115 kV 1/c Self Contained Liquid Filled Lead Sheathed Power Cable

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

25°C Earth Ambient

Condr Size	Sheath Res	60 Rho 75 LF	60 Rho 100 LF	90 Rho 75 LF	90 Rho 100 LF	120 Rho 75 LF	120 Rho 100 LF	delta Td for .0033 pf & Rho 60	90	120
85°C - Copper Conductor - Hollow Core Concentric Strand										
350	Open	526	493	495	454	468	422	3.0	3.6	4.2
500	Open	639	597	600	549	566	509	3.1	3.8	4.4
750	Open	798	744	747	681	703	630	3.3	4.0	4.7
1000	Open	939	873	876	794	821	732	3.8	4.5	5.4
1250	Open	1061	983	986	893	923	821	3.9	4.8	5.6
1500	Open	1170	1082	1085	980	1014	899	4.0	4.9	5.9
1750	Open	1270	1172	1175	1058	1095	968	4.2	5.2	6.1
2000	Open	1355	1249	1252	1125	1166	1029	4.3	5.3	6.3
2250	Open	1434	1319	1322	1186	1229	1082	4.4	5.5	6.5
85°C - Copper Conductor - Hollow Core Segmental Strand										
2000	Open	1374	1266	1270	1141	1182	1044	4.3	5.3	6.3
2250	Open	1458	1341	1344	1206	1249	1100	4.4	5.5	6.5
2500	Open	1538	1413	1415	1268	1314	1156	4.5	5.6	6.7
2750	Open	1615	1483	1485	1328	1377	1209	4.6	5.7	6.8
3000	Open	1678	1539	1541	1377	1427	1252	4.7	5.8	7.0

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115 kV 1/c Self Contained Liquid Filled Lead Sheathed Power Cable in Underground Duct Bank - 1 Circuit - Three Cables - 12 in Spacing

25°C Earth Ambient

Condr Size	Sheath Res	60 Rho 75 LF	60 Rho 100 LF	90 Rho 75 LF	90 Rho 100 LF	120 Rho 75 LF	120 Rho 100 LF
		Total Watts/ft					
85°C - Copper Conductor - Hollow Core Concentric Strand							
350	Open	33.2	29.4	29.6	25.1	26.6	22.0
500	Open	34.4	30.3	30.6	25.9	27.4	22.5
750	Open	36.0	31.5	31.8	26.7	28.4	23.2
1000	Open	37.8	33.0	33.2	27.7	29.5	23.9
1250	Open	39.1	33.9	34.1	28.4	30.2	24.4
1500	Open	40.3	34.8	35.0	29.1	30.9	24.9
1750	Open	41.6	35.8	36.0	29.7	31.6	25.3
2000	Open	42.3	36.3	36.5	30.0	32.0	25.6
2250	Open	43.2	37.0	37.2	30.5	32.5	25.9
85°C - Copper Conductor - Hollow Core Segmental Strand							
2000	Open	42.2	36.3	36.5	30.0	32.0	25.6
2250	Open	43.3	37.1	37.2	30.5	32.5	25.9
2500	Open	43.9	37.5	37.6	30.8	32.9	26.1
2750	Open	44.7	38.2	38.3	31.3	33.4	26.5
3000	Open	45.3	38.6	38.7	31.6	33.7	26.7

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115 kV 1/c Self Contained Liquid Filled Lead Sheathed Power Cable

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

25°C Earth Ambient

Condr Size	Sheath Res	OD	Duct ID	Wd	Rac	Qs	Ri	Rj	Rsd	Rd	Re @ 90 Rho & loss factor 75%	100%
					85°C - Copper Conductor - Hollow Core Concentric Strand							
350	Open	2.360	5.06	0.56	37.94	1.000	1.78	0.21	1.73	0.24	2.11	3.30
500	Open	2.508	5.06	0.60	26.60	1.001	1.66	0.24	1.63	0.24	2.11	3.30
750	Open	2.651	5.06	0.65	17.78	1.001	1.52	0.23	1.54	0.24	2.11	3.30
1000	Open	2.683	5.06	0.77	13.41	1.002	1.30	0.22	1.51	0.24	2.11	3.30
1250	Open	2.800	5.06	0.82	10.83	1.003	1.22	0.21	1.45	0.24	2.11	3.30
1500	Open	2.918	5.06	0.87	9.14	1.004	1.15	0.21	1.39	0.24	2.11	3.30
1750	Open	3.045	5.06	0.92	7.97	1.005	1.09	0.20	1.34	0.24	2.11	3.30
2000	Open	3.116	5.06	0.95	7.11	1.006	1.05	0.19	1.30	0.24	2.11	3.30
2250	Open	3.266	5.06	1.00	6.46	1.008	1.00	0.21	1.24	0.24	2.11	3.30
					85°C - Copper Conductor - Hollow Core Segmental Strand							
2000	Open	3.113	5.06	0.95	6.90	1.006	1.05	0.19	1.30	0.24	2.11	3.30
2250	Open	3.266	5.06	1.00	6.25	1.008	1.00	0.21	1.24	0.24	2.11	3.30
2500	Open	3.335	5.06	1.03	5.69	1.010	0.97	0.20	1.22	0.24	2.11	3.30
2750	Open	3.440	5.06	1.07	5.23	1.018	0.93	0.20	1.18	0.24	2.09	3.30
3000	Open	3.511	5.06	1.10	4.89	1.020	0.91	0.19	1.16	0.24	2.09	3.30

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115 kV 1/c Self Contained Liquid Filled Lead Sheathed Power Cable

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

25°C Earth Ambient

Condr Size	Sheath Res	60 Rho 75 LF	60 Rho 100 LF	90 Rho 75 LF	90 Rho 100 LF	120 Rho 75 LF	120 Rho 100 LF	delta Td for .0033 pf & Rho 60	90	120
85°C - Copper Conductor - Hollow Core Concentric Strand										
350	Open	473	428	427	376	391	338	4.0	5.3	6.5
500	Open	573	516	515	452	470	405	4.3	5.5	6.8
750	Open	712	639	637	557	579	497	4.5	5.9	7.3
1000	Open	831	743	739	644	669	571	5.2	6.8	8.5
1250	Open	935	834	829	720	747	637	5.4	7.2	9.0
1500	Open	1027	914	907	786	816	694	5.7	7.5	9.4
1750	Open	1110	985	977	844	876	743	5.9	7.9	9.9
2000	Open	1181	1046	1037	895	929	787	6.1	8.1	10.2
2250	Open	1246	1101	1091	939	974	824	6.3	8.5	10.6
85°C - Copper Conductor - Hollow Core Segmental Strand										
2000	Open	1198	1061	1052	908	942	799	6.1	8.1	10.2
2250	Open	1266	1119	1109	955	990	838	6.3	8.5	10.6
2500	Open	1333	1176	1164	1001	1038	878	6.4	8.7	10.9
2750	Open	1397	1231	1217	1045	1082	914	6.6	9.0	11.3
3000	Open	1448	1274	1260	1080	1119	944	6.8	9.2	11.6

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115 kV 1/c Self Contained Liquid Filled Lead Sheathed Power Cable

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

25°C Earth Ambient

Condr Size	Sheath Res	60 Rho 75 LF	60 Rho 100 LF	90 Rho 75 LF	90 Rho 100 LF	120 Rho 75 LF	120 Rho 100 LF
		Total Watts/ft					
85°C - Copper Conductor - Hollow Core Concentric Strand							
350	Open	54.4	45.1	44.9	35.6	38.2	29.4
500	Open	56.1	46.1	46.0	36.2	38.9	29.8
750	Open	58.1	47.6	47.3	37.1	39.8	30.3
1000	Open	60.3	49.1	48.6	38.1	40.7	30.9
1250	Open	61.9	50.2	49.7	38.7	41.3	31.4
1500	Open	63.4	51.3	50.6	39.3	41.9	31.8
1750	Open	64.8	52.2	51.4	39.8	42.4	32.1
2000	Open	65.6	52.7	51.9	40.1	42.8	32.3
2250	Open	66.8	53.5	52.6	40.5	43.1	32.6
85°C - Copper Conductor - Hollow Core Segmental Strand							
2000	Open	65.6	52.7	51.9	40.1	42.7	32.3
2250	Open	66.7	53.4	52.6	40.5	43.1	32.6
2500	Open	67.5	53.9	52.9	40.8	43.4	32.8
2750	Open	68.5	54.7	53.6	41.2	43.7	33.0
3000	Open	69.2	55.1	54.0	41.4	44.0	33.2

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115 kV 1/c Self Contained Liquid Filled Lead Sheathed Power Cable

