9	0	52	5.0	14.8	20.9	27.0
2000	69	356	48	8.3	176	50	5.8	0	53	5.1	15.3	21.6	28.0
2000	103	376	48	8.2	187	50	5.8	0	53	5.1	15.3	21.6	28.0
2000	138	389	48	8.1	194	50	5.8	0	53	5.1	15.3	21.6	28.0
2000	207	404	48	8.1	202	50	5.8	0	53	5.1	15.3	21.6	28.0
2250	69	356	48	8.2	161	50	5.8	0	54	5.2	15.7	22.3	28.9
2250	103	378	48	8.1	172	50	5.8	0	54	5.2	15.7	22.3	28.9
2250	138	392	48	8.1	178	50	5.8	0	54	5.2	15.7	22.3	28.9
2250	207	407	48	8.0	186	50	5.8	0	54	5.2	15.7	22.3	28.9
2500	69	356	49	8.1	143	50	5.7	0	55	5.2	16.2	23.0	29.8
2500	103	379	48	8.0	153	50	5.7	0	55	5.2	16.2	23.0	29.8
2500	138	393	48	7.9	159	50	5.7	0	55	5.2	16.2	23.0	29.8
2500	207	409	48	7.9	166	50	5.7	0	55	5.2	16.2	23.0	29.8

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115 to 138 kV Shielded Single Conductor Filled X L P E or E P R Power Cable

Direct Buried - Triplexed - Double Circuit

25°C Earth Ambient

Total Watts/ft for 90°C - Copper Conductor - Concentric Strand

		60 Rho		90 Rho		120 Rho	
		75 LF	100 LF	75 LF	100 LF	75 LF	100 LF
Condr Size	Shield Res						
750	69	74.9	59.7	55.8	43.8	44.1	34.5
750	103	73.7	58.9	55.2	43.4	43.7	34.4
750	138	72.8	58.5	54.7	43.2	43.5	34.2
750	207	72.1	58.0	54.3	43.0	43.2	34.1
1000	69	78.7	62.2	58.0	45.2	45.4	35.5
1000	103	77.3	61.3	57.2	44.7	45.0	35.3
1000	138	76.4	60.7	56.7	44.5	44.6	35.1
1000	207	75.3	60.3	56.3	44.3	44.4	35.0
1250	69	81.6	64.0	59.5	46.2	46.3	36.2
1250	103	80.0	63.1	58.7	45.8	45.8	35.9
1250	138	79.0	62.5	58.2	45.5	45.5	35.8
1250	207	77.9	61.9	57.6	45.2	45.1	35.6
1500	69	84.0	65.5	60.9	47.1	47.0	36.8
1500	103	82.3	64.6	59.9	46.6	46.4	36.5
1500	138	81.2	64.0	59.4	46.4	46.1	36.4
1500	207	80.0	63.4	58.8	46.1	45.8	36.2
1750	69	85.9	66.7	61.8	47.8	47.5	37.2
1750	103	84.2	65.9	60.9	47.3	46.9	37.0
1750	138	83.0	65.3	60.4	47.1	46.7	36.9
1750	207	81.8	64.6	59.6	46.7	46.3	36.7
2000	69	87.6	67.9	62.7	48.4	47.9	37.7
2000	103	85.8	66.9	61.7	48.0	47.4	37.4
2000	138	84.7	66.3	61.1	47.7	47.1	37.2
2000	207	83.4	65.6	60.6	47.4	46.7	37.1
2250	69	89.2	68.8	63.4	48.9	48.3	38.0
2250	103	87.2	67.9	62.5	48.5	47.8	37.8
2250	138	86.0	67.2	61.9	48.3	47.5	37.6
2250	207	84.7	66.5	61.2	47.9	47.1	37.4
2500	69	90.4	69.7	64.0	49.4	48.6	38.3
2500	103	88.6	68.7	63.1	49.0	48.1	38.1
2500	138	87.3	68.0	62.5	48.8	47.8	37.9
2500	207	86.0	67.3	61.9	48.4	47.5	37.8

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115 to 138 kV Shielded Single Conductor Filled X L P E or E P R Power Cable

Direct Buried - Triplexed - Double Circuit

25°C Earth Ambient

Total Watts/ft for 80°C - Copper Conductor - Concentric Strand

		60 Rho		90 Rho		120 Rho	
		75 LF	100 LF	75 LF	100 LF	75 LF	100 LF
Condr Size	Shield Res						
750	69	63.2	50.7	46.9	37.2	36.8	29.3
750	103	62.2	50.2	46.4	36.9	36.5	29.2
750	138	61.5	49.8	45.9	36.7	36.3	29.1
750	207	60.8	49.4	45.5	36.5	36.0	29.0
1000	69	66.3	52.8	48.5	38.3	37.7	30.1
1000	103	65.1	52.2	47.9	38.0	37.3	29.9
1000	138	64.4	51.7	47.5	37.9	37.1	29.9
1000	207	63.5	51.2	47.1	37.7	36.9	29.7
1250	69	68.7	54.3	49.8	39.2	38.3	30.7
1250	103	67.4	53.7	49.0	39.0	37.9	30.5
1250	138	66.4	53.2	48.6	38.7	37.8	30.4
1250	207	65.6	52.7	48.2	38.5	37.5	30.3
1500	69	70.6	55.6	50.6	40.0	38.8	31.2
1500	103	69.2	54.8	49.9	39.6	38.4	31.0
1500	138	68.3	54.4	49.5	39.4	38.2	30.9
1500	207	67.3	53.8	49.0	39.1	37.9	30.8
1750	69	72.2	56.7	51.5	40.6	39.2	31.6
1750	103	70.6	56.0	50.7	40.2	38.8	31.4
1750	138	69.8	55.4	50.2	40.0	38.5	31.3
1750	207	68.8	54.9	49.7	39.8	38.3	31.2
2000	69	73.5	57.6	52.1	41.0	39.5	31.9
2000	103	72.0	56.8	51.4	40.7	39.1	31.7
2000	138	71.1	56.3	50.9	40.5	38.9	31.6
2000	207	69.9	55.8	50.3	40.3	38.6	31.5
2250	69	74.7	58.4	52.6	41.5	39.7	32.2
2250	103	73.2	57.6	51.9	41.2	39.4	32.0
2250	138	72.2	57.1	51.5	40.9	39.1	31.9
2250	207	71.0	56.6	50.9	40.7	38.8	31.8
2500	69	75.7	59.2	53.1	41.9	39.9	32.5
2500	103	74.2	58.3	52.3	41.6	39.5	32.3
2500	138	73.3	57.8	51.9	41.3	39.3	32.2
2500	207	72.1	57.2	51.4	41.1	39.0	32.1

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115 to 138 kV Shielded Single Conductor Filled X L P E or E P R Power Cable

Direct Buried - Triplexed - Double Circuit

25°C Earth Ambient

Total Watts/ft for 65°C - Copper Conductor - Concentric Strand

		60 Rho		90 Rho		120 Rho	
		75 LF	100 LF	75 LF	100 LF	75 LF	100 LF
Condr Size	Shield Res						
750	69	45.5	37.4	33.2	27.3	25.6	21.5
750	103	44.7	36.9	32.8	27.2	25.4	21.4
750	138	44.3	36.6	32.6	27.0	25.3	21.4
750	207	43.8	36.3	32.3	26.8	25.1	21.3
1000	69	47.6	38.8	34.2	28.2	26.1	22.1
1000	103	46.8	38.4	33.9	28.0	25.9	22.0
1000	138	46.3	38.0	33.6	27.9	25.8	21.9
1000	207	45.6	37.7	33.3	27.7	25.6	21.9
1250	69	49.2	39.9	34.9	28.8	26.3	22.5
1250	103	48.3	39.4	34.5	28.5	26.2	22.4
1250	138	47.6	39.0	34.2	28.4	26.0	22.3
1250	207	47.0	38.7	34.0	28.3	25.9	22.3
1500	69	50.3	40.8	35.4	29.3	26.5	22.8
1500	103	49.3	40.3	35.0	29.1	26.3	22.7
1500	138	48.8	39.9	34.7	28.9	26.2	22.6
1500	207	48.1	39.5	34.4	28.8	26.0	22.6
1750	69	51.4	41.5	35.9	29.7	26.6	23.1
1750	103	50.4	41.1	35.5	29.5	26.4	23.0
1750	138	49.8	40.7	35.2	29.4	26.3	22.9
1750	207	49.1	40.3	34.9	29.2	26.2	22.9
2000	69	52.2	42.1	36.2	30.0	26.7	23.3
2000	103	51.2	41.6	35.7	29.8	26.5	23.2
2000	138	50.6	41.3	35.5	29.7	26.4	23.2
2000	207	49.8	40.9	35.1	29.6	26.2	23.1
2250	69	52.9	42.7	36.4	30.4	26.7	23.5
2250	103	51.9	42.2	36.0	30.2	26.6	23.4
2250	138	51.3	41.9	35.8	30.0	26.5	23.4
2250	207	50.6	41.6	35.5	29.9	26.3	23.3
2500	69	53.5	43.2	36.6	30.6	26.7	23.7
2500	103	52.6	42.7	36.2	30.4	26.6	23.6
2500	138	51.9	42.4	36.0	30.3	26.5	23.6
2500	207	51.3	42.0	35.7	30.2	26.4	23.5

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115 to 138 kV Shielded Single Conductor Filled X L P E or E P R Power Cable

Direct Buried - Triplexed - Double Circuit

25°C Earth Ambient

Total Watts/ft for 50°C - Copper Conductor - Concentric Strand

		60 Rho		90 Rho		120 Rho	
		75 LF	100 LF	75 LF	100 LF	75 LF	100 LF
Condr Size	Shield Res						
750	69	27.6	23.8	19.4	17.4	14.4	13.7
750	103	27.2	23.5	19.3	17.3	14.4	13.6
750	138	27.0	23.4	19.2	17.2	14.3	13.6
750	207	26.7	23.3	19.1	17.2	14.3	13.6
1000	69	28.6	24.6	19.8	17.8	14.4	14.0
1000	103	28.2	24.4	19.6	17.7	14.4	14.0
1000	138	27.9	24.3	19.5	17.7	14.3	14.0
1000	207	27.7	24.1	19.5	17.7	14.3	14.0
1250	69	29.3	25.2	19.9	18.2	14.3	14.2
1250	103	28.8	25.0	19.8	18.1	14.3	14.2
1250	138	28.6	24.9	19.7	18.1	14.3	14.2
1250	207	28.3	24.7	19.6	18.0	14.3	14.2
1500	69	29.8	25.8	20.0	18.5	14.9	14.9
1500	103	29.4	25.5	19.9	18.4	14.9	14.9
1500	138	29.1	25.4	19.8	18.4	14.9	14.9
1500	207	28.8	25.3	19.7	18.3	14.9	14.9
1750	69	30.3	26.2	20.0	18.7	15.7	15.7
1750	103	29.8	26.0	19.9	18.6	15.7	15.7
1750	138	29.6	25.9	19.9	18.6	15.7	15.7
1750	207	29.3	25.7	19.8	18.6	15.7	15.7
2000	69	30.5	26.6	20.0	18.9	16.4	16.4
2000	103	30.2	26.4	20.0	18.8	16.4	16.4
2000	138	29.9	26.2	19.9	18.8	16.4	16.4
2000	207	29.6	26.1	19.8	18.8	16.4	16.4
2250	69	30.8	26.9	20.0	19.1	17.1	17.1
2250	103	30.4	26.7	19.9	19.1	17.1	17.1
2250	138	30.2	26.6	19.9	19.0	17.1	17.1
2250	207	29.9	26.4	19.8	19.0	17.1	17.1
2500	69	31.1	27.2	19.9	19.2	17.7	17.7
2500	103	30.7	27.0	19.9	19.2	17.7	17.7
2500	138	30.5	26.9	19.9	19.2	17.7	17.7
2500	207	30.1	26.7	19.8	19.2	17.7	17.7

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115 to 138 kV Shielded Single Conductor Filled X L P E or E P R Power Cable

Direct Buried - Triplexed - Double Circuit

25°C Earth Ambient

Size	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	2.00	18.78	1.262	1.93	0.29	3.70	5.55
750	103	3.218	2.00	18.78	1.181	1.93	0.29	3.70	5.55
750	138	3.218	2.00	18.78	1.136	1.93	0.29	3.70	5.55
750	207	3.218	2.00	18.78	1.091	1.93	0.29	3.70	5.55
1000	69	3.407	2.18	14.57	1.338	1.76	0.27	3.62	5.47
1000	103	3.407	2.18	14.57	1.233	1.76	0.27	3.62	5.47
1000	138	3.407	2.18	14.57	1.175	1.76	0.27	3.62	5.47
1000	207	3.407	2.18	14.57	1.118	1.76	0.27	3.62	5.47
1250	69	3.540	2.34	12.15	1.403	1.64	0.26	3.57	5.42
1250	103	3.540	2.34	12.15	1.277	1.64	0.26	3.57	5.42
1250	138	3.540	2.34	12.15	1.209	1.64	0.26	3.57	5.42
1250	207	3.540	2.34	12.15	1.140	1.64	0.26	3.57	5.42
1500	69	3.660	2.48	10.59	1.460	1.54	0.25	3.52	5.37
1500	103	3.660	2.48	10.59	1.316	1.54	0.25	3.52	5.37
1500	138	3.660	2.48	10.59	1.238	1.54	0.25	3.52	5.37
1500	207	3.660	2.48	10.59	1.160	1.54	0.25	3.52	5.37
1750	69	3.770	2.61	9.52	1.509	1.46	0.24	3.48	5.33
1750	103	3.770	2.61	9.52	1.350	1.46	0.24	3.48	5.33
1750	138	3.770	2.61	9.52	1.264	1.46	0.24	3.48	5.33
1750	207	3.770	2.61	9.52	1.177	1.46	0.24	3.48	5.33
2000	69	3.873	2.73	8.71	1.554	1.39	0.24	3.44	5.29
2000	103	3.873	2.73	8.71	1.381	1.39	0.24	3.44	5.29
2000	138	3.873	2.73	8.71	1.287	1.39	0.24	3.44	5.29
2000	207	3.873	2.73	8.71	1.193	1.39	0.24	3.44	5.29
2250	69	3.968	2.84	8.16	1.589	1.34	0.23	3.41	5.26
2250	103	3.968	2.84	8.16	1.405	1.34	0.23	3.41	5.26
2250	138	3.968	2.84	8.16	1.305	1.34	0.23	3.41	5.26
2250	207	3.968	2.84	8.16	1.205	1.34	0.23	3.41	5.26
2500	69	4.059	2.95	7.68	1.624	1.29	0.22	3.37	5.23
2500	103	4.059	2.95	7.68	1.429	1.29	0.22	3.37	5.23
2500	138	4.059	2.95	7.68	1.323	1.29	0.22	3.37	5.23
2500	207	4.059	2.95	7.68	1.217	1.29	0.22	3.37	5.23

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115 to 138 kV Shielded Single Conductor Filled X L P E or E P R Power Cable

Direct Buried - Triplexed - Double Circuit

25°C Earth Ambient

Size	Res	OD	Wd	Rac	Qs	Ri	Rj	Re @ 90 Rho & loss factor 75%	100%
				80°C - Copper Conductor - Concentric Strand					
750	69	3.218	2.00	18.78	1.262	1.93	0.29	3.70	5.55
750	103	3.218	2.00	18.78	1.181	1.93	0.29	3.70	5.55
750	138	3.218	2.00	18.78	1.136	1.93	0.29	3.70	5.55
750	207	3.218	2.00	18.78	1.091	1.93	0.29	3.70	5.55
1000	69	3.407	2.18	14.57	1.338	1.76	0.27	3.62	5.47
1000	103	3.407	2.18	14.57	1.233	1.76	0.27	3.62	5.47
1000	138	3.407	2.18	14.57	1.175	1.76	0.27	3.62	5.47
1000	207	3.407	2.18	14.57	1.118	1.76	0.27	3.62	5.47
1250	69	3.540	2.34	12.15	1.403	1.64	0.26	3.57	5.42
1250	103	3.540	2.34	12.15	1.277	1.64	0.26	3.57	5.42
1250	138	3.540	2.34	12.15	1.209	1.64	0.26	3.57	5.42
1250	207	3.540	2.34	12.15	1.140	1.64	0.26	3.57	5.42
1500	69	3.660	2.48	10.59	1.460	1.54	0.25	3.52	5.37
1500	103	3.660	2.48	10.59	1.316	1.54	0.25	3.52	5.37
1500	138	3.660	2.48	10.59	1.238	1.54	0.25	3.52	5.37
1500	207	3.660	2.48	10.59	1.160	1.54	0.25	3.52	5.37
1750	69	3.770	2.61	9.52	1.509	1.46	0.24	3.48	5.33
1750	103	3.770	2.61	9.52	1.350	1.46	0.24	3.48	5.33
1750	138	3.770	2.61	9.52	1.264	1.46	0.24	3.48	5.33
1750	207	3.770	2.61	9.52	1.177	1.46	0.24	3.48	5.33
2000	69	3.873	2.73	8.71	1.554	1.39	0.24	3.44	5.29
2000	103	3.873	2.73	8.71	1.381	1.39	0.24	3.44	5.29
2000	138	3.873	2.73	8.71	1.287	1.39	0.24	3.44	5.29
2000	207	3.873	2.73	8.71	1.193	1.39	0.24	3.44	5.29
2250	69	3.968	2.84	8.16	1.589	1.34	0.23	3.41	5.26
2250	103	3.968	2.84	8.16	1.405	1.34	0.23	3.41	5.26
2250	138	3.968	2.84	8.16	1.305	1.34	0.23	3.41	5.26
2250	207	3.968	2.84	8.16	1.205	1.34	0.23	3.41	5.26
2500	69	4.059	2.95	7.68	1.624	1.29	0.22	3.37	5.23
2500	103	4.059	2.95	7.68	1.429	1.29	0.22	3.37	5.23
2500	138	4.059	2.95	7.68	1.323	1.29	0.22	3.37	5.23
2500	207	4.059	2.95	7.68	1.217	1.29	0.22	3.37	5.23

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115 to 138 kV Shielded Single Conductor Filled X L P E or E P R Power Cable

Direct Buried - Triplexed - Double Circuit

25°C Earth Ambient

Size	Res	OD	Wd	Rac	Qs	Ri	Rj	Re @ 90 Rho & loss factor 75%	100%
				65°C - Copper Conductor - Concentric Strand					
750	69	3.218	2.00	18.78	1.262	1.93	0.29	3.70	5.55
750	103	3.218	2.00	18.78	1.181	1.93	0.29	3.70	5.55
750	138	3.218	2.00	18.78	1.136	1.93	0.29	3.70	5.55
750	207	3.218	2.00	18.78	1.091	1.93	0.29	3.70	5.55
1000	69	3.407	2.18	14.57	1.338	1.76	0.27	3.62	5.47
1000	103	3.407	2.18	14.57	1.233	1.76	0.27	3.62	5.47
1000	138	3.407	2.18	14.57	1.175	1.76	0.27	3.62	5.47
1000	207	3.407	2.18	14.57	1.118	1.76	0.27	3.62	5.47
1250	69	3.540	2.34	12.15	1.403	1.64	0.26	3.57	5.42
1250	103	3.540	2.34	12.15	1.277	1.64	0.26	3.57	5.42
1250	138	3.540	2.34	12.15	1.209	1.64	0.26	3.57	5.42
1250	207	3.540	2.34	12.15	1.140	1.64	0.26	3.57	5.42
1500	69	3.660	2.48	10.59	1.460	1.54	0.25	3.52	5.37
1500	103	3.660	2.48	10.59	1.316	1.54	0.25	3.52	5.37
1500	138	3.660	2.48	10.59	1.238	1.54	0.25	3.52	5.37
1500	207	3.660	2.48	10.59	1.160	1.54	0.25	3.52	5.37
1750	69	3.770	2.61	9.52	1.509	1.46	0.24	3.48	5.33
1750	103	3.770	2.61	9.52	1.350	1.46	0.24	3.48	5.33
1750	138	3.770	2.61	9.52	1.264	1.46	0.24	3.48	5.33
1750	207	3.770	2.61	9.52	1.177	1.46	0.24	3.48	5.33
2000	69	3.873	2.73	8.71	1.554	1.39	0.24	3.44	5.29
2000	103	3.873	2.73	8.71	1.381	1.39	0.24	3.44	5.29
2000	138	3.873	2.73	8.71	1.287	1.39	0.24	3.44	5.29
2000	207	3.873	2.73	8.71	1.193	1.39	0.24	3.44	5.29
2250	69	3.968	2.84	8.16	1.589	1.34	0.23	3.41	5.26
2250	103	3.968	2.84	8.16	1.405	1.34	0.23	3.41	5.26
2250	138	3.968	2.84	8.16	1.305	1.34	0.23	3.41	5.26
2250	207	3.968	2.84	8.16	1.205	1.34	0.23	3.41	5.26
2500	69	4.059	2.95	7.68	1.624	1.29	0.22	3.37	5.23
2500	103	4.059	2.95	7.68	1.429	1.29	0.22	3.37	5.23
2500	138	4.059	2.95	7.68	1.323	1.29	0.22	3.37	5.23
2500	207	4.059	2.95	7.68	1.217	1.29	0.22	3.37	5.23

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115 to 138 kV Shielded Single Conductor Filled X L P E or E P R Power Cable

Direct Buried - Triplexed - Double Circuit

25°C Earth Ambient

Size	Res	OD	Wd	Rac	Qs	Ri	Rj	Re @ 90 Rho & loss factor 75%	100%
			50°C - Copper Conductor - Concentric Strand						
750	69	3.218	2.00	18.78	1.262	1.93	0.29	3.70	5.55
750	103	3.218	2.00	18.78	1.181	1.93	0.29	3.70	5.55
750	138	3.218	2.00	18.78	1.136	1.93	0.29	3.70	5.55
750	207	3.218	2.00	18.78	1.091	1.93	0.29	3.70	5.55
1000	69	3.407	2.18	14.57	1.338	1.76	0.27	3.62	5.47
1000	103	3.407	2.18	14.57	1.233	1.76	0.27	3.62	5.47
1000	138	3.407	2.18	14.57	1.175	1.76	0.27	3.62	5.47
1000	207	3.407	2.18	14.57	1.118	1.76	0.27	3.62	5.47
1250	69	3.540	2.34	12.15	1.403	1.64	0.26	3.57	5.42
1250	103	3.540	2.34	12.15	1.277	1.64	0.26	3.57	5.42
1250	138	3.540	2.34	12.15	1.209	1.64	0.26	3.57	5.42
1250	207	3.540	2.34	12.15	1.140	1.64	0.26	3.57	5.42
1500	69	3.660	2.48	10.59	1.460	1.54	0.25	3.52	5.37
1500	103	3.660	2.48	10.59	1.316	1.54	0.25	3.52	5.37
1500	138	3.660	2.48	10.59	1.238	1.54	0.25	3.52	5.37
1500	207	3.660	2.48	10.59	1.160	1.54	0.25	3.52	5.37
1750	69	3.770	2.61	9.52	1.509	1.46	0.24	3.48	5.33
1750	103	3.770	2.61	9.52	1.350	1.46	0.24	3.48	5.33
1750	138	3.770	2.61	9.52	1.264	1.46	0.24	3.48	5.33
1750	207	3.770	2.61	9.52	1.177	1.46	0.24	3.48	5.33
2000	69	3.873	2.73	8.71	1.554	1.39	0.24	3.44	5.29
2000	103	3.873	2.73	8.71	1.381	1.39	0.24	3.44	5.29
2000	138	3.873	2.73	8.71	1.287	1.39	0.24	3.44	5.29
2000	207	3.873	2.73	8.71	1.193	1.39	0.24	3.44	5.29
2250	69	3.968	2.84	8.16	1.589	1.34	0.23	3.41	5.26
2250	103	3.968	2.84	8.16	1.405	1.34	0.23	3.41	5.26
2250	138	3.968	2.84	8.16	1.305	1.34	0.23	3.41	5.26
2250	207	3.968	2.84	8.16	1.205	1.34	0.23	3.41	5.26
2500	69	4.059	2.95	7.68	1.624	1.29	0.22	3.37	5.23
2500	103	4.059	2.95	7.68	1.429	1.29	0.22	3.37	5.23
2500	138	4.059	2.95	7.68	1.323	1.29	0.22	3.37	5.23
2500	207	4.059	2.95	7.68	1.217	1.29	0.22	3.37	5.23

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115 to 138 kV Shielded Single Conductor Filled X L P E or E P R Power Cable

Direct Buried - 1 Circuit - Three Cables - Spaced

25°C Earth Ambient

90°C - Copper Conductor - Concentric Strand

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 .0150 pf & Rho 60	90	120
						75% LF							
750	69	726	64	31.5	633	70	24.6	566	75	20.1	6.7	8.8	10.9
750	103	758	63	30.0	664	69	23.6	594	74	19.3	6.7	8.8	10.9
750	138	785	62	28.7	690	69	22.8	619	73	18.8	6.7	8.8	11.8
750	207	821	61	26.8	723	68	21.4	648	72	17.7	6.7	9.4	11.8
750	Open	906	56	20.7	810	63	17.0	734	68	14.4	7.1	9.4	11.8
1000	69	803	67	32.4	695	73	24.9	616	76	20.1	7.1	9.4	11.6
1000	103	845	65	30.9	734	71	23.9	653	76	19.4	7.1	9.4	11.6
1000	138	882	64	29.6	769	71	23.1	686	75	18.8	7.1	9.4	11.6
1000	207	931	63	27.6	816	70	21.8	727	74	17.8	7.1	10.0	12.5
1000	Open	1057	58	20.5	940	64	16.8	849	69	14.1	7.5	10.0	12.5
1250	69	861	68	33.1	739	74	25.1	653	78	20.1	7.4	9.8	12.3
1250	103	912	67	31.6	787	73	24.2	697	77	19.5	7.4	9.8	12.3
1250	138	957	66	30.2	829	72	23.3	736	76	18.9	7.4	9.8	12.3
1250	207	1018	64	28.3	887	71	22.1	788	75	17.9	7.4	9.8	13.2
1250	Open	1185	59	20.6	1049	65	16.7	943	70	14.0	7.9	10.5	13.2
1500	Open	1294	60	20.7	1141	66	16.6	1022	71	13.9	8.2	11.0	13.8
1750	Open	1388	60	20.7	1219	67	16.5	1089	72	13.7	8.5	11.4	14.4
2000	Open	1472	61	20.6	1289	68	16.5	1148	72	13.6	8.7	11.8	14.9
2250	Open	1540	62	20.6	1344	68	16.4	1195	73	13.5	9.0	12.2	15.4
2500	Open	1605	62	20.5	1397	69	16.3	1239	73	13.4	9.2	12.5	15.8

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1502

115 to 138 kV Shielded Single Conductor Filled X L P E or E P R Power Cable

Direct Buried - 1 Circuit - Three Cables - Spaced

25°C Earth Ambient

90°C - Copper Conductor - Concentric Strand

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 .0150 pf & Rho 60	90	120
						100% LF							
750	69	649	70	25.6	554	76	19.3	486	79	15.4	6.7	8.8	10.9
750	103	680	69	24.6	582	75	18.6	511	78	15.0	6.7	8.8	10.9
750	138	706	68	23.6	604	74	17.9	531	78	14.5	6.7	8.8	11.8
750	207	737	67	22.1	634	73	17.0	559	77	13.8	6.7	9.4	11.8
750	Open	827	62	17.6	723	69	14.0	645	73	11.6	7.1	9.4	11.8
1000	69	712	72	26.0	603	77	19.3	527	81	15.4	7.1	9.4	11.6
1000	103	752	71	25.0	639	77	18.7	559	80	14.9	7.1	9.4	11.6
1000	138	788	70	24.1	670	76	18.1	586	79	14.4	7.1	9.4	11.6
1000	207	832	69	22.5	709	75	17.0	622	78	13.7	7.1	10.0	12.5
1000	Open	961	63	17.4	835	70	13.8	742	74	11.3	7.5	10.0	12.5
1250	69	759	73	26.3	638	79	19.3	555	82	15.2	7.4	9.8	12.3
1250	103	807	72	25.4	681	78	18.8	594	81	14.9	7.4	9.8	12.3
1250	138	850	72	24.4	720	77	18.2	626	80	14.4	7.4	9.8	12.3
1250	207	907	70	23.0	768	76	17.2	670	79	13.7	7.4	9.8	13.2
1250	Open	1073	64	17.4	928	71	13.6	821	75	11.2	7.9	10.5	13.2
1500	Open	1168	65	17.3	1006	72	13.5	887	76	11.1	8.2	11.0	13.8
1750	Open	1250	66	17.2	1072	72	13.4	942	76	10.9	8.5	11.4	14.4
2000	Open	1322	67	17.2	1131	73	13.3	991	77	10.8	8.7	11.8	14.9
2250	Open	1380	67	17.0	1177	73	13.2	1029	77	10.7	9.0	12.2	15.4
2500	Open	1435	68	17.0	1220	74	13.1	1064	78	10.6	9.2	12.5	15.8

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115 to 138 kV Shielded Single Conductor Filled X L P E or E P R Power Cable

Direct Buried - 1 Circuit - Three Cables - Spaced

25°C Earth Ambient

80°C - Copper Conductor - Concentric Strand

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 .0150 pf & Rho 60	90	120
						75% LF							
750	69	659	59	26.9	572	64	20.9	508	68	17.0	6.7	8.8	10.9
750	103	687	58	25.8	599	64	20.2	533	67	16.5	6.7	8.8	10.9
750	138	713	57	24.7	623	63	19.5	556	67	16.0	6.7	8.8	10.9
750	207	748	56	23.1	656	62	18.4	584	66	15.1	6.7	9.4	11.8
750	Open	836	52	17.4	744	58	14.4	672	62	12.1	7.1	9.4	11.8
1000	69	726	61	27.7	624	66	21.1	550	69	16.9	7.1	9.4	11.6
1000	103	763	60	26.6	659	65	20.4	583	69	16.5	7.1	9.4	11.6
1000	138	797	59	25.4	691	65	19.7	612	68	16.0	7.1	9.4	11.6
1000	207	845	58	23.8	736	64	18.6	652	67	15.1	7.1	9.4	12.5
1000	Open	974	53	17.4	862	59	14.1	774	63	11.9	7.5	10.0	12.5
1250	69	775	63	28.3	662	67	21.3	581	70	16.9	7.4	9.8	12.3
1250	103	821	62	27.1	703	66	20.6	619	70	16.5	7.4	9.8	12.3
1250	138	862	60	26.0	742	66	19.9	654	69	16.1	7.4	9.8	12.3
1250	207	920	59	24.3	797	65	18.9	703	69	15.2	7.4	9.8	13.2
1250	Open	1090	54	17.5	960	60	14.1	858	64	11.8	7.9	10.5	13.2
1500	Open	1189	55	17.5	1042	61	14.0	928	65	11.7	8.2	11.0	13.8
1750	Open	1274	56	17.5	1112	61	14.0	987	65	11.6	8.5	11.4	14.4
2000	Open	1350	56	17.5	1174	62	13.9	1038	66	11.4	8.7	11.8	14.9
2250	Open	1410	57	17.4	1223	63	13.8	1078	66	11.4	9.0	12.2	15.4
2500	Open	1469	57	17.4	1270	63	13.7	1116	67	11.2	9.2	12.5	15.8

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1504

115 to 138 kV Shielded Single Conductor Filled X L P E or E P R Power Cable

Direct Buried - 1 Circuit - Three Cables - Spaced

25°C Earth Ambient

80°C - Copper Conductor - Concentric Strand

Condr Size	Shield Res	60 Rho Interface Amps	60 Rho Interface Temp °C	60 Rho Interface Flux w/ft²	90 Rho Interface Amps	90 Rho Interface Temp °C	90 Rho Interface Flux w/ft²	120 Rho Interface Amps	120 Rho Interface Temp °C	120 Rho Interface Flux w/ft²	delta Td for .0150 pf & Rho 60	90	120
						100% LF							
750	69	588	64	22.0	499	69	16.5	435	72	13.1	6.7	8.8	10.9
750	103	615	63	21.1	524	68	16.0	457	71	12.7	6.7	8.8	10.9
750	138	640	62	20.4	545	67	15.4	477	70	12.3	6.7	8.8	10.9
750	207	671	61	19.1	574	66	14.6	503	69	11.8	6.7	9.4	11.8
750	Open	763	57	15.0	664	62	11.9	590	66	9.9	7.1	9.4	11.8
1000	69	642	66	22.2	541	70	16.5	470	73	13.0	7.1	9.4	11.6
1000	103	678	65	21.4	573	69	16.0	498	72	12.7	7.1	9.4	11.6
1000	138	711	64	20.7	601	69	15.5	522	72	12.3	7.1	9.4	11.6
1000	207	755	63	19.5	639	68	14.7	557	71	11.8	7.1	9.4	12.5
1000	Open	886	58	14.8	766	63	11.7	677	67	9.6	7.5	10.0	12.5
1250	69	682	67	22.4	570	71	16.4	493	74	12.9	7.4	9.8	12.3
1250	103	725	66	21.7	608	70	16.0	527	73	12.6	7.4	9.8	12.3
1250	138	764	65	20.9	643	70	15.5	556	73	12.3	7.4	9.8	12.3
1250	207	820	64	19.7	689	69	14.8	598	72	11.7	7.4	9.8	13.2
1250	Open	987	59	14.8	849	64	11.5	747	68	9.5	7.9	10.5	13.2
1500	Open	1073	60	14.7	919	65	11.5	805	69	9.4	8.2	11.0	13.8
1750	Open	1147	60	14.7	978	66	11.3	854	69	9.3	8.5	11.4	14.4
2000	Open	1212	61	14.6	1030	66	11.2	896	70	9.2	8.7	11.8	14.9
2250	Open	1264	61	14.5	1070	67	11.2	929	70	9.1	9.0	12.2	15.4
2500	Open	1313	62	14.5	1109	67	11.1	959	70	9.0	9.2	12.5	15.8

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115 to 138 kV Shielded Single Conductor Filled X L P E or E P R Power Cable

Direct Buried - 1 Circuit - Three Cables - Spaced

25°C Earth Ambient

65°C - Copper Conductor - Concentric Strand

		60 Rho			90 Rho			120 Rho			delta Td for .0150 pf & Rho		
		Amps	Interface Temp °C	Flux w/ft²	Amps	Interface Temp °C	Flux w/ft²	Amps	Interface Temp °C	Flux w/ft²	60	90	120
Condr Size	Shield Res												
						75% LF							
750	69	544	51	19.8	466	55	15.1	408	58	12.2	6.7	8.8	10.9
750	103	566	50	19.1	487	54	14.7	427	57	11.9	6.7	8.8	10.9
750	138	588	50	18.4	507	54	14.2	446	57	11.6	6.7	8.8	11.8
750	207	620	49	17.2	537	53	13.5	471	56	10.9	6.7	9.4	11.8
750	Open	708	46	12.7	623	50	10.4	555	53	8.8	7.1	9.4	11.8
1000	69	595	52	20.2	505	56	15.2	439	59	12.1	7.1	9.4	11.6
1000	103	624	52	19.6	531	56	14.8	462	58	11.9	7.1	9.4	11.6
1000	138	653	51	18.8	557	55	14.4	487	58	11.5	7.1	9.4	11.6
1000	207	695	50	17.6	597	55	13.7	520	57	11.0	7.1	9.4	12.5
1000	Open	823	47	12.7	719	51	10.3	636	54	8.5	7.5	10.0	12.5
1250	69	632	54	20.6	532	57	15.3	459	59	12.1	7.4	9.8	12.3
1250	103	667	53	19.9	563	56	14.9	487	59	11.8	7.4	9.8	12.3
1250	138	701	52	19.2	594	56	14.5	515	59	11.5	7.4	9.8	12.3
1250	207	753	51	18.0	642	55	13.8	556	58	11.0	7.4	9.8	13.2
1250	Open	918	47	12.7	797	52	10.3	701	55	8.4	7.9	10.5	13.2
1500	Open	999	48	12.7	862	52	10.1	754	55	8.3	8.2	11.0	13.8
1750	Open	1068	49	12.7	917	53	10.0	798	56	8.3	8.5	11.4	14.4
2000	Open	1128	49	12.7	964	53	10.0	835	56	8.2	8.7	11.8	14.9
2250	Open	1176	49	12.6	1001	54	9.9	863	57	8.1	9.0	12.2	15.4
2500	Open	1222	50	12.6	1036	54	9.9	890	57	8.0	9.2	12.5	15.8

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115 to 138 kV Shielded Single Conductor Filled X L P E or E P R Power Cable

Direct Buried - 1 Circuit - Three Cables - Spaced

25°C Earth Ambient

65°C - Copper Conductor - Concentric Strand

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 .0150 pf & Rho 60	90	120
						100% LF							
750	69	485	54	16.1	406	58	12.1	349	60	9.5	6.7	8.8	10.9
750	103	506	54	15.7	425	57	11.8	365	59	9.4	6.7	8.8	10.9
750	138	527	53	15.2	443	57	11.4	381	59	9.1	6.7	8.8	11.8
750	207	556	53	14.4	468	56	10.8	405	58	8.7	6.7	9.4	11.8
750	Open	647	49	11.0	556	53	8.8	487	56	7.2	7.1	9.4	11.8
1000	69	526	56	16.4	436	59	12.0	372	61	9.4	7.1	9.4	11.6
1000	103	553	55	15.9	460	58	11.8	393	60	9.3	7.1	9.4	11.6
1000	138	580	55	15.4	484	58	11.4	414	60	9.0	7.1	9.4	11.6
1000	207	621	54	14.6	517	57	10.9	444	59	8.6	7.1	9.4	12.5
1000	Open	748	50	10.9	639	54	8.6	556	57	7.1	7.5	10.0	12.5
1250	69	555	56	16.4	457	59	12.0	388	61	9.3	7.4	9.8	12.3
1250	103	587	56	16.0	485	59	11.8	413	61	9.2	7.4	9.8	12.3
1250	138	620	55	15.5	514	59	11.4	436	61	9.0	7.4	9.8	12.3
1250	207	669	55	14.8	554	58	10.9	471	60	8.6	7.4	9.8	13.2
1250	Open	832	51	10.9	705	55	8.5	610	57	7.0	7.9	10.5	13.2
1500	Open	901	51	10.9	760	55	8.5	654	58	6.9	8.2	11.0	13.8
1750	Open	962	52	10.8	807	56	8.4	691	58	6.9	8.5	11.4	14.4
2000	Open	1013	52	10.8	846	56	8.3	720	58	6.8	8.7	11.8	14.9
2250	Open	1054	52	10.7	876	56	8.3	743	59	6.7	9.0	12.2	15.4
2500	Open	1093	53	10.6	905	57	8.2	765	59	6.6	9.2	12.5	15.8

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115 to 138 kV Shielded Single Conductor Filled X L P E or E P R Power Cable

Direct Buried - 1 Circuit - Three Cables - Spaced

25°C Earth Ambient

50°C - Copper Conductor - Concentric Strand

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 .0150 pf & Rho 60	90	120
						75% LF							
750	69	401	43	12.2	333	45	9.1	279	47	7.1	6.7	8.8	11.8
750	103	415	42	11.9	346	45	9.0	290	47	7.0	6.7	8.8	11.8
750	138	432	42	11.5	361	45	8.8	302	46	6.9	6.7	8.8	11.8
750	207	457	42	10.9	382	44	8.3	321	46	6.5	6.7	9.4	11.8
750	Open	535	40	8.1	455	42	6.4	389	45	5.3	7.1	9.4	11.8
1000	69	435	43	12.3	356	46	9.1	294	47	7.0	7.1	9.4	12.5
1000	103	453	43	12.1	372	46	9.0	308	47	7.0	7.1	9.4	12.5
1000	138	474	43	11.7	391	45	8.7	323	47	6.7	7.1	9.4	12.5
1000	207	507	42	11.1	419	45	8.3	346	47	6.5	7.1	10.0	12.5
1000	Open	618	40	8.0	520	43	6.4	438	45	5.3	7.5	10.0	12.5
1250	69	458	44	12.5	371	46	9.1	302	48	6.9	7.4	9.8	13.2
1250	103	480	44	12.2	390	46	9.0	319	48	6.8	7.4	9.8	13.2
1250	138	505	43	11.9	411	46	8.7	336	47	6.7	7.4	9.8	13.2
1250	207	544	43	11.2	445	46	8.3	363	47	6.4	7.4	10.5	13.2
1250	Open	685	41	8.0	570	44	6.3	474	46	5.2	7.9	10.5	13.2
1500	Open	740	41	7.9	610	44	6.3	502	46	5.0	8.2	11.0	13.8
1750	Open	788	41	7.9	644	44	6.2	523	46	5.0	8.5	11.4	14.4
2000	Open	827	42	7.9	671	45	6.1	538	47	4.9	8.7	11.8	14.9
2250	Open	859	42	7.9	691	45	6.1	548	47	4.8	9.0	12.2	15.4
2500	Open	889	42	7.8	709	45	6.0	557	47	4.8	9.2	12.5	15.8

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115 to 138 kV Shielded Single Conductor Filled X L P E or E P R Power Cable

Direct Buried - 1 Circuit - Three Cables - Spaced

25°C Earth Ambient

50°C - Copper Conductor - Concentric Strand

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 .0150 pf & Rho 60	90	120
						100% LF							
750	69	356	45	10.1	287	47	7.4	236	48	5.8	6.7	8.8	11.8
750	103	370	44	10.0	299	46	7.4	246	48	5.7	6.7	8.8	11.8
750	138	386	44	9.6	312	46	7.1	258	47	5.6	6.7	8.8	11.8
750	207	408	44	9.1	332	46	6.9	275	47	5.5	6.7	9.4	11.8
750	Open	488	41	7.1	406	44	5.6	342	46	4.6	7.1	9.4	11.8
1000	69	383	45	10.1	305	47	7.3	247	48	5.6	7.1	9.4	12.5
1000	103	400	45	10.0	320	47	7.3	260	48	5.6	7.1	9.4	12.5
1000	138	420	45	9.8	336	47	7.1	273	48	5.5	7.1	9.4	12.5
1000	207	451	44	9.2	361	46	6.8	294	48	5.4	7.1	10.0	12.5
1000	Open	561	42	7.0	462	45	5.5	383	46	4.6	7.5	10.0	12.5
1250	69	401	46	10.1	316	48	7.2	253	48	5.5	7.4	9.8	13.2
1250	103	421	45	10.0	334	47	7.2	267	48	5.5	7.4	9.8	13.2
1250	138	445	45	9.7	352	47	7.0	282	48	5.4	7.4	9.8	13.2
1250	207	482	45	9.3	381	47	6.8	306	48	5.3	7.4	10.5	13.2
1250	Open	620	42	7.0	504	45	5.5	413	47	4.5	7.9	10.5	13.2
1500	Open	668	43	7.0	538	45	5.4	435	47	4.5	8.2	11.0	13.8
1750	Open	709	43	6.9	566	46	5.4	452	47	4.4	8.5	11.4	14.4
2000	Open	743	43	6.9	588	46	5.3	465	47	4.3	8.7	11.8	14.9
2250	Open	769	44	6.8	604	46	5.3	472	48	4.3	9.0	12.2	15.4
2500	Open	795	44	6.8	619	46	5.3	478	48	4.2	9.2	12.5	15.8

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115 to 138 kV Shielded Single Conductor Filled X L P E or E P R Power Cable

Direct Buried - 1 Circuit - Three Cables - Spaced

25°C Earth Ambient

Total Watts/ft for 90°C - Copper Conductor - Concentric Strand

		60 Rho		90 Rho		120 Rho	
		75 LF	100 LF	75 LF	100 LF	75 LF	100 LF
Condr Size	Shield Res						
750	69	69.8	57.0	54.5	43.2	44.8	34.6
750	103	67.9	55.8	53.5	42.5	44.0	34.1
750	138	66.0	54.5	52.3	41.5	43.3	33.4
750	207	63.3	52.2	50.4	40.2	41.7	32.6
750	Open	52.0	44.3	42.7	35.3	36.2	29.3
1000	69	75.0	60.4	57.8	45.1	46.8	36.0
1000	103	72.9	59.1	56.6	44.5	46.2	35.6
1000	138	71.0	58.0	55.5	43.7	45.5	35.0
1000	207	68.0	55.6	53.8	42.2	44.0	34.0
1000	Open	54.7	46.3	44.6	36.6	37.6	30.3
1250	69	78.9	62.9	60.0	46.5	48.4	36.9
1250	103	76.7	61.6	58.9	45.9	47.7	36.6
1250	138	74.8	60.5	57.9	45.4	47.1	36.0
1250	207	71.7	58.4	56.1	43.8	45.8	35.0
1250	Open	57.0	48.0	46.2	37.7	38.7	31.0
1500	Open	58.9	49.4	47.5	38.5	39.5	31.6
1750	Open	60.6	50.6	48.5	39.3	40.3	32.1
2000	Open	62.1	51.6	49.5	40.0	41.0	32.6
2250	Open	63.4	52.6	50.3	40.6	41.6	33.0
2500	Open	64.6	53.4	51.1	41.1	42.1	33.4

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1510

115 to 138 kV Shielded Single Conductor Filled X L P E or E P R Power Cable

Direct Buried - 1 Circuit - Three Cables - Spaced

25°C Earth Ambient

Total Watts/ft for 80°C - Copper Conductor - Concentric Strand

		60 Rho		90 Rho		120 Rho	
		75 LF	100 LF	75 LF	100 LF	75 LF	100 LF
Condr Size	Shield Res						
750	69	59.6	48.7	46.4	36.7	37.9	29.4
750	103	58.0	47.7	45.5	36.3	37.3	29.0
750	138	56.5	46.7	44.6	35.5	36.7	28.6
750	207	54.2	44.8	43.1	34.4	35.4	27.8
750	Open	44.0	37.7	36.1	30.0	30.6	24.9
1000	69	63.9	51.4	48.9	38.4	39.5	30.6
1000	103	62.3	50.5	48.1	38.0	39.1	30.3
1000	138	60.7	49.6	47.2	37.3	38.5	29.8
1000	207	58.3	47.8	45.8	36.1	37.3	29.0
1000	Open	46.3	39.5	37.7	31.1	31.7	25.8
1250	69	67.0	53.5	50.8	39.4	40.7	31.3
1250	103	65.5	52.6	49.9	39.1	40.3	31.1
1250	138	63.9	51.7	49.1	38.6	39.7	30.7
1250	207	61.3	50.1	47.7	37.4	38.7	29.9
1250	Open	48.2	40.8	39.0	32.0	32.5	26.4
1500	Open	49.9	42.0	40.0	32.8	33.3	26.9
1750	Open	51.3	43.1	40.9	33.4	33.9	27.4
2000	Open	52.6	44.0	41.8	34.0	34.4	27.7
2250	Open	53.6	44.7	42.4	34.5	34.9	28.1
2500	Open	54.7	45.4	43.1	35.0	35.3	28.4

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115 to 138 kV Shielded Single Conductor Filled X L P E or E P R Power Cable

Direct Buried - 1 Circuit - Three Cables - Spaced

25°C Earth Ambient

Total Watts/ft for 65°C - Copper Conductor - Concentric Strand

		60 Rho		90 Rho		120 Rho	
		75 LF	100 LF	75 LF	100 LF	75 LF	100 LF
Condr Size	Shield Res						
750	69	43.7	35.9	33.6	27.0	27.2	21.5
750	103	42.7	35.3	33.2	26.7	26.9	21.3
750	138	41.7	34.7	32.5	26.2	26.5	21.0
750	207	40.1	33.4	31.5	25.4	25.6	20.5
750	Open	32.0	27.7	26.2	22.1	22.0	18.3
1000	69	46.7	37.9	35.4	28.1	28.4	22.2
1000	103	45.7	37.3	34.9	27.8	28.0	22.1
1000	138	44.7	36.6	34.3	27.5	27.8	21.9
1000	207	42.9	35.6	33.4	26.7	26.9	21.4
1000	Open	33.7	29.0	27.3	22.9	22.8	19.0
1250	69	48.8	39.2	36.6	28.9	29.1	22.8
1250	103	47.9	38.7	36.2	28.6	28.8	22.7
1250	138	46.8	38.2	35.6	28.4	28.5	22.4
1250	207	45.2	37.1	34.7	27.7	27.8	21.9
1250	Open	35.1	30.1	28.2	23.6	23.4	19.4
1500	Open	36.3	30.9	28.9	24.1	23.9	19.8
1750	Open	37.3	31.7	29.5	24.6	24.3	20.1
2000	Open	38.2	32.4	30.1	25.1	24.6	20.4
2250	Open	38.9	33.0	30.6	25.4	24.9	20.7
2500	Open	39.7	33.5	31.0	25.8	25.2	20.9

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115 to 138 kV Shielded Single Conductor Filled X L P E or E P R Power Cable

Direct Buried - 1 Circuit - Three Cables - Spaced

25°C Earth Ambient

Total Watts/ft for 50°C - Copper Conductor - Concentric Strand

		60 Rho		90 Rho		120 Rho	
		75 LF	100 LF	75 LF	100 LF	75 LF	100 LF
Condr Size	Shield Res						
750	69	27.1	22.6	20.5	16.8	16.2	13.3
750	103	26.6	22.4	20.3	16.7	16.1	13.2
750	138	26.2	22.1	20.1	16.5	15.8	13.2
750	207	25.2	21.3	19.4	16.1	15.5	13.0
750	Open	20.2	17.8	16.3	14.2	13.5	11.8
1000	69	28.8	23.8	21.5	17.5	16.7	13.7
1000	103	28.3	23.5	21.2	17.4	16.6	13.7
1000	138	27.8	23.2	21.0	17.2	16.4	13.6
1000	207	26.9	22.6	20.4	16.9	16.0	13.4
1000	Open	21.2	18.6	16.9	14.7	13.9	12.2
1250	69	30.0	24.6	22.1	17.9	17.0	14.0
1250	103	29.6	24.4	21.9	17.9	17.0	14.0
1250	138	29.1	24.1	21.6	17.7	16.8	13.9
1250	207	28.1	23.6	21.1	17.4	16.4	13.7
1250	Open	22.0	19.3	17.4	15.1	14.2	12.5
1500	Open	22.7	19.9	17.8	15.5	14.5	12.7
1750	Open	23.3	20.3	18.2	15.8	14.6	12.9
2000	Open	23.8	20.8	18.5	16.1	14.8	13.1
2250	Open	24.2	21.1	18.7	16.3	14.9	13.3
2500	Open	24.7	21.5	18.9	16.5	15.1	13.4

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115 to 138 kV Shielded Single Conductor Filled X L P E or E P R Power Cable

Direct Buried - 1 Circuit - Three Cables - Spaced

25°C Earth Ambient

Size	Res	OD	Wd	Rac	Qs	Ri	Rj	Re @ 90 Rho & loss factor 75%	100%
			90°C - Copper Conductor - Concentric Strand						
750	69	3.218	2.00	18.60	2.312	1.93	0.29	2.14	3.18
750	103	3.218	2.00	18.60	2.034	1.93	0.29	2.14	3.48
750	138	3.218	2.00	18.60	1.822	1.93	0.29	2.14	3.48
750	207	3.218	2.00	18.60	1.449	1.93	0.29	2.33	3.48
750	Open	3.218	2.00	18.60	1.005	1.93	0.29	2.33	3.48
1000	69	3.407	2.18	14.30	2.652	1.76	0.27	2.11	3.15
1000	103	3.407	2.18	14.30	2.295	1.76	0.27	2.11	3.15
1000	138	3.407	2.18	14.30	2.027	1.76	0.27	2.11	3.46
1000	207	3.407	2.18	14.30	1.562	1.76	0.27	2.30	3.46
1000	Open	3.407	2.18	14.30	1.008	1.76	0.27	2.30	3.46
1250	69	3.540	2.34	11.79	2.949	1.64	0.26	2.09	3.13
1250	103	3.540	2.34	11.79	2.521	1.64	0.26	2.09	3.13
1250	138	3.540	2.34	11.79	2.204	1.64	0.26	2.09	3.44
1250	207	3.540	2.34	11.79	1.835	1.64	0.26	2.09	3.44
1250	Open	3.540	2.34	11.79	1.010	1.64	0.26	2.28	3.44
1500	Open	3.660	2.48	10.16	1.012	1.54	0.25	2.27	3.42
1750	Open	3.770	2.61	9.03	1.015	1.46	0.24	2.25	3.41
2000	Open	3.873	2.73	8.18	1.018	1.39	0.24	2.24	3.40
2250	Open	3.968	2.84	7.60	1.020	1.34	0.23	2.23	3.38
2500	Open	4.059	2.95	7.10	1.022	1.29	0.22	2.22	3.37

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115 to 138 kV Shielded Single Conductor Filled X L P E or E P R Power Cable

Direct Buried - 1 Circuit - Three Cables - Spaced

25°C Earth Ambient

Size	Res	OD	Wd	Rac	Qs	Ri	Rj	Re @ 90 Rho & loss factor 75%	Re @ 90 Rho & loss factor 100%
			80°C - Copper Conductor - Concentric Strand						
750	69	3.218	2.00	18.60	2.312	1.93	0.29	2.14	3.18
750	103	3.218	2.00	18.60	2.034	1.93	0.29	2.14	3.48
750	138	3.218	2.00	18.60	1.822	1.93	0.29	2.14	3.48
750	207	3.218	2.00	18.60	1.449	1.93	0.29	2.33	3.48
750	Open	3.218	2.00	18.60	1.005	1.93	0.29	2.33	3.48
1000	69	3.407	2.18	14.30	2.652	1.76	0.27	2.11	3.15
1000	103	3.407	2.18	14.30	2.295	1.76	0.27	2.11	3.15
1000	138	3.407	2.18	14.30	2.027	1.76	0.27	2.11	3.46
1000	207	3.407	2.18	14.30	1.562	1.76	0.27	2.30	3.46
1000	Open	3.407	2.18	14.30	1.008	1.76	0.27	2.30	3.46
1250	69	3.540	2.34	11.79	2.949	1.64	0.26	2.09	3.13
1250	103	3.540	2.34	11.79	2.521	1.64	0.26	2.09	3.13
1250	138	3.540	2.34	11.79	2.204	1.64	0.26	2.09	3.44
1250	207	3.540	2.34	11.79	1.835	1.64	0.26	2.09	3.44
1250	Open	3.540	2.34	11.79	1.010	1.64	0.26	2.28	3.44
1500	Open	3.660	2.48	10.16	1.012	1.54	0.25	2.27	3.42
1750	Open	3.770	2.61	9.03	1.015	1.46	0.24	2.25	3.41
2000	Open	3.873	2.73	8.18	1.018	1.39	0.24	2.24	3.40
2250	Open	3.968	2.84	7.60	1.020	1.34	0.23	2.23	3.38
2500	Open	4.059	2.95	7.10	1.022	1.29	0.22	2.22	3.37

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115 to 138 kV Shielded Single Conductor Filled X L P E or E P R Power Cable

Direct Buried - 1 Circuit - Three Cables - Spaced

25°C Earth Ambient

Size	Res	OD	Wd	Rac	Qs	Ri	Rj	Re @ 90 Rho & loss factor 75%	100%
			65°C - Copper Conductor - Concentric Strand						
750	69	3.218	2.00	18.60	2.312	1.93	0.29	2.14	3.18
750	103	3.218	2.00	18.60	2.034	1.93	0.29	2.14	3.48
750	138	3.218	2.00	18.60	1.822	1.93	0.29	2.14	3.48
750	207	3.218	2.00	18.60	1.449	1.93	0.29	2.33	3.48
750	Open	3.218	2.00	18.60	1.005	1.93	0.29	2.33	3.48
1000	69	3.407	2.18	14.30	2.652	1.76	0.27	2.11	3.15
1000	103	3.407	2.18	14.30	2.295	1.76	0.27	2.11	3.15
1000	138	3.407	2.18	14.30	2.027	1.76	0.27	2.11	3.46
1000	207	3.407	2.18	14.30	1.562	1.76	0.27	2.30	3.46
1000	Open	3.407	2.18	14.30	1.008	1.76	0.27	2.30	3.46
1250	69	3.540	2.34	11.79	2.949	1.64	0.26	2.09	3.13
1250	103	3.540	2.34	11.79	2.521	1.64	0.26	2.09	3.13
1250	138	3.540	2.34	11.79	2.204	1.64	0.26	2.09	3.44
1250	207	3.540	2.34	11.79	1.835	1.64	0.26	2.09	3.44
1250	Open	3.540	2.34	11.79	1.010	1.64	0.26	2.28	3.44
1500	Open	3.660	2.48	10.16	1.012	1.54	0.25	2.27	3.42
1750	Open	3.770	2.61	9.03	1.015	1.46	0.24	2.25	3.41
2000	Open	3.873	2.73	8.18	1.018	1.39	0.24	2.24	3.40
2250	Open	3.968	2.84	7.60	1.020	1.34	0.23	2.23	3.38
2500	Open	4.059	2.95	7.10	1.022	1.29	0.22	2.22	3.37

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1516

115 to 138 kV Shielded Single Conductor Filled X L P E or E P R Power Cable

Direct Buried - 1 Circuit - Three Cables - Spaced

25°C Earth Ambient

Size	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	2.00	18.60	2.312	1.93	0.29	2.14	3.18
750	103	3.218	2.00	18.60	2.034	1.93	0.29	2.14	3.48
750	138	3.218	2.00	18.60	1.822	1.93	0.29	2.14	3.48
750	207	3.218	2.00	18.60	1.449	1.93	0.29	2.33	3.48
750	Open	3.218	2.00	18.60	1.005	1.93	0.29	2.33	3.48
1000	69	3.407	2.18	14.30	2.652	1.76	0.27	2.11	3.15
1000	103	3.407	2.18	14.30	2.295	1.76	0.27	2.11	3.15
1000	138	3.407	2.18	14.30	2.027	1.76	0.27	2.11	3.46
1000	207	3.407	2.18	14.30	1.562	1.76	0.27	2.30	3.46
1000	Open	3.407	2.18	14.30	1.008	1.76	0.27	2.30	3.46
1250	69	3.540	2.34	11.79	2.949	1.64	0.26	2.09	3.13
1250	103	3.540	2.34	11.79	2.521	1.64	0.26	2.09	3.13
1250	138	3.540	2.34	11.79	2.204	1.64	0.26	2.09	3.44
1250	207	3.540	2.34	11.79	1.835	1.64	0.26	2.09	3.44
1250	Open	3.540	2.34	11.79	1.010	1.64	0.26	2.28	3.44
1500	Open	3.660	2.48	10.16	1.012	1.54	0.25	2.27	3.42
1750	Open	3.770	2.61	9.03	1.015	1.46	0.24	2.25	3.41
2000	Open	3.873	2.73	8.18	1.018	1.39	0.24	2.24	3.40
2250	Open	3.968	2.84	7.60	1.020	1.34	0.23	2.23	3.38
2500	Open	4.059	2.95	7.10	1.022	1.29	0.22	2.22	3.37

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115 to 138 kV Shielded Single Conductor Filled X L P E or E P R Power Cable

Direct Buried - 2 Circuits - Six Cables - Spaced

25°C Earth Ambient

90°C - Copper Conductor - Concentric Strand

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 .0150 pf & Rho 60	90	120
						75% LF							
750	69	650	69	26.9	554	75	20.2	486	78	16.0	8.3	11.2	14.1
750	103	679	68	25.9	582	74	19.6	511	78	15.7	8.3	11.2	14.1
750	138	706	67	24.8	607	73	19.0	534	77	15.2	8.3	11.2	14.1
750	207	743	65	23.4	641	72	18.0	567	76	14.6	8.3	11.2	14.1
750	Open	856	60	18.6	753	67	15.0	673	71	12.5	8.3	11.2	14.1
1000	69	712	71	27.4	601	77	20.2	524	80	15.9	8.8	11.9	15.1
1000	103	750	70	26.3	636	76	19.6	555	79	15.5	8.8	11.9	15.1
1000	138	785	69	25.3	669	75	18.9	585	78	15.1	8.8	11.9	15.1
1000	207	835	67	23.8	714	73	18.1	627	77	14.5	8.8	11.9	15.1
1000	Open	996	61	18.5	870	68	14.7	774	73	12.1	8.8	11.9	15.1
1250	69	757	73	27.6	635	78	20.3	550	81	15.8	9.2	12.6	16.0
1250	103	803	72	26.7	676	77	19.6	587	80	15.4	9.2	12.6	16.0
1250	138	846	71	25.7	715	76	19.1	621	80	15.0	9.2	12.6	16.0
1250	207	906	69	24.2	770	75	18.1	672	79	14.4	9.2	12.6	16.0
1250	Open	1113	62	18.6	967	69	14.6	856	74	12.0	9.2	12.6	16.0
1500	Open	1213	63	18.5	1049	70	14.5	925	75	11.8	9.6	13.2	16.8
1750	Open	1299	64	18.4	1118	71	14.4	982	75	11.7	10.0	13.7	17.5
2000	Open	1374	65	18.3	1179	71	14.2	1032	76	11.5	10.3	14.2	18.1
2250	Open	1434	65	18.3	1228	72	14.2	1071	76	11.4	10.6	14.7	18.7
2500	Open	1492	66	18.3	1273	73	14.0	1108	77	11.3	10.9	15.0	19.3

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1518

115 to 138 kV Shielded Single Conductor Filled X L P E or E P R Power Cable

Direct Buried - 2 Circuits - Six Cables - Spaced

25°C Earth Ambient

90°C - Copper Conductor - Concentric Strand

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 .0150 pf & Rho 60	90	120
						100% LF							
750	69	568	74	21.1	475	79	15.4	410	82	12.1	8.3	11.2	14.1
750	103	596	73	20.4	500	78	15.1	433	81	11.9	8.3	11.2	14.1
750	138	621	72	19.8	523	77	14.7	454	80	11.6	8.3	11.2	14.1
750	207	657	71	18.8	555	76	14.1	483	80	11.3	8.3	11.2	14.1
750	Open	770	66	15.5	662	72	12.1	582	76	10.0	8.3	11.2	14.1
1000	69	617	76	21.2	511	80	15.2	439	83	11.9	8.8	11.9	15.1
1000	103	653	75	20.5	543	80	14.9	468	82	11.8	8.8	11.9	15.1
1000	138	686	74	19.8	572	79	14.6	494	82	11.4	8.8	11.9	15.1
1000	207	733	73	18.8	614	78	14.0	531	81	11.1	8.8	11.9	15.1
1000	Open	892	67	15.4	761	73	11.9	666	77	9.6	8.8	11.9	15.1
1250	69	653	77	21.3	537	81	15.2	459	84	11.8	9.2	12.6	16.0
1250	103	695	76	20.6	574	81	14.9	492	83	11.5	9.2	12.6	16.0
1250	138	734	75	20.0	608	80	14.5	522	83	11.3	9.2	12.6	16.0
1250	207	791	74	19.0	658	79	13.9	566	82	11.0	9.2	12.6	16.0
1250	Open	992	68	15.2	843	74	11.7	735	78	9.5	9.2	12.6	16.0
1500	Open	1078	69	15.1	911	75	11.6	791	79	9.4	9.6	13.2	16.8
1750	Open	1151	70	15.1	969	76	11.4	838	79	9.2	10.0	13.7	17.5
2000	Open	1215	70	15.0	1019	76	11.3	878	80	9.1	10.3	14.2	18.1
2250	Open	1266	71	14.8	1058	77	11.2	909	80	9.0	10.6	14.7	18.7
2500	Open	1314	71	14.8	1095	77	11.1	939	81	8.8	10.9	15.0	19.3

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115 to 138 kV Shielded Single Conductor Filled X L P E or E P R Power Cable

Direct Buried - 2 Circuits - Six Cables - Spaced

25°C Earth Ambient

80°C - Copper Conductor - Concentric Strand

		---- 60 Rho---			---- 90 Rho---			----120 Rho---			delta Td for .0150 pf & Rho		
			Interface			Interface			Interface				
		Amps	Temp °C	Flux w/ft²	Amps	Temp °C	Flux w/ft²	Amps	Temp °C	Flux w/ft²	60	90	120
Condr Size	Shield Res												
						75% LF							
750	69	587	63	22.9	497	68	17.1	432	71	13.5	8.3	11.2	14.1
750	103	613	62	22.1	521	67	16.6	454	70	13.2	8.3	11.2	14.1
750	138	638	61	21.2	544	66	16.1	475	70	12.8	8.3	11.2	14.1
750	207	673	60	20.1	577	65	15.3	506	69	12.3	8.3	11.2	14.1
750	Open	788	55	15.8	689	61	12.7	612	65	10.4	8.3	11.2	14.1
1000	69	640	65	23.2	537	70	17.0	463	72	13.3	8.8	11.9	15.1
1000	103	674	64	22.4	567	69	16.6	491	72	13.0	8.8	11.9	15.1
1000	138	706	63	21.6	596	68	16.1	517	71	12.8	8.8	11.9	15.1
1000	207	753	62	20.4	639	67	15.4	556	70	12.2	8.8	11.9	15.1
1000	Open	916	56	15.7	795	62	12.4	702	66	10.2	8.8	11.9	15.1
1250	69	678	66	23.4	564	71	17.0	484	73	13.2	9.2	12.6	16.0
1250	103	719	66	22.8	600	70	16.6	516	73	12.9	9.2	12.6	16.0
1250	138	758	65	21.9	634	69	16.1	547	72	12.6	9.2	12.6	16.0
1250	207	814	63	20.6	686	68	15.3	593	71	12.1	9.2	12.6	16.0
1250	Open	1022	57	15.6	882	63	12.3	774	67	10.0	9.2	12.6	16.0
1500	Open	1111	58	15.7	954	64	12.2	833	68	9.9	9.6	13.2	16.8
1750	Open	1188	59	15.6	1015	65	12.1	883	68	9.8	10.0	13.7	17.5
2000	Open	1256	59	15.5	1069	65	11.9	925	69	9.7	10.3	14.2	18.1
2250	Open	1309	60	15.5	1110	66	11.8	958	69	9.5	10.6	14.7	18.7
2500	Open	1361	60	15.3	1150	66	11.8	989	70	9.4	10.9	15.0	19.3

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1520

115 to 138 kV Shielded Single Conductor Filled X L P E or E P R Power Cable

Direct Buried - 2 Circuits - Six Cables - Spaced

25°C Earth Ambient

80°C - Copper Conductor - Concentric Strand

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 .0150 pf & Rho 60	90	120
						100% LF							
750	69	513	67	18.0	425	71	13.2	365	74	10.3	8.3	11.2	14.1
750	103	537	66	17.6	447	71	12.8	384	73	10.1	8.3	11.2	14.1
750	138	560	66	17.0	468	70	12.6	403	73	10.0	8.3	11.2	14.1
750	207	594	64	16.1	499	69	12.1	431	72	9.6	8.3	11.2	14.1
750	Open	709	60	13.3	606	65	10.3	530	69	8.4	8.3	11.2	14.1
1000	69	554	69	18.1	456	72	13.0	389	75	10.1	8.8	11.9	15.1
1000	103	586	68	17.6	483	72	12.8	413	74	10.0	8.8	11.9	15.1
1000	138	616	67	17.0	509	71	12.4	436	74	9.8	8.8	11.9	15.1
1000	207	660	66	16.3	548	70	12.0	471	73	9.4	8.8	11.9	15.1
1000	Open	820	61	13.0	695	66	10.1	604	70	8.2	8.8	11.9	15.1
1250	69	584	70	18.0	477	73	12.8	405	75	9.9	9.2	12.6	16.0
1250	103	624	69	17.8	509	73	12.6	432	75	9.8	9.2	12.6	16.0
1250	138	657	69	17.2	539	72	12.3	458	74	9.6	9.2	12.6	16.0
1250	207	709	67	16.3	585	71	11.9	499	74	9.4	9.2	12.6	16.0
1250	Open	911	62	12.9	768	67	9.9	664	70	8.1	9.2	12.6	16.0
1500	Open	987	63	12.8	828	68	9.8	713	71	7.9	9.6	13.2	16.8
1750	Open	1052	63	12.8	879	68	9.7	753	72	7.8	10.0	13.7	17.5
2000	Open	1110	64	12.7	923	69	9.7	787	72	7.7	10.3	14.2	18.1
2250	Open	1155	64	12.6	957	69	9.5	813	72	7.6	10.6	14.7	18.7
2500	Open	1198	65	12.5	989	70	9.4	838	73	7.5	10.9	15.0	19.3

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115 to 138 kV Shielded Single Conductor Filled X L P E or E P R Power Cable

Direct Buried - 2 Circuits - Six Cables - Spaced

25°C Earth Ambient

65°C - Copper Conductor - Concentric Strand

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 .0150 pf & Rho 60	90	120
						75% LF							
750	69	481	54	16.6	400	57	12.2	341	59	9.5	8.3	11.2	14.1
750	103	500	53	16.3	417	57	12.0	356	59	9.4	8.3	11.2	14.1
750	138	521	53	15.7	436	57	11.6	373	59	9.1	8.3	11.2	14.1
750	207	552	52	14.8	464	56	11.2	399	58	8.9	8.3	11.2	14.1
750	Open	664	48	11.5	571	53	9.1	498	56	7.5	8.3	11.2	14.1
1000	69	520	55	16.8	427	58	12.1	360	60	9.3	8.8	11.9	15.1
1000	103	545	55	16.4	449	58	11.9	380	60	9.2	8.8	11.9	15.1
1000	138	571	54	15.8	473	58	11.7	400	60	9.0	8.8	11.9	15.1
1000	207	612	53	15.0	509	57	11.1	433	59	8.7	8.8	11.9	15.1
1000	Open	769	49	11.4	655	53	9.0	566	56	7.3	8.8	11.9	15.1
1250	69	547	56	16.8	445	59	12.0	373	61	9.2	9.2	12.6	16.0
1250	103	577	56	16.5	471	59	11.9	395	61	9.1	9.2	12.6	16.0
1250	138	609	55	16.0	498	58	11.5	418	60	8.8	9.2	12.6	16.0
1250	207	657	54	15.1	541	58	11.1	456	60	8.6	9.2	12.6	16.0
1250	Open	855	50	11.3	723	54	8.8	620	57	7.1	9.2	12.6	16.0
1500	Open	926	50	11.4	778	55	8.8	662	58	7.1	9.6	13.2	16.8
1750	Open	988	51	11.2	825	55	8.7	697	58	7.0	10.0	13.7	17.5
2000	Open	1040	51	11.2	863	56	8.6	725	58	6.8	10.3	14.2	18.1
2250	Open	1082	52	11.2	893	56	8.5	745	59	6.7	10.6	14.7	18.7
2500	Open	1121	52	11.1	921	56	8.4	764	59	6.7	10.9	15.1	19.3

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115 to 138 kV Shielded Single Conductor Filled X L P E or E P R Power Cable

Direct Buried - 2 Circuits - Six Cables - Spaced

25°C Earth Ambient

65°C - Copper Conductor - Concentric Strand

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 .0150 pf & Rho 60	90	120
						100% LF							
750	69	418	57	13.2	341	59	9.5	287	61	7.5	8.3	11.2	14.1
750	103	437	56	12.9	357	59	9.4	301	61	7.4	8.3	11.2	14.1
750	138	456	56	12.6	374	59	9.3	316	61	7.2	8.3	11.2	14.1
750	207	486	55	12.0	400	58	8.9	339	60	7.0	8.3	11.2	14.1
750	Open	598	51	9.7	503	55	7.6	431	58	6.2	8.3	11.2	14.1
1000	69	449	58	13.1	362	60	9.4	302	62	7.3	8.8	11.9	15.1
1000	103	472	57	12.9	382	60	9.3	319	62	7.2	8.8	11.9	15.1
1000	138	497	57	12.6	403	60	9.1	337	61	7.1	8.8	11.9	15.1
1000	207	535	56	12.0	436	59	8.7	365	61	7.0	8.8	11.9	15.1
1000	Open	688	52	9.6	574	56	7.4	488	59	6.1	8.8	11.9	15.1
1250	69	470	59	13.2	376	61	9.3	311	62	7.1	9.2	12.6	16.0
1250	103	497	58	12.8	399	61	9.2	330	62	7.1	9.2	12.6	16.0
1250	138	526	58	12.6	423	60	9.1	350	62	7.0	9.2	12.6	16.0
1250	207	571	57	12.1	461	60	8.7	383	61	6.8	9.2	12.6	16.0
1250	Open	762	53	9.6	630	57	7.3	532	59	5.9	9.2	12.6	16.0
1500	Open	823	53	9.5	676	57	7.2	566	60	5.8	9.6	13.2	16.8
1750	Open	876	54	9.4	715	58	7.2	595	60	5.8	10.0	13.7	17.5
2000	Open	920	54	9.4	746	58	7.1	617	60	5.7	10.3	14.2	18.1
2250	Open	955	55	9.3	770	58	7.0	633	61	5.6	10.6	14.7	18.7
2500	Open	987	55	9.2	792	59	7.0	647	61	5.6	10.9	15.1	19.3

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115 to 138 kV Shielded Single Conductor Filled X L P E or E P R Power Cable

Direct Buried - 2 Circuits - Six Cables - Spaced

25°C Earth Ambient

50°C - Copper Conductor - Concentric Strand

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 .0150 pf & Rho 60	90	120
						75% LF							
750	69	346	44	10.0	274	47	7.1	219	48	5.5	8.3	11.2	14.1
750	103	358	44	9.9	284	46	7.1	227	48	5.3	8.3	11.2	14.1
750	138	373	44	9.6	297	46	7.0	238	48	5.3	8.3	11.2	14.1
750	207	397	43	9.1	318	46	6.8	255	47	5.2	8.3	11.2	14.1
750	Open	494	41	7.2	405	44	5.6	331	46	4.5	8.3	11.2	14.1
1000	69	370	45	10.0	287	47	7.0	224	48	5.2	8.8	11.9	15.1
1000	103	385	45	9.9	300	47	7.0	234	48	5.2	8.8	11.9	15.1
1000	138	404	45	9.6	315	47	6.8	246	48	5.2	8.8	11.9	15.1
1000	207	435	44	9.2	341	46	6.6	268	48	5.0	8.8	11.9	15.1
1000	Open	566	42	7.1	457	45	5.5	365	47	4.4	8.8	11.9	15.1
1250	69	386	46	10.0	294	48	6.9	224	49	5.1	9.2	12.6	16.0
1250	103	403	45	9.8	309	47	6.8	235	49	5.1	9.2	12.6	16.0
1250	138	425	45	9.6	326	47	6.7	249	48	5.0	9.2	12.6	16.0
1250	207	461	45	9.2	356	47	6.5	273	48	4.9	9.2	12.6	16.0
1250	Open	624	42	7.0	496	45	5.4	388	47	4.3	9.2	12.6	16.0
1500	Open	672	43	7.0	527	45	5.3	402	47	4.2	9.6	13.2	16.8
1750	Open	711	43	7.0	550	46	5.3	410	48	4.1	10.0	13.7	17.5
2000	Open	744	43	6.9	568	46	5.1	413	48	4.0	10.3	14.2	18.1
2250	Open	769	44	6.8	580	46	5.1	411	48	3.9	10.6	14.7	18.7
2500	Open	793	44	6.9	590	47	5.0	407	48	3.9	10.9	15.1	19.3

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115 to 138 kV Shielded Single Conductor Filled X L P E or E P R Power Cable

Direct Buried - 2 Circuits - Six Cables - Spaced

25°C Earth Ambient

50°C - Copper Conductor - Concentric Strand

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 .0150 pf & Rho 60	90	120
						100% LF							
750	69	301	46	8.2	234	47	5.8	184	48	4.5	8.3	11.2	14.1
750	103	312	46	8.1	243	47	5.8	191	48	4.5	8.3	11.2	14.1
750	138	326	45	8.0	254	47	5.7	201	48	4.5	8.3	11.2	14.1
750	207	349	45	7.6	273	47	5.6	216	48	4.4	8.3	11.2	14.1
750	Open	444	43	6.3	356	45	4.9	286	47	4.0	8.3	11.2	14.1
1000	69	319	46	8.1	243	48	5.7	187	49	4.4	8.8	11.9	15.1
1000	103	333	46	8.0	254	48	5.7	196	49	4.4	8.8	11.9	15.1
1000	138	350	46	7.8	268	48	5.6	207	49	4.4	8.8	11.9	15.1
1000	207	379	46	7.6	291	47	5.5	225	48	4.3	8.8	11.9	15.1
1000	Open	507	43	6.2	400	46	4.7	315	47	3.9	8.8	11.9	15.1
1250	69	331	47	8.0	248	48	5.6	187	49	4.3	9.2	12.6	16.0
1250	103	347	47	8.0	261	48	5.6	197	49	4.2	9.2	12.6	16.0
1250	138	367	46	7.8	276	48	5.5	208	49	4.2	9.2	12.6	16.0
1250	207	399	46	7.6	302	48	5.4	229	49	4.2	9.2	12.6	16.0
1250	Open	557	44	6.2	433	46	4.7	333	48	3.8	9.2	12.6	16.0
1500	Open	597	44	6.1	457	47	4.6	344	48	3.8	9.6	13.2	16.8
1750	Open	630	45	6.1	477	47	4.6	350	48	3.6	10.0	13.7	17.5
2000	Open	657	45	6.0	491	47	4.5	352	49	3.6	10.3	14.2	18.1
2250	Open	678	45	6.0	500	47	4.5	349	49	3.6	10.6	14.7	18.7
2500	Open	698	45	5.9	507	47	4.4	345	49	3.6	10.9	15.1	19.3

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115 to 138 kV Shielded Single Conductor Filled X L P E or E P R Power Cable

Direct Buried - 2 Circuits - Six Cables - Spaced

25°C Earth Ambient

Total Watts/ft for 90°C - Copper Conductor - Concentric Strand

		60 Rho		90 Rho		120 Rho	
		75 LF	100 LF	75 LF	100 LF	75 LF	100 LF
Condr Size	Shield Res						
750	69	116.8	92.0	88.1	67.9	70.6	53.7
750	103	114.0	90.6	86.9	67.3	69.8	53.5
750	138	111.6	89.1	85.6	66.7	69.0	53.2
750	207	108.1	87.1	83.5	65.6	67.9	52.6
750	Open	94.1	78.4	75.5	61.1	62.7	49.9
1000	69	123.7	96.1	91.9	70.0	73.0	55.1
1000	103	120.9	94.8	90.6	69.6	72.1	55.0
1000	138	118.4	93.5	89.6	69.0	71.6	54.8
1000	207	114.7	91.4	87.4	68.0	70.4	54.2
1000	Open	98.7	81.7	78.4	63.0	64.8	51.3
1250	69	128.5	99.2	94.6	71.6	74.5	56.1
1250	103	125.9	97.8	93.3	71.2	73.8	56.0
1250	138	123.7	96.6	92.4	70.7	73.1	55.8
1250	207	119.7	94.6	90.4	69.8	72.2	55.3
1250	Open	102.4	84.2	80.7	64.7	66.3	52.6
1500	Open	105.5	86.5	82.7	66.0	67.6	53.4
1750	Open	108.2	88.3	84.2	67.2	68.6	54.2
2000	Open	110.5	89.9	85.6	68.1	69.5	54.8
2250	Open	112.4	91.4	87.0	69.0	70.2	55.4
2500	Open	114.3	92.6	88.0	69.7	71.0	56.0