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

25°C Earth Ambient

Condr Size	Sheath Res	OD	Duct ID	Wd	Rac	Qs	Ri	Rj	Rsd	Rd	Re @ 90 Rho & loss factor 75%	100%
					85°C - Copper Conductor - Hollow Core Concentric Strand							
350	Open	2.360	5.06	0.56	37.94	1.000	1.78	0.21	1.67	0.24	4.00	6.34
500	Open	2.508	5.06	0.60	26.60	1.001	1.66	0.24	1.58	0.24	4.00	6.34
750	Open	2.651	5.06	0.65	17.78	1.001	1.52	0.23	1.49	0.24	4.00	6.34
1000	Open	2.683	5.06	0.77	13.41	1.002	1.30	0.22	1.46	0.24	4.00	6.34
1250	Open	2.800	5.06	0.82	10.83	1.003	1.22	0.21	1.40	0.24	4.00	6.34
1500	Open	2.918	5.06	0.87	9.14	1.004	1.15	0.21	1.35	0.24	4.00	6.34
1750	Open	3.045	5.06	0.92	7.97	1.006	1.09	0.20	1.29	0.24	4.00	6.34
2000	Open	3.116	5.06	0.95	7.11	1.007	1.05	0.19	1.26	0.24	4.00	6.34
2250	Open	3.266	5.06	1.00	6.46	1.009	1.00	0.21	1.20	0.24	4.00	6.34
					85°C - Copper Conductor - Hollow Core Segmental Strand							
2000	Open	3.113	5.06	0.95	6.90	1.007	1.05	0.19	1.26	0.24	4.00	6.34
2250	Open	3.266	5.06	1.00	6.25	1.009	1.00	0.21	1.20	0.24	4.00	6.34
2500	Open	3.335	5.06	1.03	5.69	1.011	0.97	0.20	1.18	0.24	4.00	6.34
2750	Open	3.440	5.06	1.07	5.23	1.013	0.93	0.20	1.14	0.24	4.00	6.34
3000	Open	3.511	5.06	1.10	4.89	1.015	0.91	0.19	1.12	0.24	4.00	6.34

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115 kV 1/c Self Contained Liquid Filled Lead Sheathed Power Cable

Direct Buried - 1 Circuit - Three Cables - Spaced

25°C Earth Ambient

Condr Size	Sheath Res	60 Rho Interface Temp	60 Rho Flux Amps	60 Rho Interface °C	60 Rho Flux w/ft²	90 Rho Interface Temp	90 Rho Flux Amps	90 Rho Interface °C	90 Rho Flux w/ft²	120 Rho Interface Temp	120 Rho Flux Amps	120 Rho Interface °C	120 Rho Flux w/ft²	delta Td for .0033 pf & Rho 60	90	120
						75% LF										
						85°C - Copper Conductor - Hollow Core Concentric Strand										
350	Open	647	54	26.7		582	60	21.7		533	64	18.5		2.0	2.7	3.3
500	Open	783	54	25.7		703	60	21.0		643	64	17.7		2.1	2.8	3.5
750	Open	980	55	25.6		876	61	20.7		799	65	17.3		2.2	3.0	3.8
1000	Open	1164	57	27.0		1033	63	21.6		937	67	17.9		2.5	3.4	4.3
1250	Open	1316	58	26.9		1165	64	21.3		1053	68	17.6		2.6	3.6	4.6
1500	Open	1452	59	26.6		1281	65	20.9		1156	68	17.3		2.7	3.7	4.8
1750	Open	1575	60	26.3		1386	65	20.6		1249	69	16.9		2.8	3.9	5.0
2000	Open	1681	60	26.1		1477	66	20.5		1329	69	16.8		2.9	4.0	5.1
2250	Open	1774	60	25.4		1556	66	19.9		1399	70	16.3		3.0	4.2	5.3
						85°C - Copper Conductor - Hollow Core Segmental Strand										
2000	Open	1704	60	26.1		1498	66	20.5		1348	69	16.8		2.9	4.0	5.1
2250	Open	1803	60	25.5		1582	66	19.9		1422	70	16.3		3.0	4.2	5.3
2500	Open	1902	61	25.3		1666	66	19.7		1496	70	16.1		3.1	4.3	5.5
2750	Open	1999	61	25.1		1748	67	19.4		1567	70	15.9		3.2	4.4	5.6
3000	Open	2077	62	25.0		1814	67	19.4		1625	71	15.8		3.2	4.5	5.8

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115 kV 1/c Self Contained Liquid Filled Lead Sheathed Power Cable

Direct Buried - 1 Circuit - Three Cables - Spaced

25°C Earth Ambient

Condr Size	Sheath Res	---- 60 Rho--- Interface Temp	Amps	Flux w/ft²	---- 90 Rho--- Interface Temp	Amps	Flux w/ft²	----120 Rho--- Interface Temp	Amps	Flux w/ft²	delta Td for .0033 pf & Rho 60	90	120
		°C			°C			°C					
100% LF													
85°C - Copper Conductor - Hollow Core Concentric Strand													
350	Open	589	59	22.3	519	65	17.5	468	69	14.4	2.0	2.7	3.3
500	Open	711	59	21.5	625	65	16.8	563	69	13.7	2.1	2.8	3.5
750	Open	886	61	21.2	775	66	16.4	696	70	13.4	2.2	3.0	3.8
1000	Open	1046	63	22.1	909	68	16.9	811	72	13.7	2.5	3.4	4.3
1250	Open	1179	63	21.8	1020	69	16.6	909	72	13.4	2.6	3.6	4.6
1500	Open	1296	64	21.5	1119	69	16.2	996	73	13.1	2.7	3.7	4.8
1750	Open	1402	65	21.1	1208	70	15.9	1072	73	12.8	2.8	3.9	5.0
2000	Open	1493	65	20.8	1284	70	15.7	1139	74	12.6	2.9	4.0	5.1
2250	Open	1573	66	20.2	1350	71	15.2	1196	74	12.2	3.0	4.2	5.3
85°C - Copper Conductor - Hollow Core Segmental Strand													
2000	Open	1515	65	20.9	1302	70	15.7	1155	74	12.6	2.9	4.0	5.1
2250	Open	1599	66	20.2	1373	71	15.2	1216	74	12.2	3.0	4.2	5.3
2500	Open	1684	66	20.2	1444	71	15.1	1277	74	12.0	3.1	4.3	5.5
2750	Open	1766	67	19.9	1511	71	14.9	1335	74	11.9	3.2	4.4	5.6
3000	Open	1832	67	19.7	1565	72	14.7	1382	75	11.7	3.2	4.5	5.8

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115 kV 1/c Self Contained Liquid Filled Lead Sheathed Power Cable

Direct Buried - 1 Circuit - Three Cables - Spaced

25°C Earth Ambient

Condr Size	Sheath Res	60 Rho Interface Temp	60 Rho Flux	60 Rho Amps	90 Rho Interface Temp	90 Rho Flux	90 Rho Amps	120 Rho Interface Temp	120 Rho Flux	120 Rho Amps	delta Td for .0033 pf & Rho 60	90	120
		°C	w/ft²		°C	w/ft²		°C	w/ft²				
					75% LF								
		75°C - Copper Conductor - Hollow Core Concentric Strand											
350	Open	598	49	22.2	537	54	18.1	491	57	15.2	2.0	2.7	3.3
500	Open	724	49	21.5	649	54	17.5	593	58	14.8	2.1	2.8	3.5
750	Open	905	50	21.3	808	55	17.3	736	59	14.4	2.2	3.0	3.8
1000	Open	1075	52	22.6	952	57	17.9	862	60	14.9	2.5	3.4	4.3
1250	Open	1214	53	22.4	1072	58	17.7	968	61	14.6	2.6	3.6	4.6
1500	Open	1339	53	22.1	1179	58	17.4	1062	61	14.4	2.7	3.7	4.8
1750	Open	1452	54	22.0	1275	59	17.2	1146	62	14.0	2.8	3.9	5.0
2000	Open	1548	54	21.8	1357	59	17.0	1218	62	14.0	2.9	4.0	5.1
2250	Open	1632	55	21.2	1429	59	16.5	1281	63	13.4	3.0	4.2	5.3
		75°C - Copper Conductor - Hollow Core Segmental Strand											
2000	Open	1571	54	21.8	1377	59	17.1	1236	62	14.0	2.9	4.0	5.1
2250	Open	1661	55	21.2	1454	59	16.5	1304	63	13.6	3.0	4.2	5.3
2500	Open	1751	55	21.1	1530	60	16.4	1371	63	13.4	3.1	4.3	5.5
2750	Open	1839	55	20.9	1604	60	16.2	1434	63	13.2	3.2	4.4	5.6
3000	Open	1910	56	20.8	1664	60	16.1	1486	63	13.1	3.2	4.5	5.8

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115 kV 1/c Self Contained Liquid Filled Lead Sheathed Power Cable