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1526

115 to 138 kV Shielded Single Conductor Filled X L P E or E P R Power Cable

Direct Buried - 2 Circuits - Six Cables - Spaced

25°C Earth Ambient

Total Watts/ft for 80°C - Copper Conductor - Concentric Strand

		60 Rho		90 Rho		120 Rho	
		75 LF	100 LF	75 LF	100 LF	75 LF	100 LF
Condr Size	Shield Res						
750	69	99.1	78.5	74.4	57.7	59.2	45.7
750	103	97.1	77.3	73.5	57.3	58.7	45.4
750	138	95.2	76.1	72.5	56.8	58.1	45.2
750	207	92.0	74.4	70.8	56.0	57.2	44.8
750	Open	79.6	66.7	63.7	52.0	52.8	42.6
1000	69	104.7	81.7	77.6	59.6	61.0	46.9
1000	103	102.9	80.9	76.6	59.2	60.7	46.8
1000	138	100.8	79.8	75.6	58.7	60.1	46.5
1000	207	97.7	78.1	74.0	57.9	59.2	46.2
1000	Open	83.5	69.5	66.1	53.6	54.4	43.7
1250	69	108.5	84.1	79.4	60.8	62.2	47.7
1250	103	106.9	84.0	78.7	60.6	61.9	47.5
1250	138	105.1	82.4	77.7	60.1	61.5	47.3
1250	207	101.8	80.6	76.3	59.3	60.6	47.0
1250	Open	86.6	71.7	68.0	55.0	55.6	44.6
1500	Open	89.0	73.4	69.6	56.1	56.6	45.4
1750	Open	91.4	75.0	70.9	57.1	57.5	46.1
2000	Open	93.4	76.5	72.1	58.0	58.1	46.6
2250	Open	94.9	77.7	73.1	58.7	58.8	47.1
2500	Open	96.6	78.8	74.0	59.3	59.3	47.6

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115 to 138 kV Shielded Single Conductor Filled X L P E or E P R Power Cable

Direct Buried - 2 Circuits - Six Cables - Spaced

25°C Earth Ambient

Total Watts/ft for 65°C - Copper Conductor - Concentric Strand

		60 Rho		90 Rho		120 Rho	
		75 LF	100 LF	75 LF	100 LF	75 LF	100 LF
Condr Size	Shield Res						
750	69	72.2	57.5	53.6	42.2	42.2	33.4
750	103	70.9	57.0	53.0	42.0	41.8	33.3
750	138	69.7	56.2	52.4	41.7	41.6	33.2
750	207	67.5	55.0	51.2	41.1	41.0	32.9
750	Open	57.8	49.2	45.9	38.3	37.8	31.3
1000	69	75.9	59.9	55.4	43.5	43.2	34.3
1000	103	74.8	59.4	55.0	43.4	43.1	34.2
1000	138	73.4	58.8	54.5	43.1	42.7	34.1
1000	207	71.4	57.6	53.4	42.6	42.2	33.8
1000	Open	60.6	51.1	47.6	39.6	38.8	32.2
1250	69	78.4	61.5	56.6	44.4	43.9	34.8
1250	103	77.4	61.1	56.3	44.3	43.7	34.8
1250	138	76.4	60.6	55.7	44.1	43.4	34.6
1250	207	74.2	59.5	54.8	43.6	43.0	34.5
1250	Open	62.8	52.8	48.9	40.5	39.7	32.9
1500	Open	64.5	54.1	49.9	41.3	40.2	33.4
1750	Open	66.1	55.3	50.8	42.1	40.8	34.0
2000	Open	67.4	56.3	51.5	42.7	41.2	34.4
2250	Open	68.7	57.3	52.2	43.2	41.5	34.7
2500	Open	69.7	58.0	52.8	43.7	41.9	35.0

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1528

115 to 138 kV Shielded Single Conductor Filled X L P E or E P R Power Cable

Direct Buried - 2 Circuits - Six Cables - Spaced

25°C Earth Ambient

Total Watts/ft for 50°C - Copper Conductor - Concentric Strand

		60 Rho		90 Rho		120 Rho	
		75 LF	100 LF	75 LF	100 LF	75 LF	100 LF
Condr Size	Shield Res						
750	69	44.1	36.3	32.1	26.7	24.8	21.1
750	103	43.6	36.0	31.9	26.5	24.7	21.0
750	138	43.0	35.7	31.6	26.4	24.6	21.0
750	207	41.9	35.1	31.2	26.1	24.3	20.8
750	Open	36.2	31.6	28.3	24.6	22.9	20.1
1000	69	46.1	37.6	33.0	27.3	25.2	21.5
1000	103	45.6	37.4	32.8	27.2	25.1	21.5
1000	138	45.1	37.1	32.5	27.2	24.9	21.5
1000	207	44.1	36.6	32.1	26.9	24.8	21.4
1000	Open	37.7	32.8	29.1	25.4	23.3	20.7
1250	69	47.5	38.7	33.5	27.9	25.3	21.9
1250	103	46.9	38.4	33.4	27.8	25.2	21.9
1250	138	46.5	38.2	33.1	27.7	25.2	21.8
1250	207	45.5	37.6	32.8	27.5	25.1	21.8
1250	Open	39.0	33.9	29.8	26.0	23.7	21.1
1500	Open	40.1	34.8	30.4	26.5	23.9	21.5
1750	Open	40.9	35.5	30.7	27.0	24.0	21.8
2000	Open	41.7	36.1	31.1	27.4	24.2	22.0
2250	Open	42.3	36.7	31.4	27.7	24.3	22.3
2500	Open	43.0	37.3	31.7	28.0	24.4	22.5

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115 to 138 kV Shielded Single Conductor Filled X L P E or E P R Power Cable

Direct Buried - 2 Circuits - Six Cables - Spaced

25°C Earth Ambient

Size	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	2.00	18.60	2.368	1.93	0.29	2.87	4.37
750	103	3.218	2.00	18.60	2.093	1.93	0.29	2.87	4.37
750	138	3.218	2.00	18.60	1.875	1.93	0.29	2.87	4.37
750	207	3.218	2.00	18.60	1.613	1.93	0.29	2.87	4.37
750	Open	3.218	2.00	18.60	1.004	1.93	0.29	2.87	4.37
1000	69	3.407	2.18	14.30	2.726	1.76	0.27	2.85	4.34
1000	103	3.407	2.18	14.30	2.372	1.76	0.27	2.85	4.34
1000	138	3.407	2.18	14.30	2.096	1.76	0.27	2.85	4.34
1000	207	3.407	2.18	14.30	1.766	1.76	0.27	2.85	4.34
1000	Open	3.407	2.18	14.30	1.006	1.76	0.27	2.85	4.34
1250	69	3.540	2.34	11.79	3.050	1.64	0.26	2.82	4.32
1250	103	3.540	2.34	11.79	2.614	1.64	0.26	2.83	4.32
1250	138	3.540	2.34	11.79	2.287	1.64	0.26	2.83	4.32
1250	207	3.540	2.34	11.79	1.898	1.64	0.26	2.83	4.32
1250	Open	3.540	2.34	11.79	1.008	1.64	0.26	2.83	4.32
1500	Open	3.660	2.48	10.16	1.010	1.54	0.25	2.81	4.31
1750	Open	3.770	2.61	9.03	1.012	1.46	0.24	2.80	4.29
2000	Open	3.873	2.73	8.18	1.014	1.39	0.24	2.79	4.28
2250	Open	3.968	2.84	7.60	1.016	1.34	0.23	2.78	4.27
2500	Open	4.059	2.95	7.10	1.025	1.29	0.22	2.75	4.26

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1530

115 to 138 kV Shielded Single Conductor Filled X L P E or E P R Power Cable

Direct Buried - 2 Circuits - Six Cables - Spaced

25°C Earth Ambient

Size	Res	OD	Wd	Rac	Qs	Ri	Rj	Re @ 90 Rho & loss factor 75%	Re @ 90 Rho & loss factor 100%
			80°C - Copper Conductor - Concentric Strand						
750	69	3.218	2.00	18.60	2.368	1.93	0.29	2.87	4.37
750	103	3.218	2.00	18.60	2.093	1.93	0.29	2.87	4.37
750	138	3.218	2.00	18.60	1.875	1.93	0.29	2.87	4.37
750	207	3.218	2.00	18.60	1.613	1.93	0.29	2.87	4.37
750	Open	3.218	2.00	18.60	1.004	1.93	0.29	2.87	4.37
1000	69	3.407	2.18	14.30	2.726	1.76	0.27	2.85	4.34
1000	103	3.407	2.18	14.30	2.372	1.76	0.27	2.85	4.34
1000	138	3.407	2.18	14.30	2.096	1.76	0.27	2.85	4.34
1000	207	3.407	2.18	14.30	1.766	1.76	0.27	2.85	4.34
1000	Open	3.407	2.18	14.30	1.006	1.76	0.27	2.85	4.34
1250	69	3.540	2.34	11.79	3.050	1.64	0.26	2.82	4.32
1250	103	3.540	2.34	11.79	2.614	1.64	0.26	2.83	4.32
1250	138	3.540	2.34	11.79	2.287	1.64	0.26	2.83	4.32
1250	207	3.540	2.34	11.79	1.898	1.64	0.26	2.83	4.32
1250	Open	3.540	2.34	11.79	1.008	1.64	0.26	2.83	4.32
1500	Open	3.660	2.48	10.16	1.010	1.54	0.25	2.81	4.31
1750	Open	3.770	2.61	9.03	1.012	1.46	0.24	2.80	4.29
2000	Open	3.873	2.73	8.18	1.014	1.39	0.24	2.79	4.28
2250	Open	3.968	2.84	7.60	1.016	1.34	0.23	2.78	4.27
2500	Open	4.059	2.95	7.10	1.025	1.29	0.22	2.75	4.26

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115 to 138 kV Shielded Single Conductor Filled X L P E or E P R Power Cable

Direct Buried - 2 Circuits - Six Cables - Spaced

25°C Earth Ambient

Size	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	2.00	18.60	2.368	1.93	0.29	2.87	4.37
750	103	3.218	2.00	18.60	2.093	1.93	0.29	2.87	4.37
750	138	3.218	2.00	18.60	1.875	1.93	0.29	2.87	4.37
750	207	3.218	2.00	18.60	1.613	1.93	0.29	2.87	4.37
750	Open	3.218	2.00	18.60	1.004	1.93	0.29	2.87	4.37
1000	69	3.407	2.18	14.30	2.726	1.76	0.27	2.85	4.34
1000	103	3.407	2.18	14.30	2.372	1.76	0.27	2.85	4.34
1000	138	3.407	2.18	14.30	2.096	1.76	0.27	2.85	4.34
1000	207	3.407	2.18	14.30	1.766	1.76	0.27	2.85	4.34
1000	Open	3.407	2.18	14.30	1.006	1.76	0.27	2.85	4.34
1250	69	3.540	2.34	11.79	3.050	1.64	0.26	2.82	4.32
1250	103	3.540	2.34	11.79	2.614	1.64	0.26	2.83	4.32
1250	138	3.540	2.34	11.79	2.287	1.64	0.26	2.83	4.32
1250	207	3.540	2.34	11.79	1.898	1.64	0.26	2.83	4.32
1250	Open	3.540	2.34	11.79	1.008	1.64	0.26	2.83	4.32
1500	Open	3.660	2.48	10.16	1.010	1.54	0.25	2.81	4.31
1750	Open	3.770	2.61	9.03	1.012	1.46	0.24	2.80	4.29
2000	Open	3.873	2.73	8.18	1.014	1.39	0.24	2.79	4.28
2250	Open	3.968	2.84	7.60	1.016	1.34	0.23	2.78	4.27
2500	Open	4.059	2.95	7.10	1.025	1.29	0.22	2.75	4.26

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1532

115 to 138 kV Shielded Single Conductor Filled X L P E or E P R Power Cable

Direct Buried - 2 Circuits - Six Cables - Spaced

25°C Earth Ambient

Size	Res	OD	Wd	Rac	Qs	Ri	Rj	Re @ 90 Rho & loss factor 75%	100%
			50°C - Copper Conductor - Concentric Strand						
750	69	3.218	2.00	18.60	2.368	1.93	0.29	2.87	4.37
750	103	3.218	2.00	18.60	2.093	1.93	0.29	2.87	4.37
750	138	3.218	2.00	18.60	1.875	1.93	0.29	2.87	4.37
750	207	3.218	2.00	18.60	1.613	1.93	0.29	2.87	4.37
750	Open	3.218	2.00	18.60	1.004	1.93	0.29	2.87	4.37
1000	69	3.407	2.18	14.30	2.726	1.76	0.27	2.85	4.34
1000	103	3.407	2.18	14.30	2.372	1.76	0.27	2.85	4.34
1000	138	3.407	2.18	14.30	2.096	1.76	0.27	2.85	4.34
1000	207	3.407	2.18	14.30	1.766	1.76	0.27	2.85	4.34
1000	Open	3.407	2.18	14.30	1.006	1.76	0.27	2.85	4.34
1250	69	3.540	2.34	11.79	3.050	1.64	0.26	2.82	4.32
1250	103	3.540	2.34	11.79	2.614	1.64	0.26	2.83	4.32
1250	138	3.540	2.34	11.79	2.287	1.64	0.26	2.83	4.32
1250	207	3.540	2.34	11.79	1.898	1.64	0.26	2.83	4.32
1250	Open	3.540	2.34	11.79	1.008	1.64	0.26	2.83	4.32
1500	Open	3.660	2.48	10.16	1.010	1.54	0.25	2.81	4.31
1750	Open	3.770	2.61	9.03	1.012	1.46	0.24	2.80	4.29
2000	Open	3.873	2.73	8.18	1.014	1.39	0.24	2.79	4.28
2250	Open	3.968	2.84	7.60	1.016	1.34	0.23	2.78	4.27
2500	Open	4.059	2.95	7.10	1.025	1.29	0.22	2.75	4.26

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115 to 138 kV Shielded Single Conductor Filled X L P E or E P R 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 .0150 pf No Sun 0 Ft/s	delta Td for .0150 pf No Sun 2 Ft/s
		90°C - Copper Conductor - Concentric Strand					
750	69	495	530	401	450	10.8	9.7
750	103	511	546	414	460	10.9	9.7
750	138	521	556	422	466	10.9	9.7
750	207	531	567	430	472	10.9	9.8
1000	69	583	616	474	521	10.3	9.4
1000	103	606	639	492	535	10.3	9.5
1000	138	619	653	503	544	10.4	9.5
1000	207	634	669	515	553	10.4	9.5
1250	69	626	662	508	560	10.7	9.8
1250	103	654	691	530	584	10.8	9.8
1250	138	670	709	543	597	10.8	9.9
1250	207	688	728	558	609	10.8	9.9
1500	69	658	697	532	588	11.1	10.1
1500	103	690	731	558	616	11.1	10.2
1500	138	709	751	574	633	11.1	10.2
1500	207	730	773	591	652	11.2	10.2
1750	69	682	724	551	610	11.4	10.4
1750	103	717	761	579	641	11.4	10.4
1750	138	739	784	597	660	11.5	10.5
1750	207	763	809	616	681	11.5	10.5
2000	69	703	747	566	628	11.7	10.7
2000	103	741	787	597	662	11.7	10.7
2000	138	764	811	616	682	11.8	10.7
2000	207	790	839	637	706	11.8	10.8
2250	69	717	763	577	641	12.0	10.9
2250	103	757	805	609	676	12.0	11.0
2250	138	782	832	630	699	12.0	11.0
2250	207	810	861	652	723	12.1	11.0
2500	69	730	778	587	652	12.2	11.1
2500	103	772	822	621	690	12.3	11.2
2500	138	799	850	642	713	12.3	11.2
2500	207	828	881	665	739	12.3	11.2

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115 to 138 kV Shielded Single Conductor Filled X L P E or E P R 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	27.0	30.1	19.7	20.4
750	103	26.6	29.5	19.5	20.1
750	138	26.3	29.2	19.3	19.9
750	207	26.1	28.9	19.1	19.7
1000	69	31.4	34.3	22.9	22.4
1000	103	30.9	33.6	22.5	21.9
1000	138	30.5	33.2	22.3	21.7
1000	207	30.2	32.9	22.1	21.5
1250	69	33.1	36.2	24.1	27.8
1250	103	32.5	35.5	23.7	27.3
1250	138	32.1	35.1	23.5	22.7
1250	207	31.7	34.7	23.2	22.4
1500	69	34.4	37.7	25.0	28.9
1500	103	33.9	37.1	24.7	28.5
1500	138	33.5	36.7	24.5	28.2
1500	207	33.1	36.2	24.2	27.9
1750	69	35.5	39.1	25.9	30.0
1750	103	35.0	38.4	25.5	29.5
1750	138	34.7	38.0	25.3	29.2
1750	207	34.3	37.6	25.0	28.9
2000	69	36.6	40.3	26.6	30.9
2000	103	36.1	39.7	26.3	30.4
2000	138	35.7	39.3	26.1	30.1
2000	207	35.3	38.8	25.8	29.9
2250	69	37.5	41.3	27.2	31.6
2250	103	36.9	40.7	26.9	31.2
2250	138	36.6	40.4	26.7	30.9
2250	207	36.3	39.9	26.5	30.6
2500	69	38.3	42.3	27.8	32.3
2500	103	37.8	41.7	27.5	31.9
2500	138	37.5	41.3	27.3	31.6
2500	207	37.1	40.9	27.1	31.4

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115 to 138 kV Shielded Single Conductor Filled X L P E or E P R 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	2.00	19.20	1.386	1.488	1.93	.29	2.24	.00	1.94	1.40
750	103	3.218	7.98	2.00	19.20	1.266	1.368	1.93	.29	2.25	.00	1.95	1.40
750	138	3.218	7.98	2.00	19.20	1.201	1.302	1.93	.29	2.25	.00	1.95	1.40
750	207	3.218	7.98	2.00	19.20	1.135	1.237	1.93	.29	2.26	.00	1.95	1.40
1000	69	3.407	10.02	2.18	15.12	1.490	1.614	1.76	.27	2.02	.00	1.58	1.19
1000	103	3.407	10.02	2.18	15.12	1.338	1.463	1.76	.27	2.03	.00	1.58	1.19
1000	138	3.407	10.02	2.18	15.12	1.255	1.380	1.76	.27	2.03	.00	1.58	1.19
1000	207	3.407	10.02	2.18	15.12	1.172	1.296	1.76	.27	2.04	.00	1.59	1.19
1250	69	3.540	10.02	2.34	12.82	1.573	1.729	1.64	.26	1.95	.00	1.56	1.19
1250	103	3.540	10.02	2.34	12.82	1.395	1.551	1.64	.26	1.96	.00	1.57	1.19
1250	138	3.540	10.02	2.34	12.82	1.298	1.454	1.64	.26	1.97	.00	1.57	1.19
1250	207	3.540	10.02	2.34	12.82	1.201	1.356	1.64	.26	1.98	.00	1.57	1.19
1500	69	3.660	10.02	2.48	11.38	1.640	1.825	1.54	.25	1.90	.00	1.55	1.18
1500	103	3.660	10.02	2.48	11.38	1.442	1.626	1.54	.25	1.91	.00	1.56	1.18
1500	138	3.660	10.02	2.48	11.38	1.333	1.518	1.54	.25	1.91	.00	1.56	1.18
1500	207	3.660	10.02	2.48	11.38	1.224	1.409	1.54	.25	1.92	.00	1.56	1.19
1750	69	3.770	10.02	2.61	10.41	1.695	1.907	1.46	.24	1.85	.00	1.55	1.18
1750	103	3.770	10.02	2.61	10.41	1.479	1.691	1.46	.24	1.86	.00	1.55	1.18
1750	138	3.770	10.02	2.61	10.41	1.362	1.573	1.46	.24	1.87	.00	1.55	1.18
1750	207	3.770	10.02	2.61	10.41	1.243	1.455	1.46	.24	1.88	.00	1.56	1.18
2000	69	3.873	10.02	2.73	9.69	1.744	1.981	1.39	.24	1.81	.00	1.54	1.18
2000	103	3.873	10.02	2.73	9.69	1.513	1.749	1.39	.24	1.82	.00	1.54	1.18
2000	138	3.873	10.02	2.73	9.69	1.387	1.624	1.39	.24	1.83	.00	1.55	1.18
2000	207	3.873	10.02	2.73	9.69	1.260	1.497	1.39	.24	1.84	.00	1.55	1.18
2250	69	3.968	10.02	2.84	9.21	1.779	2.037	1.34	.23	1.78	.00	1.53	1.18
2250	103	3.968	10.02	2.84	9.21	1.536	1.795	1.34	.23	1.79	.00	1.54	1.18
2250	138	3.968	10.02	2.84	9.21	1.405	1.663	1.34	.23	1.80	.00	1.54	1.18
2250	207	3.968	10.02	2.84	9.21	1.272	1.531	1.34	.23	1.80	.00	1.54	1.18
2500	69	4.059	10.02	2.95	8.79	1.812	2.092	1.29	.22	1.75	.00	1.53	1.18
2500	103	4.059	10.02	2.95	8.79	1.559	1.839	1.29	.22	1.76	.00	1.53	1.18
2500	138	4.059	10.02	2.95	8.79	1.422	1.702	1.29	.22	1.76	.00	1.53	1.18
2500	207	4.059	10.02	2.95	8.79	1.284	1.564	1.29	.22	1.77	.00	1.54	1.18

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1536

115 to 138 kV Shielded Single Conductor Filled X L P E or E P R 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 .0150 pf & Rho 60	90	120
		90°C - Aluminum Conductor - Concentric Strand								
750	69	498	462	457	413	422	374	9.7	11.8	13.9
750	103	515	477	473	428	437	388	10.0	12.0	14.1
750	138	528	490	486	440	450	400	10.0	12.1	14.2
750	207	545	507	502	456	466	415	10.0	12.1	14.2
1000	69	558	516	509	458	467	412	10.2	12.5	14.8
1000	103	583	538	532	479	489	432	10.5	12.8	15.0
1000	138	601	555	550	495	506	447	10.5	12.8	15.1
1000	207	625	579	573	517	528	468	10.5	12.8	15.1
1000	Open	695	648	641	583	593	530	10.6	12.8	15.1
1250	69	605	557	549	492	502	441	10.6	13.1	15.5
1250	103	637	585	579	518	529	465	10.6	13.4	15.9
1250	138	661	608	601	539	550	485	11.0	13.4	15.9
1250	207	691	637	630	567	578	511	11.0	13.4	15.9
1250	Open	784	728	719	653	663	591	11.0	13.5	15.9
1500	69	644	591	581	520	529	464	11.0	13.6	16.3
1500	103	682	624	617	550	562	492	11.1	14.0	16.6
1500	138	710	651	643	575	586	515	11.4	14.0	16.6
1500	207	747	687	678	608	620	546	11.4	14.0	16.6
1500	Open	862	799	788	713	725	644	11.5	14.1	16.7
1750	69	676	619	608	542	552	483	11.4	14.1	16.9
1750	103	720	658	648	577	589	514	11.4	14.2	17.3
1750	138	753	688	679	605	617	540	11.8	14.5	17.3
1750	207	795	730	719	643	655	575	11.8	14.5	17.3
1750	Open	932	863	850	767	779	691	11.9	14.6	17.3
2000	Open	996	920	905	815	827	732	12.2	15.1	17.9
2250	Open	1049	967	950	855	866	765	12.5	15.5	18.5
2500	Open	1101	1014	995	894	904	798	12.8	15.9	19.0

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115 to 138 kV Shielded Single Conductor Filled X L P E or E P R 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 for 90°C - Aluminum Conductor - Concentric Strand							
750	69	43.4	38.2	37.5	31.7	32.8	27.1
750	103	42.4	37.2	36.7	31.1	32.2	26.6
750	138	41.5	36.6	36.1	30.6	31.8	26.4
750	207	40.5	35.8	35.2	30.1	31.2	26.0
1000	69	46.0	40.3	39.4	33.1	34.2	28.1
1000	103	45.1	39.4	38.7	32.6	33.7	27.7
1000	138	44.1	38.6	38.0	32.0	33.2	27.3
1000	207	42.9	37.7	37.1	31.4	32.5	26.9
1000	Open	39.6	35.3	34.6	29.8	30.6	25.7
1250	69	48.0	41.8	40.8	34.1	35.2	28.8
1250	103	47.1	40.8	40.2	33.5	34.7	28.4
1250	138	46.2	40.2	39.4	33.1	34.1	28.1
1250	207	44.8	39.1	38.4	32.4	33.4	27.7
1250	Open	41.1	36.4	35.6	30.6	31.4	26.4
1500	69	49.7	43.1	41.9	35.0	36.0	29.4
1500	103	48.9	42.1	41.3	34.4	35.6	29.0
1500	138	47.8	41.3	40.5	33.9	34.9	28.7
1500	207	46.4	40.4	39.5	33.2	34.3	28.2
1500	Open	42.3	37.4	36.5	31.3	32.1	26.9
1750	69	51.1	44.1	42.8	35.6	36.7	29.9
1750	103	50.3	43.3	42.2	35.1	36.2	29.4
1750	138	49.2	42.4	41.5	34.6	35.6	29.1
1750	207	47.7	41.4	40.4	33.9	34.9	28.7
1750	Open	43.4	38.3	37.4	31.9	32.7	27.4
2000	Open	44.4	39.1	38.1	32.4	33.1	27.7
2250	Open	45.2	39.7	38.6	32.9	33.5	28.1
2500	Open	46.0	40.4	39.2	33.4	33.9	28.4

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1538

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

25°C Earth Ambient

Size	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	2.00	30.02	1.731	1.93	0.29	1.25	0.24	2.03	3.30
750	103	3.218	5.05	2.00	30.02	1.531	1.93	0.29	1.25	0.24	2.11	3.30
750	138	3.218	5.05	2.00	30.02	1.424	1.93	0.29	1.25	0.24	2.11	3.30
750	207	3.218	5.05	2.00	30.02	1.298	1.93	0.29	1.26	0.24	2.11	3.30
1000	69	3.407	5.05	2.18	22.74	1.933	1.76	0.27	1.17	0.24	2.03	3.30
1000	103	3.407	5.05	2.18	22.74	1.674	1.76	0.27	1.17	0.24	2.11	3.30
1000	138	3.407	5.05	2.18	22.74	1.538	1.76	0.27	1.18	0.24	2.11	3.30
1000	207	3.407	5.05	2.18	22.74	1.377	1.76	0.27	1.18	0.24	2.11	3.30
1000	Open	3.407	5.05	2.18	22.74	1.003	1.76	0.27	1.20	0.24	2.11	3.30
1250	69	3.540	5.05	2.34	18.39	2.118	1.64	0.26	1.12	0.24	2.03	3.16
1250	103	3.540	5.05	2.34	18.39	1.805	1.64	0.26	1.12	0.24	2.11	3.30
1250	138	3.540	5.05	2.34	18.39	1.640	1.64	0.26	1.13	0.24	2.11	3.30
1250	207	3.540	5.05	2.34	18.39	1.449	1.64	0.26	1.14	0.24	2.11	3.30
1250	Open	3.540	5.05	2.34	18.39	1.004	1.64	0.26	1.16	0.24	2.11	3.30
1500	69	3.660	5.05	2.48	15.55	2.287	1.54	0.25	1.08	0.24	2.03	3.16
1500	103	3.660	5.05	2.48	15.55	1.924	1.54	0.25	1.08	0.24	2.11	3.30
1500	138	3.660	5.05	2.48	15.55	1.734	1.54	0.25	1.09	0.24	2.11	3.30
1500	207	3.660	5.05	2.48	15.55	1.513	1.54	0.25	1.09	0.24	2.11	3.30
1500	Open	3.660	5.05	2.48	15.55	1.005	1.54	0.25	1.11	0.24	2.11	3.30
1750	69	3.770	5.05	2.61	13.54	2.442	1.46	0.24	1.05	0.24	2.03	3.16
1750	103	3.770	5.05	2.61	13.54	2.097	1.46	0.24	1.05	0.24	2.03	3.30
1750	138	3.770	5.05	2.61	13.54	1.818	1.46	0.24	1.05	0.24	2.11	3.30
1750	207	3.770	5.05	2.61	13.54	1.572	1.46	0.24	1.06	0.24	2.11	3.30
1750	Open	3.770	5.05	2.61	13.54	1.006	1.46	0.24	1.08	0.24	2.11	3.30
2000	Open	3.873	5.05	2.73	12.06	1.007	1.39	0.24	1.05	0.24	2.11	3.30
2250	Open	3.968	5.05	2.84	11.02	1.008	1.34	0.23	1.02	0.24	2.11	3.30
2500	Open	4.059	5.05	2.95	10.12	1.009	1.29	0.22	1.00	0.24	2.11	3.30

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115 to 138 kV Shielded Single Conductor Filled X L P E or E P R 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 .0150 pf & Rho 60	delta Td for .0150 pf & Rho 90	delta Td for .0150 pf & Rho 120
		90°C - Aluminum Conductor - Concentric Strand								
750	69	437	389	376	326	328	280	13.7	18.0	22.4
750	103	453	404	390	339	341	291	13.7	18.0	22.4
750	138	465	415	402	349	351	300	13.7	18.0	22.4
750	207	480	429	415	362	364	311	13.7	18.0	22.4
1000	69	487	431	415	357	359	304	14.6	19.3	24.0
1000	103	509	452	435	376	376	320	14.6	19.3	24.0
1000	138	526	467	450	389	390	332	14.6	19.3	24.0
1000	207	547	487	468	406	407	347	14.6	19.3	24.0
1000	Open	602	540	519	454	453	388	14.6	19.3	24.0
1250	69	527	464	445	381	381	322	15.4	20.4	25.5
1250	103	554	489	469	403	402	340	15.4	20.4	25.5
1250	138	575	509	488	420	419	355	15.4	20.4	25.5
1250	207	601	533	511	442	440	374	15.4	20.4	25.5
1250	Open	674	602	577	502	499	427	15.4	20.5	25.5
1500	69	558	490	468	400	398	335	16.1	21.4	26.8
1500	103	591	520	496	425	423	356	16.1	21.4	26.8
1500	138	616	543	518	445	442	373	16.1	21.4	26.8
1500	207	647	572	546	470	466	395	16.1	21.5	26.8
1500	Open	737	657	627	544	538	459	16.1	21.5	26.9
1750	69	585	511	486	415	410	345	16.7	22.3	28.0
1750	103	622	545	519	443	439	369	16.7	22.4	28.0
1750	138	650	572	543	465	460	388	16.7	22.4	28.0
1750	207	686	605	575	494	488	412	16.7	22.4	28.0
1750	Open	792	705	670	580	571	486	16.8	22.4	28.1
2000	Open	841	747	707	611	599	509	17.4	23.3	29.2
2250	Open	882	782	737	636	620	527	17.9	24.0	30.2
2500	Open	921	815	766	660	641	544	18.4	24.8	31.2

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115 to 138 kV Shielded Single Conductor Filled X L P E or E P R 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 for 90°C - Aluminum Conductor - Concentric Strand							
750	69	66.6	55.3	52.4	42.4	42.8	34.4
750	103	65.5	54.5	51.6	41.9	42.3	34.0
750	138	64.6	53.9	51.3	41.6	41.9	33.9
750	207	63.5	53.2	50.5	41.3	41.6	33.6
1000	69	69.6	57.4	54.1	43.4	43.8	35.1
1000	103	68.3	56.6	53.4	43.2	43.2	34.9
1000	138	67.4	55.9	52.9	42.8	43.0	34.7
1000	207	66.3	55.2	52.0	42.4	42.5	34.5
1000	Open	62.6	53.0	49.9	41.3	41.1	33.7
1250	69	72.0	59.0	55.4	44.3	44.3	35.7
1250	103	70.6	58.1	54.6	43.9	43.8	35.3
1250	138	69.6	57.6	54.0	43.7	43.5	35.2
1250	207	68.2	56.7	53.2	43.3	43.1	35.0
1250	Open	64.4	54.2	50.9	41.9	41.6	34.2
1500	69	73.6	60.2	56.2	45.1	44.8	36.1
1500	103	72.4	59.4	55.4	44.6	44.3	35.7
1500	138	71.4	58.8	54.8	44.4	44.0	35.6
1500	207	69.9	57.9	54.1	43.9	43.4	35.4
1500	Open	65.9	55.4	51.8	42.6	42.0	34.6
1750	69	75.2	61.1	56.8	45.6	44.9	36.4
1750	103	73.9	60.3	56.2	45.2	44.6	36.1
1750	138	72.7	59.8	55.5	44.9	44.2	36.0
1750	207	71.3	58.9	54.7	44.5	43.8	35.7
1750	Open	67.0	56.3	52.4	43.2	42.3	35.0
2000	Open	68.0	57.1	52.8	43.6	42.6	35.3
2250	Open	69.0	57.9	53.3	44.1	42.7	35.6
2500	Open	69.8	58.5	53.7	44.4	42.9	35.9

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

25°C Earth Ambient

Size	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	2.00	30.02	1.595	1.93	0.29	1.20	0.24	4.00	6.34
750	103	3.218	5.05	2.00	30.02	1.452	1.93	0.29	1.20	0.24	4.00	6.34
750	138	3.218	5.05	2.00	30.02	1.354	1.93	0.29	1.21	0.24	4.00	6.34
750	207	3.218	5.05	2.00	30.02	1.245	1.93	0.29	1.21	0.24	4.00	6.34
1000	69	3.407	5.05	2.18	22.74	1.756	1.76	0.27	1.13	0.24	4.00	6.34
1000	103	3.407	5.05	2.18	22.74	1.571	1.76	0.27	1.13	0.24	4.00	6.34
1000	138	3.407	5.05	2.18	22.74	1.446	1.76	0.27	1.14	0.24	4.00	6.34
1000	207	3.407	5.05	2.18	22.74	1.308	1.76	0.27	1.14	0.24	4.00	6.34
1000	Open	3.407	5.05	2.18	22.74	1.003	1.76	0.27	1.15	0.24	4.00	6.34
1250	69	3.540	5.05	2.34	18.39	1.901	1.64	0.26	1.08	0.24	4.00	6.34
1250	103	3.540	5.05	2.34	18.39	1.678	1.64	0.26	1.09	0.24	4.00	6.34
1250	138	3.540	5.05	2.34	18.39	1.529	1.64	0.26	1.09	0.24	4.00	6.34
1250	207	3.540	5.05	2.34	18.39	1.365	1.64	0.26	1.09	0.24	4.00	6.34
1250	Open	3.540	5.05	2.34	18.39	1.004	1.64	0.26	1.11	0.24	4.00	6.34
1500	69	3.660	5.05	2.48	15.55	2.034	1.54	0.25	1.05	0.24	4.00	6.34
1500	103	3.660	5.05	2.48	15.55	1.774	1.54	0.25	1.05	0.24	4.00	6.34
1500	138	3.660	5.05	2.48	15.55	1.604	1.54	0.25	1.05	0.24	4.00	6.34
1500	207	3.660	5.05	2.48	15.55	1.415	1.54	0.25	1.06	0.24	4.00	6.34
1500	Open	3.660	5.05	2.48	15.55	1.005	1.54	0.25	1.07	0.24	4.00	6.34
1750	69	3.770	5.05	2.61	13.54	2.154	1.46	0.24	1.01	0.24	4.00	6.34
1750	103	3.770	5.05	2.61	13.54	1.861	1.46	0.24	1.02	0.24	4.00	6.34
1750	138	3.770	5.05	2.61	13.54	1.671	1.46	0.24	1.02	0.24	4.00	6.34
1750	207	3.770	5.05	2.61	13.54	1.461	1.46	0.24	1.02	0.24	4.00	6.34
1750	Open	3.770	5.05	2.61	13.54	1.006	1.46	0.24	1.04	0.24	4.00	6.34
2000	Open	3.873	5.05	2.73	12.06	1.007	1.39	0.24	1.01	0.24	4.00	6.34
2250	Open	3.968	5.05	2.84	11.02	1.009	1.34	0.23	0.98	0.24	4.00	6.34
2500	Open	4.059	5.05	2.95	10.12	1.010	1.29	0.22	0.96	0.24	4.00	6.34

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1542

115 to 138 kV Shielded Single Conductor Filled X L P E or E P R Power Cable

Direct Buried - Triplexed - Single Circuit

25°C Earth Ambient

90°C - Aluminum Conductor - Concentric Strand

		---- 60 Rho--- Interface			---- 90 Rho--- Interface			----120 Rho--- Interface			delta Td for .0150 pf & Rho		
Condr Size	Shield Res	Amps	Temp °C	Flux w/ft²	Amps	Temp °C	Flux w/ft²	Amps	Temp °C	Flux w/ft²	60	90	120
						75% LF							
750	69	625	64	35.2	545	70	27.7	484	74	22.9	8.8	11.9	15.0
750	103	633	63	34.6	553	69	27.4	492	74	22.7	8.8	11.9	15.0
750	138	638	63	34.3	558	69	27.2	497	73	22.5	8.8	11.9	15.0
750	207	643	62	34.0	563	69	27.1	501	73	22.4	8.8	11.9	15.0
1000	69	724	65	35.5	627	71	27.7	555	75	22.7	9.2	12.6	15.9
1000	103	737	64	34.8	640	71	27.3	566	75	22.4	9.2	12.6	15.9
1000	138	745	64	34.4	647	70	27.1	573	75	22.3	9.2	12.6	15.9
1000	207	752	64	34.0	654	70	26.8	580	74	22.1	9.2	12.6	15.9
1250	69	807	66	35.8	695	73	27.8	611	77	22.6	9.6	13.2	16.8
1250	103	825	66	35.1	712	72	27.3	627	76	22.3	9.6	13.2	16.8
1250	138	835	65	34.6	721	71	27.1	636	76	22.1	9.6	13.2	16.8
1250	207	845	65	34.2	732	71	26.8	646	75	22.0	9.6	13.2	16.8
1500	69	878	68	36.1	752	74	27.8	659	77	22.5	10.0	13.7	17.5
1500	103	900	67	35.2	773	73	27.3	679	77	22.2	10.0	13.7	17.5
1500	138	913	66	34.8	786	72	27.0	691	76	22.0	10.0	13.7	17.5
1500	207	927	66	34.3	799	72	26.7	703	76	21.8	10.0	13.7	17.5
1750	69	940	68	36.3	801	74	27.8	700	78	22.3	10.3	14.2	18.1
1750	103	967	68	35.4	827	74	27.3	723	77	22.0	10.3	14.2	18.1
1750	138	982	67	34.9	842	73	26.9	737	77	21.8	10.3	14.2	18.1
1750	207	999	66	34.3	858	73	26.6	752	77	21.6	10.3	14.2	18.1
2000	69	993	69	36.4	844	75	27.7	734	79	22.2	10.6	14.7	18.7
2000	103	1025	68	35.5	874	74	27.2	762	78	21.9	10.6	14.7	18.7
2000	138	1044	68	35.0	891	74	26.9	778	78	21.7	10.6	14.7	18.7
2000	207	1063	67	34.4	910	73	26.5	795	77	21.5	10.6	14.7	18.7
2250	69	1037	70	36.5	878	76	27.6	762	79	22.1	10.9	15.1	19.3
2250	103	1073	69	35.5	912	75	27.1	793	79	21.8	10.9	15.1	19.3
2250	138	1094	68	35.0	931	74	26.8	811	78	21.5	10.9	15.1	19.3
2250	207	1117	68	34.4	953	74	26.4	831	78	21.4	10.9	15.1	19.3
2500	69	1079	71	36.5	911	76	27.5	788	80	21.9	11.2	15.5	19.8
2500	103	1119	70	35.6	948	75	27.0	822	79	21.6	11.2	15.5	19.8
2500	138	1143	69	35.0	970	75	26.7	842	79	21.4	11.2	15.5	19.8
2500	207	1168	68	34.3	994	74	26.3	864	78	21.2	11.2	15.5	19.8

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115 to 138 kV Shielded Single Conductor Filled X L P E or E P R Power Cable

Direct Buried - Triplexed - Single Circuit

25°C Earth Ambient

90°C - Aluminum Conductor - Concentric Strand

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 .0150 pf & Rho 60	90	120
						100% LF							
750	69	563	69	29.3	478	75	22.4	417	78	18.1	8.8	11.9	15.0
750	103	571	68	28.9	486	74	22.2	425	78	18.0	8.8	11.9	15.0
750	138	576	68	28.8	491	74	22.1	429	78	18.0	8.8	11.9	15.0
750	207	581	67	28.6	495	74	22.0	433	77	17.9	8.8	11.9	15.0
1000	69	648	70	29.2	546	76	22.1	474	79	17.8	9.2	12.6	15.9
1000	103	661	69	28.8	558	75	21.9	485	79	17.7	9.2	12.6	15.9
1000	138	668	69	28.5	565	75	21.8	491	79	17.6	9.2	12.6	15.9
1000	207	676	69	28.3	572	75	21.6	498	78	17.5	9.2	12.6	15.9
1250	69	718	71	29.3	602	77	22.0	520	80	17.6	9.6	13.2	16.8
1250	103	735	71	28.8	618	76	21.8	534	80	17.5	9.6	13.2	16.8
1250	138	745	70	28.6	627	76	21.6	543	80	17.4	9.6	13.2	16.8
1250	207	756	70	28.3	637	76	21.5	552	79	17.3	9.6	13.2	16.8
1500	69	777	72	29.3	648	78	21.9	557	81	17.5	10.0	13.7	17.5
1500	103	799	72	28.8	668	77	21.6	576	81	17.3	10.0	13.7	17.5
1500	138	812	71	28.5	680	77	21.5	586	80	17.2	10.0	13.7	17.5
1500	207	825	71	28.2	693	76	21.3	598	80	17.1	10.0	13.7	17.5
1750	69	828	73	29.3	687	79	21.8	589	82	17.3	10.3	14.2	18.1
1750	103	855	72	28.8	712	78	21.5	611	81	17.1	10.3	14.2	18.1
1750	138	870	72	28.5	726	77	21.3	623	81	17.0	10.3	14.2	18.1
1750	207	887	71	28.1	741	77	21.1	637	80	16.9	10.3	14.2	18.1
2000	69	872	74	29.2	721	79	21.6	616	82	17.2	10.6	14.7	18.7
2000	103	903	73	28.7	749	78	21.3	641	82	17.0	10.6	14.7	18.7
2000	138	921	73	28.3	765	78	21.2	656	81	16.9	10.6	14.7	18.7
2000	207	941	72	28.0	783	78	21.0	671	81	16.8	10.6	14.7	18.7
2250	69	907	75	29.2	748	80	21.5	637	82	17.0	10.9	15.1	19.3
2250	103	942	74	28.6	779	79	21.2	664	82	16.8	10.9	15.1	19.3
2250	138	963	73	28.3	797	79	21.0	681	82	16.7	10.9	15.1	19.3
2250	207	985	73	27.9	818	78	20.8	699	81	16.6	10.9	15.1	19.3
2500	69	941	75	29.1	773	80	21.3	657	83	16.8	11.2	15.5	19.8
2500	103	980	74	28.5	807	79	21.1	687	82	16.7	11.2	15.5	19.8
2500	138	1003	74	28.2	828	79	20.9	705	82	16.6	11.2	15.5	19.8
2500	207	1028	73	27.8	850	78	20.7	725	82	16.5	11.2	15.5	19.8

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1544

115 to 138 kV Shielded Single Conductor Filled X L P E or E P R Power Cable

Direct Buried - Triplexed - Single Circuit

25°C Earth Ambient

80°C - Aluminum Conductor - Concentric Strand

		60 Rho			90 Rho			120 Rho			delta Td for .0150 pf & Rho		
		Amps	Interface Temp °C	Flux w/ft²	Amps	Interface Temp °C	Flux w/ft²	Amps	Interface Temp °C	Flux w/ft²	60	90	120
Condr Size	Shield Res												
						75% LF							
750	69	574	58	29.8	497	64	23.4	439	67	19.2	8.8	11.9	15.0
750	103	582	58	29.3	505	63	23.2	446	67	19.1	8.8	11.9	15.0
750	138	587	58	29.0	510	63	23.0	450	67	18.9	8.8	11.9	15.0
750	207	592	57	28.7	514	63	22.8	455	67	18.8	8.8	11.9	15.0
1000	69	664	60	30.0	571	65	23.4	500	68	19.0	9.2	12.6	15.9
1000	103	676	59	29.5	583	65	23.0	512	68	18.8	9.2	12.6	15.9
1000	138	684	59	29.1	590	64	22.8	518	68	18.7	9.2	12.6	15.9
1000	207	691	58	28.8	597	64	22.6	525	68	18.6	9.2	12.6	15.9
1250	69	739	61	30.3	631	66	23.4	550	69	18.9	9.6	13.2	16.8
1250	103	755	60	29.7	647	65	23.0	565	69	18.7	9.6	13.2	16.8
1250	138	765	60	29.3	656	65	22.8	573	69	18.6	9.6	13.2	16.8
1250	207	775	59	28.9	666	65	22.6	583	68	18.4	9.6	13.2	16.8
1500	69	802	62	30.5	681	67	23.4	591	70	18.8	10.0	13.7	17.5
1500	103	823	61	29.9	701	66	23.0	609	70	18.5	10.0	13.7	17.5
1500	138	836	61	29.5	713	66	22.8	620	69	18.4	10.0	13.7	17.5
1500	207	849	60	29.0	725	66	22.5	632	69	18.3	10.0	13.7	17.5
1750	69	857	63	30.7	724	68	23.4	625	71	18.7	10.3	14.2	18.1
1750	103	882	62	29.9	748	67	22.9	647	70	18.5	10.3	14.2	18.1
1750	138	898	61	29.5	762	67	22.7	661	70	18.3	10.3	14.2	18.1
1750	207	914	61	29.0	778	66	22.4	675	70	18.1	10.3	14.2	18.1
2000	69	904	63	30.8	761	68	23.3	655	71	18.6	10.6	14.7	18.7
2000	103	934	62	30.0	789	68	22.9	680	71	18.3	10.6	14.7	18.7
2000	138	952	62	29.6	805	67	22.6	695	70	18.1	10.6	14.7	18.7
2000	207	971	61	29.1	823	67	22.3	712	70	18.0	10.6	14.7	18.7
2250	69	943	64	30.8	790	69	23.2	678	72	18.4	10.9	15.1	19.3
2250	103	977	63	30.0	822	68	22.7	706	71	18.1	10.9	15.1	19.3
2250	138	997	62	29.5	840	68	22.5	723	71	18.0	10.9	15.1	19.3
2250	207	1019	62	29.1	860	67	22.2	741	70	17.8	10.9	15.1	19.3
2500	69	979	64	30.8	818	69	23.1	699	72	18.3	11.2	15.5	19.8
2500	103	1017	64	30.1	853	68	22.7	730	72	18.0	11.2	15.5	19.8
2500	138	1040	63	29.5	874	68	22.4	749	71	17.8	11.2	15.5	19.8
2500	207	1064	62	29.0	896	68	22.1	770	71	17.7	11.2	15.5	19.8

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115 to 138 kV Shielded Single Conductor Filled X L P E or E P R Power Cable

Direct Buried - Triplexed - Single Circuit

25°C Earth Ambient

80°C - Aluminum Conductor - Concentric Strand

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 .0150 pf & Rho 60	90	120
						100% LF							
750	69	517	62	25.0	436	68	19.1	378	71	15.4	8.8	11.9	15.0
750	103	525	62	24.7	444	67	18.9	385	70	15.3	8.8	11.9	15.0
750	138	530	62	24.5	448	67	18.8	389	70	15.3	8.8	11.9	15.0
750	207	534	62	24.3	453	67	18.7	393	70	15.2	8.8	11.9	15.0
1000	69	594	64	24.9	497	69	18.9	428	72	15.1	9.2	12.6	15.9
1000	103	606	63	24.5	508	68	18.7	438	71	15.0	9.2	12.6	15.9
1000	138	613	63	24.3	515	68	18.5	444	71	15.0	9.2	12.6	15.9
1000	207	621	63	24.1	522	68	18.4	451	71	14.9	9.2	12.6	15.9
1250	69	656	65	25.0	546	70	18.7	467	72	15.0	9.6	13.2	16.8
1250	103	673	64	24.5	561	69	18.5	481	72	14.9	9.6	13.2	16.8
1250	138	683	64	24.3	570	69	18.4	489	72	14.8	9.6	13.2	16.8
1250	207	693	64	24.1	580	68	18.3	498	72	14.7	9.6	13.2	16.8
1500	69	709	66	25.0	587	70	18.6	499	73	14.9	10.0	13.7	17.5
1500	103	730	65	24.5	606	70	18.4	517	73	14.7	10.0	13.7	17.5
1500	138	743	65	24.3	617	69	18.3	527	72	14.7	10.0	13.7	17.5
1500	207	756	64	24.0	629	69	18.1	537	72	14.5	10.0	13.7	17.5
1750	69	754	66	24.9	621	71	18.5	526	73	14.7	10.3	14.2	18.1
1750	103	780	66	24.5	643	70	18.3	546	73	14.6	10.3	14.2	18.1
1750	138	795	65	24.2	657	70	18.1	558	73	14.5	10.3	14.2	18.1
1750	207	811	65	23.9	671	70	18.0	571	73	14.4	10.3	14.2	18.1
2000	69	793	67	24.9	650	71	18.4	549	74	14.5	10.6	14.7	18.7
2000	103	823	66	24.4	676	71	18.1	572	73	14.4	10.6	14.7	18.7
2000	138	840	66	24.1	691	70	18.0	586	73	14.4	10.6	14.7	18.7
2000	207	859	65	23.8	708	70	17.8	601	73	14.2	10.6	14.7	18.7
2250	69	824	68	24.8	673	72	18.3	566	74	14.4	10.9	15.1	19.3
2250	103	857	67	24.3	702	71	18.0	592	74	14.3	10.9	15.1	19.3
2250	138	877	66	24.0	719	71	17.9	607	74	14.2	10.9	15.1	19.3
2250	207	898	66	23.7	738	71	17.7	624	73	14.1	10.9	15.1	19.3
2500	69	854	68	24.7	694	72	18.1	582	75	14.3	11.2	15.5	19.8
2500	103	890	67	24.3	726	72	17.9	610	74	14.2	11.2	15.5	19.8
2500	138	912	67	24.0	745	71	17.7	627	74	14.1	11.2	15.5	19.8
2500	207	936	66	23.6	767	71	17.6	646	74	14.0	11.2	15.5	19.8

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115 to 138 kV Shielded Single Conductor Filled X L P E or E P R Power Cable

Direct Buried - Triplexed - Single Circuit

25°C Earth Ambient

65°C - Aluminum Conductor - Concentric Strand

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 .0150 pf & Rho 60	90	120
						75% LF							
750	69	481	50	21.7	409	55	16.9	353	57	13.8	8.8	11.9	15.0
750	103	489	50	21.3	416	54	16.7	360	57	13.6	8.8	11.9	15.0
750	138	493	50	21.1	420	54	16.6	364	57	13.5	8.8	11.9	15.0
750	207	497	50	20.9	425	54	16.5	368	57	13.5	8.8	11.9	15.0
1000	69	554	51	21.8	467	55	16.8	399	58	13.6	9.2	12.6	15.9
1000	103	566	51	21.4	477	55	16.6	409	58	13.4	9.2	12.6	15.9
1000	138	572	51	21.1	484	55	16.5	415	58	13.3	9.2	12.6	15.9
1000	207	579	51	20.9	490	55	16.3	421	57	13.2	9.2	12.6	15.9
1250	69	614	52	22.0	513	56	16.8	435	59	13.4	9.6	13.2	16.8
1250	103	629	52	21.6	527	56	16.5	448	58	13.3	9.6	13.2	16.8
1250	138	638	52	21.3	535	56	16.4	455	58	13.2	9.6	13.2	16.8
1250	207	647	51	21.0	544	55	16.2	463	58	13.1	9.6	13.2	16.8
1500	69	664	53	22.1	551	57	16.7	464	59	13.3	10.0	13.7	17.5
1500	103	683	52	21.6	568	56	16.4	479	59	13.2	10.0	13.7	17.5
1500	138	695	52	21.3	579	56	16.3	489	59	13.0	10.0	13.7	17.5
1500	207	706	52	21.0	590	56	16.1	499	58	13.0	10.0	13.7	17.5
1750	69	707	54	22.2	582	57	16.7	487	60	13.2	10.3	14.2	18.1
1750	103	730	53	21.7	603	57	16.4	506	59	13.0	10.3	14.2	18.1
1750	138	743	53	21.4	616	57	16.2	517	59	12.9	10.3	14.2	18.1
1750	207	758	52	21.0	629	56	16.0	529	59	12.8	10.3	14.2	18.1
2000	69	744	54	22.2	609	58	16.6	506	60	13.1	10.6	14.7	18.7
2000	103	770	54	21.7	633	57	16.3	527	60	12.9	10.6	14.7	18.7
2000	138	786	53	21.4	647	57	16.2	540	59	12.7	10.6	14.7	18.7
2000	207	803	53	21.0	663	57	16.0	554	59	12.7	10.6	14.7	18.7
2250	69	773	55	22.3	630	58	16.5	520	60	12.9	10.9	15.1	19.3
2250	103	803	54	21.7	657	58	16.2	544	60	12.7	10.9	15.1	19.3
2250	138	821	54	21.4	673	57	16.0	558	60	12.6	10.9	15.1	19.3
2250	207	840	53	21.0	690	57	15.8	573	60	12.6	10.9	15.1	19.3
2500	69	801	55	22.2	649	58	16.4	533	61	12.7	11.2	15.5	19.8
2500	103	834	54	21.6	679	58	16.1	559	60	12.6	11.2	15.5	19.8
2500	138	854	54	21.3	696	58	16.0	574	60	12.5	11.2	15.5	19.8
2500	207	876	53	20.9	716	57	15.7	591	60	12.4	11.2	15.5	19.8

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115 to 138 kV Shielded Single Conductor Filled X L P E or E P R Power Cable

Direct Buried - Triplexed - Single Circuit

25°C Earth Ambient

65°C - Aluminum Conductor - Concentric Strand

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 .0150 pf & Rho 60	90	120
						100% LF							
750	69	433	53	18.4	359	57	14.1	304	59	11.4	8.8	11.9	15.0
750	103	441	53	18.2	366	57	13.9	310	59	11.3	8.8	11.9	15.0
750	138	445	53	18.0	370	57	13.8	314	59	11.2	8.8	11.9	15.0
750	207	449	53	17.9	374	56	13.8	318	59	11.1	8.8	11.9	15.0
1000	69	495	54	18.3	406	58	13.8	341	60	11.1	9.2	12.6	15.9
1000	103	506	54	18.1	416	57	13.7	350	60	11.0	9.2	12.6	15.9
1000	138	513	54	17.9	422	57	13.6	355	60	11.0	9.2	12.6	15.9
1000	207	520	53	17.7	429	57	13.6	361	59	11.0	9.2	12.6	15.9
1250	69	545	55	18.4	444	58	13.7	369	60	11.0	9.6	13.2	16.8
1250	103	560	55	18.1	457	58	13.6	381	60	10.9	9.6	13.2	16.8
1250	138	569	54	17.9	465	58	13.5	388	60	10.9	9.6	13.2	16.8
1250	207	578	54	17.7	473	58	13.5	396	60	10.8	9.6	13.2	16.8
1500	69	587	56	18.3	474	59	13.7	392	61	10.9	10.0	13.7	17.5
1500	103	606	55	18.0	491	59	13.5	406	61	10.8	10.0	13.7	17.5
1500	138	617	55	17.9	500	58	13.4	415	60	10.8	10.0	13.7	17.5
1500	207	629	55	17.7	511	58	13.3	424	60	10.7	10.0	13.7	17.5
1750	69	622	56	18.3	499	59	13.5	410	61	10.8	10.3	14.2	18.1
1750	103	645	56	18.0	519	59	13.4	426	61	10.7	10.3	14.2	18.1
1750	138	658	55	17.8	530	59	13.3	437	61	10.7	10.3	14.2	18.1
1750	207	672	55	17.6	543	59	13.2	447	61	10.6	10.3	14.2	18.1
2000	69	652	57	18.3	520	60	13.5	424	61	10.7	10.6	14.7	18.7
2000	103	678	56	18.0	542	59	13.3	443	61	10.6	10.6	14.7	18.7
2000	138	693	56	17.8	556	59	13.2	454	61	10.5	10.6	14.7	18.7
2000	207	710	55	17.5	570	59	13.1	467	61	10.5	10.6	14.7	18.7
2250	69	676	57	18.2	536	60	13.3	435	62	10.6	10.9	15.1	19.3
2250	103	704	56	17.9	560	60	13.2	455	61	10.5	10.9	15.1	19.3
2250	138	722	56	17.7	575	59	13.1	468	61	10.4	10.9	15.1	19.3
2250	207	740	56	17.5	592	59	13.0	482	61	10.4	10.9	15.1	19.3
2500	69	698	57	18.1	551	60	13.3	444	62	10.4	11.2	15.5	19.8
2500	103	729	57	17.8	577	60	13.1	466	62	10.4	11.2	15.5	19.8
2500	138	748	56	17.6	594	60	13.0	480	62	10.3	11.2	15.5	19.8
2500	207	769	56	17.4	612	59	12.9	496	61	10.3	11.2	15.5	19.8

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1548

115 to 138 kV Shielded Single Conductor Filled X L P E or E P R Power Cable

Direct Buried - Triplexed - Single Circuit

25°C Earth Ambient

50°C - Aluminum Conductor - Concentric Strand

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 .0150 pf & Rho 60	90	120
						75% LF							
750	69	354	43	13.5	285	45	10.3	228	47	8.2	8.8	11.9	15.0
750	103	360	42	13.3	290	45	10.2	232	47	8.2	8.8	11.9	15.0
750	138	364	42	13.2	294	45	10.2	235	47	8.1	8.8	11.9	15.0
750	207	367	42	13.0	297	45	10.1	238	47	8.1	8.8	11.9	15.0
1000	69	404	43	13.5	320	46	10.2	250	47	8.0	9.2	12.6	15.9
1000	103	413	43	13.3	328	46	10.0	256	47	7.9	9.2	12.6	15.9
1000	138	418	43	13.1	332	45	10.0	260	47	7.9	9.2	12.6	15.9
1000	207	424	43	13.0	337	45	9.9	264	47	7.8	9.2	12.6	15.9
1250	69	444	44	13.5	346	46	10.1	263	48	7.8	9.6	13.2	16.8
1250	103	456	43	13.3	356	46	10.0	271	48	7.8	9.6	13.2	16.8
1250	138	463	43	13.2	362	46	9.9	276	48	7.8	9.6	13.2	16.8
1250	207	470	43	13.0	368	46	9.8	282	48	7.8	9.6	13.2	16.8
1500	69	477	44	13.5	366	47	10.0	272	48	7.7	10.0	13.7	17.5
1500	103	491	44	13.3	378	46	9.9	281	48	7.6	10.0	13.7	17.5
1500	138	500	44	13.2	385	46	9.8	287	48	7.6	10.0	13.7	17.5
1500	207	509	43	13.0	394	46	9.7	294	48	7.6	10.0	13.7	17.5
1750	69	504	44	13.6	381	47	9.9	276	48	7.6	10.3	14.2	18.1
1750	103	521	44	13.3	396	47	9.8	287	48	7.5	10.3	14.2	18.1
1750	138	531	44	13.2	404	47	9.7	294	48	7.5	10.3	14.2	18.1
1750	207	543	44	13.0	414	46	9.6	301	48	7.5	10.3	14.2	18.1
2000	69	526	45	13.5	393	47	9.8	278	49	7.5	10.6	14.7	18.7
2000	103	546	44	13.3	409	47	9.7	290	48	7.4	10.6	14.7	18.7
2000	138	558	44	13.1	419	47	9.6	297	48	7.4	10.6	14.7	18.7
2000	207	571	44	12.9	430	47	9.5	305	48	7.3	10.6	14.7	18.7
2250	69	543	45	13.5	401	47	9.7	276	49	7.3	10.9	15.1	19.3
2250	103	566	45	13.2	419	47	9.6	289	49	7.3	10.9	15.1	19.3
2250	138	579	45	13.0	430	47	9.5	297	49	7.2	10.9	15.1	19.3
2250	207	594	44	12.9	442	47	9.5	306	49	7.2	10.9	15.1	19.3
2500	69	559	45	13.5	408	48	9.6	273	49	7.2	11.2	15.5	19.8
2500	103	584	45	13.2	427	47	9.5	287	49	7.2	11.2	15.5	19.8
2500	138	599	45	13.0	439	47	9.4	295	49	7.1	11.2	15.5	19.8
2500	207	615	45	12.8	452	47	9.3	304	49	7.1	11.2	15.5	19.8

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115 to 138 kV Shielded Single Conductor Filled X L P E or E P R Power Cable

Direct Buried - Triplexed - Single Circuit

25°C Earth Ambient

50°C - Aluminum Conductor - Concentric Strand

		60 Rho			90 Rho			120 Rho			delta Td for .0150 pf & Rho		
		Amps	Interface Temp °C	Flux w/ft²	Amps	Interface Temp °C	Flux w/ft²	Amps	Interface Temp °C	Flux w/ft²	60	90	120
Condr Size	Shield Res												
						100% LF							
750	69	319	44	11.7	250	46	9.0	196	48	7.3	8.8	11.9	15.0
750	103	324	44	11.6	255	46	8.9	200	48	7.2	8.8	11.9	15.0
750	138	328	44	11.5	258	46	8.8	203	48	7.2	8.8	11.9	15.0
750	207	332	44	11.4	261	46	8.8	205	48	7.2	8.8	11.9	15.0
1000	69	361	45	11.7	278	47	8.8	213	48	7.1	9.2	12.6	15.9
1000	103	370	44	11.5	286	47	8.8	219	48	7.1	9.2	12.6	15.9
1000	138	375	44	11.4	290	47	8.7	223	48	7.0	9.2	12.6	15.9
1000	207	380	44	11.4	295	46	8.7	226	48	7.0	9.2	12.6	15.9
1250	69	394	45	11.7	299	47	8.8	223	48	7.0	9.6	13.2	16.8
1250	103	406	45	11.6	308	47	8.7	231	48	6.9	9.6	13.2	16.8
1250	138	413	45	11.4	314	47	8.6	235	48	6.9	9.6	13.2	16.8
1250	207	420	45	11.4	320	47	8.6	240	48	6.9	9.6	13.2	16.8
1500	69	421	45	11.6	314	47	8.7	229	49	6.9	10.0	13.7	17.5
1500	103	435	45	11.5	326	47	8.6	238	49	6.8	10.0	13.7	17.5
1500	138	444	45	11.4	333	47	8.5	244	49	6.8	10.0	13.7	17.5
1500	207	453	45	11.3	341	47	8.5	250	48	6.8	10.0	13.7	17.5
1750	69	443	46	11.6	326	48	8.6	232	49	6.8	10.3	14.2	18.1
1750	103	460	45	11.5	340	48	8.6	242	49	6.8	10.3	14.2	18.1
1750	138	470	45	11.4	348	47	8.5	248	49	6.8	10.3	14.2	18.1
1750	207	481	45	11.2	357	47	8.4	255	49	6.8	10.3	14.2	18.1
2000	69	461	46	11.6	335	48	8.5	232	49	6.7	10.6	14.7	18.7
2000	103	480	46	11.4	350	48	8.5	243	49	6.7	10.6	14.7	18.7
2000	138	492	46	11.3	359	48	8.4	250	49	6.7	10.6	14.7	18.7
2000	207	505	45	11.2	370	48	8.4	258	49	6.7	10.6	14.7	18.7
2250	69	474	46	11.5	341	48	8.4	230	49	6.7	10.9	15.1	19.3
2250	103	496	46	11.3	357	48	8.4	242	49	6.7	10.9	15.1	19.3
2250	138	509	46	11.3	367	48	8.4	249	49	6.6	10.9	15.1	19.3
2250	207	523	46	11.2	379	48	8.3	257	49	6.6	10.9	15.1	19.3
2500	69	487	46	11.4	345	48	8.4	227	49	6.6	11.2	15.5	19.8
2500	103	510	46	11.3	363	48	8.3	239	49	6.6	11.2	15.5	19.8
2500	138	524	46	11.2	374	48	8.3	247	49	6.6	11.2	15.5	19.8
2500	207	540	46	11.1	386	48	8.2	255	49	6.5	11.2	15.5	19.8

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1550

115 to 138 kV Shielded Single Conductor Filled X L P E or E P R Power Cable

Direct Buried - Triplexed - Single Circuit

25°C Earth Ambient

Total Watts/ft for 90°C - Aluminum Conductor - Concentric Strand

		60 Rho		90 Rho		120 Rho	
		75 LF	100 LF	75 LF	100 LF	75 LF	100 LF
Condr Size	Shield Res						
750	69	47.0	39.3	37.2	30.0	30.6	24.2
750	103	46.2	38.7	36.7	29.7	30.3	24.1
750	138	45.8	38.4	36.4	29.6	30.2	24.0
750	207	45.4	38.2	36.2	29.3	29.9	23.9
1000	69	50.1	41.4	39.2	31.3	32.1	25.2
1000	103	49.2	40.8	38.7	31.0	31.7	25.0
1000	138	48.7	40.4	38.3	30.8	31.5	24.9
1000	207	48.1	40.1	38.0	30.6	31.2	24.7
1250	69	52.6	43.1	40.9	32.4	33.2	26.0
1250	103	51.6	42.4	40.2	32.0	32.8	25.7
1250	138	50.9	42.0	39.8	31.8	32.5	25.6
1250	207	50.2	41.6	39.4	31.6	32.3	25.4
1500	69	54.9	44.6	42.2	33.3	34.2	26.5
1500	103	53.6	43.8	41.5	32.9	33.7	26.3
1500	138	52.9	43.4	41.1	32.6	33.5	26.1
1500	207	52.1	42.8	40.6	32.4	33.1	26.0
1750	69	56.9	45.9	43.4	34.0	35.0	27.1
1750	103	55.5	45.1	42.7	33.7	34.5	26.9
1750	138	54.6	44.6	42.2	33.4	34.2	26.7
1750	207	53.8	44.1	41.7	33.1	33.9	26.5
2000	69	58.6	47.1	44.6	34.8	35.7	27.6
2000	103	57.2	46.2	43.8	34.3	35.3	27.3
2000	138	56.3	45.7	43.3	34.0	34.9	27.2
2000	207	55.3	45.1	42.7	33.7	34.5	27.0
2250	69	60.2	48.0	45.5	35.4	36.4	28.0
2250	103	58.6	47.1	44.7	34.9	35.9	27.7
2250	138	57.7	46.6	44.1	34.6	35.5	27.6
2250	207	56.7	46.0	43.6	34.4	35.2	27.4
2500	69	61.7	49.0	46.5	36.0	37.0	28.4
2500	103	60.0	48.1	45.6	35.5	36.5	28.1
2500	138	59.0	47.5	45.0	35.2	36.1	27.9
2500	207	57.9	46.9	44.4	34.8	35.7	27.8

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115 to 138 kV Shielded Single Conductor Filled X L P E or E P R Power Cable

Direct Buried - Triplexed - Single Circuit

25°C Earth Ambient

Total Watts/ft for 80°C - Aluminum Conductor - Concentric Strand

		60 Rho		90 Rho		120 Rho	
		75 LF	100 LF	75 LF	100 LF	75 LF	100 LF
Condr Size	Shield Res						
750	69	39.8	33.4	31.3	25.5	25.8	20.7
750	103	39.1	33.0	31.0	25.3	25.5	20.5
750	138	38.8	32.8	30.8	25.1	25.3	20.4
750	207	38.5	32.4	30.5	25.0	25.2	20.3
1000	69	42.5	35.3	33.1	26.7	26.9	21.5
1000	103	41.6	34.7	32.6	26.3	26.6	21.2
1000	138	41.2	34.4	32.3	26.2	26.4	21.1
1000	207	40.7	34.1	32.0	26.0	26.3	21.1
1250	69	44.7	36.7	34.5	27.6	27.9	22.0
1250	103	43.6	36.1	33.9	27.2	27.5	21.9
1250	138	43.1	35.8	33.5	27.0	27.3	21.8
1250	207	42.5	35.4	33.2	26.9	27.1	21.7
1500	69	46.4	37.9	35.6	28.3	28.6	22.5
1500	103	45.4	37.3	35.0	28.0	28.2	22.4
1500	138	44.8	36.9	34.6	27.8	28.0	22.3
1500	207	44.1	36.5	34.2	27.6	27.8	22.1
1750	69	48.1	39.0	36.6	29.0	29.3	23.0
1750	103	46.9	38.4	35.9	28.6	28.8	22.8
1750	138	46.3	38.0	35.5	28.4	28.7	22.7
1750	207	45.5	37.5	35.1	28.1	28.4	22.5
2000	69	49.5	40.0	37.5	29.6	29.9	23.4
2000	103	48.3	39.3	36.8	29.2	29.4	23.2
2000	138	47.5	38.8	36.3	28.9	29.2	23.1
2000	207	46.7	38.4	35.9	28.7	28.9	23.0
2250	69	50.8	40.8	38.2	30.1	30.4	23.8
2250	103	49.5	40.1	37.6	29.7	29.9	23.6
2250	138	48.7	39.6	37.1	29.4	29.7	23.4
2250	207	47.9	39.1	36.6	29.2	29.3	23.3
2500	69	52.0	41.7	39.0	30.5	30.8	24.1
2500	103	50.6	40.9	38.2	30.1	30.4	23.9
2500	138	49.8	40.4	37.8	29.9	30.1	23.7
2500	207	48.9	39.9	37.3	29.7	29.8	23.6

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115 to 138 kV Shielded Single Conductor Filled X L P E or E P R Power Cable

Direct Buried - Triplexed - Single Circuit

25°C Earth Ambient

Total Watts/ft for 65°C - Aluminum Conductor - Concentric Strand

		60 Rho		90 Rho		120 Rho	
		75 LF	100 LF	75 LF	100 LF	75 LF	100 LF
Condr Size	Shield Res						
750	69	28.9	24.6	22.6	18.8	18.3	15.1
750	103	28.5	24.3	22.3	18.6	18.2	15.0
750	138	28.2	24.1	22.1	18.5	18.1	15.0
750	207	27.9	23.9	22.0	18.4	18.0	15.0
1000	69	30.8	25.9	23.8	19.6	19.1	15.7
1000	103	30.3	25.5	23.4	19.4	18.9	15.6
1000	138	29.9	25.4	23.3	19.3	18.9	15.5
1000	207	29.6	25.1	23.0	19.2	18.7	15.5
1250	69	32.4	27.0	24.7	20.3	19.7	16.2
1250	103	31.7	26.6	24.3	20.0	19.5	16.1
1250	138	31.3	26.3	24.1	19.9	19.4	16.0
1250	207	30.8	26.0	23.9	19.7	19.2	15.9
1500	69	33.6	27.9	25.5	20.8	20.2	16.6
1500	103	32.9	27.5	25.0	20.6	20.0	16.4
1500	138	32.5	27.2	24.8	20.4	19.8	16.4
1500	207	31.9	26.9	24.6	20.3	19.7	16.3
1750	69	34.8	28.7	26.1	21.2	20.6	16.9
1750	103	34.0	28.2	25.7	21.0	20.4	16.7
1750	138	33.4	27.9	25.4	20.9	20.2	16.7
1750	207	33.0	27.6	25.1	20.7	20.1	16.6
2000	69	35.8	29.4	26.7	21.7	21.0	17.2
2000	103	34.9	28.9	26.2	21.4	20.7	17.0
2000	138	34.4	28.6	25.9	21.3	20.6	16.9
2000	207	33.8	28.2	25.7	21.1	20.4	16.9
2250	69	36.6	30.0	27.2	22.0	21.2	17.4
2250	103	35.8	29.5	26.8	21.8	21.0	17.3
2250	138	35.2	29.2	26.5	21.6	20.8	17.2
2250	207	34.6	28.8	26.1	21.5	20.7	17.1
2500	69	37.5	30.6	27.6	22.4	21.5	17.6
2500	103	36.5	30.0	27.2	22.1	21.3	17.5
2500	138	36.0	29.7	26.9	22.0	21.1	17.4
2500	207	35.4	29.3	26.6	21.8	20.9	17.3

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115 to 138 kV Shielded Single Conductor Filled X L P E or E P R Power Cable

Direct Buried - Triplexed - Single Circuit

25°C Earth Ambient

Total Watts/ft for 50°C - Aluminum Conductor - Concentric Strand

		60 Rho		90 Rho		120 Rho	
		75 LF	100 LF	75 LF	100 LF	75 LF	100 LF
Condr Size	Shield Res						
750	69	18.0	15.7	13.8	12.0	11.0	9.7
750	103	17.7	15.5	13.6	11.9	10.9	9.6
750	138	17.6	15.5	13.6	11.8	10.8	9.6
750	207	17.4	15.4	13.5	11.8	10.8	9.6
1000	69	19.1	16.5	14.4	12.5	11.3	10.0
1000	103	18.8	16.4	14.2	12.4	11.2	10.0
1000	138	18.6	16.2	14.1	12.3	11.2	10.0
1000	207	18.4	16.1	14.0	12.3	11.1	9.9
1250	69	19.9	17.2	14.9	12.9	11.5	10.3
1250	103	19.6	17.0	14.7	12.7	11.5	10.2
1250	138	19.4	16.8	14.6	12.7	11.4	10.2
1250	207	19.1	16.7	14.4	12.6	11.4	10.2
1500	69	20.7	17.7	15.2	13.2	11.7	10.5
1500	103	20.2	17.5	15.0	13.1	11.6	10.4
1500	138	20.0	17.4	14.9	13.0	11.6	10.4
1500	207	19.7	17.2	14.8	13.0	11.5	10.4
1750	69	21.3	18.2	15.5	13.5	11.9	10.7
1750	103	20.8	18.0	15.3	13.4	11.8	10.6
1750	138	20.6	17.8	15.2	13.3	11.7	10.6
1750	207	20.3	17.6	15.1	13.2	11.7	10.6
2000	69	21.8	18.6	15.8	13.7	12.0	10.8
2000	103	21.4	18.4	15.6	13.6	11.9	10.8
2000	138	21.1	18.2	15.5	13.5	11.8	10.8
2000	207	20.8	18.0	15.3	13.5	11.8	10.8
2250	69	22.2	19.0	16.0	13.9	12.1	11.0
2250	103	21.8	18.7	15.8	13.8	12.0	11.0
2250	138	21.5	18.6	15.7	13.7	11.9	10.9
2250	207	21.2	18.4	15.6	13.7	11.9	10.9
2500	69	22.7	19.3	16.2	14.1	12.1	11.1
2500	103	22.2	19.1	16.0	14.0	12.1	11.1
2500	138	22.0	18.9	15.9	14.0	12.0	11.1
2500	207	21.6	18.7	15.7	13.9	12.0	11.0

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115 to 138 kV Shielded Single Conductor Filled X L P E or E P R Power Cable

Direct Buried - Triplexed - Single Circuit

25°C Earth Ambient

Size	Res	OD	Wd	Rac	Qs	Ri	Rj	Re @ 90 Rho & loss factor 75%	100%
				90°C - Aluminum Conductor - Concentric Strand					
750	69	3.218	2.00	30.05	1.164	1.93	0.29	3.18	4.71
750	103	3.218	2.00	30.05	1.113	1.93	0.29	3.18	4.71
750	138	3.218	2.00	30.05	1.085	1.93	0.29	3.18	4.71
750	207	3.218	2.00	30.05	1.057	1.93	0.29	3.18	4.71
1000	69	3.407	2.18	22.78	1.216	1.76	0.27	3.10	4.63
1000	103	3.407	2.18	22.78	1.149	1.76	0.27	3.10	4.63
1000	138	3.407	2.18	22.78	1.112	1.76	0.27	3.10	4.63
1000	207	3.407	2.18	22.78	1.075	1.76	0.27	3.10	4.63
1250	69	3.540	2.34	18.47	1.265	1.64	0.26	3.04	4.57
1250	103	3.540	2.34	18.47	1.182	1.64	0.26	3.04	4.57
1250	138	3.540	2.34	18.47	1.137	1.64	0.26	3.04	4.57
1250	207	3.540	2.34	18.47	1.092	1.64	0.26	3.04	4.57
1500	69	3.660	2.48	15.64	1.311	1.54	0.25	2.99	4.53
1500	103	3.660	2.48	15.64	1.214	1.54	0.25	2.99	4.53
1500	138	3.660	2.48	15.64	1.161	1.54	0.25	2.99	4.53
1500	207	3.660	2.48	15.64	1.108	1.54	0.25	2.99	4.53
1750	69	3.770	2.61	13.67	1.354	1.46	0.24	2.95	4.48
1750	103	3.770	2.61	13.67	1.244	1.46	0.24	2.95	4.48
1750	138	3.770	2.61	13.67	1.184	1.46	0.24	2.95	4.48
1750	207	3.770	2.61	13.67	1.123	1.46	0.24	2.95	4.48
2000	69	3.873	2.73	12.22	1.395	1.39	0.24	2.91	4.45
2000	103	3.873	2.73	12.22	1.272	1.39	0.24	2.91	4.45
2000	138	3.873	2.73	12.22	1.205	1.39	0.24	2.91	4.45
2000	207	3.873	2.73	12.22	1.137	1.39	0.24	2.91	4.45
2250	69	3.968	2.84	11.20	1.429	1.34	0.23	2.88	4.41
2250	103	3.968	2.84	11.20	1.295	1.34	0.23	2.88	4.41
2250	138	3.968	2.84	11.20	1.222	1.34	0.23	2.88	4.41
2250	207	3.968	2.84	11.20	1.149	1.34	0.23	2.88	4.41
2500	69	4.059	2.95	10.33	1.464	1.29	0.22	2.85	4.38
2500	103	4.059	2.95	10.33	1.319	1.29	0.22	2.85	4.38
2500	138	4.059	2.95	10.33	1.240	1.29	0.22	2.85	4.38
2500	207	4.059	2.95	10.33	1.161	1.29	0.22	2.85	4.38

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115 to 138 kV Shielded Single Conductor Filled X L P E or E P R Power Cable