Direct Buried - 1 Circuit - Three Cables - Spaced

25°C Earth Ambient

Condr Size	Sheath Res	---- 60 Rho--- Interface Temp Amps	°C	Flux w/ft²	---- 90 Rho--- Interface Temp Amps	°C	Flux w/ft²	----120 Rho--- Interface Temp Amps	°C	Flux w/ft²	delta Td for .0033 pf & Rho 60	90	120
						100% LF							
						75°C - Copper Conductor - Hollow Core Concentric Strand							
350	Open	545	53	18.6	479	58	14.6	431	62	12.0	2.0	2.7	3.3
500	Open	657	54	18.0	577	59	14.0	519	62	11.4	2.1	2.8	3.5
750	Open	819	55	17.6	715	60	13.7	641	63	11.2	2.2	3.0	3.8
1000	Open	966	57	18.5	837	61	14.1	746	64	11.5	2.5	3.4	4.3
1250	Open	1088	57	18.1	940	62	13.9	836	65	11.2	2.6	3.6	4.6
1500	Open	1195	58	17.9	1030	62	13.6	914	65	11.0	2.7	3.7	4.8
1750	Open	1292	58	17.6	1110	63	13.3	984	65	10.7	2.8	3.9	5.0
2000	Open	1375	59	17.4	1180	63	13.1	1044	66	10.5	2.9	4.0	5.1
2250	Open	1447	59	17.0	1240	63	12.7	1096	66	10.2	3.0	4.2	5.3
						75°C - Copper Conductor - Hollow Core Segmental Strand							
2000	Open	1396	59	17.4	1197	63	13.1	1059	66	10.6	2.9	4.0	5.1
2250	Open	1473	59	17.0	1261	63	12.7	1115	66	10.2	3.0	4.2	5.3
2500	Open	1550	59	16.8	1326	64	12.6	1170	66	10.1	3.1	4.3	5.5
2750	Open	1624	60	16.5	1386	64	12.4	1222	66	9.9	3.2	4.4	5.6
3000	Open	1685	60	16.4	1436	64	12.3	1264	67	9.8	3.2	4.5	5.8

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115 kV 1/c Self Contained Liquid Filled Lead Sheathed Power Cable

Direct Buried - 1 Circuit - Three Cables - Spaced

25°C Earth Ambient

Condr Size	Sheath Res	60 Rho Interface Temp	60 Rho Flux	60 Rho Amps	90 Rho Interface Temp	90 Rho Flux	90 Rho Amps	120 Rho Interface Temp	120 Rho Flux	120 Rho Amps	delta Td for .0033 pf & Rho 60	90	120
		°C	w/ft²		°C	w/ft²		°C	w/ft²				
75% LF													
65°C - Copper Conductor - Hollow Core Concentric Strand													
350	Open	44	17.8	541	48	14.4	443	51	12.1		2.0	2.7	3.3
500	Open	45	17.2	654	49	14.0	534	52	11.7		2.1	2.8	3.5
750	Open	46	17.1	818	50	13.8	662	52	11.5		2.2	3.0	3.8
1000	Open	47	18.1	970	51	14.4	774	54	11.8		2.5	3.4	4.3
1250	Open	48	17.9	1096	51	14.2	868	54	11.7		2.6	3.6	4.6
1500	Open	48	17.7	1207	52	13.9	952	54	11.4		2.7	3.7	4.8
1750	Open	49	17.6	1307	52	13.7	1025	55	11.2		2.8	3.9	5.0
2000	Open	49	17.4	1393	53	13.6	1089	55	11.2		2.9	4.0	5.1
2250	Open	49	17.0	1468	53	13.2	1144	55	10.8		3.0	4.2	5.3
65°C - Copper Conductor - Hollow Core Segmental Strand													
2000	Open	49	17.4	1415	53	13.6	1106	55	11.2		2.9	4.0	5.1
2250	Open	49	17.0	1495	53	13.2	1165	55	10.8		3.0	4.2	5.3
2500	Open	49	16.8	1575	53	13.1	1224	56	10.7		3.1	4.3	5.5
2750	Open	50	16.8	1653	53	12.9	1280	56	10.5		3.2	4.4	5.6
3000	Open	50	16.6	1716	54	12.8	1325	56	10.4		3.2	4.5	5.8

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115 kV 1/c Self Contained Liquid Filled Lead Sheathed Power Cable

Direct Buried - 1 Circuit - Three Cables - Spaced

25°C Earth Ambient

Condr Size	Sheath Res	60 Rho Amps	60 Rho Interface Temp °C	60 Rho Flux w/ft²	90 Rho Amps	90 Rho Interface Temp °C	90 Rho Flux w/ft²	120 Rho Amps	120 Rho Interface Temp °C	120 Rho Flux w/ft²	delta Td for .0033 pf & Rho 60	90	120
						100% LF							
						65°C - Copper Conductor - Hollow Core Concentric Strand							
350	Open	493	48	14.9	432	52	11.7	389	54	9.5	2.0	2.7	3.3
500	Open	594	48	14.3	521	52	11.3	467	55	9.3	2.1	2.8	3.5
750	Open	740	49	14.1	645	53	11.0	577	55	8.9	2.2	3.0	3.8
1000	Open	872	50	14.8	754	54	11.4	670	56	9.3	2.5	3.4	4.3
1250	Open	981	51	14.6	846	55	11.2	750	57	9.0	2.6	3.6	4.6
1500	Open	1078	51	14.4	926	55	10.9	819	57	8.8	2.7	3.7	4.8
1750	Open	1164	52	14.2	997	55	10.7	880	58	8.5	2.8	3.9	5.0
2000	Open	1238	52	14.0	1058	56	10.5	933	58	8.5	2.9	4.0	5.1
2250	Open	1302	52	13.6	1111	56	10.2	979	58	8.2	3.0	4.2	5.3
						65°C - Copper Conductor - Hollow Core Segmental Strand							
2000	Open	1257	52	14.0	1075	56	10.6	948	58	8.5	2.9	4.0	5.1
2250	Open	1326	52	13.6	1132	56	10.2	997	58	8.2	3.0	4.2	5.3
2500	Open	1395	53	13.5	1189	56	10.1	1045	58	8.1	3.1	4.3	5.5
2750	Open	1461	53	13.3	1242	56	10.0	1091	58	8.0	3.2	4.4	5.6
3000	Open	1514	53	13.2	1285	57	9.9	1127	59	7.8	3.2	4.5	5.8

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115 kV 1/c Self Contained Liquid Filled Lead Sheathed Power Cable

Direct Buried - 1 Circuit - Three Cables - Spaced

25°C Earth Ambient

Condr Size	Sheath Res	60 Rho Amps	60 Rho Interface Temp °C	60 Rho Flux w/ft²	90 Rho Amps	90 Rho Interface Temp °C	90 Rho Flux w/ft²	120 Rho Amps	120 Rho Interface Temp °C	120 Rho Flux w/ft²	delta Td for .0033 pf & Rho 60	90	120
						75% LF							
						50°C - Copper Conductor - Hollow Core Concentric Strand							
350	Open	432	38	11.2	385	40	9.1	349	42	7.6	2.0	2.7	3.3
500	Open	522	38	10.8	464	40	8.7	420	42	7.3	2.1	2.8	3.5
750	Open	651	38	10.7	577	41	8.5	520	43	7.2	2.2	3.0	3.8
1000	Open	771	39	11.2	675	42	9.0	604	43	7.4	2.5	3.4	4.3
1250	Open	869	40	11.2	758	42	8.7	676	44	7.2	2.6	3.6	4.6
1500	Open	955	40	11.0	831	42	8.6	738	44	7.1	2.7	3.7	4.8
1750	Open	1033	40	10.9	895	43	8.5	793	44	6.9	2.8	3.9	5.0
2000	Open	1099	40	10.9	950	43	8.5	840	44	6.9	2.9	4.0	5.1
2250	Open	1155	41	10.5	997	43	8.2	880	45	6.7	3.0	4.2	5.3
						50°C - Copper Conductor - Hollow Core Segmental Strand							
2000	Open	1118	40	10.9	966	43	8.5	855	44	6.9	2.9	4.0	5.1
2250	Open	1179	41	10.5	1017	43	8.2	898	45	6.7	3.0	4.2	5.3
2500	Open	1240	41	10.5	1068	43	8.1	941	45	6.5	3.1	4.3	5.5
2750	Open	1300	41	10.4	1116	43	8.0	981	45	6.4	3.2	4.4	5.6
3000	Open	1348	41	10.3	1155	43	7.9	1014	45	6.4	3.2	4.5	5.8

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115 kV 1/c Self Contained Liquid Filled Lead Sheathed Power Cable