Direct Buried - Triplexed - Single Circuit

25°C Earth Ambient

Size	Res	OD	Wd	Rac	Qs	Ri	Rj	Re @ 90 Rho & loss factor 75%	100%
			80°C - Aluminum Conductor - Concentric Strand						
750	69	3.218	2.00	30.05	1.164	1.93	0.29	3.18	4.71
750	103	3.218	2.00	30.05	1.113	1.93	0.29	3.18	4.71
750	138	3.218	2.00	30.05	1.085	1.93	0.29	3.18	4.71
750	207	3.218	2.00	30.05	1.057	1.93	0.29	3.18	4.71
1000	69	3.407	2.18	22.78	1.216	1.76	0.27	3.10	4.63
1000	103	3.407	2.18	22.78	1.149	1.76	0.27	3.10	4.63
1000	138	3.407	2.18	22.78	1.112	1.76	0.27	3.10	4.63
1000	207	3.407	2.18	22.78	1.075	1.76	0.27	3.10	4.63
1250	69	3.540	2.34	18.47	1.265	1.64	0.26	3.04	4.57
1250	103	3.540	2.34	18.47	1.182	1.64	0.26	3.04	4.57
1250	138	3.540	2.34	18.47	1.137	1.64	0.26	3.04	4.57
1250	207	3.540	2.34	18.47	1.092	1.64	0.26	3.04	4.57
1500	69	3.660	2.48	15.64	1.311	1.54	0.25	2.99	4.53
1500	103	3.660	2.48	15.64	1.214	1.54	0.25	2.99	4.53
1500	138	3.660	2.48	15.64	1.161	1.54	0.25	2.99	4.53
1500	207	3.660	2.48	15.64	1.108	1.54	0.25	2.99	4.53
1750	69	3.770	2.61	13.67	1.354	1.46	0.24	2.95	4.48
1750	103	3.770	2.61	13.67	1.244	1.46	0.24	2.95	4.48
1750	138	3.770	2.61	13.67	1.184	1.46	0.24	2.95	4.48
1750	207	3.770	2.61	13.67	1.123	1.46	0.24	2.95	4.48
2000	69	3.873	2.73	12.22	1.395	1.39	0.24	2.91	4.45
2000	103	3.873	2.73	12.22	1.272	1.39	0.24	2.91	4.45
2000	138	3.873	2.73	12.22	1.205	1.39	0.24	2.91	4.45
2000	207	3.873	2.73	12.22	1.137	1.39	0.24	2.91	4.45
2250	69	3.968	2.84	11.20	1.429	1.34	0.23	2.88	4.41
2250	103	3.968	2.84	11.20	1.295	1.34	0.23	2.88	4.41
2250	138	3.968	2.84	11.20	1.222	1.34	0.23	2.88	4.41
2250	207	3.968	2.84	11.20	1.149	1.34	0.23	2.88	4.41
2500	69	4.059	2.95	10.33	1.464	1.29	0.22	2.85	4.38
2500	103	4.059	2.95	10.33	1.319	1.29	0.22	2.85	4.38
2500	138	4.059	2.95	10.33	1.240	1.29	0.22	2.85	4.38
2500	207	4.059	2.95	10.33	1.161	1.29	0.22	2.85	4.38

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115 to 138 kV Shielded Single Conductor Filled X L P E or E P R Power Cable

Direct Buried - Triplexed - Single Circuit

25°C Earth Ambient

Size	Res	OD	Wd	Rac	Qs	Ri	Rj	Re @ 90 Rho & loss factor 75%	100%
65°C - Aluminum Conductor - Concentric Strand									
750	69	3.218	2.00	30.05	1.164	1.93	0.29	3.18	4.71
750	103	3.218	2.00	30.05	1.113	1.93	0.29	3.18	4.71
750	138	3.218	2.00	30.05	1.085	1.93	0.29	3.18	4.71
750	207	3.218	2.00	30.05	1.057	1.93	0.29	3.18	4.71
1000	69	3.407	2.18	22.78	1.216	1.76	0.27	3.10	4.63
1000	103	3.407	2.18	22.78	1.149	1.76	0.27	3.10	4.63
1000	138	3.407	2.18	22.78	1.112	1.76	0.27	3.10	4.63
1000	207	3.407	2.18	22.78	1.075	1.76	0.27	3.10	4.63
1250	69	3.540	2.34	18.47	1.265	1.64	0.26	3.04	4.57
1250	103	3.540	2.34	18.47	1.182	1.64	0.26	3.04	4.57
1250	138	3.540	2.34	18.47	1.137	1.64	0.26	3.04	4.57
1250	207	3.540	2.34	18.47	1.092	1.64	0.26	3.04	4.57
1500	69	3.660	2.48	15.64	1.311	1.54	0.25	2.99	4.53
1500	103	3.660	2.48	15.64	1.214	1.54	0.25	2.99	4.53
1500	138	3.660	2.48	15.64	1.161	1.54	0.25	2.99	4.53
1500	207	3.660	2.48	15.64	1.108	1.54	0.25	2.99	4.53
1750	69	3.770	2.61	13.67	1.354	1.46	0.24	2.95	4.48
1750	103	3.770	2.61	13.67	1.244	1.46	0.24	2.95	4.48
1750	138	3.770	2.61	13.67	1.184	1.46	0.24	2.95	4.48
1750	207	3.770	2.61	13.67	1.123	1.46	0.24	2.95	4.48
2000	69	3.873	2.73	12.22	1.395	1.39	0.24	2.91	4.45
2000	103	3.873	2.73	12.22	1.272	1.39	0.24	2.91	4.45
2000	138	3.873	2.73	12.22	1.205	1.39	0.24	2.91	4.45
2000	207	3.873	2.73	12.22	1.137	1.39	0.24	2.91	4.45
2250	69	3.968	2.84	11.20	1.429	1.34	0.23	2.88	4.41
2250	103	3.968	2.84	11.20	1.295	1.34	0.23	2.88	4.41
2250	138	3.968	2.84	11.20	1.222	1.34	0.23	2.88	4.41
2250	207	3.968	2.84	11.20	1.149	1.34	0.23	2.88	4.41
2500	69	4.059	2.95	10.33	1.464	1.29	0.22	2.85	4.38
2500	103	4.059	2.95	10.33	1.319	1.29	0.22	2.85	4.38
2500	138	4.059	2.95	10.33	1.240	1.29	0.22	2.85	4.38
2500	207	4.059	2.95	10.33	1.161	1.29	0.22	2.85	4.38

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115 to 138 kV Shielded Single Conductor Filled X L P E or E P R Power Cable

Direct Buried - Triplexed - Single Circuit

25°C Earth Ambient

Size	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	2.00	30.05	1.164	1.93	0.29	3.18	4.71
750	103	3.218	2.00	30.05	1.113	1.93	0.29	3.18	4.71
750	138	3.218	2.00	30.05	1.085	1.93	0.29	3.18	4.71
750	207	3.218	2.00	30.05	1.057	1.93	0.29	3.18	4.71
1000	69	3.407	2.18	22.78	1.216	1.76	0.27	3.10	4.63
1000	103	3.407	2.18	22.78	1.149	1.76	0.27	3.10	4.63
1000	138	3.407	2.18	22.78	1.112	1.76	0.27	3.10	4.63
1000	207	3.407	2.18	22.78	1.075	1.76	0.27	3.10	4.63
1250	69	3.540	2.34	18.47	1.265	1.64	0.26	3.04	4.57
1250	103	3.540	2.34	18.47	1.182	1.64	0.26	3.04	4.57
1250	138	3.540	2.34	18.47	1.137	1.64	0.26	3.04	4.57
1250	207	3.540	2.34	18.47	1.092	1.64	0.26	3.04	4.57
1500	69	3.660	2.48	15.64	1.311	1.54	0.25	2.99	4.53
1500	103	3.660	2.48	15.64	1.214	1.54	0.25	2.99	4.53
1500	138	3.660	2.48	15.64	1.161	1.54	0.25	2.99	4.53
1500	207	3.660	2.48	15.64	1.108	1.54	0.25	2.99	4.53
1750	69	3.770	2.61	13.67	1.354	1.46	0.24	2.95	4.48
1750	103	3.770	2.61	13.67	1.244	1.46	0.24	2.95	4.48
1750	138	3.770	2.61	13.67	1.184	1.46	0.24	2.95	4.48
1750	207	3.770	2.61	13.67	1.123	1.46	0.24	2.95	4.48
2000	69	3.873	2.73	12.22	1.395	1.39	0.24	2.91	4.45
2000	103	3.873	2.73	12.22	1.272	1.39	0.24	2.91	4.45
2000	138	3.873	2.73	12.22	1.205	1.39	0.24	2.91	4.45
2000	207	3.873	2.73	12.22	1.137	1.39	0.24	2.91	4.45
2250	69	3.968	2.84	11.20	1.429	1.34	0.23	2.88	4.41
2250	103	3.968	2.84	11.20	1.295	1.34	0.23	2.88	4.41
2250	138	3.968	2.84	11.20	1.222	1.34	0.23	2.88	4.41
2250	207	3.968	2.84	11.20	1.149	1.34	0.23	2.88	4.41
2500	69	4.059	2.95	10.33	1.464	1.29	0.22	2.85	4.38
2500	103	4.059	2.95	10.33	1.319	1.29	0.22	2.85	4.38
2500	138	4.059	2.95	10.33	1.240	1.29	0.22	2.85	4.38
2500	207	4.059	2.95	10.33	1.161	1.29	0.22	2.85	4.38

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115 to 138 kV Shielded Single Conductor Filled X L P E or E P R Power Cable

Direct Buried - Triplexed - Double Circuit

25°C Earth Ambient

90°C - Aluminum Conductor - Concentric Strand

		---- 60 Rho---			---- 90 Rho---			----120 Rho---			delta Td for .0150 pf & Rho		
			Interface			Interface			Interface				
		Amps	Temp °C	Flux w/ft²	Amps	Temp °C	Flux w/ft²	Amps	Temp °C	Flux w/ft²	60	90	120
Condr Size	Shield Res					75% LF							
750	69	541	70	27.4	453	76	20.6	388	80	16.3	12.1	17.0	21.8
750	103	549	70	27.1	461	76	20.4	395	80	16.2	12.1	17.0	21.8
750	138	554	69	26.9	465	76	20.3	399	79	16.2	12.1	17.0	21.8
750	207	558	69	26.7	469	75	20.2	403	79	16.1	12.1	17.0	21.8
1000	69	620	72	27.2	515	77	20.1	437	81	15.8	12.9	18.1	23.3
1000	103	633	71	26.8	526	77	20.0	448	81	15.8	12.9	18.1	23.3
1000	138	640	71	26.6	533	77	19.9	453	80	15.7	12.9	18.1	23.3
1000	207	647	71	26.4	539	76	19.7	460	80	15.6	12.9	18.1	23.3
1250	69	685	73	27.1	564	79	19.9	476	82	15.6	13.6	19.1	24.7
1250	103	702	72	26.7	579	78	19.7	489	81	15.4	13.6	19.1	24.7
1250	138	711	72	26.4	588	78	19.6	497	81	15.4	13.6	19.1	24.7
1250	207	721	72	26.2	597	77	19.4	505	81	15.2	13.6	19.1	24.7
1500	69	739	74	27.0	604	79	19.7	506	83	15.3	14.2	20.0	25.9
1500	103	761	73	26.6	623	79	19.5	523	82	15.1	14.2	20.0	25.9
1500	138	773	73	26.3	634	79	19.3	532	82	15.1	14.2	20.0	25.9
1500	207	786	73	26.0	646	78	19.1	543	82	15.0	14.2	20.0	25.9
1750	69	786	75	26.9	638	80	19.5	531	83	15.0	14.8	20.9	27.0
1750	103	811	74	26.4	661	80	19.2	551	83	14.9	14.8	20.9	27.0
1750	138	826	74	26.1	674	79	19.1	562	83	14.8	14.8	20.9	27.0
1750	207	842	73	25.9	688	79	18.9	574	82	14.7	14.8	20.9	27.0
2000	69	825	76	26.7	667	81	19.2	551	84	14.7	15.3	21.6	28.0
2000	103	855	75	26.2	692	80	19.0	574	83	14.6	15.3	21.6	28.0
2000	138	872	74	26.0	708	80	18.8	587	83	14.5	15.3	21.6	28.0
2000	207	891	74	25.6	724	79	18.6	601	83	14.5	15.3	21.6	28.0
2250	69	857	76	26.6	689	81	19.0	566	84	14.5	15.7	22.3	28.9
2250	103	890	76	26.1	717	81	18.7	591	84	14.4	15.7	22.3	28.9
2250	138	909	75	25.8	734	80	18.6	606	83	14.3	15.7	22.3	28.9
2250	207	930	75	25.4	753	80	18.4	622	83	14.2	15.7	22.3	28.9
2500	69	886	77	26.4	709	82	18.7	580	84	14.3	16.2	23.0	29.8
2500	103	923	76	25.9	741	81	18.5	607	84	14.2	16.2	23.0	29.8
2500	138	945	76	25.6	759	81	18.4	623	84	14.1	16.2	23.0	29.8
2500	207	968	75	25.3	780	80	18.2	641	83	14.0	16.2	23.0	29.8

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115 to 138 kV Shielded Single Conductor Filled X L P E or E P R Power Cable

Direct Buried - Triplexed - Double Circuit

25°C Earth Ambient

90°C - Aluminum Conductor - Concentric Strand

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 .0150 pf & Rho 60	90	120
						100% LF							
750	69	472	75	22.0	386	80	16.2	326	83	12.9	12.1	17.0	21.8
750	103	480	74	21.8	394	80	16.1	332	83	12.8	12.1	17.0	21.8
750	138	485	74	21.7	398	79	16.1	336	82	12.7	12.1	17.0	21.8
750	207	490	74	21.5	402	79	16.0	340	82	12.7	12.1	17.0	21.8
1000	69	538	76	21.6	436	81	15.8	365	84	12.4	12.9	18.1	23.3
1000	103	550	76	21.4	447	81	15.7	374	83	12.4	12.9	18.1	23.3
1000	138	557	76	21.3	453	80	15.6	380	83	12.4	12.9	18.1	23.3
1000	207	564	75	21.1	459	80	15.5	385	83	12.3	12.9	18.1	23.3
1250	69	591	77	21.4	476	82	15.6	395	84	12.2	13.6	19.1	24.7
1250	103	607	77	21.2	490	81	15.4	407	84	12.2	13.6	19.1	24.7
1250	138	616	77	21.0	498	81	15.4	414	84	12.1	13.6	19.1	24.7
1250	207	626	76	20.9	506	81	15.3	421	84	12.1	13.6	19.1	24.7
1500	69	635	78	21.2	508	83	15.3	419	85	12.0	14.2	20.0	25.9
1500	103	655	78	21.0	525	82	15.2	434	85	12.0	14.2	20.0	25.9
1500	138	667	77	20.8	535	82	15.1	442	84	11.9	14.2	20.0	25.9
1500	207	679	77	20.6	546	82	15.1	451	84	11.8	14.2	20.0	25.9
1750	69	672	79	21.0	534	83	15.1	438	85	11.8	14.8	20.9	27.0
1750	103	696	78	20.7	554	83	15.0	455	85	11.7	14.8	20.9	27.0
1750	138	710	78	20.6	566	82	14.9	465	85	11.7	14.8	20.9	27.0
1750	207	725	78	20.4	579	82	14.9	476	85	11.7	14.8	20.9	27.0
2000	69	704	80	20.8	556	84	14.9	454	86	11.6	15.3	21.6	28.0
2000	103	731	79	20.6	579	83	14.8	473	85	11.6	15.3	21.6	28.0
2000	138	747	79	20.4	593	83	14.7	484	85	11.6	15.3	21.6	28.0
2000	207	765	78	20.3	608	83	14.7	497	85	11.5	15.3	21.6	28.0
2250	69	728	80	20.6	573	84	14.7	465	86	11.5	15.7	22.3	28.9
2250	103	759	80	20.4	598	84	14.6	486	86	11.4	15.7	22.3	28.9
2250	138	777	79	20.2	614	83	14.6	499	86	11.3	15.7	22.3	28.9
2250	207	797	79	20.0	630	83	14.5	513	85	11.3	15.7	22.3	28.9
2500	69	752	81	20.5	588	84	14.5	475	86	11.3	16.2	23.0	29.8
2500	103	785	80	20.2	616	84	14.5	498	86	11.3	16.2	23.0	29.8
2500	138	805	80	20.0	633	84	14.3	512	86	11.2	16.2	23.0	29.8
2500	207	827	79	19.9	651	83	14.3	527	86	11.1	16.2	23.0	29.8

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1560

115 to 138 kV Shielded Single Conductor Filled X L P E or E P R Power Cable

Direct Buried - Triplexed - Double Circuit

25°C Earth Ambient

80°C - Aluminum Conductor - Concentric Strand

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 .0150 pf & Rho 60	90	120
						75% LF							
750	69	493	64	23.1	408	69	17.3	345	72	13.6	12.1	17.0	21.8
750	103	501	64	22.9	415	69	17.1	351	72	13.5	12.1	17.0	21.8
750	138	505	63	22.7	419	69	17.1	355	72	13.5	12.1	17.0	21.8
750	207	510	63	22.5	424	68	16.9	359	72	13.4	12.1	17.0	21.8
1000	69	564	65	22.9	462	70	16.9	386	73	13.1	12.9	18.1	23.3
1000	103	576	65	22.6	472	70	16.7	395	73	13.1	12.9	18.1	23.3
1000	138	583	65	22.4	478	70	16.6	400	73	13.0	12.9	18.1	23.3
1000	207	590	64	22.2	485	69	16.5	406	73	12.9	12.9	18.1	23.3
1250	69	621	66	22.8	504	71	16.7	416	74	12.9	13.6	19.1	24.7
1250	103	637	66	22.5	518	71	16.5	429	74	12.8	13.6	19.1	24.7
1250	138	646	66	22.3	526	70	16.4	436	73	12.7	13.6	19.1	24.7
1250	207	656	65	22.0	535	70	16.2	444	73	12.6	13.6	19.1	24.7
1500	69	669	67	22.8	538	72	16.4	441	75	12.6	14.2	20.0	25.9
1500	103	689	67	22.4	555	71	16.2	456	74	12.6	14.2	20.0	25.9
1500	138	700	66	22.1	565	71	16.1	465	74	12.5	14.2	20.0	25.9
1500	207	713	66	21.9	576	71	16.0	474	74	12.4	14.2	20.0	25.9
1750	69	709	68	22.6	566	72	16.2	459	75	12.4	14.8	20.9	27.0
1750	103	733	67	22.2	586	72	16.0	477	75	12.3	14.8	20.9	27.0
1750	138	747	67	22.0	599	72	15.9	488	75	12.3	14.8	20.9	27.0
1750	207	762	67	21.7	612	71	15.8	499	74	12.2	14.8	20.9	27.0
2000	69	743	69	22.4	589	73	16.0	474	75	12.2	15.3	21.6	28.0
2000	103	770	68	22.1	612	72	15.8	494	75	12.1	15.3	21.6	28.0
2000	138	787	68	21.8	626	72	15.7	506	75	12.0	15.3	21.6	28.0
2000	207	804	67	21.6	642	72	15.5	519	75	11.9	15.3	21.6	28.0
2250	69	770	69	22.3	606	73	15.8	484	76	11.9	15.7	22.3	28.9
2250	103	800	69	21.9	632	73	15.6	506	75	11.8	15.7	22.3	28.9
2250	138	819	68	21.7	648	73	15.5	519	75	11.8	15.7	22.3	28.9
2250	207	839	68	21.4	665	72	15.3	534	75	11.7	15.7	22.3	28.9
2500	69	795	70	22.1	622	74	15.6	493	76	11.7	16.2	23.0	29.8
2500	103	829	69	21.7	651	73	15.4	517	76	11.6	16.2	23.0	29.8
2500	138	849	69	21.5	668	73	15.3	531	76	11.6	16.2	23.0	29.8
2500	207	871	68	21.2	687	73	15.2	547	75	11.5	16.2	23.0	29.8

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115 to 138 kV Shielded Single Conductor Filled X L P E or E P R Power Cable

Direct Buried - Triplexed - Double Circuit

25°C Earth Ambient

80°C - Aluminum Conductor - Concentric Strand

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 .0150 pf & Rho 60	90	120
						100% LF							
750	69	430	68	18.7	348	72	13.8	289	75	10.9	12.1	17.0	21.8
750	103	438	67	18.5	355	72	13.7	295	74	10.8	12.1	17.0	21.8
750	138	443	67	18.5	359	72	13.7	299	74	10.8	12.1	17.0	21.8
750	207	447	67	18.3	363	72	13.6	302	74	10.8	12.1	17.0	21.8
1000	69	489	69	18.4	391	73	13.4	322	75	10.6	12.9	18.1	23.3
1000	103	500	69	18.2	401	73	13.4	330	75	10.5	12.9	18.1	23.3
1000	138	507	68	18.1	407	73	13.3	335	75	10.5	12.9	18.1	23.3
1000	207	514	68	17.9	413	72	13.2	340	75	10.5	12.9	18.1	23.3
1250	69	536	70	18.2	425	74	13.2	346	76	10.4	13.6	19.1	24.7
1250	103	551	69	18.0	438	73	13.1	357	76	10.3	13.6	19.1	24.7
1250	138	560	69	17.9	445	73	13.1	363	75	10.3	13.6	19.1	24.7
1250	207	569	69	17.7	453	73	13.0	370	75	10.3	13.6	19.1	24.7
1500	69	574	71	18.0	452	74	13.0	365	76	10.2	14.2	20.0	25.9
1500	103	593	70	17.8	467	74	13.0	378	76	10.1	14.2	20.0	25.9
1500	138	604	70	17.7	477	74	12.9	386	76	10.1	14.2	20.0	25.9
1500	207	616	70	17.6	487	74	12.8	394	76	10.1	14.2	20.0	25.9
1750	69	606	71	17.9	473	75	12.8	379	77	10.0	14.8	20.9	27.0
1750	103	628	71	17.7	492	74	12.8	394	76	10.0	14.8	20.9	27.0
1750	138	642	70	17.6	503	74	12.7	403	76	10.0	14.8	20.9	27.0
1750	207	656	70	17.4	515	74	12.6	413	76	9.9	14.8	20.9	27.0
2000	69	633	72	17.7	491	75	12.7	390	77	9.9	15.3	21.6	28.0
2000	103	659	71	17.5	512	75	12.6	407	77	9.8	15.3	21.6	28.0
2000	138	674	71	17.3	525	75	12.5	417	77	9.8	15.3	21.6	28.0
2000	207	691	71	17.2	538	74	12.4	429	76	9.8	15.3	21.6	28.0
2250	69	654	72	17.5	504	75	12.5	397	77	9.7	15.7	22.3	28.9
2250	103	682	72	17.3	527	75	12.4	416	77	9.7	15.7	22.3	28.9
2250	138	700	71	17.2	541	75	12.4	427	77	9.6	15.7	22.3	28.9
2250	207	718	71	17.0	557	75	12.3	440	77	9.6	15.7	22.3	28.9
2500	69	673	73	17.4	516	76	12.3	403	77	9.6	16.2	23.0	29.8
2500	103	705	72	17.1	541	75	12.3	424	77	9.5	16.2	23.0	29.8
2500	138	724	72	17.0	557	75	12.2	436	77	9.5	16.2	23.0	29.8
2500	207	744	71	16.9	574	75	12.2	450	77	9.5	16.2	23.0	29.8

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1562

115 to 138 kV Shielded Single Conductor Filled X L P E or E P R Power Cable

Direct Buried - Triplexed - Double Circuit

25°C Earth Ambient

65°C - Aluminum Conductor - Concentric Strand

		---- 60 Rho--- Interface Temp Flux			---- 90 Rho--- Interface Temp Flux			----120 Rho--- Interface Temp Flux			delta Td for .0150 pf & Rho		
Condr Size	Shield Res	Amps	°C	w/ft²	Amps	°C	w/ft²	Amps	°C	w/ft²	60	90	120
						75% LF							
750	69	405	55	16.7	324	58	12.3	260	61	9.5	12.1	17.0	21.8
750	103	412	54	16.5	330	58	12.1	265	61	9.4	12.1	17.0	21.8
750	138	416	54	16.4	333	58	12.1	268	61	9.4	12.1	17.0	21.8
750	207	421	54	16.2	337	58	12.0	271	60	9.3	12.1	17.0	21.8
1000	69	460	56	16.5	362	59	11.9	284	61	9.1	12.9	18.1	23.3
1000	103	471	55	16.2	371	59	11.8	292	61	9.1	12.9	18.1	23.3
1000	138	477	55	16.1	376	59	11.7	296	61	9.0	12.9	18.1	23.3
1000	207	483	55	16.0	382	59	11.7	301	61	9.0	12.9	18.1	23.3
1250	69	504	56	16.4	390	60	11.7	300	62	8.9	13.6	19.1	24.7
1250	103	518	56	16.1	402	60	11.6	310	62	8.8	13.6	19.1	24.7
1250	138	526	56	16.0	409	60	11.6	316	62	8.8	13.6	19.1	24.7
1250	207	534	56	15.8	416	59	11.5	322	62	8.8	13.6	19.1	24.7
1500	69	539	57	16.2	412	60	11.5	311	62	8.7	14.2	20.0	25.9
1500	103	556	57	16.0	426	60	11.4	322	62	8.6	14.2	20.0	25.9
1500	138	567	56	15.8	434	60	11.3	329	62	8.5	14.2	20.0	25.9
1500	207	577	56	15.7	444	60	11.2	336	62	8.5	14.2	20.0	25.9
1750	69	568	58	16.1	428	61	11.3	317	63	8.4	14.8	20.9	27.0
1750	103	589	57	15.8	445	61	11.2	329	63	8.4	14.8	20.9	27.0
1750	138	601	57	15.7	455	60	11.1	337	63	8.4	14.8	20.9	27.0
1750	207	614	57	15.5	466	60	11.0	346	62	8.4	14.8	20.9	27.0
2000	69	592	58	16.0	441	61	11.1	319	63	8.3	15.3	21.6	28.0
2000	103	616	58	15.7	460	61	11.0	333	63	8.2	15.3	21.6	28.0
2000	138	630	57	15.5	471	61	10.9	342	63	8.1	15.3	21.6	28.0
2000	207	645	57	15.3	484	61	10.9	351	63	8.1	15.3	21.6	28.0
2250	69	611	58	15.8	450	61	10.9	318	63	8.1	15.7	22.3	28.9
2250	103	637	58	15.5	470	61	10.9	333	63	8.0	15.7	22.3	28.9
2250	138	652	58	15.4	483	61	10.8	343	63	8.0	15.7	22.3	28.9
2250	207	669	57	15.2	496	61	10.7	353	63	7.9	15.7	22.3	28.9
2500	69	627	59	15.7	457	62	10.8	316	63	7.9	16.2	23.0	29.8
2500	103	656	58	15.4	479	62	10.7	332	63	7.8	16.2	23.0	29.8
2500	138	673	58	15.2	493	61	10.6	342	63	7.8	16.2	23.0	29.8
2500	207	692	58	15.1	508	61	10.6	353	63	7.8	16.2	23.0	29.8

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115 to 138 kV Shielded Single Conductor Filled X L P E or E P R Power Cable

Direct Buried - Triplexed - Double Circuit

25°C Earth Ambient

65°C - Aluminum Conductor - Concentric Strand

Condr Size	Shield Res	60 Rho Interface Amps	60 Rho Interface Temp °C	60 Rho Interface Flux w/ft²	90 Rho Interface Amps	90 Rho Interface Temp °C	90 Rho Interface Flux w/ft²	120 Rho Interface Amps	120 Rho Interface Temp °C	120 Rho Interface Flux w/ft²	delta Td for .0150 pf & Rho 60	90	120
						100% LF							
750	69	354	57	13.8	276	60	10.1	218	62	8.0	12.1	17.0	21.8
750	103	360	57	13.6	282	60	10.1	223	62	8.0	12.1	17.0	21.8
750	138	364	57	13.5	285	60	10.0	226	62	8.0	12.1	17.0	21.8
750	207	368	57	13.5	289	60	10.0	229	62	7.9	12.1	17.0	21.8
1000	69	399	58	13.5	306	61	9.9	237	63	7.8	12.9	18.1	23.3
1000	103	409	58	13.4	315	61	9.8	244	62	7.8	12.9	18.1	23.3
1000	138	415	58	13.3	320	61	9.7	248	62	7.7	12.9	18.1	23.3
1000	207	421	57	13.2	325	60	9.7	252	62	7.7	12.9	18.1	23.3
1250	69	434	59	13.4	329	61	9.7	249	63	7.6	13.6	19.1	24.7
1250	103	447	58	13.3	339	61	9.7	258	63	7.6	13.6	19.1	24.7
1250	138	455	58	13.2	346	61	9.6	263	63	7.5	13.6	19.1	24.7
1250	207	463	58	13.1	352	61	9.6	268	63	7.5	13.6	19.1	24.7
1500	69	462	59	13.2	345	62	9.5	257	63	7.5	14.2	20.0	25.9
1500	103	479	59	13.1	358	62	9.5	267	63	7.4	14.2	20.0	25.9
1500	138	488	59	13.0	366	61	9.5	273	63	7.4	14.2	20.0	25.9
1500	207	499	58	13.0	374	61	9.4	279	63	7.4	14.2	20.0	25.9
1750	69	485	60	13.1	358	62	9.4	261	63	7.3	14.8	20.9	27.0
1750	103	504	59	13.0	373	62	9.4	272	63	7.3	14.8	20.9	27.0
1750	138	516	59	12.9	382	62	9.3	279	63	7.3	14.8	20.9	27.0
1750	207	528	59	12.8	392	62	9.3	286	63	7.3	14.8	20.9	27.0
2000	69	504	60	13.0	368	62	9.3	262	64	7.2	15.3	21.6	28.0
2000	103	526	60	12.8	384	62	9.2	275	64	7.2	15.3	21.6	28.0
2000	138	539	59	12.7	395	62	9.2	282	64	7.2	15.3	21.6	28.0
2000	207	553	59	12.7	406	62	9.1	290	63	7.1	15.3	21.6	28.0
2250	69	518	60	12.9	374	63	9.2	261	64	7.1	15.7	22.3	28.9
2250	103	542	60	12.7	392	62	9.1	274	64	7.1	15.7	22.3	28.9
2250	138	557	60	12.6	403	62	9.1	282	64	7.1	15.7	22.3	28.9
2250	207	573	60	12.5	415	62	9.0	291	64	7.1	15.7	22.3	28.9
2500	69	531	61	12.7	379	63	9.0	258	64	7.0	16.2	23.0	29.8
2500	103	557	60	12.6	398	63	9.0	272	64	7.0	16.2	23.0	29.8
2500	138	573	60	12.5	410	62	9.0	281	64	7.0	16.2	23.0	29.8
2500	207	591	60	12.4	424	62	9.0	290	64	7.0	16.2	23.0	29.8

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115 to 138 kV Shielded Single Conductor Filled X L P E or E P R Power Cable

Direct Buried - Triplexed - Double Circuit

25°C Earth Ambient

50°C - Aluminum Conductor - Concentric Strand

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 .0150 pf & Rho 60	90	120
						75% LF							
750	69	281	45	10.1	195	48	7.2	111	49	5.4	12.1	17.0	21.8
750	103	286	45	10.0	199	48	7.2	114	49	5.4	12.1	17.0	21.8
750	138	289	45	9.9	201	48	7.1	115	49	5.4	12.1	17.0	21.8
750	207	292	45	9.9	204	48	7.1	117	49	5.3	12.1	17.0	21.8
1000	69	313	46	10.0	206	48	6.9	92	50	5.1	12.9	18.1	23.3
1000	103	321	46	9.8	212	48	6.9	95	50	5.1	12.9	18.1	23.3
1000	138	325	46	9.7	215	48	6.9	96	50	5.1	12.9	18.1	23.3
1000	207	330	46	9.7	219	48	6.9	98	50	5.1	12.9	18.1	23.3
1250	69	336	46	9.8	210	49	6.7	44	50	4.8	13.6	19.1	24.7
1250	103	346	46	9.7	217	49	6.7	46	50	4.8	13.6	19.1	24.7
1250	138	352	46	9.7	221	49	6.7	47	50	4.8	13.6	19.1	24.7
1250	207	358	46	9.6	225	48	6.7	48	50	4.8	13.6	19.1	24.7
1500	69	353	47	9.7	208	49	6.5	0	51	4.9	14.2	20.0	25.9
1500	103	366	47	9.5	215	49	6.5	0	51	4.9	14.2	20.0	25.9
1500	138	373	46	9.5	220	49	6.5	0	51	4.9	14.2	20.0	25.9
1500	207	381	46	9.4	225	49	6.4	0	51	4.9	14.2	20.0	25.9
1750	69	366	47	9.5	201	49	6.4	0	52	5.0	14.8	20.9	27.0
1750	103	380	47	9.4	210	49	6.3	0	52	5.0	14.8	20.9	27.0
1750	138	389	47	9.4	215	49	6.3	0	52	5.0	14.8	20.9	27.0
1750	207	398	47	9.3	220	49	6.3	0	52	5.0	14.8	20.9	27.0
2000	69	375	47	9.4	191	49	6.2	0	53	5.1	15.3	21.6	28.0
2000	103	391	47	9.3	199	49	6.2	0	53	5.1	15.3	21.6	28.0
2000	138	401	47	9.2	205	49	6.2	0	53	5.1	15.3	21.6	28.0
2000	207	411	47	9.1	211	49	6.2	0	53	5.1	15.3	21.6	28.0
2250	69	380	48	9.3	176	50	6.1	0	54	5.2	15.7	22.3	28.9
2250	103	398	47	9.2	185	49	6.0	0	54	5.2	15.7	22.3	28.9
2250	138	408	47	9.1	190	49	6.0	0	54	5.2	15.7	22.3	28.9
2250	207	420	47	9.0	196	49	6.0	0	54	5.2	15.7	22.3	28.9
2500	69	384	48	9.1	158	50	5.9	0	55	5.2	16.2	23.0	29.8
2500	103	403	48	9.0	167	50	5.9	0	55	5.2	16.2	23.0	29.8
2500	138	414	48	9.0	172	50	5.9	0	55	5.2	16.2	23.0	29.8
2500	207	427	47	8.9	177	50	5.9	0	55	5.2	16.2	23.0	29.8

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115 to 138 kV Shielded Single Conductor Filled X L P E or E P R Power Cable

Direct Buried - Triplexed - Double Circuit

25°C Earth Ambient

50°C - Aluminum Conductor - Concentric Strand

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 .0150 pf & Rho 60	90	120
						100% LF							
750	69	245	46	8.8	166	48	6.4	93	50	5.1	12.1	17.0	21.8
750	103	250	46	8.8	170	48	6.4	95	50	5.1	12.1	17.0	21.8
750	138	253	46	8.7	172	48	6.4	97	49	5.1	12.1	17.0	21.8
750	207	256	46	8.7	174	48	6.4	98	49	5.1	12.1	17.0	21.8
1000	69	271	47	8.6	175	49	6.3	77	50	4.9	12.9	18.1	23.3
1000	103	278	47	8.5	180	49	6.2	79	50	4.9	12.9	18.1	23.3
1000	138	283	47	8.5	183	49	6.2	80	50	4.9	12.9	18.1	23.3
1000	207	287	47	8.5	186	49	6.2	82	50	4.9	12.9	18.1	23.3
1250	69	290	47	8.5	177	49	6.2	37	50	4.8	13.6	19.1	24.7
1250	103	299	47	8.4	183	49	6.1	38	50	4.8	13.6	19.1	24.7
1250	138	305	47	8.4	187	49	6.1	39	50	4.8	13.6	19.1	24.7
1250	207	311	47	8.4	191	49	6.1	40	50	4.8	13.6	19.1	24.7
1500	69	303	48	8.4	174	49	6.1	0	51	4.9	14.2	20.0	25.9
1500	103	314	48	8.4	181	49	6.1	0	51	4.9	14.2	20.0	25.9
1500	138	321	47	8.3	185	49	6.1	0	51	4.9	14.2	20.0	25.9
1500	207	329	47	8.3	190	49	6.0	0	51	4.9	14.2	20.0	25.9
1750	69	313	48	8.3	168	49	5.9	0	52	5.0	14.8	20.9	27.0
1750	103	326	48	8.2	176	49	5.9	0	52	5.0	14.8	20.9	27.0
1750	138	334	48	8.2	180	49	5.9	0	52	5.0	14.8	20.9	27.0
1750	207	342	48	8.2	185	49	5.9	0	52	5.0	14.8	20.9	27.0
2000	69	319	48	8.2	159	50	5.8	0	53	5.1	15.3	21.6	28.0
2000	103	334	48	8.1	166	50	5.8	0	53	5.1	15.3	21.6	28.0
2000	138	343	48	8.1	171	50	5.8	0	53	5.1	15.3	21.6	28.0
2000	207	353	48	8.1	176	49	5.8	0	53	5.1	15.3	21.6	28.0
2250	69	323	48	8.1	146	50	5.8	0	54	5.2	15.7	22.3	28.9
2250	103	339	48	8.1	154	50	5.8	0	54	5.2	15.7	22.3	28.9
2250	138	348	48	8.0	159	50	5.8	0	54	5.2	15.7	22.3	28.9
2250	207	359	48	8.0	164	50	5.8	0	54	5.2	15.7	22.3	28.9
2500	69	325	48	8.0	131	50	5.7	0	55	5.2	16.2	23.0	29.8
2500	103	342	48	7.9	138	50	5.7	0	55	5.2	16.2	23.0	29.8
2500	138	353	48	7.9	143	50	5.7	0	55	5.2	16.2	23.0	29.8
2500	207	364	48	7.9	148	50	5.7	0	55	5.2	16.2	23.0	29.8

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115 to 138 kV Shielded Single Conductor Filled X L P E or E P R Power Cable

Direct Buried - Triplexed - Double Circuit

25°C Earth Ambient

Total Watts/ft for 90°C - Aluminum Conductor - Concentric Strand

		60 Rho		90 Rho		120 Rho	
		75 LF	100 LF	75 LF	100 LF	75 LF	100 LF
Condr Size	Shield Res						
750	69	73.4	58.7	55.0	43.2	43.6	34.3
750	103	72.5	58.2	54.6	43.1	43.3	34.1
750	138	72.0	58.0	54.3	43.0	43.1	34.1
750	207	71.3	57.7	53.9	42.8	42.9	34.0
1000	69	77.0	61.2	57.1	44.7	44.8	35.2
1000	103	76.0	60.6	56.5	44.4	44.6	35.0
1000	138	75.3	60.2	56.2	44.2	44.2	35.0
1000	207	74.6	59.8	55.7	44.0	44.2	34.8
1250	69	79.8	63.0	58.6	45.8	45.8	35.9
1250	103	78.6	62.3	57.9	45.5	45.3	35.7
1250	138	77.7	61.8	57.6	45.3	45.1	35.6
1250	207	76.9	61.4	57.1	45.0	44.9	35.5
1500	69	82.1	64.5	59.8	46.6	46.4	36.5
1500	103	80.9	63.8	59.1	46.3	46.0	36.3
1500	138	80.0	63.4	58.7	46.1	45.7	36.2
1500	207	79.1	62.8	58.3	45.9	45.5	36.0
1750	69	84.2	65.8	60.8	47.3	47.0	37.0
1750	103	82.7	65.1	60.2	47.0	46.6	36.8
1750	138	81.9	64.6	59.8	46.8	46.3	36.6
1750	207	80.9	64.1	59.2	46.5	46.0	36.5
2000	69	86.0	67.1	61.9	48.0	47.4	37.5
2000	103	84.6	66.2	61.0	47.6	47.1	37.2
2000	138	83.6	65.7	60.7	47.4	46.8	37.1
2000	207	82.6	65.2	60.1	47.2	46.5	37.0
2250	69	87.6	68.0	62.6	48.6	47.8	37.8
2250	103	86.0	67.2	61.8	48.2	47.5	37.6
2250	138	84.9	66.6	61.3	48.0	47.2	37.5
2250	207	83.8	66.1	60.8	47.7	46.9	37.4
2500	69	88.9	69.0	63.3	49.1	48.2	38.2
2500	103	87.3	68.1	62.6	48.7	47.8	38.0
2500	138	86.3	67.5	62.0	48.5	47.5	37.8
2500	207	85.1	66.9	61.5	48.2	47.3	37.7

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115 to 138 kV Shielded Single Conductor Filled X L P E or E P R Power Cable

Direct Buried - Triplexed - Double Circuit

25°C Earth Ambient

Total Watts/ft for 80°C - Aluminum Conductor - Concentric Strand

		60 Rho		90 Rho		120 Rho	
		75 LF	100 LF	75 LF	100 LF	75 LF	100 LF
Condr Size	Shield Res						
750	69	61.9	49.9	46.1	36.8	36.4	29.1
750	103	61.1	49.5	45.7	36.7	36.1	29.0
750	138	60.6	49.4	45.5	36.6	36.0	29.0
750	207	60.2	49.0	45.3	36.4	35.9	28.9
1000	69	64.9	52.0	47.8	38.0	37.3	30.0
1000	103	64.0	51.4	47.2	37.7	37.0	29.8
1000	138	63.5	51.2	46.9	37.6	36.8	29.7
1000	207	62.9	50.9	46.7	37.5	36.6	29.6
1250	69	67.2	53.6	49.0	38.9	37.9	30.5
1250	103	66.2	53.0	48.5	38.7	37.7	30.4
1250	138	65.5	52.7	48.1	38.4	37.5	30.3
1250	207	64.9	52.3	47.8	38.3	37.3	30.2
1500	69	69.2	54.8	50.0	39.7	38.5	31.0
1500	103	68.0	54.3	49.4	39.3	38.2	30.9
1500	138	67.2	53.9	49.0	39.2	38.0	30.8
1500	207	66.6	53.5	48.6	39.0	37.7	30.7
1750	69	70.8	56.0	50.8	40.2	38.8	31.4
1750	103	69.6	55.3	50.1	40.0	38.5	31.2
1750	138	68.9	55.0	49.9	39.8	38.4	31.1
1750	207	68.1	54.5	49.5	39.6	38.1	31.1
2000	69	72.2	56.9	51.5	40.8	39.1	31.8
2000	103	70.9	56.3	50.8	40.5	38.8	31.6
2000	138	70.2	55.8	50.4	40.3	38.6	31.5
2000	207	69.2	55.4	50.1	40.1	38.4	31.4
2250	69	73.5	57.7	52.0	41.2	39.3	32.0
2250	103	72.0	57.0	51.4	40.9	39.0	31.9
2250	138	71.3	56.7	51.0	40.7	38.8	31.8
2250	207	70.4	56.1	50.6	40.6	38.7	31.7
2500	69	74.6	58.5	52.5	41.7	39.6	32.3
2500	103	73.2	57.9	51.9	41.3	39.3	32.2
2500	138	72.3	57.4	51.5	41.2	39.1	32.1
2500	207	71.4	56.9	51.1	41.0	38.9	32.0

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115 to 138 kV Shielded Single Conductor Filled X L P E or E P R Power Cable

Direct Buried - Triplexed - Double Circuit

25°C Earth Ambient

Total Watts/ft for 65°C - Aluminum Conductor - Concentric Strand

		60 Rho		90 Rho		120 Rho	
		75 LF	100 LF	75 LF	100 LF	75 LF	100 LF
Condr Size	Shield Res						
750	69	44.5	36.8	32.8	27.1	25.4	21.4
750	103	44.0	36.4	32.5	27.0	25.2	21.3
750	138	43.7	36.2	32.3	26.8	25.1	21.3
750	207	43.5	36.0	32.1	26.8	25.0	21.3
1000	69	46.6	38.3	33.8	27.9	25.8	21.9
1000	103	46.0	37.9	33.5	27.8	25.7	21.9
1000	138	45.6	37.7	33.3	27.7	25.6	21.9
1000	207	45.1	37.4	33.1	27.6	25.5	21.8
1250	69	48.2	39.3	34.5	28.6	26.1	22.4
1250	103	47.5	38.9	34.2	28.3	26.0	22.3
1250	138	47.0	38.7	34.0	28.3	25.9	22.3
1250	207	46.5	38.4	33.7	28.1	25.8	22.2
1500	69	49.4	40.2	35.0	29.0	26.4	22.7
1500	103	48.6	39.9	34.7	28.9	26.2	22.7
1500	138	48.2	39.6	34.4	28.8	26.1	22.6
1500	207	47.6	39.4	34.3	28.6	26.0	22.5
1750	69	50.4	41.0	35.4	29.5	26.5	23.0
1750	103	49.7	40.6	35.1	29.3	26.3	22.9
1750	138	49.2	40.4	34.9	29.2	26.2	22.9
1750	207	48.6	40.0	34.6	29.1	26.1	22.8
2000	69	51.3	41.7	35.8	29.9	26.5	23.2
2000	103	50.6	41.3	35.4	29.7	26.4	23.2
2000	138	50.0	41.0	35.2	29.6	26.3	23.1
2000	207	49.4	40.7	35.0	29.5	26.2	23.1
2250	69	52.2	42.3	36.1	30.2	26.6	23.5
2250	103	51.3	41.9	35.7	30.0	26.4	23.4
2250	138	50.7	41.6	35.5	29.9	26.4	23.3
2250	207	50.1	41.3	35.2	29.8	26.3	23.3
2500	69	52.8	42.8	36.3	30.5	26.6	23.6
2500	103	52.0	42.4	36.0	30.3	26.5	23.6
2500	138	51.4	42.1	35.8	30.2	26.4	23.6
2500	207	50.8	41.8	35.5	30.1	26.3	23.5

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115 to 138 kV Shielded Single Conductor Filled X L P E or E P R Power Cable

Direct Buried - Triplexed - Double Circuit

25°C Earth Ambient

Total Watts/ft for 50°C - Aluminum Conductor - Concentric Strand

		60 Rho		90 Rho		120 Rho	
		75 LF	100 LF	75 LF	100 LF	75 LF	100 LF
Condr Size	Shield Res						
750	69	27.1	23.5	19.3	17.3	14.3	13.6
750	103	26.8	23.3	19.2	17.2	14.3	13.6
750	138	26.7	23.2	19.1	17.2	14.3	13.6
750	207	26.5	23.1	19.1	17.1	14.3	13.6
1000	69	28.1	24.3	19.6	17.8	14.4	14.0
1000	103	27.8	24.1	19.5	17.7	14.4	14.0
1000	138	27.6	24.1	19.4	17.7	14.3	13.9
1000	207	27.5	23.9	19.4	17.6	14.3	13.9
1250	69	28.8	25.0	19.8	18.1	14.3	14.2
1250	103	28.5	24.8	19.7	18.1	14.3	14.2
1250	138	28.3	24.7	19.6	18.0	14.3	14.2
1250	207	28.1	24.6	19.6	18.0	14.3	14.2
1500	69	29.4	25.5	19.9	18.4	14.9	14.9
1500	103	29.1	25.3	19.8	18.4	14.9	14.9
1500	138	28.9	25.2	19.7	18.3	14.9	14.9
1500	207	28.7	25.1	19.7	18.3	14.9	14.9
1750	69	29.8	26.0	19.9	18.6	15.7	15.7
1750	103	29.5	25.8	19.9	18.6	15.7	15.7
1750	138	29.3	25.7	19.8	18.6	15.7	15.7
1750	207	29.1	25.6	19.8	18.6	15.7	15.7
2000	69	30.2	26.4	20.0	18.9	16.4	16.4
2000	103	29.9	26.2	19.9	18.8	16.4	16.4
2000	138	29.7	26.1	19.9	18.8	16.4	16.4
2000	207	29.4	26.0	19.8	18.8	16.4	16.4
2250	69	30.5	26.8	19.9	19.0	17.1	17.1
2250	103	30.2	26.6	19.9	19.0	17.1	17.1
2250	138	30.0	26.4	19.9	19.0	17.1	17.1
2250	207	29.8	26.3	19.8	19.0	17.1	17.1
2500	69	30.7	27.0	19.9	19.2	17.7	17.7
2500	103	30.5	26.9	19.9	19.2	17.7	17.7
2500	138	30.2	26.8	19.9	19.2	17.7	17.7
2500	207	30.0	26.6	19.8	19.2	17.7	17.7

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115 to 138 kV Shielded Single Conductor Filled X L P E or E P R Power Cable

Direct Buried - Triplexed - Double Circuit

25°C Earth Ambient

Size	Res	OD	Wd	Rac	Qs	Ri	Rj	Re @ 90 Rho & loss factor 75%	100%
				90°C - Aluminum Conductor - Concentric Strand					
750	69	3.218	2.00	30.05	1.164	1.93	0.29	3.70	5.55
750	103	3.218	2.00	30.05	1.113	1.93	0.29	3.70	5.55
750	138	3.218	2.00	30.05	1.085	1.93	0.29	3.70	5.55
750	207	3.218	2.00	30.05	1.057	1.93	0.29	3.70	5.55
1000	69	3.407	2.18	22.78	1.216	1.76	0.27	3.62	5.47
1000	103	3.407	2.18	22.78	1.149	1.76	0.27	3.62	5.47
1000	138	3.407	2.18	22.78	1.112	1.76	0.27	3.62	5.47
1000	207	3.407	2.18	22.78	1.075	1.76	0.27	3.62	5.47
1250	69	3.540	2.34	18.47	1.265	1.64	0.26	3.57	5.42
1250	103	3.540	2.34	18.47	1.182	1.64	0.26	3.57	5.42
1250	138	3.540	2.34	18.47	1.137	1.64	0.26	3.57	5.42
1250	207	3.540	2.34	18.47	1.092	1.64	0.26	3.57	5.42
1500	69	3.660	2.48	15.64	1.311	1.54	0.25	3.52	5.37
1500	103	3.660	2.48	15.64	1.214	1.54	0.25	3.52	5.37
1500	138	3.660	2.48	15.64	1.161	1.54	0.25	3.52	5.37
1500	207	3.660	2.48	15.64	1.108	1.54	0.25	3.52	5.37
1750	69	3.770	2.61	13.67	1.354	1.46	0.24	3.48	5.33
1750	103	3.770	2.61	13.67	1.244	1.46	0.24	3.48	5.33
1750	138	3.770	2.61	13.67	1.184	1.46	0.24	3.48	5.33
1750	207	3.770	2.61	13.67	1.123	1.46	0.24	3.48	5.33
2000	69	3.873	2.73	12.22	1.395	1.39	0.24	3.44	5.29
2000	103	3.873	2.73	12.22	1.272	1.39	0.24	3.44	5.29
2000	138	3.873	2.73	12.22	1.205	1.39	0.24	3.44	5.29
2000	207	3.873	2.73	12.22	1.137	1.39	0.24	3.44	5.29
2250	69	3.968	2.84	11.20	1.429	1.34	0.23	3.41	5.26
2250	103	3.968	2.84	11.20	1.295	1.34	0.23	3.41	5.26
2250	138	3.968	2.84	11.20	1.222	1.34	0.23	3.41	5.26
2250	207	3.968	2.84	11.20	1.149	1.34	0.23	3.41	5.26
2500	69	4.059	2.95	10.33	1.464	1.29	0.22	3.37	5.23
2500	103	4.059	2.95	10.33	1.319	1.29	0.22	3.37	5.23
2500	138	4.059	2.95	10.33	1.240	1.29	0.22	3.37	5.23
2500	207	4.059	2.95	10.33	1.161	1.29	0.22	3.37	5.23

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115 to 138 kV Shielded Single Conductor Filled X L P E or E P R Power Cable

Direct Buried - Triplexed - Double Circuit

25°C Earth Ambient

Size	Res	OD	Wd	Rac	Qs	Ri	Rj	Re @ 90 Rho & loss factor 75%	Re @ 90 Rho & loss factor 100%
				80°C - Aluminum Conductor - Concentric Strand					
750	69	3.218	2.00	30.05	1.164	1.93	0.29	3.70	5.55
750	103	3.218	2.00	30.05	1.113	1.93	0.29	3.70	5.55
750	138	3.218	2.00	30.05	1.085	1.93	0.29	3.70	5.55
750	207	3.218	2.00	30.05	1.057	1.93	0.29	3.70	5.55
1000	69	3.407	2.18	22.78	1.216	1.76	0.27	3.62	5.47
1000	103	3.407	2.18	22.78	1.149	1.76	0.27	3.62	5.47
1000	138	3.407	2.18	22.78	1.112	1.76	0.27	3.62	5.47
1000	207	3.407	2.18	22.78	1.075	1.76	0.27	3.62	5.47
1250	69	3.540	2.34	18.47	1.265	1.64	0.26	3.57	5.42
1250	103	3.540	2.34	18.47	1.182	1.64	0.26	3.57	5.42
1250	138	3.540	2.34	18.47	1.137	1.64	0.26	3.57	5.42
1250	207	3.540	2.34	18.47	1.092	1.64	0.26	3.57	5.42
1500	69	3.660	2.48	15.64	1.311	1.54	0.25	3.52	5.37
1500	103	3.660	2.48	15.64	1.214	1.54	0.25	3.52	5.37
1500	138	3.660	2.48	15.64	1.161	1.54	0.25	3.52	5.37
1500	207	3.660	2.48	15.64	1.108	1.54	0.25	3.52	5.37
1750	69	3.770	2.61	13.67	1.354	1.46	0.24	3.48	5.33
1750	103	3.770	2.61	13.67	1.244	1.46	0.24	3.48	5.33
1750	138	3.770	2.61	13.67	1.184	1.46	0.24	3.48	5.33
1750	207	3.770	2.61	13.67	1.123	1.46	0.24	3.48	5.33
2000	69	3.873	2.73	12.22	1.395	1.39	0.24	3.44	5.29
2000	103	3.873	2.73	12.22	1.272	1.39	0.24	3.44	5.29
2000	138	3.873	2.73	12.22	1.205	1.39	0.24	3.44	5.29
2000	207	3.873	2.73	12.22	1.137	1.39	0.24	3.44	5.29
2250	69	3.968	2.84	11.20	1.429	1.34	0.23	3.41	5.26
2250	103	3.968	2.84	11.20	1.295	1.34	0.23	3.41	5.26
2250	138	3.968	2.84	11.20	1.222	1.34	0.23	3.41	5.26
2250	207	3.968	2.84	11.20	1.149	1.34	0.23	3.41	5.26
2500	69	4.059	2.95	10.33	1.464	1.29	0.22	3.37	5.23
2500	103	4.059	2.95	10.33	1.319	1.29	0.22	3.37	5.23
2500	138	4.059	2.95	10.33	1.240	1.29	0.22	3.37	5.23
2500	207	4.059	2.95	10.33	1.161	1.29	0.22	3.37	5.23

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115 to 138 kV Shielded Single Conductor Filled X L P E or E P R Power Cable

Direct Buried - Triplexed - Double Circuit

25°C Earth Ambient

Size	Res	OD	Wd	Rac	Qs	Ri	Rj	Re @ 90 Rho & loss factor 75%	100%
			65°C - Aluminum Conductor - Concentric Strand						
750	69	3.218	2.00	30.05	1.164	1.93	0.29	3.70	5.55
750	103	3.218	2.00	30.05	1.113	1.93	0.29	3.70	5.55
750	138	3.218	2.00	30.05	1.085	1.93	0.29	3.70	5.55
750	207	3.218	2.00	30.05	1.057	1.93	0.29	3.70	5.55
1000	69	3.407	2.18	22.78	1.216	1.76	0.27	3.62	5.47
1000	103	3.407	2.18	22.78	1.149	1.76	0.27	3.62	5.47
1000	138	3.407	2.18	22.78	1.112	1.76	0.27	3.62	5.47
1000	207	3.407	2.18	22.78	1.075	1.76	0.27	3.62	5.47
1250	69	3.540	2.34	18.47	1.265	1.64	0.26	3.57	5.42
1250	103	3.540	2.34	18.47	1.182	1.64	0.26	3.57	5.42
1250	138	3.540	2.34	18.47	1.137	1.64	0.26	3.57	5.42
1250	207	3.540	2.34	18.47	1.092	1.64	0.26	3.57	5.42
1500	69	3.660	2.48	15.64	1.311	1.54	0.25	3.52	5.37
1500	103	3.660	2.48	15.64	1.214	1.54	0.25	3.52	5.37
1500	138	3.660	2.48	15.64	1.161	1.54	0.25	3.52	5.37
1500	207	3.660	2.48	15.64	1.108	1.54	0.25	3.52	5.37
1750	69	3.770	2.61	13.67	1.354	1.46	0.24	3.48	5.33
1750	103	3.770	2.61	13.67	1.244	1.46	0.24	3.48	5.33
1750	138	3.770	2.61	13.67	1.184	1.46	0.24	3.48	5.33
1750	207	3.770	2.61	13.67	1.123	1.46	0.24	3.48	5.33
2000	69	3.873	2.73	12.22	1.395	1.39	0.24	3.44	5.29
2000	103	3.873	2.73	12.22	1.272	1.39	0.24	3.44	5.29
2000	138	3.873	2.73	12.22	1.205	1.39	0.24	3.44	5.29
2000	207	3.873	2.73	12.22	1.137	1.39	0.24	3.44	5.29
2250	69	3.968	2.84	11.20	1.429	1.34	0.23	3.41	5.26
2250	103	3.968	2.84	11.20	1.295	1.34	0.23	3.41	5.26
2250	138	3.968	2.84	11.20	1.222	1.34	0.23	3.41	5.26
2250	207	3.968	2.84	11.20	1.149	1.34	0.23	3.41	5.26
2500	69	4.059	2.95	10.33	1.464	1.29	0.22	3.37	5.23
2500	103	4.059	2.95	10.33	1.319	1.29	0.22	3.37	5.23
2500	138	4.059	2.95	10.33	1.240	1.29	0.22	3.37	5.23
2500	207	4.059	2.95	10.33	1.161	1.29	0.22	3.37	5.23

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115 to 138 kV Shielded Single Conductor Filled X L P E or E P R Power Cable

Direct Buried - Triplexed - Double Circuit

25°C Earth Ambient

Size	Res	OD	Wd	Rac	Qs	Ri	Rj	Re @ 90 Rho & loss factor 75%	100%
			50°C - Aluminum Conductor - Concentric Strand						
750	69	3.218	2.00	30.05	1.164	1.93	0.29	3.70	5.55
750	103	3.218	2.00	30.05	1.113	1.93	0.29	3.70	5.55
750	138	3.218	2.00	30.05	1.085	1.93	0.29	3.70	5.55
750	207	3.218	2.00	30.05	1.057	1.93	0.29	3.70	5.55
1000	69	3.407	2.18	22.78	1.216	1.76	0.27	3.62	5.47
1000	103	3.407	2.18	22.78	1.149	1.76	0.27	3.62	5.47
1000	138	3.407	2.18	22.78	1.112	1.76	0.27	3.62	5.47
1000	207	3.407	2.18	22.78	1.075	1.76	0.27	3.62	5.47
1250	69	3.540	2.34	18.47	1.265	1.64	0.26	3.57	5.42
1250	103	3.540	2.34	18.47	1.182	1.64	0.26	3.57	5.42
1250	138	3.540	2.34	18.47	1.137	1.64	0.26	3.57	5.42
1250	207	3.540	2.34	18.47	1.092	1.64	0.26	3.57	5.42
1500	69	3.660	2.48	15.64	1.311	1.54	0.25	3.52	5.37
1500	103	3.660	2.48	15.64	1.214	1.54	0.25	3.52	5.37
1500	138	3.660	2.48	15.64	1.161	1.54	0.25	3.52	5.37
1500	207	3.660	2.48	15.64	1.108	1.54	0.25	3.52	5.37
1750	69	3.770	2.61	13.67	1.354	1.46	0.24	3.48	5.33
1750	103	3.770	2.61	13.67	1.244	1.46	0.24	3.48	5.33
1750	138	3.770	2.61	13.67	1.184	1.46	0.24	3.48	5.33
1750	207	3.770	2.61	13.67	1.123	1.46	0.24	3.48	5.33
2000	69	3.873	2.73	12.22	1.395	1.39	0.24	3.44	5.29
2000	103	3.873	2.73	12.22	1.272	1.39	0.24	3.44	5.29
2000	138	3.873	2.73	12.22	1.205	1.39	0.24	3.44	5.29
2000	207	3.873	2.73	12.22	1.137	1.39	0.24	3.44	5.29
2250	69	3.968	2.84	11.20	1.429	1.34	0.23	3.41	5.26
2250	103	3.968	2.84	11.20	1.295	1.34	0.23	3.41	5.26
2250	138	3.968	2.84	11.20	1.222	1.34	0.23	3.41	5.26
2250	207	3.968	2.84	11.20	1.149	1.34	0.23	3.41	5.26
2500	69	4.059	2.95	10.33	1.464	1.29	0.22	3.37	5.23
2500	103	4.059	2.95	10.33	1.319	1.29	0.22	3.37	5.23
2500	138	4.059	2.95	10.33	1.240	1.29	0.22	3.37	5.23
2500	207	4.059	2.95	10.33	1.161	1.29	0.22	3.37	5.23

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115 to 138 kV Shielded Single Conductor Filled X L P E or E P R Power Cable

Direct Buried - 1 Circuit - Three Cables - Spaced

25°C Earth Ambient

90°C - Aluminum Conductor - Concentric Strand

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 .0150 pf & Rho 60	90	120
						75% LF							
750	69	619	62	28.7	544	69	22.8	487	73	18.6	6.7	8.8	11.8
750	103	638	61	27.4	562	68	21.8	504	72	18.0	6.7	9.4	11.8
750	138	654	61	26.5	576	67	21.0	517	72	17.4	6.7	9.4	11.8
750	207	670	59	24.8	593	66	19.9	533	71	16.6	7.1	9.4	11.8
1000	69	698	64	29.7	609	71	23.1	543	75	18.9	7.1	9.4	11.6
1000	103	725	63	28.4	635	70	22.3	566	74	18.3	7.1	9.4	12.5
1000	138	748	63	27.2	655	69	21.5	584	74	17.6	7.1	10.0	12.5
1000	207	775	61	25.6	680	68	20.2	608	72	16.7	7.5	10.0	12.5
1000	Open	839	58	20.5	746	64	16.7	674	69	14.1	7.5	10.0	12.5
1250	69	760	66	30.5	658	72	23.5	584	76	19.0	7.4	9.8	12.3
1250	103	795	65	29.1	691	71	22.7	615	76	18.5	7.4	9.8	12.3
1250	138	824	64	27.9	719	71	21.9	638	75	17.8	7.4	9.8	13.2
1250	207	862	63	26.2	751	70	20.6	668	74	16.8	7.9	10.5	13.2
1250	Open	949	59	20.6	840	65	16.6	755	70	13.9	7.9	10.5	13.2
1500	69	812	67	31.1	699	73	23.7	617	77	19.1	7.7	10.2	12.8
1500	103	854	66	29.7	738	73	22.9	653	77	18.5	7.7	10.2	12.8
1500	138	889	65	28.5	771	72	22.0	683	76	17.8	7.7	10.2	13.8
1500	207	935	64	26.7	811	71	20.8	719	75	16.9	7.7	11.0	13.8
1500	Open	1047	60	20.6	923	66	16.6	827	71	13.8	8.2	11.0	13.8
1750	69	855	69	31.5	732	74	23.8	644	78	19.0	7.9	10.6	13.3
1750	103	903	67	30.1	777	74	23.0	686	78	18.4	7.9	10.6	13.3
1750	138	944	67	28.9	815	73	22.2	720	77	17.9	7.9	10.6	14.4
1750	207	999	65	27.1	864	72	21.0	762	76	16.9	7.9	11.4	14.4
1750	Open	1135	60	20.6	997	67	16.5	891	72	13.7	8.5	11.4	14.4
2000	Open	1214	61	20.5	1063	68	16.4	947	72	13.5	8.7	11.8	14.9
2250	Open	1281	62	20.5	1119	68	16.3	994	73	13.5	9.0	12.2	15.4
2500	Open	1347	62	20.4	1173	69	16.2	1040	73	13.3	9.2	12.5	15.8

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115 to 138 kV Shielded Single Conductor Filled X L P E or E P R Power Cable

Direct Buried - 1 Circuit - Three Cables - Spaced

25°C Earth Ambient

90°C - Aluminum Conductor - Concentric Strand

Condr Size	Shield Res	60 Rho Interface Amps	60 Rho Interface Temp °C	60 Rho Interface Flux w/ft²	90 Rho Interface Amps	90 Rho Interface Temp °C	90 Rho Interface Flux w/ft²	120 Rho Interface Amps	120 Rho Interface Temp °C	120 Rho Interface Flux w/ft²	delta Td for .0150 pf & Rho 60	90	120
						100% LF							
750	69	556	68	23.6	476	74	17.9	419	78	14.4	6.7	8.8	11.8
750	103	573	67	22.7	492	73	17.3	434	77	14.0	6.7	9.4	11.8
750	138	587	66	21.7	506	72	16.7	447	76	13.7	6.7	9.4	11.8
750	207	605	65	20.7	523	71	16.0	463	75	13.1	7.1	9.4	11.8
1000	69	623	70	24.2	530	76	18.2	463	79	14.5	7.1	9.4	11.6
1000	103	649	69	23.2	552	75	17.5	484	79	14.0	7.1	9.4	12.5
1000	138	668	68	22.2	571	74	16.9	501	78	13.6	7.1	10.0	12.5
1000	207	693	67	21.0	595	73	16.0	524	77	13.0	7.5	10.0	12.5
1000	Open	763	63	17.4	663	70	13.7	589	74	11.3	7.5	10.0	12.5
1250	69	675	72	24.6	571	77	18.3	497	81	14.5	7.4	9.8	12.3
1250	103	708	71	23.6	599	77	17.7	523	80	14.0	7.4	9.8	12.3
1250	138	734	70	22.7	623	76	17.0	544	79	13.6	7.4	9.8	13.2
1250	207	767	69	21.4	653	75	16.2	572	78	12.9	7.9	10.5	13.2
1250	Open	860	64	17.4	743	71	13.6	658	75	11.2	7.9	10.5	13.2
1500	69	717	73	24.8	604	78	18.4	524	81	14.5	7.7	10.2	12.8
1500	103	757	72	23.9	638	78	17.7	554	81	14.0	7.7	10.2	12.8
1500	138	789	71	23.1	666	77	17.1	579	80	13.6	7.7	10.2	13.8
1500	207	829	70	21.6	702	76	16.2	613	79	12.9	7.7	11.0	13.8
1500	Open	945	65	17.2	814	72	13.5	718	76	11.1	8.2	11.0	13.8
1750	69	752	74	24.9	630	79	18.3	546	82	14.4	7.9	10.6	13.3
1750	103	797	73	24.0	670	79	17.7	580	81	14.0	7.9	10.6	13.3
1750	138	836	73	23.2	702	78	17.1	609	81	13.6	7.9	10.6	14.4
1750	207	883	71	21.8	744	77	16.2	647	80	12.9	7.9	11.4	14.4
1750	Open	1022	66	17.2	877	72	13.4	770	76	10.9	8.5	11.4	14.4
2000	Open	1091	67	17.1	933	73	13.2	817	77	10.8	8.7	11.8	14.9
2250	Open	1148	67	17.0	979	73	13.1	856	77	10.7	9.0	12.2	15.4
2500	Open	1205	68	16.9	1024	74	13.0	894	78	10.5	9.2	12.5	15.8

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115 to 138 kV Shielded Single Conductor Filled X L P E or E P R Power Cable

Direct Buried - 1 Circuit - Three Cables - Spaced

25°C Earth Ambient

80°C - Aluminum Conductor - Concentric Strand

		---- 60 Rho---			---- 90 Rho---			----120 Rho---			delta Td for .0150 pf & Rho		
			Interface			Interface			Interface				
		Amps	Temp °C	Flux w/ft²	Amps	Temp °C	Flux w/ft²	Amps	Temp °C	Flux w/ft²	60	90	120
Condr Size	Shield Res												
						75% LF							
750	69	564	57	24.6	494	63	19.3	440	67	15.8	6.7	8.8	11.8
750	103	582	57	23.6	511	62	18.8	455	66	15.3	6.7	9.4	11.8
750	138	597	56	22.7	524	62	18.0	467	65	14.8	6.7	9.4	11.8
750	207	614	55	21.4	540	61	17.1	483	65	14.1	7.1	9.4	11.8
1000	69	634	59	25.4	550	65	19.7	488	68	16.0	7.1	9.4	11.6
1000	103	659	58	24.3	573	64	19.1	508	68	15.5	7.1	9.4	12.5
1000	138	680	58	23.4	593	63	18.4	526	67	14.9	7.1	10.0	12.5
1000	207	708	57	22.0	617	62	17.3	548	66	14.1	7.5	10.0	12.5
1000	Open	774	53	17.4	685	59	14.1	615	63	11.9	7.5	10.0	12.5
1250	69	689	61	26.1	593	66	20.0	522	69	16.1	7.4	9.8	12.3
1250	103	720	60	25.0	622	65	19.3	550	69	15.6	7.4	9.8	12.3
1250	138	748	59	24.1	648	65	18.7	572	68	15.1	7.4	9.8	13.2
1250	207	785	58	22.6	680	64	17.6	601	67	14.2	7.4	10.5	13.2
1250	Open	875	54	17.4	770	60	14.0	689	64	11.8	7.9	10.5	13.2
1500	69	733	62	26.5	627	67	20.1	550	70	16.1	7.7	10.2	12.8
1500	103	771	61	25.5	662	66	19.4	582	70	15.7	7.7	10.2	12.8
1500	138	804	60	24.4	693	66	18.8	609	69	15.1	7.7	10.2	13.8
1500	207	849	59	23.0	732	65	17.7	644	68	14.3	7.7	11.0	13.8
1500	Open	964	55	17.4	845	61	14.0	753	65	11.6	8.2	11.0	13.8
1750	69	770	63	26.8	655	68	20.2	573	71	16.0	7.9	10.6	13.3
1750	103	813	62	25.7	695	67	19.6	609	70	15.6	7.9	10.6	13.3
1750	138	852	61	24.7	730	66	18.8	641	70	15.2	7.9	10.6	14.4
1750	207	904	60	23.2	777	66	17.8	681	69	14.3	7.9	11.4	14.4
1750	Open	1044	56	17.4	912	61	13.9	809	65	11.6	8.5	11.4	14.4
2000	Open	1116	56	17.4	971	62	13.8	859	66	11.4	8.7	11.8	14.9
2250	Open	1176	57	17.3	1020	62	13.8	900	66	11.3	9.0	12.2	15.4
2500	Open	1236	57	17.3	1068	63	13.6	939	67	11.2	9.2	12.5	15.8

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115 to 138 kV Shielded Single Conductor Filled X L P E or E P R Power Cable

Direct Buried - 1 Circuit - Three Cables - Spaced

25°C Earth Ambient

80°C - Aluminum Conductor - Concentric Strand

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 .0150 pf & Rho 60	90	120
						100% LF							
750	69	507	62	20.3	431	67	15.3	377	70	12.3	6.7	8.8	11.8
750	103	523	61	19.5	446	67	14.8	391	70	12.0	6.7	9.4	11.8
750	138	536	61	18.8	459	66	14.4	403	69	11.6	6.7	9.4	11.8
750	207	553	60	17.8	476	65	13.8	419	68	11.2	7.1	9.4	11.8
1000	69	566	64	20.7	478	69	15.5	415	72	12.2	7.1	9.4	11.6
1000	103	589	63	20.0	498	68	15.0	434	71	12.0	7.1	9.4	12.5
1000	138	608	63	19.2	516	67	14.5	450	70	11.7	7.1	10.0	12.5
1000	207	633	61	18.1	539	67	13.8	472	70	11.1	7.5	10.0	12.5
1000	Open	704	58	14.8	609	63	11.7	538	67	9.6	7.5	10.0	12.5
1250	69	611	65	21.0	513	70	15.6	444	73	12.3	7.4	9.8	12.3
1250	103	641	65	20.3	539	69	15.1	467	72	12.0	7.4	9.8	12.3
1250	138	666	64	19.5	561	69	14.6	487	71	11.7	7.4	9.8	13.2
1250	207	697	63	18.3	590	68	13.9	514	71	11.1	7.4	10.5	13.2
1250	Open	792	59	14.8	682	64	11.5	599	68	9.5	7.9	10.5	13.2
1500	69	647	66	21.2	541	71	15.7	466	73	12.3	7.7	10.2	12.8
1500	103	682	66	20.6	572	70	15.2	493	73	11.9	7.7	10.2	12.8
1500	138	714	65	19.8	598	70	14.7	516	72	11.6	7.7	10.2	13.8
1500	207	752	64	18.6	633	69	13.9	548	71	11.1	7.7	11.0	13.8
1500	Open	870	60	14.7	745	65	11.5	653	69	9.4	8.2	11.0	13.8
1750	69	676	67	21.3	563	72	15.6	484	74	12.2	7.9	10.6	13.3
1750	103	717	67	20.6	599	71	15.2	514	73	11.9	7.9	10.6	13.3
1750	138	753	66	20.0	628	70	14.7	540	73	11.6	7.9	10.6	14.4
1750	207	799	65	18.7	669	69	13.9	577	72	11.0	7.9	11.4	14.4
1750	Open	940	60	14.6	802	66	11.3	700	69	9.3	8.5	11.4	14.4
2000	Open	1002	61	14.5	852	66	11.2	741	70	9.2	8.7	11.8	14.9
2250	Open	1054	61	14.4	893	67	11.2	775	70	9.0	9.0	12.2	15.4
2500	Open	1105	62	14.4	933	67	11.1	808	70	8.9	9.2	12.5	15.8

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1578

115 to 138 kV Shielded Single Conductor Filled X L P E or E P R Power Cable

Direct Buried - 1 Circuit - Three Cables - Spaced

25°C Earth Ambient

65°C - Aluminum Conductor - Concentric Strand

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 .0150 pf & Rho 60	90	120
						75% LF							
750	69	470	50	18.0	406	54	14.1	356	57	11.4	6.7	8.8	11.8
750	103	484	49	17.4	419	54	13.8	368	56	11.2	6.7	9.4	11.8
750	138	497	49	16.9	431	53	13.3	379	56	10.8	6.7	9.4	11.8
750	207	514	48	15.9	446	52	12.6	393	55	10.3	7.1	9.4	11.8
1000	69	525	51	18.6	449	55	14.2	391	58	11.4	7.1	9.4	12.5
1000	103	544	51	18.1	467	55	13.9	407	57	11.2	7.1	9.4	12.5
1000	138	563	50	17.4	484	54	13.5	422	57	10.8	7.1	10.0	12.5
1000	207	589	50	16.4	506	54	12.7	442	56	10.3	7.5	10.0	12.5
1000	Open	656	47	12.7	573	51	10.2	507	54	8.5	7.5	10.0	12.5
1250	69	567	52	19.1	480	56	14.5	417	59	11.4	7.4	9.8	13.2
1250	103	591	52	18.5	503	56	14.0	437	58	11.2	7.4	9.8	13.2
1250	138	615	51	17.8	525	55	13.6	455	58	10.9	7.4	9.8	13.2
1250	207	649	51	16.7	553	55	12.8	480	57	10.4	7.4	10.5	13.2
1250	Open	739	47	12.7	642	52	10.1	564	55	8.4	7.9	10.5	13.2
1500	69	600	53	19.4	505	57	14.5	436	59	11.5	7.7	10.2	12.8
1500	103	629	52	18.8	532	56	14.1	460	59	11.2	7.7	10.2	12.8
1500	138	658	52	18.1	557	56	13.7	481	59	10.9	7.7	10.2	13.8
1500	207	698	51	17.0	593	55	12.9	511	58	10.3	7.7	11.0	13.8
1500	Open	813	48	12.6	701	52	10.1	613	55	8.3	8.2	11.0	13.8
1750	69	628	54	19.6	525	57	14.5	451	60	11.3	7.9	10.6	13.3
1750	103	661	53	18.9	555	57	14.1	478	59	11.1	7.9	10.6	13.3
1750	138	694	53	18.2	584	57	13.7	502	59	10.8	7.9	10.6	14.4
1750	207	741	52	17.2	626	56	13.0	536	58	10.2	7.9	11.4	14.4
1750	Open	878	48	12.7	754	53	10.0	656	56	8.2	8.5	11.4	14.4
2000	Open	936	49	12.6	801	53	10.0	694	56	8.2	8.7	11.8	14.9
2250	Open	985	49	12.6	839	54	9.9	723	57	8.1	9.0	12.2	15.4
2500	Open	1033	50	12.5	876	54	9.8	752	57	8.0	9.2	12.5	15.8

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115 to 138 kV Shielded Single Conductor Filled X L P E or E P R Power Cable

Direct Buried - 1 Circuit - Three Cables - Spaced

25°C Earth Ambient

65°C - Aluminum Conductor - Concentric Strand

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 .0150 pf & Rho 60	90	120
						100% LF							
750	69	421	53	15.0	353	57	11.3	305	59	9.0	6.7	8.8	11.8
750	103	434	53	14.6	365	56	11.0	316	59	8.8	6.7	9.4	11.8
750	138	446	52	14.0	376	56	10.7	326	58	8.5	6.7	9.4	11.8
750	207	462	51	13.3	392	55	10.2	340	58	8.3	7.1	9.4	11.8
1000	69	467	55	15.2	388	58	11.3	332	60	9.0	7.1	9.4	12.5
1000	103	486	54	14.9	405	57	11.1	347	59	8.7	7.1	9.4	12.5
1000	138	502	54	14.4	420	57	10.8	360	59	8.5	7.1	10.0	12.5
1000	207	525	53	13.5	441	56	10.2	379	59	8.2	7.5	10.0	12.5
1000	Open	596	50	10.9	509	54	8.6	443	57	7.1	7.5	10.0	12.5
1250	69	501	55	15.5	414	59	11.4	352	61	9.0	7.4	9.8	13.2
1250	103	525	55	15.1	434	58	11.1	369	60	8.7	7.4	9.8	13.2
1250	138	547	55	14.6	453	58	10.8	386	60	8.5	7.4	9.8	13.2
1250	207	576	54	13.7	479	57	10.3	410	59	8.2	7.4	10.5	13.2
1250	Open	669	51	10.9	568	55	8.5	491	57	7.0	7.9	10.5	13.2
1500	69	528	56	15.6	435	59	11.4	367	61	8.9	7.7	10.2	12.8
1500	103	556	56	15.1	458	59	11.2	387	61	8.7	7.7	10.2	12.8
1500	138	582	55	14.7	480	59	10.9	406	60	8.5	7.7	10.2	13.8
1500	207	618	55	13.9	511	58	10.3	434	60	8.1	7.7	11.0	13.8
1500	Open	734	51	10.9	619	55	8.5	532	58	6.9	8.2	11.0	13.8
1750	69	550	57	15.6	451	60	11.3	378	61	8.8	7.9	10.6	13.3
1750	103	581	56	15.2	477	59	11.1	401	61	8.6	7.9	10.6	13.3
1750	138	612	56	14.8	501	59	10.7	422	61	8.4	7.9	10.6	14.4
1750	207	653	55	14.0	537	58	10.2	453	60	8.1	7.9	11.4	14.4
1750	Open	790	52	10.7	663	56	8.3	568	58	6.8	8.5	11.4	14.4
2000	Open	841	52	10.8	702	56	8.3	599	58	6.7	8.7	11.8	14.9
2250	Open	883	52	10.7	734	56	8.2	623	59	6.6	9.0	12.2	15.4
2500	Open	923	53	10.6	765	57	8.2	646	59	6.6	9.2	12.5	15.8