Direct Buried - 1 Circuit - Three Cables - Spaced

25°C Earth Ambient

Condr Size	Sheath Res	60 Rho Interface Amps	60 Rho Interface Temp °C	60 Rho Flux w/ft²	90 Rho Interface Amps	90 Rho Interface Temp °C	90 Rho Flux w/ft²	120 Rho Interface Amps	120 Rho Interface Temp °C	120 Rho Flux w/ft²	delta Td for .0033 pf & Rho 60	90	120
						100% LF							
						50°C - Copper Conductor - Hollow Core Concentric Strand							
350	Open	393	40	9.4	343	42	7.3	306	44	6.0	2.0	2.7	3.3
500	Open	474	40	9.0	412	42	7.0	368	44	5.8	2.1	2.8	3.5
750	Open	589	40	8.9	510	43	6.9	453	44	5.6	2.2	3.0	3.8
1000	Open	693	41	9.3	594	44	7.1	523	45	5.8	2.5	3.4	4.3
1250	Open	778	42	9.1	664	44	7.0	584	45	5.6	2.6	3.6	4.6
1500	Open	853	42	9.0	726	44	6.8	636	46	5.5	2.7	3.7	4.8
1750	Open	920	42	8.9	780	44	6.8	681	46	5.4	2.8	3.9	5.0
2000	Open	976	42	8.8	826	45	6.6	720	46	5.3	2.9	4.0	5.1
2250	Open	1025	43	8.5	865	45	6.4	752	46	5.1	3.0	4.2	5.3
						50°C - Copper Conductor - Hollow Core Segmental Strand							
2000	Open	993	42	8.8	840	45	6.6	732	46	5.3	2.9	4.0	5.1
2250	Open	1045	43	8.5	882	45	6.4	768	46	5.1	3.0	4.2	5.3
2500	Open	1098	43	8.5	925	45	6.4	803	46	5.0	3.1	4.3	5.5
2750	Open	1148	43	8.4	965	45	6.2	836	46	5.0	3.2	4.4	5.6
3000	Open	1189	43	8.4	997	45	6.2	862	46	4.9	3.2	4.5	5.8

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115 kV 1/c Self Contained Liquid Filled Lead Sheathed Power Cable

Direct Buried - 1 Circuit - Three Cables - Spaced

25°C Earth Ambient

Condr Size	Sheath Res	60 Rho 75 LF	60 Rho 100 LF	90 Rho 75 LF	90 Rho 100 LF	120 Rho 75 LF	120 Rho 100 LF
		Total Watts/ft					
85°C - Copper Conductor - Hollow Core Concentric Strand							
350	Open	49.4	41.2	40.3	32.4	34.1	26.6
500	Open	50.8	42.2	41.3	33.0	34.8	27.1
750	Open	53.3	43.9	43.0	34.1	36.1	27.9
1000	Open	56.9	46.4	45.3	35.6	37.7	28.8
1250	Open	58.9	47.7	46.7	36.4	38.6	29.4
1500	Open	60.7	48.9	47.8	37.1	39.4	30.0
1750	Open	62.5	50.1	49.0	37.9	40.3	30.4
2000	Open	63.6	50.8	49.7	38.3	40.8	30.7
2250	Open	64.6	51.4	50.4	38.7	41.3	31.0
85°C - Copper Conductor - Hollow Core Segmental Strand							
2000	Open	63.5	50.8	49.7	38.2	40.8	30.7
2250	Open	64.6	51.5	50.5	38.7	41.3	31.0
2500	Open	65.6	52.1	51.0	39.1	41.8	31.3
2750	Open	66.9	52.9	51.9	39.6	42.3	31.6
3000	Open	67.8	53.5	52.5	39.9	42.8	31.8

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115 kV 1/c Self Contained Liquid Filled Lead Sheathed Power Cable

Direct Buried - 1 Circuit - Three Cables - Spaced

25°C Earth Ambient

Condr Size	Sheath Res	60 Rho 75 LF	60 Rho 100 LF	90 Rho 75 LF	90 Rho 100 LF	120 Rho 75 LF	120 Rho 100 LF
		Total Watts/ft					
75°C - Copper Conductor - Hollow Core Concentric Strand							
350	Open	41.2	34.5	33.5	27.0	28.3	22.2
500	Open	42.4	35.2	34.4	27.6	29.0	22.6
750	Open	44.4	36.7	35.8	28.4	30.0	23.3
1000	Open	47.5	38.8	37.8	29.7	31.4	24.1
1250	Open	49.1	39.9	38.8	30.4	32.1	24.6
1500	Open	50.6	40.8	39.8	31.0	32.8	25.0
1750	Open	52.1	41.8	40.8	31.6	33.5	25.4
2000	Open	53.0	42.4	41.4	32.0	33.9	25.6
2250	Open	53.8	42.9	42.0	32.3	34.3	25.9
75°C - Copper Conductor - Hollow Core Segmental Strand							
2000	Open	52.9	42.4	41.3	31.9	33.8	25.6
2250	Open	53.8	43.0	41.9	32.3	34.3	25.9
2500	Open	54.6	43.5	42.4	32.6	34.7	26.1
2750	Open	55.7	44.2	43.2	33.0	35.1	26.4
3000	Open	56.4	44.6	43.6	33.3	35.5	26.6

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115 kV 1/c Self Contained Liquid Filled Lead Sheathed Power Cable

Direct Buried - 1 Circuit - Three Cables - Spaced

25°C Earth Ambient

Condr Size	Sheath Res	60 Rho 75 LF	60 Rho 100 LF	90 Rho 75 LF	90 Rho 100 LF	120 Rho 75 LF	120 Rho 100 LF
		Total Watts/ft					
65°C - Copper Conductor - Hollow Core Concentric Strand							
350	Open	33.0	27.7	26.8	21.6	22.7	17.9
500	Open	33.8	28.2	27.5	22.1	23.1	18.1
750	Open	35.5	29.4	28.6	22.8	23.9	18.7
1000	Open	38.0	31.1	30.2	23.8	25.0	19.3
1250	Open	39.3	32.0	31.0	24.4	25.6	19.7
1500	Open	40.4	32.8	31.8	24.9	26.1	20.0
1750	Open	41.5	33.5	32.5	25.3	26.6	20.3
2000	Open	42.3	34.0	32.9	25.6	26.9	20.5
2250	Open	43.0	34.5	33.4	25.9	27.3	20.8
65°C - Copper Conductor - Hollow Core Segmental Strand							
2000	Open	42.2	33.9	32.9	25.6	26.9	20.5
2250	Open	43.0	34.5	33.4	25.9	27.3	20.8
2500	Open	43.6	34.9	33.8	26.2	27.6	20.9
2750	Open	44.5	35.4	34.3	26.5	27.9	21.2
3000	Open	45.0	35.8	34.7	26.7	28.2	21.3

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115 kV 1/c Self Contained Liquid Filled Lead Sheathed Power Cable

Direct Buried - 1 Circuit - Three Cables - Spaced

25°C Earth Ambient

Condr Size	Sheath Res	60 Rho 75 LF	60 Rho 100 LF	90 Rho 75 LF	90 Rho 100 LF	120 Rho 75 LF	120 Rho 100 LF
		Total Watts/ft					
50°C - Copper Conductor - Hollow Core Concentric Strand							
350	Open	20.6	17.4	16.7	13.6	14.1	11.2
500	Open	21.2	17.8	17.1	13.9	14.4	11.4
750	Open	22.2	18.5	17.8	14.4	14.8	11.7
1000	Open	23.7	19.6	18.7	15.0	15.5	12.2
1250	Open	24.5	20.1	19.2	15.3	15.8	12.4
1500	Open	25.2	20.6	19.7	15.7	16.1	12.6
1750	Open	25.9	21.1	20.1	16.0	16.4	12.8
2000	Open	26.4	21.4	20.4	16.1	16.6	12.9
2250	Open	26.8	21.7	20.7	16.3	16.8	13.1
50°C - Copper Conductor - Hollow Core Segmental Strand							
2000	Open	26.3	21.4	20.4	16.1	16.6	12.9
2250	Open	26.8	21.7	20.7	16.3	16.8	13.1
2500	Open	27.1	22.0	20.9	16.5	16.9	13.2
2750	Open	27.7	22.3	21.2	16.7	17.1	13.3
3000	Open	28.0	22.5	21.4	16.8	17.3	13.4

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115 kV 1/c Self Contained Liquid Filled Lead Sheathed Power Cable

Direct Buried - 1 Circuit - Three Cables - Spaced

25°C Earth Ambient

Condr Size	Sheath Res	OD	Wd	Rac	Qs	Ri	Rj	Re @ 90 Rho & loss factor 75%	100%
			85°C - Copper Conductor - Hollow Core Concentric Strand						
350	Open	2.360	0.56	37.94	1.001	1.78	0.21	2.47	3.63
500	Open	2.508	0.60	26.60	1.001	1.66	0.24	2.45	3.60
750	Open	2.651	0.65	17.78	1.002	1.52	0.23	2.42	3.57
1000	Open	2.683	0.77	13.41	1.003	1.30	0.22	2.41	3.57
1250	Open	2.800	0.82	10.83	1.005	1.22	0.21	2.39	3.55
1500	Open	2.918	0.87	9.14	1.007	1.15	0.21	2.37	3.53
1750	Open	3.045	0.92	7.97	1.009	1.09	0.20	2.35	3.51
2000	Open	3.116	0.95	7.11	1.011	1.05	0.19	2.34	3.50
2250	Open	3.266	1.00	6.46	1.014	1.00	0.21	2.32	3.48
			85°C - Copper Conductor - Hollow Core Segmental Strand						
2000	Open	3.113	0.95	6.90	1.011	1.05	0.19	2.34	3.50
2250	Open	3.266	1.00	6.25	1.015	1.00	0.21	2.32	3.48
2500	Open	3.335	1.03	5.69	1.017	0.97	0.20	2.31	3.47
2750	Open	3.440	1.07	5.23	1.021	0.93	0.20	2.30	3.45
3000	Open	3.511	1.10	4.89	1.024	0.91	0.19	2.29	3.44