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115 to 138 kV Shielded Single Conductor Filled X L P E or E P R Power Cable

Direct Buried - 1 Circuit - Three Cables - Spaced

25°C Earth Ambient

50°C - Aluminum Conductor - Concentric Strand

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 .0150 pf & Rho 60	90	120
						75% LF							
750	69	349	42	11.3	291	45	8.5	244	46	6.6	6.7	9.4	11.8
750	103	359	42	10.9	299	44	8.3	251	46	6.6	6.7	9.4	11.8
750	138	369	42	10.7	308	44	8.1	259	46	6.4	6.7	9.4	11.8
750	207	383	41	10.1	320	44	7.7	271	46	6.2	7.1	9.4	11.8
1000	69	386	43	11.5	318	45	8.5	262	47	6.6	7.1	10.0	12.5
1000	103	399	43	11.2	329	45	8.4	272	47	6.5	7.1	10.0	12.5
1000	138	413	42	10.9	341	45	8.2	283	47	6.4	7.1	10.0	12.5
1000	207	434	42	10.3	358	45	7.7	298	46	6.2	7.5	10.0	12.5
1000	Open	493	40	8.0	415	43	6.4	350	45	5.2	7.5	10.0	12.5
1250	69	414	43	11.7	337	46	8.6	274	47	6.6	7.4	10.5	13.2
1250	103	430	43	11.4	351	46	8.4	286	47	6.5	7.4	10.5	13.2
1250	138	448	43	11.1	365	46	8.2	298	47	6.4	7.4	10.5	13.2
1250	207	475	43	10.5	386	45	7.8	317	47	6.0	7.4	10.5	13.2
1250	Open	553	41	8.0	460	44	6.3	383	46	5.2	7.9	10.5	13.2
1500	69	435	44	11.8	351	46	8.6	282	48	6.5	7.7	11.0	13.8
1500	103	454	44	11.6	368	46	8.5	296	48	6.4	7.7	11.0	13.8
1500	138	475	43	11.2	384	46	8.2	310	47	6.3	7.7	11.0	13.8
1500	207	507	43	10.6	409	46	7.8	331	47	6.1	7.7	11.0	13.8
1500	Open	605	41	7.9	499	44	6.3	410	46	5.0	8.2	11.0	13.8
1750	69	452	44	11.9	362	47	8.5	287	48	6.4	7.9	11.4	14.4
1750	103	474	44	11.6	380	47	8.4	302	48	6.3	7.9	10.6	14.4
1750	138	497	44	11.2	399	46	8.2	317	48	6.2	7.9	11.4	14.4
1750	207	534	44	10.6	427	46	7.8	341	47	5.9	7.9	11.4	14.4
1750	Open	650	41	7.9	531	44	6.2	432	46	5.0	8.5	11.4	14.4
2000	Open	690	42	7.9	559	45	6.1	449	46	4.9	8.7	11.8	14.9
2250	Open	723	42	7.8	581	45	6.1	462	47	4.8	9.0	12.2	15.4
2500	Open	754	42	7.8	602	45	6.0	472	47	4.7	9.2	12.5	15.8

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115 to 138 kV Shielded Single Conductor Filled X L P E or E P R Power Cable

Direct Buried - 1 Circuit - Three Cables - Spaced

25°C Earth Ambient

50°C - Aluminum Conductor - Concentric Strand

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 .0150 pf & Rho 60	90	120
						100% LF							
750	69	311	44	9.4	252	46	7.0	208	47	5.6	6.7	9.4	11.8
750	103	320	44	9.3	260	46	6.9	215	47	5.5	6.7	9.4	11.8
750	138	329	43	9.0	268	46	6.8	223	47	5.3	6.7	9.4	11.8
750	207	343	43	8.5	281	45	6.5	233	47	5.2	7.1	9.4	11.8
1000	69	342	45	9.5	273	47	7.0	222	48	5.4	7.1	10.0	12.5
1000	103	355	44	9.4	284	46	6.8	231	48	5.4	7.1	10.0	12.5
1000	138	367	44	9.1	295	46	6.7	241	48	5.3	7.1	10.0	12.5
1000	207	386	44	8.6	311	46	6.5	255	47	5.2	7.5	10.0	12.5
1000	Open	448	42	7.0	369	45	5.5	306	46	4.6	7.5	10.0	12.5
1250	69	365	45	9.7	287	47	6.9	231	48	5.4	7.4	10.5	13.2
1250	103	380	45	9.5	300	47	6.9	241	48	5.3	7.4	10.5	13.2
1250	138	396	45	9.2	314	47	6.7	253	48	5.3	7.4	10.5	13.2
1250	207	419	44	8.7	334	46	6.5	269	48	5.1	7.4	10.5	13.2
1250	Open	501	42	7.0	407	45	5.5	334	47	4.5	7.9	10.5	13.2
1500	69	382	46	9.7	298	47	6.9	236	48	5.3	7.7	11.0	13.8
1500	103	400	45	9.5	313	47	6.8	248	48	5.2	7.7	11.0	13.8
1500	138	419	45	9.3	328	47	6.7	261	48	5.2	7.7	11.0	13.8
1500	207	446	45	8.8	351	47	6.5	280	48	5.0	7.7	11.0	13.8
1500	Open	546	43	6.9	440	45	5.4	356	47	4.5	8.2	11.0	13.8
1750	69	395	46	9.7	306	48	6.9	239	49	5.3	7.9	11.4	14.4
1750	103	416	46	9.5	322	48	6.8	253	49	5.2	7.9	10.6	14.4
1750	138	437	46	9.3	339	47	6.7	266	48	5.1	7.9	11.4	14.4
1750	207	468	45	8.8	365	47	6.4	287	48	5.0	7.9	11.4	14.4
1750	Open	585	43	6.9	467	46	5.4	374	47	4.4	8.5	11.4	14.4
2000	Open	620	43	6.9	491	46	5.3	388	47	4.3	8.7	11.8	14.9
2250	Open	648	44	6.8	509	46	5.3	397	48	4.2	9.0	12.2	15.4
2500	Open	674	44	6.8	526	46	5.2	406	48	4.2	9.2	12.5	15.8

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115 to 138 kV Shielded Single Conductor Filled X L P E or E P R Power Cable

Direct Buried - 1 Circuit - Three Cables - Spaced

25°C Earth Ambient

Total Watts/ft for 90°C - Aluminum Conductor - Concentric Strand

		60 Rho		90 Rho		120 Rho	
		75 LF	100 LF	75 LF	100 LF	75 LF	100 LF
Condr Size	Shield Res						
750	69	65.5	54.0	52.0	41.2	42.8	33.3
750	103	63.8	52.6	50.8	40.3	42.0	32.7
750	138	62.3	51.4	49.7	39.7	41.2	32.3
750	207	59.5	49.6	47.9	38.6	39.9	31.6
1000	69	70.6	57.6	55.3	43.5	45.3	34.7
1000	103	68.7	56.3	54.2	42.6	44.4	34.2
1000	138	67.1	54.8	52.9	41.8	43.4	33.7
1000	207	64.3	52.8	51.0	40.6	42.1	33.0
1000	Open	54.7	46.4	44.6	36.6	37.6	30.3
1250	69	74.4	60.2	57.5	45.1	46.8	35.8
1250	103	72.5	59.0	56.5	44.2	46.2	35.4
1250	138	70.7	57.5	55.5	43.4	45.2	34.8
1250	207	68.1	55.4	53.4	42.1	43.7	33.9
1250	Open	57.0	48.0	46.1	37.6	38.6	31.0
1500	69	77.8	62.3	59.6	46.4	48.1	36.7
1500	103	75.8	61.2	58.5	45.6	47.4	36.2
1500	138	73.9	59.8	57.5	44.8	46.7	35.6
1500	207	71.2	57.5	55.4	43.4	45.1	34.8
1500	Open	58.9	49.3	47.4	38.5	39.5	31.6
1750	69	80.5	64.0	61.1	47.3	49.0	37.5
1750	103	78.4	62.8	60.1	46.7	48.6	36.9
1750	138	76.6	61.8	59.1	45.9	47.8	36.4
1750	207	73.8	59.4	57.2	44.4	46.2	35.5
1750	Open	60.5	50.6	48.5	39.3	40.3	32.1
2000	Open	62.0	51.6	49.4	40.0	40.9	32.6
2250	Open	63.3	52.5	50.3	40.5	41.5	33.0
2500	Open	64.6	53.5	51.1	41.1	42.1	33.4

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115 to 138 kV Shielded Single Conductor Filled X L P E or E P R Power Cable

Direct Buried - 1 Circuit - Three Cables - Spaced

25°C Earth Ambient

Total Watts/ft for 80°C - Aluminum Conductor - Concentric Strand

		60 Rho		90 Rho		120 Rho	
		75 LF	100 LF	75 LF	100 LF	75 LF	100 LF
Condr Size	Shield Res.						
750	69	55.8	46.3	44.2	35.1	36.3	28.3
750	103	54.6	45.2	43.4	34.5	35.7	27.9
750	138	53.2	44.1	42.4	33.9	34.9	27.5
750	207	51.0	42.5	40.8	33.0	33.8	26.9
1000	69	60.1	49.3	46.9	37.0	38.3	29.5
1000	103	58.7	48.2	46.0	36.3	37.5	29.2
1000	138	57.2	47.1	45.1	35.7	36.9	28.7
1000	207	55.1	45.3	43.4	34.7	35.6	28.1
1000	Open	46.3	39.4	37.7	31.2	31.6	25.7
1250	69	63.5	51.4	48.8	38.3	39.4	30.5
1250	103	61.9	50.5	48.0	37.8	39.0	30.1
1250	138	60.5	49.4	47.2	37.1	38.3	29.7
1250	207	58.3	47.4	45.5	36.0	37.1	29.0
1250	Open	48.2	40.8	38.9	32.0	32.6	26.3
1500	69	66.1	53.2	50.4	39.4	40.5	31.2
1500	103	64.6	52.2	49.6	38.9	40.0	30.8
1500	138	63.1	51.4	48.8	38.3	39.4	30.4
1500	207	60.8	49.3	47.1	37.1	38.2	29.7
1500	Open	49.8	41.9	40.0	32.7	33.3	26.9
1750	69	68.3	54.5	51.6	40.2	41.3	31.7
1750	103	66.8	53.7	50.9	39.8	40.9	31.4
1750	138	65.4	52.8	50.1	39.1	40.4	31.0
1750	207	63.0	50.9	48.6	38.0	39.1	30.3
1750	Open	51.2	43.0	41.0	33.4	33.9	27.3
2000	Open	52.4	43.9	41.7	34.0	34.4	27.7
2250	Open	53.6	44.7	42.4	34.5	34.9	28.1
2500	Open	54.6	45.5	43.0	34.9	35.3	28.4

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1584

115 to 138 kV Shielded Single Conductor Filled X L P E or E P R Power Cable

Direct Buried - 1 Circuit - Three Cables - Spaced

25°C Earth Ambient

Total Watts/ft for 65°C - Aluminum Conductor - Concentric Strand

		60 Rho		90 Rho		120 Rho	
		75 LF	100 LF	75 LF	100 LF	75 LF	100 LF
Condr Size	Shield Res						
750	69	41.1	34.1	32.2	25.8	26.1	20.8
750	103	40.2	33.5	31.6	25.4	25.8	20.6
750	138	39.2	32.8	31.0	25.0	25.3	20.3
750	207	37.7	31.6	29.9	24.4	24.5	19.9
1000	69	44.1	36.3	34.0	27.1	27.4	21.6
1000	103	43.1	35.7	33.5	26.8	27.0	21.4
1000	138	42.2	34.9	32.9	26.4	26.6	21.1
1000	207	40.7	33.7	31.7	25.7	25.8	20.7
1000	Open	33.8	29.0	27.3	22.9	22.8	18.9
1250	69	46.5	37.8	35.3	28.0	28.3	22.2
1250	103	45.4	37.3	34.8	27.7	28.0	22.0
1250	138	44.5	36.7	34.3	27.3	27.5	21.8
1250	207	43.0	35.3	33.1	26.6	26.7	21.4
1250	Open	35.1	30.0	28.2	23.6	23.4	19.4
1500	69	48.2	39.0	36.3	28.9	29.0	22.7
1500	103	47.3	38.5	35.9	28.5	28.7	22.5
1500	138	46.4	37.9	35.3	28.2	28.2	22.3
1500	207	44.7	36.7	34.3	27.4	27.4	21.8
1500	Open	36.3	30.9	28.9	24.2	23.8	19.8
1750	69	49.8	40.0	37.2	29.5	29.5	23.0
1750	103	48.8	39.5	36.7	29.2	29.3	22.9
1750	138	47.9	39.0	36.2	28.7	28.8	22.7
1750	207	46.3	37.7	35.3	28.1	28.0	22.2
1750	Open	37.3	31.7	29.5	24.6	24.3	20.1
2000	Open	38.1	32.3	30.1	25.0	24.6	20.4
2250	Open	38.9	33.0	30.6	25.4	24.9	20.7
2500	Open	39.6	33.4	31.0	25.7	25.2	20.9

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115 to 138 kV Shielded Single Conductor Filled X L P E or E P R Power Cable

Direct Buried - 1 Circuit - Three Cables - Spaced

25°C Earth Ambient

Total Watts/ft for 50°C - Aluminum Conductor - Concentric Strand

		60 Rho		90 Rho		120 Rho	
		75 LF	100 LF	75 LF	100 LF	75 LF	100 LF
Condr Size	Shield Res						
750	69	25.6	21.6	19.6	16.2	15.6	13.0
750	103	25.2	21.3	19.3	16.1	15.4	12.9
750	138	24.7	20.9	19.1	15.9	15.2	12.8
750	207	23.8	20.3	18.4	15.6	14.9	12.6
1000	69	27.4	22.9	20.7	16.9	16.1	13.4
1000	103	26.9	22.7	20.4	16.9	16.0	13.4
1000	138	26.4	22.2	20.1	16.7	15.9	13.3
1000	207	25.6	21.6	19.5	16.3	15.5	13.1
1000	Open	21.2	18.6	16.9	14.7	13.9	12.2
1250	69	28.7	23.9	21.4	17.4	16.5	13.8
1250	103	28.3	23.6	21.2	17.3	16.4	13.7
1250	138	27.8	23.3	20.8	17.2	16.2	13.6
1250	207	26.9	22.5	20.2	16.9	15.9	13.4
1250	Open	22.0	19.3	17.4	15.1	14.2	12.5
1500	69	29.7	24.6	21.9	17.9	16.8	14.0
1500	103	29.2	24.4	21.8	17.8	16.7	13.9
1500	138	28.8	24.0	21.4	17.6	16.5	13.9
1500	207	27.9	23.3	20.8	17.3	16.2	13.7
1500	Open	22.7	19.9	17.8	15.5	14.4	12.7
1750	69	30.5	25.1	22.4	18.2	17.0	14.2
1750	103	30.1	25.0	22.1	18.1	16.9	14.2
1750	138	29.6	24.7	21.9	18.0	16.7	14.1
1750	207	28.8	24.0	21.3	17.6	16.4	13.9
1750	Open	23.3	20.3	18.1	15.8	14.6	12.9
2000	Open	23.8	20.8	18.4	16.1	14.8	13.1
2250	Open	24.2	21.2	18.7	16.3	14.9	13.3
2500	Open	24.6	21.5	18.9	16.5	15.0	13.4

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115 to 138 kV Shielded Single Conductor Filled X L P E or E P R Power Cable

Direct Buried - 1 Circuit - Three Cables - Spaced

25°C Earth Ambient

Size	Res	OD	Wd	Rac	Qs	Ri	Rj	Re @ 90 Rho & loss factor 75%	Re @ 90 Rho & loss factor 100%
90°C - Aluminum Conductor - Concentric Strand									
750	69	3.218	2.00	30.02	1.813	1.93	0.29	2.14	3.48
750	103	3.218	2.00	30.02	1.502	1.93	0.29	2.33	3.48
750	138	3.218	2.00	30.02	1.399	1.93	0.29	2.33	3.48
750	207	3.218	2.00	30.02	1.278	1.93	0.29	2.33	3.48
1000	69	3.407	2.18	22.74	2.039	1.76	0.27	2.11	3.46
1000	103	3.407	2.18	22.74	1.814	1.76	0.27	2.11	3.46
1000	138	3.407	2.18	22.74	1.507	1.76	0.27	2.30	3.46
1000	207	3.407	2.18	22.74	1.353	1.76	0.27	2.30	3.46
1000	Open	3.407	2.18	22.74	1.005	1.76	0.27	2.30	3.46
1250	69	3.540	2.34	18.39	2.248	1.64	0.26	2.09	3.44
1250	103	3.540	2.34	18.39	1.974	1.64	0.26	2.09	3.44
1250	138	3.540	2.34	18.39	1.771	1.64	0.26	2.09	3.44
1250	207	3.540	2.34	18.39	1.421	1.64	0.26	2.28	3.44
1250	Open	3.540	2.34	18.39	1.006	1.64	0.26	2.28	3.44
1500	69	3.660	2.48	15.55	2.440	1.54	0.25	2.08	3.11
1500	103	3.660	2.48	15.55	2.120	1.54	0.25	2.08	3.42
1500	138	3.660	2.48	15.55	1.885	1.54	0.25	2.08	3.42
1500	207	3.660	2.48	15.55	1.483	1.54	0.25	2.27	3.42
1500	Open	3.660	2.48	15.55	1.008	1.54	0.25	2.27	3.42
1750	69	3.770	2.61	13.54	2.617	1.46	0.24	2.06	3.10
1750	103	3.770	2.61	13.54	2.252	1.46	0.24	2.06	3.41
1750	138	3.770	2.61	13.54	1.988	1.46	0.24	2.06	3.41
1750	207	3.770	2.61	13.54	1.540	1.46	0.24	2.25	3.41
1750	Open	3.770	2.61	13.54	1.010	1.46	0.24	2.25	3.41
2000	Open	3.873	2.73	12.06	1.012	1.39	0.24	2.24	3.40
2250	Open	3.968	2.84	11.02	1.014	1.34	0.23	2.23	3.38
2500	Open	4.059	2.95	10.12	1.016	1.29	0.22	2.22	3.37

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115 to 138 kV Shielded Single Conductor Filled X L P E or E P R Power Cable

Direct Buried - 1 Circuit - Three Cables - Spaced

25°C Earth Ambient

Size	Res	OD	Wd	Rac	Qs	Ri	Rj	Re @ 90 Rho & loss factor 75%	Re @ 90 Rho & loss factor 100%
			80°C - Aluminum Conductor - Concentric Strand						
750	69	3.218	2.00	30.02	1.813	1.93	0.29	2.14	3.48
750	103	3.218	2.00	30.02	1.502	1.93	0.29	2.33	3.48
750	138	3.218	2.00	30.02	1.399	1.93	0.29	2.33	3.48
750	207	3.218	2.00	30.02	1.278	1.93	0.29	2.33	3.48
1000	69	3.407	2.18	22.74	2.039	1.76	0.27	2.11	3.46
1000	103	3.407	2.18	22.74	1.814	1.76	0.27	2.11	3.46
1000	138	3.407	2.18	22.74	1.507	1.76	0.27	2.30	3.46
1000	207	3.407	2.18	22.74	1.353	1.76	0.27	2.30	3.46
1000	Open	3.407	2.18	22.74	1.005	1.76	0.27	2.30	3.46
1250	69	3.540	2.34	18.39	2.248	1.64	0.26	2.09	3.44
1250	103	3.540	2.34	18.39	1.974	1.64	0.26	2.09	3.44
1250	138	3.540	2.34	18.39	1.771	1.64	0.26	2.09	3.44
1250	207	3.540	2.34	18.39	1.421	1.64	0.26	2.28	3.44
1250	Open	3.540	2.34	18.39	1.006	1.64	0.26	2.28	3.44
1500	69	3.660	2.48	15.55	2.440	1.54	0.25	2.08	3.11
1500	103	3.660	2.48	15.55	2.120	1.54	0.25	2.08	3.42
1500	138	3.660	2.48	15.55	1.885	1.54	0.25	2.08	3.42
1500	207	3.660	2.48	15.55	1.483	1.54	0.25	2.27	3.42
1500	Open	3.660	2.48	15.55	1.008	1.54	0.25	2.27	3.42
1750	69	3.770	2.61	13.54	2.617	1.46	0.24	2.06	3.10
1750	103	3.770	2.61	13.54	2.252	1.46	0.24	2.06	3.41
1750	138	3.770	2.61	13.54	1.988	1.46	0.24	2.06	3.41
1750	207	3.770	2.61	13.54	1.540	1.46	0.24	2.25	3.41
1750	Open	3.770	2.61	13.54	1.010	1.46	0.24	2.25	3.41
2000	Open	3.873	2.73	12.06	1.012	1.39	0.24	2.24	3.40
2250	Open	3.968	2.84	11.02	1.014	1.34	0.23	2.23	3.38
2500	Open	4.059	2.95	10.12	1.016	1.29	0.22	2.22	3.37

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115 to 138 kV Shielded Single Conductor Filled X L P E or E P R Power Cable

Direct Buried - 1 Circuit - Three Cables - Spaced

25°C Earth Ambient

Size	Res	OD	Wd	Rac	Qs	Ri	Rj	Re @ 90 Rho & loss factor 75%	Re @ 90 Rho & loss factor 100%
			65°C - Aluminum Conductor - Concentric Strand						
750	69	3.218	2.00	30.02	1.813	1.93	0.29	2.14	3.48
750	103	3.218	2.00	30.02	1.502	1.93	0.29	2.33	3.48
750	138	3.218	2.00	30.02	1.399	1.93	0.29	2.33	3.48
750	207	3.218	2.00	30.02	1.278	1.93	0.29	2.33	3.48
1000	69	3.407	2.18	22.74	2.039	1.76	0.27	2.11	3.46
1000	103	3.407	2.18	22.74	1.814	1.76	0.27	2.11	3.46
1000	138	3.407	2.18	22.74	1.507	1.76	0.27	2.30	3.46
1000	207	3.407	2.18	22.74	1.353	1.76	0.27	2.30	3.46
1000	Open	3.407	2.18	22.74	1.005	1.76	0.27	2.30	3.46
1250	69	3.540	2.34	18.39	2.248	1.64	0.26	2.09	3.44
1250	103	3.540	2.34	18.39	1.974	1.64	0.26	2.09	3.44
1250	138	3.540	2.34	18.39	1.771	1.64	0.26	2.09	3.44
1250	207	3.540	2.34	18.39	1.421	1.64	0.26	2.28	3.44
1250	Open	3.540	2.34	18.39	1.006	1.64	0.26	2.28	3.44
1500	69	3.660	2.48	15.55	2.440	1.54	0.25	2.08	3.11
1500	103	3.660	2.48	15.55	2.120	1.54	0.25	2.08	3.42
1500	138	3.660	2.48	15.55	1.885	1.54	0.25	2.08	3.42
1500	207	3.660	2.48	15.55	1.483	1.54	0.25	2.27	3.42
1500	Open	3.660	2.48	15.55	1.008	1.54	0.25	2.27	3.42
1750	69	3.770	2.61	13.54	2.617	1.46	0.24	2.06	3.10
1750	103	3.770	2.61	13.54	2.252	1.46	0.24	2.06	3.41
1750	138	3.770	2.61	13.54	1.988	1.46	0.24	2.06	3.41
1750	207	3.770	2.61	13.54	1.540	1.46	0.24	2.25	3.41
1750	Open	3.770	2.61	13.54	1.010	1.46	0.24	2.25	3.41
2000	Open	3.873	2.73	12.06	1.012	1.39	0.24	2.24	3.40
2250	Open	3.968	2.84	11.02	1.014	1.34	0.23	2.23	3.38
2500	Open	4.059	2.95	10.12	1.016	1.29	0.22	2.22	3.37

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115 to 138 kV Shielded Single Conductor Filled X L P E or E P R Power Cable

Direct Buried - 1 Circuit - Three Cables - Spaced

25°C Earth Ambient

Size	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	2.00	30.02	1.813	1.93	0.29	2.14	3.48
750	103	3.218	2.00	30.02	1.502	1.93	0.29	2.33	3.48
750	138	3.218	2.00	30.02	1.399	1.93	0.29	2.33	3.48
750	207	3.218	2.00	30.02	1.278	1.93	0.29	2.33	3.48
1000	69	3.407	2.18	22.74	2.039	1.76	0.27	2.11	3.46
1000	103	3.407	2.18	22.74	1.814	1.76	0.27	2.11	3.46
1000	138	3.407	2.18	22.74	1.507	1.76	0.27	2.30	3.46
1000	207	3.407	2.18	22.74	1.353	1.76	0.27	2.30	3.46
1000	Open	3.407	2.18	22.74	1.005	1.76	0.27	2.30	3.46
1250	69	3.540	2.34	18.39	2.248	1.64	0.26	2.09	3.44
1250	103	3.540	2.34	18.39	1.974	1.64	0.26	2.09	3.44
1250	138	3.540	2.34	18.39	1.771	1.64	0.26	2.09	3.44
1250	207	3.540	2.34	18.39	1.421	1.64	0.26	2.28	3.44
1250	Open	3.540	2.34	18.39	1.006	1.64	0.26	2.28	3.44
1500	69	3.660	2.48	15.55	2.440	1.54	0.25	2.08	3.11
1500	103	3.660	2.48	15.55	2.120	1.54	0.25	2.08	3.42
1500	138	3.660	2.48	15.55	1.885	1.54	0.25	2.08	3.42
1500	207	3.660	2.48	15.55	1.483	1.54	0.25	2.27	3.42
1500	Open	3.660	2.48	15.55	1.008	1.54	0.25	2.27	3.42
1750	69	3.770	2.61	13.54	2.617	1.46	0.24	2.06	3.10
1750	103	3.770	2.61	13.54	2.252	1.46	0.24	2.06	3.41
1750	138	3.770	2.61	13.54	1.988	1.46	0.24	2.06	3.41
1750	207	3.770	2.61	13.54	1.540	1.46	0.24	2.25	3.41
1750	Open	3.770	2.61	13.54	1.010	1.46	0.24	2.25	3.41
2000	Open	3.873	2.73	12.06	1.012	1.39	0.24	2.24	3.40
2250	Open	3.968	2.84	11.02	1.014	1.34	0.23	2.23	3.38
2500	Open	4.059	2.95	10.12	1.016	1.29	0.22	2.22	3.37

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115 to 138 kV Shielded Single Conductor Filled X L P E or E P R Power Cable

Direct Buried - 2 Circuits - Six Cables - Spaced

25°C Earth Ambient

90°C - Aluminum Conductor - Concentric Strand

		---- 60 Rho--- Interface Temp Flux			---- 90 Rho--- Interface Temp Flux			----120 Rho--- Interface Temp Flux			delta Td for .0150 pf & Rho		
Condr Size	Shield Res	Amps	°C	w/ft²	Amps	°C	w/ft²	Amps	°C	w/ft²	60	90	120
						75% LF							
750	69	559	67	24.7	480	73	18.9	423	77	15.2	8.3	11.2	14.1
750	103	577	66	23.9	498	72	18.3	439	76	14.8	8.3	11.2	14.1
750	138	593	65	23.0	513	71	17.8	454	75	14.5	8.3	11.2	14.1
750	207	614	64	21.8	534	70	17.1	473	74	13.9	8.3	11.2	14.1
1000	69	624	69	25.2	531	75	18.9	465	78	15.1	8.8	11.9	15.1
1000	103	650	68	24.3	555	74	18.4	487	78	14.7	8.8	11.9	15.1
1000	138	672	67	23.4	576	73	17.8	506	77	14.4	8.8	11.9	15.1
1000	207	702	66	22.2	605	72	17.0	532	76	13.8	8.8	11.9	15.1
1000	Open	791	61	18.5	691	68	14.7	614	73	12.1	8.8	11.9	15.1
1250	69	675	71	25.8	570	76	19.1	496	80	15.1	9.2	12.6	16.0
1250	103	707	70	24.8	599	75	18.6	522	79	14.7	9.2	12.6	16.0
1250	138	735	69	23.8	625	75	18.0	546	78	14.4	9.2	12.6	16.0
1250	207	774	67	22.6	661	73	17.2	579	77	13.7	9.2	12.6	16.0
1250	Open	892	62	18.5	775	69	14.6	686	74	12.0	9.2	12.6	16.0
1500	69	715	72	26.1	601	77	19.1	520	81	14.9	9.6	13.2	16.8
1500	103	754	71	25.0	635	77	18.6	551	80	14.6	9.6	13.2	16.8
1500	138	787	70	24.1	666	76	18.0	579	79	14.2	9.6	13.2	16.8
1500	207	834	69	22.8	709	75	17.2	618	78	13.7	9.6	13.2	16.8
1500	Open	981	63	18.4	849	70	14.4	748	74	11.8	9.6	13.2	16.8
1750	69	749	73	26.1	626	78	19.0	539	81	14.8	10.0	13.7	17.5
1750	103	793	72	25.2	665	78	18.5	574	81	14.5	10.0	13.7	17.5
1750	138	832	71	24.3	700	77	17.9	605	80	14.1	10.0	13.7	17.5
1750	207	886	70	22.9	749	76	17.1	650	79	13.6	10.0	13.7	17.5
1750	Open	1061	64	18.3	914	71	14.3	803	75	11.7	10.0	13.7	17.5
2000	Open	1133	65	18.2	973	71	14.2	851	76	11.5	10.3	14.2	18.1
2250	Open	1194	65	18.2	1021	72	14.1	891	76	11.4	10.6	14.7	18.7
2500	Open	1253	66	18.2	1068	73	13.9	929	77	11.2	10.9	15.1	19.3

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115 to 138 kV Shielded Single Conductor Filled X L P E or E P R Power Cable

Direct Buried - 2 Circuits - Six Cables - Spaced

25°C Earth Ambient

90°C - Aluminum Conductor - Concentric Strand

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 .0150 pf & Rho 60	90	120
						100% LF							
750	69	492	72	19.7	414	77	14.6	360	80	11.6	8.3	11.2	14.1
750	103	510	71	19.1	430	76	14.2	374	80	11.4	8.3	11.2	14.1
750	138	525	70	18.5	445	76	14.0	388	79	11.2	8.3	11.2	14.1
750	207	546	69	17.8	464	75	13.5	405	79	10.8	8.3	11.2	14.1
1000	69	545	74	19.8	454	79	14.6	392	82	11.4	8.8	11.9	15.1
1000	103	570	73	19.3	476	78	14.2	412	81	11.2	8.8	11.9	15.1
1000	138	591	72	18.7	496	77	13.9	429	81	11.0	8.8	11.9	15.1
1000	207	620	71	17.8	522	77	13.3	453	80	10.7	8.8	11.9	15.1
1000	Open	708	67	15.2	604	73	11.8	529	77	9.6	8.8	11.9	15.1
1250	69	586	76	20.1	485	80	14.6	416	83	11.3	9.2	12.6	16.0
1250	103	616	75	19.4	512	79	14.2	440	82	11.1	9.2	12.6	16.0
1250	138	643	74	18.9	535	79	13.8	461	82	10.9	9.2	12.6	16.0
1250	207	679	72	18.0	569	78	13.4	491	81	10.6	9.2	12.6	16.0
1250	Open	795	68	15.2	675	74	11.7	589	78	9.5	9.2	12.6	16.0
1500	69	619	77	20.1	509	81	14.4	435	83	11.3	9.6	13.2	16.8
1500	103	654	76	19.5	540	80	14.1	462	83	11.1	9.6	13.2	16.8
1500	138	685	75	18.9	567	80	13.8	486	82	10.9	9.6	13.2	16.8
1500	207	729	74	18.1	606	79	13.3	521	82	10.4	9.6	13.2	16.8
1500	Open	872	69	15.1	737	75	11.5	640	79	9.3	9.6	13.2	16.8
1750	69	644	78	20.1	528	82	14.4	449	84	11.1	10.0	13.7	17.5
1750	103	689	77	19.7	563	81	14.1	480	84	10.9	10.0	13.7	17.5
1750	138	721	76	18.9	594	80	13.7	507	83	10.7	10.0	13.7	17.5
1750	207	771	75	18.0	638	79	13.2	546	82	10.3	10.0	13.7	17.5
1750	Open	940	70	15.0	792	76	11.3	685	79	9.2	10.0	13.7	17.5
2000	Open	1002	70	14.9	840	76	11.2	725	80	9.1	10.3	14.2	18.1
2250	Open	1053	71	14.7	880	77	11.2	757	80	9.0	10.6	14.7	18.7
2500	Open	1103	71	14.7	919	77	11.0	788	81	8.8	10.9	15.1	19.3

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1592

115 to 138 kV Shielded Single Conductor Filled X L P E or E P R Power Cable

Direct Buried - 2 Circuits - Six Cables - Spaced

25°C Earth Ambient

80°C - Aluminum Conductor - Concentric Strand

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 .0150 pf & Rho 60	90	120
						75% LF							
750	69	507	61	21.0	433	66	16.0	379	70	12.8	8.3	11.2	14.1
750	103	524	60	20.4	449	66	15.5	393	69	12.5	8.3	11.2	14.1
750	138	539	60	19.7	463	65	15.2	406	68	12.2	8.3	11.2	14.1
750	207	560	59	18.8	483	64	14.5	425	68	11.8	8.3	11.2	14.1
1000	69	565	63	21.5	477	68	16.0	414	71	12.7	8.8	11.9	15.1
1000	103	587	62	20.9	498	67	15.6	433	70	12.4	8.8	11.9	15.1
1000	138	609	61	20.1	517	67	15.1	450	70	12.1	8.8	11.9	15.1
1000	207	638	60	19.1	545	66	14.6	476	69	11.7	8.8	11.9	15.1
1000	Open	728	56	15.6	632	62	12.3	558	66	10.2	8.8	11.9	15.1
1250	69	608	65	21.9	509	69	16.1	439	72	12.6	9.2	12.6	16.0
1250	103	637	64	21.1	535	69	15.6	462	71	12.3	9.2	12.6	16.0
1250	138	663	63	20.4	559	68	15.2	484	71	12.1	9.2	12.6	16.0
1250	207	700	62	19.3	593	67	14.6	515	70	11.5	9.2	12.6	16.0
1250	Open	820	57	15.6	707	63	12.3	621	67	10.0	9.2	12.6	16.0
1500	69	643	66	22.1	535	70	16.1	458	73	12.5	9.6	13.2	16.8
1500	103	677	65	21.4	565	70	15.7	485	72	12.2	9.6	13.2	16.8
1500	138	708	64	20.7	593	69	15.2	510	72	12.0	9.6	13.2	16.8
1500	207	752	63	19.5	633	68	14.6	547	71	11.5	9.6	13.2	16.8
1500	Open	901	58	15.6	773	64	12.1	676	68	9.9	9.6	13.2	16.8
1750	69	671	67	22.2	556	71	16.0	474	73	12.4	10.0	13.7	17.5
1750	103	710	66	21.5	589	70	15.6	504	73	12.2	10.0	13.7	17.5
1750	138	746	65	20.8	621	70	15.2	532	72	11.9	10.0	13.7	17.5
1750	207	797	64	19.7	667	69	14.5	573	72	11.4	10.0	13.7	17.5
1750	Open	973	59	15.5	832	65	12.1	723	68	9.7	10.0	13.7	17.5
2000	Open	1038	59	15.5	883	65	11.9	765	69	9.7	10.3	14.2	18.1
2250	Open	1092	60	15.4	926	66	11.8	799	69	9.5	10.6	14.7	18.7
2500	Open	1145	60	15.3	967	66	11.7	832	70	9.4	10.9	15.1	19.3

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115 to 138 kV Shielded Single Conductor Filled X L P E or E P R Power Cable

Direct Buried - 2 Circuits - Six Cables - Spaced

25°C Earth Ambient

80°C - Aluminum Conductor - Concentric Strand

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 .0150 pf & Rho 60	90	120
						100% LF							
750	69	446	65	16.9	373	70	12.5	322	72	9.9	8.3	11.2	14.1
750	103	462	65	16.4	387	69	12.2	335	72	9.7	8.3	11.2	14.1
750	138	477	64	15.9	401	69	12.0	347	72	9.5	8.3	11.2	14.1
750	207	497	63	15.3	420	68	11.5	364	71	9.3	8.3	11.2	14.1
1000	69	493	67	16.9	408	71	12.3	349	74	9.8	8.8	11.9	15.1
1000	103	514	66	16.5	427	71	12.1	366	73	9.5	8.8	11.9	15.1
1000	138	534	66	16.0	445	70	11.9	382	73	9.4	8.8	11.9	15.1
1000	207	562	65	15.4	470	69	11.4	405	72	9.1	8.8	11.9	15.1
1000	Open	652	61	13.0	553	66	10.1	480	70	8.2	8.8	11.9	15.1
1250	69	527	68	17.0	433	72	12.3	368	74	9.6	9.2	12.6	16.0
1250	103	554	68	16.6	456	72	12.1	389	74	9.5	9.2	12.6	16.0
1250	138	579	67	16.2	478	71	11.9	408	74	9.3	9.2	12.6	16.0
1250	207	614	66	15.4	509	70	11.4	436	73	9.1	9.2	12.6	16.0
1250	Open	731	62	12.9	616	67	9.9	533	70	8.1	9.2	12.6	16.0
1500	69	555	69	17.1	453	73	12.3	383	75	9.5	9.6	13.2	16.8
1500	103	586	69	16.7	480	72	12.0	407	75	9.4	9.6	13.2	16.8
1500	138	615	68	16.2	505	72	11.8	429	74	9.2	9.6	13.2	16.8
1500	207	657	67	15.4	541	71	11.4	461	74	9.0	9.6	13.2	16.8
1500	Open	800	63	12.8	672	68	9.8	578	71	7.9	9.6	13.2	16.8
1750	69	577	70	17.1	469	74	12.2	395	75	9.4	10.0	13.7	17.5
1750	103	612	70	16.6	499	73	12.0	421	75	9.2	10.0	13.7	17.5
1750	138	645	69	16.2	527	73	11.7	445	75	9.1	10.0	13.7	17.5
1750	207	692	68	15.4	568	72	11.2	481	74	8.8	10.0	13.7	17.5
1750	Open	862	63	12.8	720	68	9.7	617	72	7.8	10.0	13.7	17.5
2000	Open	918	64	12.6	763	69	9.6	651	72	7.7	10.3	14.2	18.1
2250	Open	963	64	12.5	798	69	9.4	679	72	7.6	10.6	14.7	18.7
2500	Open	1008	65	12.5	832	70	9.4	705	73	7.5	10.9	15.1	19.3

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115 to 138 kV Shielded Single Conductor Filled X L P E or E P R Power Cable