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115 kV 1/c Self Contained Liquid Filled Lead Sheathed Power Cable

Direct Buried - 1 Circuit - Three Cables - Spaced

25°C Earth Ambient

Condr Size	Sheath Res	OD	Wd	Rac	Qs	Ri	Rj	Re @ 90 Rho & loss factor 75%	100%
			75°C - Copper Conductor - Hollow Core Concentric Strand						
350	Open	2.360	0.56	37.94	1.001	1.78	0.21	2.47	3.63
500	Open	2.508	0.60	26.60	1.001	1.66	0.24	2.45	3.60
750	Open	2.651	0.65	17.78	1.002	1.52	0.23	2.42	3.57
1000	Open	2.683	0.77	13.41	1.003	1.30	0.22	2.41	3.57
1250	Open	2.800	0.82	10.83	1.005	1.22	0.21	2.39	3.55
1500	Open	2.918	0.87	9.14	1.007	1.15	0.21	2.37	3.53
1750	Open	3.045	0.92	7.97	1.009	1.09	0.20	2.35	3.51
2000	Open	3.116	0.95	7.11	1.011	1.05	0.19	2.34	3.50
2250	Open	3.266	1.00	6.46	1.014	1.00	0.21	2.32	3.48
			75°C - Copper Conductor - Hollow Core Segmental Strand						
2000	Open	3.113	0.95	6.90	1.011	1.05	0.19	2.34	3.50
2250	Open	3.266	1.00	6.25	1.015	1.00	0.21	2.32	3.48
2500	Open	3.335	1.03	5.69	1.017	0.97	0.20	2.31	3.47
2750	Open	3.440	1.07	5.23	1.021	0.93	0.20	2.30	3.45
3000	Open	3.511	1.10	4.89	1.024	0.91	0.19	2.29	3.44

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115 kV 1/c Self Contained Liquid Filled Lead Sheathed Power Cable

Direct Buried - 1 Circuit - Three Cables - Spaced

25°C Earth Ambient

Condr Size	Sheath Res	OD	Wd	Rac	Qs	Ri	Rj	Re @ 90 Rho & loss factor 75%	100%
			65°C - Copper Conductor - Hollow Core Concentric Strand						
350	Open	2.360	0.56	37.94	1.001	1.78	0.21	2.47	3.63
500	Open	2.508	0.60	26.60	1.001	1.66	0.24	2.45	3.60
750	Open	2.651	0.65	17.78	1.002	1.52	0.23	2.42	3.57
1000	Open	2.683	0.77	13.41	1.003	1.30	0.22	2.41	3.57
1250	Open	2.800	0.82	10.83	1.005	1.22	0.21	2.39	3.55
1500	Open	2.918	0.87	9.14	1.007	1.15	0.21	2.37	3.53
1750	Open	3.045	0.92	7.97	1.009	1.09	0.20	2.35	3.51
2000	Open	3.116	0.95	7.11	1.011	1.05	0.19	2.34	3.50
2250	Open	3.266	1.00	6.46	1.014	1.00	0.21	2.32	3.48
			65°C - Copper Conductor - Hollow Core Segmental Strand						
2000	Open	3.113	0.95	6.90	1.011	1.05	0.19	2.34	3.50
2250	Open	3.266	1.00	6.25	1.015	1.00	0.21	2.32	3.48
2500	Open	3.335	1.03	5.69	1.017	0.97	0.20	2.31	3.47
2750	Open	3.440	1.07	5.23	1.021	0.93	0.20	2.30	3.45
3000	Open	3.511	1.10	4.89	1.024	0.91	0.19	2.29	3.44

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115 kV 1/c Self Contained Liquid Filled Lead Sheathed Power Cable

Direct Buried - 1 Circuit - Three Cables - Spaced

25°C Earth Ambient

Condr Size	Sheath Res	OD	Wd	Rac	Qs	Ri	Rj	Re @ 90 Rho & loss factor 75%	100%
			50°C - Copper Conductor - Hollow Core Concentric Strand						
350	Open	2.360	0.56	37.94	1.001	1.78	0.21	2.47	3.63
500	Open	2.508	0.60	26.60	1.001	1.66	0.24	2.45	3.60
750	Open	2.651	0.65	17.78	1.002	1.52	0.23	2.42	3.57
1000	Open	2.683	0.77	13.41	1.003	1.30	0.22	2.41	3.57
1250	Open	2.800	0.82	10.83	1.005	1.22	0.21	2.39	3.55
1500	Open	2.918	0.87	9.14	1.007	1.15	0.21	2.37	3.53
1750	Open	3.045	0.92	7.97	1.009	1.09	0.20	2.35	3.51
2000	Open	3.116	0.95	7.11	1.011	1.05	0.19	2.34	3.50
2250	Open	3.266	1.00	6.46	1.014	1.00	0.21	2.32	3.48
			50°C - Copper Conductor - Hollow Core Segmental Strand						
2000	Open	3.113	0.95	6.90	1.011	1.05	0.19	2.34	3.50
2250	Open	3.266	1.00	6.25	1.015	1.00	0.21	2.32	3.48
2500	Open	3.335	1.03	5.69	1.017	0.97	0.20	2.31	3.47
2750	Open	3.440	1.07	5.23	1.021	0.93	0.20	2.30	3.45
3000	Open	3.511	1.10	4.89	1.024	0.91	0.19	2.29	3.44

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115 kV 1/c Self Contained Liquid Filled Lead Sheathed Power Cable

Direct Buried - 2 Circuits - Six Cables - Spaced

25°C Earth Ambient

Condr Size	Sheath Res	60 Rho Amps	60 Rho Interface Temp °C	60 Rho 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 .0033 pf & Rho 60	90	120
						75% LF							
						85°C - Copper Conductor - Hollow Core Concentric Strand							
350	Open	615	57	24.1	547	63	19.3	496	67	16.0	2.3	3.2	4.0
500	Open	743	57	23.3	659	63	18.6	597	67	15.4	2.4	3.3	4.2
750	Open	927	58	23.1	819	64	18.2	740	68	15.0	2.6	3.6	4.5
1000	Open	1098	60	24.2	962	66	18.9	864	70	15.4	3.0	4.1	5.2
1250	Open	1238	61	24.0	1082	67	18.6	969	70	15.1	3.1	4.3	5.5
1500	Open	1363	62	23.6	1188	68	18.2	1062	71	14.8	3.2	4.5	5.8
1750	Open	1477	63	23.3	1283	68	17.8	1145	72	14.4	3.4	4.7	6.1
2000	Open	1574	63	23.2	1365	69	17.7	1217	72	14.3	3.5	4.8	6.2
2250	Open	1659	63	22.5	1437	69	17.2	1279	72	13.8	3.6	5.1	6.5
						85°C - Copper Conductor - Hollow Core Segmental Strand							
2000	Open	1596	63	23.2	1384	69	17.7	1234	72	14.4	3.4	4.8	6.2
2250	Open	1687	63	22.5	1461	69	17.2	1300	72	13.8	3.6	5.1	6.5
2500	Open	1777	64	22.3	1536	69	17.0	1367	73	13.7	3.7	5.2	6.7
2750	Open	1864	64	22.1	1609	70	16.8	1429	73	13.4	3.8	5.3	6.9
3000	Open	1935	65	22.0	1667	70	16.6	1479	73	13.3	3.9	5.4	7.0

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115 kV 1/c Self Contained Liquid Filled Lead Sheathed Power Cable

Direct Buried - 2 Circuits - Six Cables - Spaced

25°C Earth Ambient

Condr Size	Sheath Res	60 Rho Interface Amps	60 Rho Interface Temp °C	60 Rho Interface Flux w/ft²	90 Rho Interface Amps	90 Rho Interface Temp °C	90 Rho Interface Flux w/ft²	120 Rho Interface Amps	120 Rho Interface Temp °C	120 Rho Interface Flux w/ft²	delta Td for .0033 pf & Rho 60	90	120
						100% LF							
						85°C - Copper Conductor - Hollow Core Concentric Strand							
350	Open	551	62	19.6	480	68	15.1	429	71	12.3	2.3	3.2	4.0
500	Open	665	63	18.9	577	68	14.5	515	72	11.7	2.4	3.3	4.2
750	Open	827	64	18.4	714	69	14.1	636	72	11.4	2.6	3.6	4.5
1000	Open	971	66	19.2	833	71	14.4	738	74	11.5	3.0	4.1	5.2
1250	Open	1092	67	18.8	934	71	14.1	826	74	11.3	3.1	4.3	5.5
1500	Open	1199	67	18.5	1023	72	13.7	902	75	11.0	3.2	4.5	5.8
1750	Open	1294	68	18.2	1101	73	13.4	970	75	10.7	3.4	4.7	6.1
2000	Open	1377	68	18.0	1170	73	13.2	1029	76	10.5	3.5	4.8	6.2
2250	Open	1449	69	17.4	1229	73	12.9	1080	76	10.2	3.6	5.1	6.5
						85°C - Copper Conductor - Hollow Core Segmental Strand							
2000	Open	1397	68	18.0	1187	73	13.3	1044	76	10.6	3.4	4.8	6.2
2250	Open	1473	69	17.4	1249	73	12.9	1098	76	10.2	3.6	5.1	6.5
2500	Open	1550	69	17.3	1313	74	12.7	1152	76	10.1	3.7	5.2	6.7
2750	Open	1623	69	17.0	1372	74	12.5	1202	76	9.9	3.8	5.3	6.9
3000	Open	1682	70	16.9	1421	74	12.4	1244	77	9.8	3.9	5.4	7.0

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Direct Buried - 2 Circuits - Six Cables - Spaced

25°C Earth Ambient

Condr Size	Sheath Res	60 Rho Interface Temp	60 Rho Flux	60 Rho Amps	90 Rho Interface Temp	90 Rho Flux	90 Rho Amps	120 Rho Interface Temp	120 Rho Flux	120 Rho Amps	delta Td for .0033 pf & Rho 60	90	120
		°C	w/ft²		°C	w/ft²		°C	w/ft²				
						75% LF							
					75°C - Copper Conductor - Hollow Core Concentric Strand								
350	Open	52	20.1	568	57	16.0	504	60	13.3	457	2.3	3.2	4.0
500	Open	52	19.5	686	57	15.4	608	60	12.8	550	2.4	3.3	4.2
750	Open	53	19.2	856	58	15.1	755	61	12.5	680	2.6	3.6	4.5
1000	Open	55	20.2	1012	59	15.7	885	63	12.8	794	3.0	4.1	5.2
1250	Open	55	19.9	1141	60	15.4	995	63	12.6	890	3.1	4.3	5.5
1500	Open	56	19.6	1256	61	15.2	1091	64	12.3	975	3.2	4.5	5.8
1750	Open	57	19.4	1359	61	14.8	1178	64	12.0	1048	3.4	4.7	6.1
2000	Open	57	19.2	1448	62	14.7	1252	64	11.9	1113	3.5	4.8	6.2
2250	Open	57	18.7	1525	62	14.3	1317	65	11.5	1169	3.6	5.1	6.5
					75°C - Copper Conductor - Hollow Core Segmental Strand								
2000	Open	57	19.3	1470	62	14.7	1271	64	11.9	1129	3.4	4.8	6.2
2250	Open	57	18.7	1551	62	14.3	1340	65	11.5	1189	3.6	5.1	6.5
2500	Open	58	18.6	1633	62	14.1	1408	65	11.3	1249	3.7	5.2	6.7
2750	Open	58	18.4	1713	62	13.9	1473	65	11.2	1304	3.8	5.3	6.9
3000	Open	58	18.3	1777	63	13.8	1526	65	11.0	1350	3.9	5.4	7.0

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115 kV 1/c Self Contained Liquid Filled Lead Sheathed Power Cable

Direct Buried - 2 Circuits - Six Cables - Spaced

25°C Earth Ambient

Condr Size	Sheath Res	---- 60 Rho--- Interface Temp Amps	Flux °C	Flux w/ft²	---- 90 Rho--- Interface Temp Amps	Flux °C	Flux w/ft²	----120 Rho--- Interface Temp Amps	Flux °C	Flux w/ft²	delta Td for .0033 pf & Rho 60	90	120
					100% LF								
					75°C - Copper Conductor - Hollow Core Concentric Strand								
350	Open	509	56	16.3	442	61	12.6	395	64	10.2	2.3	3.2	4.0
500	Open	614	57	15.7	532	61	12.0	474	64	9.7	2.4	3.3	4.2
750	Open	762	58	15.4	658	62	11.7	585	65	9.5	2.6	3.6	4.5
1000	Open	896	59	16.1	767	63	12.1	678	66	9.7	3.0	4.1	5.2
1250	Open	1006	60	15.7	859	64	11.7	757	66	9.4	3.1	4.3	5.5
1500	Open	1104	60	15.4	940	64	11.5	827	67	9.2	3.2	4.5	5.8
1750	Open	1191	61	15.2	1011	65	11.3	888	67	8.9	3.4	4.7	6.1
2000	Open	1267	61	15.0	1073	65	11.2	941	67	8.8	3.5	4.8	6.2
2250	Open	1332	62	14.5	1126	65	10.8	986	68	8.5	3.6	5.1	6.5
					75°C - Copper Conductor - Hollow Core Segmental Strand								
2000	Open	1286	61	15.0	1089	65	11.2	955	67	8.8	3.4	4.8	6.2
2250	Open	1355	62	14.5	1146	65	10.8	1004	68	8.5	3.6	5.1	6.5
2500	Open	1425	62	14.4	1203	66	10.7	1052	68	8.4	3.7	5.2	6.7
2750	Open	1491	62	14.2	1257	66	10.4	1098	68	8.2	3.8	5.3	6.9
3000	Open	1545	62	14.1	1300	66	10.3	1135	68	8.2	3.9	5.4	7.0

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115 kV 1/c Self Contained Liquid Filled Lead Sheathed Power Cable

Direct Buried - 2 Circuits - Six Cables - Spaced

25°C Earth Ambient

Condr Size	Sheath Res	60 Rho Interface Amps	60 Rho Interface Temp °C	60 Rho Interface Flux w/ft²	90 Rho Interface Amps	90 Rho Interface Temp °C	90 Rho Interface Flux w/ft²	120 Rho Interface Amps	120 Rho Interface Temp °C	120 Rho Interface Flux w/ft²	delta Td for .0033 pf & Rho 60	90	120
						75% LF							
						65°C - Copper Conductor - Hollow Core Concentric Strand							
350	Open	513	46	16.0	455	50	12.8	411	53	10.7	2.3	3.2	4.0
500	Open	620	47	15.5	548	51	12.3	494	53	10.2	2.4	3.3	4.2
750	Open	773	48	15.4	680	52	12.1	611	54	9.9	2.6	3.6	4.5
1000	Open	913	49	16.1	796	53	12.5	711	55	10.3	3.0	4.1	5.2
1250	Open	1028	50	16.0	893	53	12.3	795	56	10.0	3.1	4.3	5.5
1500	Open	1131	50	15.7	979	54	12.0	870	56	9.8	3.2	4.5	5.8
1750	Open	1223	51	15.4	1055	54	11.8	935	57	9.5	3.4	4.7	6.1
2000	Open	1301	51	15.3	1121	55	11.8	991	57	9.4	3.5	4.8	6.2
2250	Open	1370	51	15.0	1177	55	11.3	1040	57	9.1	3.6	5.1	6.5
						65°C - Copper Conductor - Hollow Core Segmental Strand							
2000	Open	1322	51	15.5	1138	55	11.8	1007	57	9.4	3.4	4.8	6.2
2250	Open	1395	51	15.0	1199	55	11.3	1059	57	9.1	3.6	5.1	6.5
2500	Open	1468	51	14.9	1259	55	11.2	1111	57	9.0	3.7	5.2	6.7
2750	Open	1538	52	14.7	1316	55	11.1	1159	57	8.9	3.8	5.3	6.9
3000	Open	1594	52	14.6	1363	56	11.0	1198	58	8.7	3.9	5.4	7.0

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2250

115 kV 1/c Self Contained Liquid Filled Lead Sheathed Power Cable

Direct Buried - 2 Circuits - Six Cables - Spaced

25°C Earth Ambient

Condr Size	Sheath Res	60 Rho Amps	60 Rho Interface Temp °C	60 Rho Flux w/ft²	90 Rho Amps	90 Rho Interface Temp °C	90 Rho Flux w/ft²	120 Rho Amps	120 Rho Interface Temp °C	120 Rho Flux w/ft²	delta Td for .0033 pf & Rho 60	90	120
						100% LF							
						65°C - Copper Conductor - Hollow Core Concentric Strand							
350	Open	460	50	13.1	399	54	10.0	355	56	8.3	2.3	3.2	4.0
500	Open	555	50	12.6	479	54	9.6	426	56	7.8	2.4	3.3	4.2
750	Open	688	51	12.4	592	55	9.4	525	57	7.6	2.6	3.6	4.5
1000	Open	808	53	12.8	689	56	9.7	607	58	7.7	3.0	4.1	5.2
1250	Open	906	53	12.7	771	56	9.4	677	58	7.5	3.1	4.3	5.5
1500	Open	994	54	12.4	843	57	9.3	738	59	7.3	3.2	4.5	5.8
1750	Open	1071	54	12.2	905	57	9.0	792	59	7.2	3.4	4.7	6.1
2000	Open	1138	54	12.0	960	57	8.9	838	59	7.1	3.5	4.8	6.2
2250	Open	1195	54	11.7	1007	58	8.7	877	59	6.8	3.6	5.1	6.5
						65°C - Copper Conductor - Hollow Core Segmental Strand							
2000	Open	1156	54	12.0	975	57	9.0	851	59	7.1	3.4	4.8	6.2
2250	Open	1218	54	11.7	1025	58	8.7	893	59	6.8	3.6	5.1	6.5
2500	Open	1280	55	11.6	1076	58	8.5	936	60	6.8	3.7	5.2	6.7
2750	Open	1338	55	11.4	1122	58	8.3	975	60	6.7	3.8	5.3	6.9
3000	Open	1385	55	11.3	1160	58	8.3	1007	60	6.5	3.9	5.4	7.0