Direct Buried - 2 Circuits - Six Cables - Spaced

25°C Earth Ambient

65°C - Aluminum Conductor - Concentric Strand

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 .0150 pf & Rho 60	90	120
						75% LF							
750	69	419	53	15.4	351	56	11.5	301	59	9.0	8.3	11.2	14.1
750	103	432	52	15.0	363	56	11.3	311	58	8.9	8.3	11.2	14.1
750	138	445	52	14.5	375	55	11.0	322	58	8.8	8.3	11.2	14.1
750	207	464	51	13.8	393	55	10.6	339	57	8.4	8.3	11.2	14.1
1000	69	462	54	15.6	383	57	11.4	325	60	9.0	8.8	11.9	15.1
1000	103	480	53	15.2	398	57	11.2	338	59	8.9	8.8	11.9	15.1
1000	138	498	53	14.8	415	57	11.0	353	59	8.6	8.8	11.9	15.1
1000	207	524	52	14.0	439	56	10.5	374	58	8.3	8.8	11.9	15.1
1000	Open	612	49	11.3	522	53	9.0	451	56	7.3	8.8	11.9	15.1
1250	69	495	55	15.9	406	58	11.4	341	60	8.8	9.2	12.6	16.0
1250	103	517	55	15.4	425	58	11.2	357	60	8.7	9.2	12.6	16.0
1250	138	539	54	15.0	444	58	11.0	375	60	8.5	9.2	12.6	16.0
1250	207	572	53	14.1	474	57	10.6	401	59	8.2	9.2	12.6	16.0
1250	Open	688	50	11.3	582	54	8.8	498	57	7.1	9.2	12.6	16.0
1500	69	520	56	16.0	423	59	11.4	352	61	8.7	9.6	13.2	16.8
1500	103	546	55	15.6	445	59	11.2	371	61	8.6	9.6	13.2	16.8
1500	138	572	55	15.0	468	58	11.0	391	60	8.5	9.6	13.2	16.8
1500	207	611	54	14.3	502	58	10.5	421	60	8.1	9.6	13.2	16.8
1500	Open	753	50	11.3	633	55	8.8	538	58	7.0	9.6	13.2	16.8
1750	69	541	57	15.9	436	59	11.2	361	61	8.6	10.0	13.7	17.5
1750	103	570	56	15.6	461	59	11.1	382	61	8.4	10.0	13.7	17.5
1750	138	599	55	15.1	486	59	10.8	404	61	8.3	10.0	13.7	17.5
1750	207	643	55	14.3	525	58	10.4	437	60	8.0	10.0	13.7	17.5
1750	Open	812	51	11.2	678	55	8.6	573	58	6.9	10.0	13.7	17.5
2000	Open	864	51	11.1	717	56	8.6	602	58	6.8	10.3	14.2	18.1
2250	Open	906	52	11.1	748	56	8.5	624	59	6.7	10.6	14.7	18.7
2500	Open	948	52	11.0	778	56	8.4	646	59	6.6	10.9	15.1	19.3

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115 to 138 kV Shielded Single Conductor Filled X L P E or E P R Power Cable

Direct Buried - 2 Circuits - Six Cables - Spaced

25°C Earth Ambient

65°C - Aluminum Conductor - Concentric Strand

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 .0150 pf & Rho 60	90	120
						100% LF							
750	69	367	55	12.3	302	59	9.1	255	60	7.2	8.3	11.2	14.1
750	103	380	55	12.1	312	58	9.0	264	60	7.1	8.3	11.2	14.1
750	138	392	55	11.9	324	58	8.8	274	60	7.0	8.3	11.2	14.1
750	207	411	54	11.4	340	57	8.5	289	60	6.8	8.3	11.2	14.1
1000	69	402	57	12.4	327	60	9.0	273	61	7.1	8.8	11.9	15.1
1000	103	419	56	12.2	341	59	8.9	286	61	7.0	8.8	11.9	15.1
1000	138	436	56	11.9	355	59	8.7	298	61	6.8	8.8	11.9	15.1
1000	207	461	55	11.3	377	58	8.4	318	60	6.7	8.8	11.9	15.1
1000	Open	548	52	9.6	457	56	7.4	389	59	6.1	8.8	11.9	15.1
1250	69	428	58	12.5	344	60	9.0	286	62	6.9	9.2	12.6	16.0
1250	103	448	57	12.2	361	60	8.8	300	62	6.9	9.2	12.6	16.0
1250	138	469	57	12.0	379	60	8.6	315	61	6.8	9.2	12.6	16.0
1250	207	500	56	11.4	406	59	8.4	338	61	6.6	9.2	12.6	16.0
1250	Open	613	53	9.5	507	57	7.3	428	59	5.9	9.2	12.6	16.0
1500	69	448	58	12.5	357	61	8.9	294	62	6.9	9.6	13.2	16.8
1500	103	471	58	12.2	377	60	8.8	311	62	6.8	9.6	13.2	16.8
1500	138	495	57	11.9	397	60	8.6	328	62	6.7	9.6	13.2	16.8
1500	207	531	57	11.5	428	60	8.3	354	61	6.5	9.6	13.2	16.8
1500	Open	670	53	9.5	550	57	7.2	461	60	5.8	9.6	13.2	16.8
1750	69	464	59	12.5	367	61	8.8	300	62	6.8	10.0	13.7	17.5
1750	103	490	58	12.2	389	61	8.7	318	62	6.7	10.0	13.7	17.5
1750	138	517	58	12.0	411	61	8.5	337	62	6.6	10.0	13.7	17.5
1750	207	558	57	11.4	446	60	8.2	366	62	6.4	10.0	13.7	17.5
1750	Open	719	54	9.4	587	58	7.1	489	60	5.8	10.0	13.7	17.5
2000	Open	763	54	9.3	620	58	7.1	512	60	5.7	10.3	14.2	18.1
2250	Open	799	55	9.2	645	58	7.0	530	61	5.6	10.6	14.7	18.7
2500	Open	834	55	9.2	670	59	6.9	547	61	5.6	10.9	15.1	19.3

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115 to 138 kV Shielded Single Conductor Filled X L P E or E P R Power Cable

Direct Buried - 2 Circuits - Six Cables - Spaced

25°C Earth Ambient

50°C - Aluminum Conductor - Concentric Strand

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 .0150 pf & Rho 60	90	120
						75% LF							
750	69	304	44	9.4	243	46	6.9	195	47	5.2	8.3	11.2	14.1
750	103	312	43	9.3	250	46	6.8	201	47	5.2	8.3	11.2	14.1
750	138	322	43	9.0	258	46	6.6	208	47	5.1	8.3	11.2	14.1
750	207	337	43	8.7	272	45	6.4	219	47	5.0	8.3	11.2	14.1
1000	69	332	44	9.4	260	47	6.7	203	48	5.0	8.8	11.9	15.1
1000	103	343	44	9.3	269	47	6.6	211	48	5.0	8.8	11.9	15.1
1000	138	356	44	9.1	280	46	6.5	220	48	4.9	8.8	11.9	15.1
1000	207	376	44	8.6	297	46	6.3	234	48	4.8	8.8	11.9	15.1
1000	Open	452	42	7.1	365	45	5.5	292	47	4.4	8.8	11.9	15.1
1250	69	351	45	9.5	270	47	6.6	206	48	5.0	9.2	12.6	16.0
1250	103	365	45	9.3	281	47	6.6	215	48	4.9	9.2	12.6	16.0
1250	138	381	45	9.1	294	47	6.5	226	48	4.9	9.2	12.6	16.0
1250	207	406	44	8.7	315	47	6.3	242	48	4.7	9.2	12.6	16.0
1250	Open	504	42	7.0	401	45	5.4	313	47	4.2	9.2	12.6	16.0
1500	69	366	46	9.5	277	47	6.6	207	49	4.8	9.6	13.2	16.8
1500	103	381	45	9.3	289	47	6.5	217	49	4.8	9.6	13.2	16.8
1500	138	400	45	9.1	304	47	6.4	228	48	4.7	9.6	13.2	16.8
1500	207	429	45	8.8	328	47	6.2	247	48	4.6	9.6	13.2	16.8
1500	Open	548	43	7.0	430	45	5.3	328	47	4.2	9.6	13.2	16.8
1750	69	377	46	9.4	281	48	6.4	205	49	4.7	10.0	13.7	17.5
1750	103	394	46	9.3	295	48	6.4	216	49	4.7	10.0	13.7	17.5
1750	138	415	45	9.0	311	47	6.3	228	49	4.6	10.0	13.7	17.5
1750	207	448	45	8.7	337	47	6.1	248	49	4.5	10.0	13.7	17.5
1750	Open	587	43	7.0	454	46	5.2	339	48	4.1	10.0	13.7	17.5
2000	Open	620	43	6.9	474	46	5.1	345	48	3.9	10.3	14.2	18.1
2250	Open	647	44	6.8	488	46	5.1	346	48	3.9	10.6	14.7	18.7
2500	Open	672	44	6.8	500	47	5.0	345	48	3.9	10.9	15.1	19.3

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115 to 138 kV Shielded Single Conductor Filled X L P E or E P R Power Cable

Direct Buried - 2 Circuits - Six Cables - Spaced

25°C Earth Ambient

50°C - Aluminum Conductor - Concentric Strand

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 .0150 pf & Rho 60	90	120
						100% LF							
750	69	267	45	7.7	208	47	5.7	165	48	4.4	8.3	11.2	14.1
750	103	274	45	7.6	215	47	5.6	170	48	4.4	8.3	11.2	14.1
750	138	283	45	7.5	222	47	5.6	176	48	4.4	8.3	11.2	14.1
750	207	298	44	7.2	235	47	5.3	187	48	4.3	8.3	11.2	14.1
1000	69	288	46	7.7	221	48	5.5	171	49	4.3	8.8	11.9	15.1
1000	103	299	46	7.6	229	47	5.5	177	49	4.3	8.8	11.9	15.1
1000	138	311	45	7.5	239	47	5.4	185	48	4.3	8.8	11.9	15.1
1000	207	330	45	7.2	255	47	5.3	198	48	4.1	8.8	11.9	15.1
1000	Open	405	43	6.2	320	46	4.7	251	47	3.9	8.8	11.9	15.1
1250	69	303	46	7.7	229	48	5.5	173	49	4.2	9.2	12.6	16.0
1250	103	316	46	7.7	239	48	5.4	180	49	4.2	9.2	12.6	16.0
1250	138	330	46	7.4	250	48	5.4	189	49	4.1	9.2	12.6	16.0
1250	207	354	46	7.2	269	47	5.3	204	49	4.1	9.2	12.6	16.0
1250	Open	450	44	6.2	349	46	4.6	269	48	3.8	9.2	12.6	16.0
1500	69	314	47	7.6	234	48	5.4	172	49	4.1	9.6	13.2	16.8
1500	103	328	47	7.6	245	48	5.3	181	49	4.1	9.6	13.2	16.8
1500	138	345	46	7.4	258	48	5.3	191	49	4.1	9.6	13.2	16.8
1500	207	372	46	7.2	279	48	5.2	207	49	4.0	9.6	13.2	16.8
1500	Open	488	44	6.1	374	47	4.6	281	48	3.8	9.6	13.2	16.8
1750	69	323	47	7.6	236	48	5.3	170	49	4.1	10.0	13.7	17.5
1750	103	339	47	7.5	249	48	5.3	179	49	4.1	10.0	13.7	17.5
1750	138	357	47	7.4	263	48	5.3	190	49	4.0	10.0	13.7	17.5
1750	207	387	46	7.2	286	48	5.1	207	49	4.0	10.0	13.7	17.5
1750	Open	520	44	6.0	393	47	4.6	289	48	3.6	10.0	13.7	17.5
2000	Open	548	45	6.0	409	47	4.5	293	49	3.6	10.3	14.2	18.1
2250	Open	571	45	6.0	420	47	4.4	294	49	3.6	10.6	14.7	18.7
2500	Open	592	45	5.9	431	47	4.4	293	49	3.6	10.9	15.1	19.3

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1598

115 to 138 kV Shielded Single Conductor Filled X L P E or E P R Power Cable

Direct Buried - 2 Circuits - Six Cables - Spaced

25°C Earth Ambient

Total Watts/ft for 90°C - Aluminum Conductor - Concentric Strand

		60 Rho		90 Rho		120 Rho	
		75 LF	100 LF	75 LF	100 LF	75 LF	100 LF
Condr Size	Shield Res						
750	69	110.9	88.6	84.9	66.3	68.6	53.0
750	103	108.5	87.4	83.9	65.6	67.8	52.5
750	138	106.4	86.0	82.7	65.2	67.3	52.4
750	207	103.5	84.3	81.2	64.2	66.3	51.8
1000	69	117.8	92.9	88.9	68.5	71.2	54.4
1000	103	115.5	91.8	87.7	68.0	70.6	54.2
1000	138	113.2	90.5	86.6	67.6	69.8	53.9
1000	207	109.9	88.6	85.0	66.6	68.7	53.4
1000	Open	98.8	81.7	78.5	63.0	64.7	51.4
1250	69	123.1	96.2	91.8	70.3	72.9	55.4
1250	103	120.5	94.9	90.5	69.9	72.1	55.3
1250	138	118.2	93.7	89.3	69.2	71.5	55.0
1250	207	114.9	91.7	87.6	68.5	70.5	54.6
1250	Open	102.3	84.1	80.6	64.6	66.2	52.5
1500	69	127.0	98.9	94.1	71.7	74.2	56.4
1500	103	124.8	97.6	92.8	71.2	73.6	56.1
1500	138	122.3	96.3	91.8	70.6	73.0	55.8
1500	207	119.0	94.4	90.1	69.8	72.0	55.5
1500	Open	105.3	86.3	82.6	65.9	67.4	53.4
1750	69	130.5	100.6	95.9	72.7	75.1	56.9
1750	103	128.2	100.6	94.8	72.4	74.6	56.9
1750	138	126.0	98.5	93.8	71.9	74.0	56.6
1750	207	122.5	96.6	92.0	71.1	73.2	56.2
1750	Open	108.0	88.1	84.2	67.1	68.5	54.1
2000	Open	110.2	89.8	85.6	68.0	69.3	54.8
2250	Open	112.5	91.3	86.8	68.9	70.2	55.4
2500	Open	114.4	92.6	88.0	69.7	70.9	55.9

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115 to 138 kV Shielded Single Conductor Filled X L P E or E P R Power Cable

Direct Buried - 2 Circuits - Six Cables - Spaced

25°C Earth Ambient

Total Watts/ft for 80°C - Aluminum Conductor - Concentric Strand

		60 Rho		90 Rho		120 Rho	
		75 LF	100 LF	75 LF	100 LF	75 LF	100 LF
Condr Size	Shield Res						
750	69	94.0	75.5	71.8	56.4	57.8	45.1
750	103	92.4	74.5	71.0	55.8	57.2	44.8
750	138	90.6	73.6	70.0	55.5	56.6	44.6
750	207	88.2	72.0	68.7	54.9	55.9	44.2
1000	69	100.1	79.3	75.1	58.4	59.8	46.3
1000	103	98.0	78.2	74.2	58.0	59.3	46.1
1000	138	96.4	77.2	73.2	57.6	58.6	45.9
1000	207	93.6	75.6	71.9	56.8	57.9	45.5
1000	Open	83.4	69.5	66.1	53.7	54.4	43.7
1250	69	104.2	81.7	77.2	59.7	61.0	47.0
1250	103	102.5	80.9	76.4	59.3	60.5	47.0
1250	138	100.5	80.0	75.5	59.0	60.1	46.8
1250	207	97.7	78.4	74.0	58.2	59.3	46.5
1250	Open	86.5	71.6	67.9	54.9	55.6	44.6
1500	69	107.6	84.0	79.1	60.9	61.9	47.8
1500	103	105.9	83.1	78.3	60.6	61.6	47.8
1500	138	104.0	82.2	77.4	60.2	61.1	47.6
1500	207	101.0	80.6	75.9	59.5	60.5	47.3
1500	Open	89.0	73.3	69.4	56.1	56.6	45.4
1750	69	110.3	85.6	80.6	61.9	62.9	48.4
1750	103	108.7	84.8	79.7	61.6	62.5	48.4
1750	138	107.0	83.9	79.0	61.2	62.1	48.2
1750	207	104.1	82.3	77.6	60.6	61.3	47.9
1750	Open	91.1	74.9	70.8	57.0	57.3	46.0
2000	Open	93.1	76.4	71.9	57.8	58.1	46.6
2250	Open	94.9	77.6	73.0	58.6	58.7	47.1
2500	Open	96.5	78.7	73.9	59.3	59.3	47.6

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1600

115 to 138 kV Shielded Single Conductor Filled X L P E or E P R Power Cable

Direct Buried - 2 Circuits - Six Cables - Spaced

25°C Earth Ambient

Total Watts/ft for 65°C - Aluminum Conductor - Concentric Strand

		60 Rho		90 Rho		120 Rho	
		75 LF	100 LF	75 LF	100 LF	75 LF	100 LF
Condr Size	Shield Res						
750	69	68.7	55.5	51.8	41.4	41.3	33.0
750	103	67.7	55.1	51.3	41.0	40.8	32.8
750	138	66.5	54.3	50.7	40.9	40.5	32.7
750	207	64.7	53.4	49.8	40.3	40.1	32.4
1000	69	72.5	58.1	53.9	42.8	42.5	33.8
1000	103	71.6	57.6	53.3	42.6	42.1	33.8
1000	138	70.4	57.0	52.9	42.2	41.9	33.6
1000	207	68.4	55.9	51.9	41.7	41.3	33.5
1000	Open	60.5	51.1	47.6	39.5	38.8	32.2
1250	69	75.6	60.0	55.4	43.7	43.2	34.6
1250	103	74.6	59.5	54.9	43.5	42.9	34.4
1250	138	73.4	59.0	54.3	43.4	42.8	34.3
1250	207	71.4	57.9	53.5	42.9	42.2	34.1
1250	Open	62.7	52.7	48.9	40.5	39.5	32.9
1500	69	77.7	61.5	56.5	44.5	43.7	35.0
1500	103	76.8	61.0	56.0	44.4	43.5	35.0
1500	138	75.7	60.4	55.6	44.2	43.3	34.9
1500	207	73.8	59.4	54.6	43.8	42.8	34.6
1500	Open	64.4	54.1	49.9	41.3	40.2	33.4
1750	69	79.7	62.8	57.2	45.1	44.2	35.3
1750	103	78.7	62.3	56.9	45.0	44.0	35.3
1750	138	77.6	61.8	56.4	44.8	43.8	35.3
1750	207	75.6	60.8	55.6	44.5	43.4	35.1
1750	Open	66.1	55.2	50.8	42.0	40.8	33.9
2000	Open	67.5	56.2	51.6	42.7	41.2	34.3
2250	Open	68.6	57.1	52.2	43.2	41.5	34.7
2500	Open	69.7	58.0	52.7	43.7	41.9	35.0

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115 to 138 kV Shielded Single Conductor Filled X L P E or E P R Power Cable

Direct Buried - 2 Circuits - Six Cables - Spaced

25°C Earth Ambient

Total Watts/ft for 50°C - Aluminum Conductor - Concentric Strand

		60 Rho		90 Rho		120 Rho	
		75 LF	100 LF	75 LF	100 LF	75 LF	100 LF
Condr Size	Shield Res						
750	69	42.2	35.3	31.3	26.1	24.4	20.9
750	103	41.7	34.9	31.1	26.1	24.3	20.8
750	138	41.2	34.6	30.8	25.9	24.2	20.7
750	207	40.3	34.1	30.4	25.7	23.9	20.7
1000	69	44.5	36.7	32.3	27.0	24.8	21.4
1000	103	44.0	36.6	32.1	26.9	24.8	21.3
1000	138	43.5	36.3	31.9	26.8	24.7	21.3
1000	207	42.4	35.7	31.4	26.6	24.4	21.2
1000	Open	37.7	32.8	29.1	25.4	23.3	20.7
1250	69	45.9	37.8	32.9	27.6	25.0	21.8
1250	103	45.6	37.7	32.7	27.5	25.0	21.7
1250	138	45.1	37.3	32.5	27.4	24.9	21.7
1250	207	44.1	36.9	32.1	27.2	24.7	21.6
1250	Open	39.0	33.9	29.8	26.0	23.6	21.1
1500	69	47.1	38.6	33.4	28.1	25.2	22.0
1500	103	46.6	38.4	33.1	28.0	25.2	22.0
1500	138	46.2	38.2	33.0	27.9	25.1	22.0
1500	207	45.2	37.7	32.6	27.7	24.9	21.9
1500	Open	39.9	34.7	30.3	26.5	23.8	21.5
1750	69	48.0	39.4	33.6	28.3	25.2	22.2
1750	103	47.5	39.2	33.5	28.4	25.2	22.2
1750	138	47.2	39.0	33.3	28.3	25.2	22.3
1750	207	46.3	38.5	33.0	28.1	25.0	22.2
1750	Open	40.9	35.4	30.7	27.0	24.1	21.8
2000	Open	41.6	36.1	31.1	27.3	24.2	22.0
2250	Open	42.3	36.7	31.4	27.7	24.3	22.3
2500	Open	42.8	37.2	31.6	28.0	24.3	22.5

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1602

115 to 138 kV Shielded Single Conductor Filled X L P E or E P R Power Cable

Direct Buried - 2 Circuits - Six Cables - Spaced

25°C Earth Ambient

Size	Res	OD	Wd	Rac	Qs	Ri	Rj	Re @ 90 Rho & loss factor 75%	100%
			90°C - Aluminum Conductor - Concentric Strand						
750	69	3.218	2.00	30.02	1.848	1.93	0.29	2.87	4.37
750	103	3.218	2.00	30.02	1.677	1.93	0.29	2.87	4.37
750	138	3.218	2.00	30.02	1.542	1.93	0.29	2.87	4.37
750	207	3.218	2.00	30.02	1.380	1.93	0.29	2.87	4.37
1000	69	3.407	2.18	22.74	2.086	1.76	0.27	2.85	4.34
1000	103	3.407	2.18	22.74	1.863	1.76	0.27	2.85	4.34
1000	138	3.407	2.18	22.74	1.689	1.76	0.27	2.85	4.34
1000	207	3.407	2.18	22.74	1.482	1.76	0.27	2.85	4.34
1000	Open	3.407	2.18	22.74	1.004	1.76	0.27	2.85	4.34
1250	69	3.540	2.34	18.39	2.306	1.64	0.26	2.83	4.32
1250	103	3.540	2.34	18.39	2.033	1.64	0.26	2.83	4.32
1250	138	3.540	2.34	18.39	1.824	1.64	0.26	2.83	4.32
1250	207	3.540	2.34	18.39	1.575	1.64	0.26	2.83	4.32
1250	Open	3.540	2.34	18.39	1.005	1.64	0.26	2.83	4.32
1500	69	3.660	2.48	15.55	2.509	1.54	0.25	2.81	4.31
1500	103	3.660	2.48	15.55	2.190	1.54	0.25	2.81	4.31
1500	138	3.660	2.48	15.55	1.947	1.54	0.25	2.81	4.31
1500	207	3.660	2.48	15.55	1.660	1.54	0.25	2.81	4.31
1500	Open	3.660	2.48	15.55	1.006	1.54	0.25	2.81	4.31
1750	69	3.770	2.61	13.54	2.696	1.46	0.24	2.80	4.29
1750	103	3.770	2.61	13.54	2.333	1.46	0.24	2.80	4.29
1750	138	3.770	2.61	13.54	2.059	1.46	0.24	2.80	4.29
1750	207	3.770	2.61	13.54	1.738	1.46	0.24	2.80	4.29
1750	Open	3.770	2.61	13.54	1.008	1.46	0.24	2.80	4.29
2000	Open	3.873	2.73	12.06	1.009	1.39	0.24	2.79	4.28
2250	Open	3.968	2.84	11.02	1.011	1.34	0.23	2.78	4.27
2500	Open	4.059	2.95	10.12	1.012	1.29	0.22	2.77	4.26

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115 to 138 kV Shielded Single Conductor Filled X L P E or E P R Power Cable

Direct Buried - 2 Circuits - Six Cables - Spaced

25°C Earth Ambient

Size	Res	OD	Wd	Rac	Qs	Ri	Rj	Re @ 90 Rho & loss factor 75%	Re @ 90 Rho & loss factor 100%
				80°C - Aluminum Conductor - Concentric Strand					
750	69	3.218	2.00	30.02	1.848	1.93	0.29	2.87	4.37
750	103	3.218	2.00	30.02	1.677	1.93	0.29	2.87	4.37
750	138	3.218	2.00	30.02	1.542	1.93	0.29	2.87	4.37
750	207	3.218	2.00	30.02	1.380	1.93	0.29	2.87	4.37
1000	69	3.407	2.18	22.74	2.086	1.76	0.27	2.85	4.34
1000	103	3.407	2.18	22.74	1.863	1.76	0.27	2.85	4.34
1000	138	3.407	2.18	22.74	1.689	1.76	0.27	2.85	4.34
1000	207	3.407	2.18	22.74	1.482	1.76	0.27	2.85	4.34
1000	Open	3.407	2.18	22.74	1.004	1.76	0.27	2.85	4.34
1250	69	3.540	2.34	18.39	2.306	1.64	0.26	2.83	4.32
1250	103	3.540	2.34	18.39	2.033	1.64	0.26	2.83	4.32
1250	138	3.540	2.34	18.39	1.824	1.64	0.26	2.83	4.32
1250	207	3.540	2.34	18.39	1.575	1.64	0.26	2.83	4.32
1250	Open	3.540	2.34	18.39	1.005	1.64	0.26	2.83	4.32
1500	69	3.660	2.48	15.55	2.509	1.54	0.25	2.81	4.31
1500	103	3.660	2.48	15.55	2.190	1.54	0.25	2.81	4.31
1500	138	3.660	2.48	15.55	1.947	1.54	0.25	2.81	4.31
1500	207	3.660	2.48	15.55	1.660	1.54	0.25	2.81	4.31
1500	Open	3.660	2.48	15.55	1.006	1.54	0.25	2.81	4.31
1750	69	3.770	2.61	13.54	2.696	1.46	0.24	2.80	4.29
1750	103	3.770	2.61	13.54	2.333	1.46	0.24	2.80	4.29
1750	138	3.770	2.61	13.54	2.059	1.46	0.24	2.80	4.29
1750	207	3.770	2.61	13.54	1.738	1.46	0.24	2.80	4.29
1750	Open	3.770	2.61	13.54	1.008	1.46	0.24	2.80	4.29
2000	Open	3.873	2.73	12.06	1.009	1.39	0.24	2.79	4.28
2250	Open	3.968	2.84	11.02	1.011	1.34	0.23	2.78	4.27
2500	Open	4.059	2.95	10.12	1.012	1.29	0.22	2.77	4.26

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1604

115 to 138 kV Shielded Single Conductor Filled X L P E or E P R Power Cable

Direct Buried - 2 Circuits - Six Cables - Spaced

25°C Earth Ambient

Size	Res	OD	Wd	Rac	Qs	Ri	Rj	Re @ 90 Rho & loss factor 75%	100%
			65°C - Aluminum Conductor - Concentric Strand						
750	69	3.218	2.00	30.02	1.848	1.93	0.29	2.87	4.37
750	103	3.218	2.00	30.02	1.677	1.93	0.29	2.87	4.37
750	138	3.218	2.00	30.02	1.542	1.93	0.29	2.87	4.37
750	207	3.218	2.00	30.02	1.380	1.93	0.29	2.87	4.37
1000	69	3.407	2.18	22.74	2.086	1.76	0.27	2.85	4.34
1000	103	3.407	2.18	22.74	1.863	1.76	0.27	2.85	4.34
1000	138	3.407	2.18	22.74	1.689	1.76	0.27	2.85	4.34
1000	207	3.407	2.18	22.74	1.482	1.76	0.27	2.85	4.34
1000	Open	3.407	2.18	22.74	1.004	1.76	0.27	2.85	4.34
1250	69	3.540	2.34	18.39	2.306	1.64	0.26	2.83	4.32
1250	103	3.540	2.34	18.39	2.033	1.64	0.26	2.83	4.32
1250	138	3.540	2.34	18.39	1.824	1.64	0.26	2.83	4.32
1250	207	3.540	2.34	18.39	1.575	1.64	0.26	2.83	4.32
1250	Open	3.540	2.34	18.39	1.005	1.64	0.26	2.83	4.32
1500	69	3.660	2.48	15.55	2.509	1.54	0.25	2.81	4.31
1500	103	3.660	2.48	15.55	2.190	1.54	0.25	2.81	4.31
1500	138	3.660	2.48	15.55	1.947	1.54	0.25	2.81	4.31
1500	207	3.660	2.48	15.55	1.660	1.54	0.25	2.81	4.31
1500	Open	3.660	2.48	15.55	1.006	1.54	0.25	2.81	4.31
1750	69	3.770	2.61	13.54	2.696	1.46	0.24	2.80	4.29
1750	103	3.770	2.61	13.54	2.333	1.46	0.24	2.80	4.29
1750	138	3.770	2.61	13.54	2.059	1.46	0.24	2.80	4.29
1750	207	3.770	2.61	13.54	1.738	1.46	0.24	2.80	4.29
1750	Open	3.770	2.61	13.54	1.008	1.46	0.24	2.80	4.29
2000	Open	3.873	2.73	12.06	1.009	1.39	0.24	2.79	4.28
2250	Open	3.968	2.84	11.02	1.011	1.34	0.23	2.78	4.27
2500	Open	4.059	2.95	10.12	1.012	1.29	0.22	2.77	4.26

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115 to 138 kV Shielded Single Conductor Filled X L P E or E P R Power Cable

Direct Buried - 2 Circuits - Six Cables - Spaced

25°C Earth Ambient

Size	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	2.00	30.02	1.848	1.93	0.29	2.87	4.37
750	103	3.218	2.00	30.02	1.677	1.93	0.29	2.87	4.37
750	138	3.218	2.00	30.02	1.542	1.93	0.29	2.87	4.37
750	207	3.218	2.00	30.02	1.380	1.93	0.29	2.87	4.37
1000	69	3.407	2.18	22.74	2.086	1.76	0.27	2.85	4.34
1000	103	3.407	2.18	22.74	1.863	1.76	0.27	2.85	4.34
1000	138	3.407	2.18	22.74	1.689	1.76	0.27	2.85	4.34
1000	207	3.407	2.18	22.74	1.482	1.76	0.27	2.85	4.34
1000	Open	3.407	2.18	22.74	1.004	1.76	0.27	2.85	4.34
1250	69	3.540	2.34	18.39	2.306	1.64	0.26	2.83	4.32
1250	103	3.540	2.34	18.39	2.033	1.64	0.26	2.83	4.32
1250	138	3.540	2.34	18.39	1.824	1.64	0.26	2.83	4.32
1250	207	3.540	2.34	18.39	1.575	1.64	0.26	2.83	4.32
1250	Open	3.540	2.34	18.39	1.005	1.64	0.26	2.83	4.32
1500	69	3.660	2.48	15.55	2.509	1.54	0.25	2.81	4.31
1500	103	3.660	2.48	15.55	2.190	1.54	0.25	2.81	4.31
1500	138	3.660	2.48	15.55	1.947	1.54	0.25	2.81	4.31
1500	207	3.660	2.48	15.55	1.660	1.54	0.25	2.81	4.31
1500	Open	3.660	2.48	15.55	1.006	1.54	0.25	2.81	4.31
1750	69	3.770	2.61	13.54	2.696	1.46	0.24	2.80	4.29
1750	103	3.770	2.61	13.54	2.333	1.46	0.24	2.80	4.29
1750	138	3.770	2.61	13.54	2.059	1.46	0.24	2.80	4.29
1750	207	3.770	2.61	13.54	1.738	1.46	0.24	2.80	4.29
1750	Open	3.770	2.61	13.54	1.008	1.46	0.24	2.80	4.29
2000	Open	3.873	2.73	12.06	1.009	1.39	0.24	2.79	4.28
2250	Open	3.968	2.84	11.02	1.011	1.34	0.23	2.78	4.27
2500	Open	4.059	2.95	10.12	1.012	1.29	0.22	2.77	4.26

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115 to 138 kV Shielded Single Conductor Filled X L P E or E P R 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 .0150 pf No Sun 0 Ft/s	delta Td for .0150 pf No Sun 2 Ft/s
		90°C - Aluminum Conductor - Concentric Strand					
750	69	411	439	333	366	10.9	9.7
750	103	420	449	341	371	10.9	9.8
750	138	426	454	345	374	10.9	9.8
750	207	431	460	348	377	10.9	9.8
1000	69	495	522	402	430	10.4	9.5
1000	103	509	536	412	439	10.4	9.5
1000	138	516	544	417	443	10.4	9.5
1000	207	525	553	421	448	10.4	9.5
1250	69	543	574	440	477	10.8	9.8
1250	103	561	592	454	488	10.8	9.9
1250	138	571	603	463	494	10.8	9.9
1250	207	582	615	470	501	10.8	9.9
1500	69	582	616	471	516	11.1	10.2
1500	103	603	639	488	530	11.2	10.2
1500	138	616	652	498	538	11.2	10.2
1500	207	630	667	509	547	11.2	10.2
1750	69	614	651	496	548	11.4	10.4
1750	103	639	677	516	566	11.5	10.5
1750	138	654	693	528	576	11.5	10.5
1750	207	671	711	541	586	11.5	10.5
2000	69	641	680	516	572	11.7	10.7
2000	103	669	710	539	597	11.8	10.7
2000	138	686	728	553	609	11.8	10.7
2000	207	705	748	568	622	11.8	10.8
2250	69	661	703	532	590	12.0	10.9
2250	103	692	736	557	618	12.0	11.0
2250	138	711	756	572	635	12.1	11.0
2250	207	732	778	589	650	12.1	11.0
2500	69	680	724	546	607	12.2	11.2
2500	103	714	759	573	637	12.3	11.2
2500	138	735	781	590	655	12.3	11.2
2500	207	757	805	608	675	12.3	11.2

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115 to 138 kV Shielded Single Conductor Filled X L P E or E P R 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	26.1	28.9	19.2	20.0
750	103	25.8	28.6	19.0	19.8
750	138	25.6	28.3	17.6	19.7
750	207	25.4	28.1	17.5	19.5
1000	69	30.3	33.0	22.2	21.9
1000	103	29.9	32.5	19.8	21.7
1000	138	29.5	32.1	19.7	21.4
1000	207	29.3	31.8	19.6	21.3
1250	69	31.9	34.9	23.3	22.9
1250	103	31.5	34.3	23.0	22.6
1250	138	31.1	33.9	22.8	22.4
1250	207	30.8	33.6	20.4	22.2
1500	69	33.3	36.4	24.3	23.8
1500	103	32.7	35.9	24.0	23.4
1500	138	32.4	35.5	23.7	23.2
1500	207	32.1	35.1	23.5	23.0
1750	69	34.5	37.9	25.2	29.1
1750	103	34.0	37.2	24.9	24.1
1750	138	33.7	36.8	24.6	23.9
1750	207	33.3	36.5	24.4	23.6
2000	69	35.7	39.1	25.9	30.0
2000	103	35.1	38.5	25.6	24.8
2000	138	34.8	38.1	25.4	24.6
2000	207	34.4	37.7	25.2	24.3
2250	69	36.5	40.2	26.6	30.8
2250	103	36.0	39.7	26.3	30.4
2250	138	35.7	39.3	26.1	30.2
2250	207	35.4	38.9	25.9	24.8
2500	69	37.4	41.3	27.2	31.6
2500	103	37.0	40.7	26.9	31.2
2500	138	36.7	40.3	26.8	30.9
2500	207	36.3	39.9	26.5	30.7

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115 to 138 kV Shielded Single Conductor Filled X L P E or E P R 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	2.00	30.27	1.246	1.310	1.93	.29	2.25	.00	1.95	1.40
750	103	3.218	7.98	2.00	30.27	1.169	1.234	1.93	.29	2.25	.00	1.96	1.40
750	138	3.218	7.98	2.00	30.27	1.128	1.192	1.93	.29	2.26	.00	1.96	1.40
750	207	3.218	7.98	2.00	30.27	1.086	1.150	1.93	.29	2.26	.00	1.96	1.40
1000	69	3.407	10.02	2.18	23.06	1.322	1.404	1.76	.27	2.03	.00	1.58	1.19
1000	103	3.407	10.02	2.18	23.06	1.222	1.304	1.76	.27	2.04	.00	1.59	1.19
1000	138	3.407	10.02	2.18	23.06	1.168	1.249	1.76	.27	2.04	.00	1.59	1.19
1000	207	3.407	10.02	2.18	23.06	1.113	1.194	1.76	.27	2.04	.00	1.59	1.19
1250	69	3.540	10.02	2.34	18.82	1.391	1.497	1.64	.26	1.96	.00	1.57	1.19
1250	103	3.540	10.02	2.34	18.82	1.270	1.376	1.64	.26	1.97	.00	1.58	1.19
1250	138	3.540	10.02	2.34	18.82	1.204	1.310	1.64	.26	1.97	.00	1.58	1.19
1250	207	3.540	10.02	2.34	18.82	1.137	1.243	1.64	.26	1.98	.00	1.58	1.19
1500	69	3.660	10.02	2.48	16.05	1.455	1.586	1.54	.25	1.91	.00	1.56	1.19
1500	103	3.660	10.02	2.48	16.05	1.314	1.445	1.54	.25	1.91	.00	1.57	1.19
1500	138	3.660	10.02	2.48	16.05	1.237	1.368	1.54	.25	1.92	.00	1.57	1.19
1500	207	3.660	10.02	2.48	16.05	1.159	1.290	1.54	.25	1.93	.00	1.57	1.19
1750	69	3.770	10.02	2.61	14.15	1.513	1.668	1.46	.24	1.86	.00	1.55	1.18
1750	103	3.770	10.02	2.61	14.15	1.353	1.509	1.46	.24	1.87	.00	1.56	1.18
1750	138	3.770	10.02	2.61	14.15	1.267	1.422	1.46	.24	1.87	.00	1.56	1.18
1750	207	3.770	10.02	2.61	14.15	1.179	1.335	1.46	.24	1.88	.00	1.56	1.19
2000	69	3.873	10.02	2.73	12.77	1.565	1.745	1.39	.24	1.82	.00	1.55	1.18
2000	103	3.873	10.02	2.73	12.77	1.390	1.569	1.39	.24	1.83	.00	1.55	1.18
2000	138	3.873	10.02	2.73	12.77	1.294	1.474	1.39	.24	1.83	.00	1.55	1.18
2000	207	3.873	10.02	2.73	12.77	1.198	1.377	1.39	.24	1.84	.00	1.55	1.18
2250	69	3.968	10.02	2.84	11.81	1.608	1.810	1.34	.23	1.78	.00	1.54	1.18
2250	103	3.968	10.02	2.84	11.81	1.419	1.621	1.34	.23	1.79	.00	1.54	1.18
2250	138	3.968	10.02	2.84	11.81	1.316	1.518	1.34	.23	1.80	.00	1.55	1.18
2250	207	3.968	10.02	2.84	11.81	1.213	1.414	1.34	.23	1.80	.00	1.55	1.18
2500	69	4.059	10.02	2.95	11.00	1.650	1.874	1.29	.22	1.75	.00	1.53	1.18
2500	103	4.059	10.02	2.95	11.00	1.448	1.672	1.29	.22	1.76	.00	1.54	1.18
2500	138	4.059	10.02	2.95	11.00	1.338	1.562	1.29	.22	1.77	.00	1.54	1.18
2500	207	4.059	10.02	2.95	11.00	1.227	1.451	1.29	.22	1.77	.00	1.54	1.18

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