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115 kV 1/c Self Contained Liquid Filled Lead Sheathed Power Cable

Direct Buried - 2 Circuits - Six Cables - Spaced

25°C Earth Ambient

Condr Size	Sheath Res	60 Rho Interface Temp Amps	60 Rho Interface Temp °C	60 Rho Flux w/ft²	90 Rho Interface Temp Amps	90 Rho Interface Temp °C	90 Rho Flux w/ft²	120 Rho Interface Temp Amps	120 Rho Interface Temp °C	120 Rho Flux w/ft²	delta Td for .0033 pf & Rho 60	90	120
						75% LF							
						50°C - Copper Conductor - Hollow Core Concentric Strand							
350	Open	409	39	10.0	359	41	7.9	322	43	6.6	2.3	3.2	4.0
500	Open	493	39	9.7	432	42	7.6	386	43	6.2	2.4	3.3	4.2
750	Open	613	40	9.5	535	42	7.5	476	44	6.2	2.6	3.6	4.5
1000	Open	722	41	10.1	622	43	7.7	549	45	6.3	3.0	4.1	5.2
1250	Open	812	41	10.0	697	43	7.6	612	45	6.1	3.1	4.3	5.5
1500	Open	891	41	9.8	762	44	7.5	667	45	6.0	3.2	4.5	5.8
1750	Open	961	42	9.7	818	44	7.3	714	45	5.8	3.4	4.7	6.1
2000	Open	1021	42	9.6	867	44	7.2	755	45	5.8	3.5	4.8	6.2
2250	Open	1072	42	9.2	908	44	7.0	789	46	5.5	3.6	5.1	6.5
						50°C - Copper Conductor - Hollow Core Segmental Strand							
2000	Open	1039	42	9.6	882	44	7.2	768	45	5.8	3.4	4.8	6.2
2250	Open	1093	42	9.2	926	44	7.0	805	46	5.6	3.6	5.1	6.5
2500	Open	1149	42	9.2	971	44	6.9	842	46	5.5	3.7	5.2	6.7
2750	Open	1201	42	9.1	1012	45	6.8	876	46	5.4	3.8	5.3	6.9
3000	Open	1244	42	9.0	1046	45	6.7	903	46	5.3	3.9	5.4	7.0

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115 kV 1/c Self Contained Liquid Filled Lead Sheathed Power Cable

Direct Buried - 2 Circuits - Six Cables - Spaced

25°C Earth Ambient

Condr Size	Sheath Res	60 Rho Interface Temp	60 Rho Flux	60 Rho Amps	90 Rho Interface Temp	90 Rho Flux	90 Rho Amps	120 Rho Interface Temp	120 Rho Flux	120 Rho Amps	delta Td for .0033 pf & Rho 60	90	120
		°C	w/ft²	Amps	°C	w/ft²	Amps	°C	w/ft²	Amps			
100% LF													
50°C - Copper Conductor - Hollow Core Concentric Strand													
350	Open	41	8.3	366	43	6.3	278	45	5.2		2.3	3.2	4.0
500	Open	41	7.9	441	44	6.1	333	45	4.9		2.4	3.3	4.2
750	Open	42	7.8	546	44	5.9	409	45	4.8		2.6	3.6	4.5
1000	Open	43	8.1	639	45	6.1	469	46	4.8		3.0	4.1	5.2
1250	Open	43	7.9	716	45	6.0	522	46	4.8		3.1	4.3	5.5
1500	Open	43	7.9	783	45	5.8	567	46	4.6		3.2	4.5	5.8
1750	Open	44	7.7	842	45	5.6	605	47	4.5		3.4	4.7	6.1
2000	Open	44	7.6	893	46	5.6	639	47	4.4		3.5	4.8	6.2
2250	Open	44	7.4	936	46	5.4	666	47	4.3		3.6	5.1	6.5
50°C - Copper Conductor - Hollow Core Segmental Strand													
2000	Open	44	7.6	909	46	5.6	650	47	4.4		3.4	4.8	6.2
2250	Open	44	7.4	955	46	5.4	679	47	4.3		3.6	5.1	6.5
2500	Open	44	7.3	1002	46	5.4	710	47	4.2		3.7	5.2	6.7
2750	Open	44	7.2	1045	46	5.3	736	47	4.1		3.8	5.3	6.9
3000	Open	44	7.1	1081	46	5.2	758	47	4.1		3.9	5.4	7.0

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Direct Buried - 2 Circuits - Six Cables - Spaced

25°C Earth Ambient

Condr Size	Sheath Res	60 Rho 75 LF	60 Rho 100 LF	90 Rho 75 LF	90 Rho 100 LF	120 Rho 75 LF	120 Rho 100 LF
		Total Watts/ft					
85°C - Copper Conductor - Hollow Core Concentric Strand							
350	Open	89.6	72.6	71.6	55.9	59.4	45.3
500	Open	91.8	74.3	73.0	56.8	60.6	46.0
750	Open	95.8	77.0	75.6	58.4	62.5	47.2
1000	Open	101.9	80.7	79.3	60.6	64.9	48.6
1250	Open	104.9	82.7	81.3	61.8	66.2	49.4
1500	Open	107.7	84.5	83.1	63.0	67.5	50.1
1750	Open	110.7	86.3	84.9	64.0	68.7	50.9
2000	Open	112.3	87.3	85.9	64.6	69.4	51.3
2250	Open	114.0	88.4	87.0	65.3	70.2	51.8
85°C - Copper Conductor - Hollow Core Segmental Strand							
2000	Open	112.2	87.3	85.8	64.6	69.4	51.3
2250	Open	114.0	88.4	87.0	65.2	70.2	51.8
2500	Open	115.5	89.4	87.9	65.9	70.9	52.1
2750	Open	117.4	90.5	89.1	66.5	71.6	52.5
3000	Open	118.9	91.4	89.9	67.1	72.2	53.0

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Direct Buried - 2 Circuits - Six Cables - Spaced

25°C Earth Ambient

Condr Size	Sheath Res	60 Rho 75 LF	60 Rho 100 LF	90 Rho 75 LF	90 Rho 100 LF	120 Rho 75 LF	120 Rho 100 LF
		Total Watts/ft					
75°C - Copper Conductor - Hollow Core Concentric Strand							
350	Open	74.6	60.6	59.5	46.5	49.5	37.8
500	Open	76.4	61.9	60.8	47.4	50.4	38.4
750	Open	79.9	64.1	63.0	48.8	51.8	39.4
1000	Open	84.7	67.4	65.9	50.6	53.9	40.6
1250	Open	87.3	69.0	67.6	51.6	55.1	41.2
1500	Open	89.7	70.5	69.0	52.5	56.1	41.8
1750	Open	92.0	72.0	70.5	53.4	57.0	42.4
2000	Open	93.5	72.9	71.3	53.9	57.6	42.8
2250	Open	94.9	73.8	72.3	54.5	58.2	43.2
75°C - Copper Conductor - Hollow Core Segmental Strand							
2000	Open	93.4	72.8	71.3	53.8	57.4	42.7
2250	Open	94.8	73.8	72.3	54.5	58.2	43.2
2500	Open	96.0	74.6	73.0	54.9	58.7	43.5
2750	Open	97.7	75.6	73.9	55.6	59.3	43.9
3000	Open	98.8	76.3	74.6	56.0	59.8	44.2

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Direct Buried - 2 Circuits - Six Cables - Spaced

25°C Earth Ambient

Condr Size	Sheath Res	60 Rho 75 LF	60 Rho 100 LF	90 Rho 75 LF	90 Rho 100 LF	120 Rho 75 LF	120 Rho 100 LF
		Total Watts/ft					
65°C - Copper Conductor - Hollow Core Concentric Strand							
350	Open	59.6	48.6	47.6	37.4	39.5	30.3
500	Open	61.2	49.7	48.6	38.0	40.1	30.8
750	Open	63.8	51.4	50.3	39.1	41.4	31.6
1000	Open	67.8	54.1	52.6	40.6	42.9	32.5
1250	Open	69.8	55.3	53.9	41.4	43.7	33.0
1500	Open	71.6	56.5	55.0	42.1	44.5	33.5
1750	Open	73.6	57.7	56.2	42.8	45.3	34.1
2000	Open	74.6	58.4	56.9	43.2	45.7	34.3
2250	Open	75.8	59.1	57.5	43.7	46.2	34.6
65°C - Copper Conductor - Hollow Core Segmental Strand							
2000	Open	74.6	58.4	56.8	43.2	45.7	34.2
2250	Open	75.8	59.2	57.5	43.7	46.2	34.6
2500	Open	76.8	59.9	58.1	44.1	46.6	34.9
2750	Open	78.0	60.6	58.9	44.5	47.1	35.2
3000	Open	78.9	61.2	59.5	44.9	47.4	35.5

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Direct Buried - 2 Circuits - Six Cables - Spaced

25°C Earth Ambient

Condr Size	Sheath Res	60 Rho 75 LF	60 Rho 100 LF	90 Rho 75 LF	90 Rho 100 LF	120 Rho 75 LF	120 Rho 100 LF
		Total Watts/ft					
50°C - Copper Conductor - Hollow Core Concentric Strand							
350	Open	37.4	30.6	29.6	23.5	24.4	19.1
500	Open	38.2	31.3	30.2	23.9	24.8	19.4
750	Open	39.8	32.4	31.2	24.6	25.5	19.9
1000	Open	42.2	34.1	32.5	25.6	26.4	20.5
1250	Open	43.4	34.9	33.3	26.1	26.8	20.8
1500	Open	44.6	35.6	34.0	26.5	27.3	21.1
1750	Open	45.7	36.4	34.6	26.9	27.7	21.4
2000	Open	46.4	36.8	35.0	27.2	27.9	21.6
2250	Open	47.0	37.3	35.4	27.6	28.2	21.8
50°C - Copper Conductor - Hollow Core Segmental Strand							
2000	Open	46.3	36.8	35.0	27.2	27.9	21.6
2250	Open	47.0	37.3	35.4	27.5	28.2	21.8
2500	Open	47.6	37.7	35.7	27.7	28.4	22.0
2750	Open	48.3	38.2	36.2	28.1	28.7	22.2
3000	Open	48.9	38.5	36.5	28.2	28.9	22.3

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115 kV 1/c Self Contained Liquid Filled Lead Sheathed Power Cable

Direct Buried - 2 Circuits - Six Cables - Spaced

25°C Earth Ambient

Condr Size	Sheath Res	OD	Wd	Rac	Qs	Ri	Rj	Re @ 90 Rho & loss factor 75%	100%
			85°C - Copper Conductor - Hollow Core Concentric Strand						
350	Open	2.360	0.56	37.94	1.001	1.78	0.21	3.02	4.52
500	Open	2.508	0.60	26.60	1.001	1.66	0.24	3.00	4.49
750	Open	2.651	0.65	17.78	1.002	1.52	0.23	2.97	4.46
1000	Open	2.683	0.77	13.41	1.003	1.30	0.22	2.96	4.46
1250	Open	2.800	0.82	10.83	1.004	1.22	0.21	2.94	4.44
1500	Open	2.918	0.87	9.14	1.005	1.15	0.21	2.92	4.42
1750	Open	3.045	0.92	7.97	1.007	1.09	0.20	2.90	4.40
2000	Open	3.116	0.95	7.11	1.009	1.05	0.19	2.89	4.39
2250	Open	3.266	1.00	6.46	1.011	1.00	0.21	2.87	4.36
			85°C - Copper Conductor - Hollow Core Segmental Strand						
2000	Open	3.113	0.95	6.90	1.009	1.05	0.19	2.89	4.39
2250	Open	3.266	1.00	6.25	1.011	1.00	0.21	2.87	4.36
2500	Open	3.335	1.03	5.69	1.019	0.97	0.20	2.85	4.35
2750	Open	3.440	1.07	5.23	1.023	0.93	0.20	2.83	4.34
3000	Open	3.511	1.10	4.89	1.027	0.91	0.19	2.82	4.31

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115 kV 1/c Self Contained Liquid Filled Lead Sheathed Power Cable

Direct Buried - 2 Circuits - Six Cables - Spaced

25°C Earth Ambient

Condr Size	Sheath Res	OD	Wd	Rac	Qs	Ri	Rj	Re @ 90 Rho & loss factor 75%	100%
			75°C - Copper Conductor - Hollow Core Concentric Strand						
350	Open	2.360	0.56	37.94	1.001	1.78	0.21	3.02	4.52
500	Open	2.508	0.60	26.60	1.001	1.66	0.24	3.00	4.49
750	Open	2.651	0.65	17.78	1.002	1.52	0.23	2.97	4.46
1000	Open	2.683	0.77	13.41	1.003	1.30	0.22	2.96	4.46
1250	Open	2.800	0.82	10.83	1.004	1.22	0.21	2.94	4.44
1500	Open	2.918	0.87	9.14	1.005	1.15	0.21	2.92	4.42
1750	Open	3.045	0.92	7.97	1.007	1.09	0.20	2.90	4.40
2000	Open	3.116	0.95	7.11	1.009	1.05	0.19	2.89	4.39
2250	Open	3.266	1.00	6.46	1.011	1.00	0.21	2.87	4.36
			75°C - Copper Conductor - Hollow Core Segmental Strand						
2000	Open	3.113	0.95	6.90	1.009	1.05	0.19	2.89	4.39
2250	Open	3.266	1.00	6.25	1.011	1.00	0.21	2.87	4.36
2500	Open	3.335	1.03	5.69	1.019	0.97	0.20	2.85	4.35
2750	Open	3.440	1.07	5.23	1.023	0.93	0.20	2.83	4.34
3000	Open	3.511	1.10	4.89	1.027	0.91	0.19	2.82	4.31

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115 kV 1/c Self Contained Liquid Filled Lead Sheathed Power Cable

Direct Buried - 2 Circuits - Six Cables - Spaced

25°C Earth Ambient

Condr Size	Sheath Res	OD	Wd	Rac	Qs	Ri	Rj	Re @ 90 Rho & loss factor 75%	Re @ 90 Rho & loss factor 100%
				65°C - Copper Conductor - Hollow Core Concentric Strand					
350	Open	2.360	0.56	37.94	1.001	1.78	0.21	3.02	4.52
500	Open	2.508	0.60	26.60	1.001	1.66	0.24	3.00	4.49
750	Open	2.651	0.65	17.78	1.002	1.52	0.23	2.97	4.46
1000	Open	2.683	0.77	13.41	1.003	1.30	0.22	2.96	4.46
1250	Open	2.800	0.82	10.83	1.004	1.22	0.21	2.94	4.44
1500	Open	2.918	0.87	9.14	1.005	1.15	0.21	2.92	4.42
1750	Open	3.045	0.92	7.97	1.007	1.09	0.20	2.90	4.40
2000	Open	3.116	0.95	7.11	1.009	1.05	0.19	2.89	4.39
2250	Open	3.266	1.00	6.46	1.011	1.00	0.21	2.87	4.36
				65°C - Copper Conductor - Hollow Core Segmental Strand					
2000	Open	3.113	0.95	6.90	1.009	1.05	0.19	2.89	4.39
2250	Open	3.266	1.00	6.25	1.011	1.00	0.21	2.87	4.36
2500	Open	3.335	1.03	5.69	1.019	0.97	0.20	2.85	4.35
2750	Open	3.440	1.07	5.23	1.023	0.93	0.20	2.83	4.34
3000	Open	3.511	1.10	4.89	1.027	0.91	0.19	2.82	4.31

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115 kV 1/c Self Contained Liquid Filled Lead Sheathed Power Cable

Direct Buried - 2 Circuits - Six Cables - Spaced

25°C Earth Ambient

Condr Size	Sheath Res	OD	Wd	Rac	Qs	Ri	Rj	Re @ 90 Rho & loss factor 75%	100%
			50°C - Copper Conductor - Hollow Core Concentric Strand						
350	Open	2.360	0.56	37.94	1.001	1.78	0.21	3.02	4.52
500	Open	2.508	0.60	26.60	1.001	1.66	0.24	3.00	4.49
750	Open	2.651	0.65	17.78	1.002	1.52	0.23	2.97	4.46
1000	Open	2.683	0.77	13.41	1.003	1.30	0.22	2.96	4.46
1250	Open	2.800	0.82	10.83	1.004	1.22	0.21	2.94	4.44
1500	Open	2.918	0.87	9.14	1.005	1.15	0.21	2.92	4.42
1750	Open	3.045	0.92	7.97	1.007	1.09	0.20	2.90	4.40
2000	Open	3.116	0.95	7.11	1.009	1.05	0.19	2.89	4.39
2250	Open	3.266	1.00	6.46	1.011	1.00	0.21	2.87	4.36
			50°C - Copper Conductor - Hollow Core Segmental Strand						
2000	Open	3.113	0.95	6.90	1.009	1.05	0.19	2.89	4.39
2250	Open	3.266	1.00	6.25	1.011	1.00	0.21	2.87	4.36
2500	Open	3.335	1.03	5.69	1.019	0.97	0.20	2.85	4.35
2750	Open	3.440	1.07	5.23	1.023	0.93	0.20	2.83	4.34
3000	Open	3.511	1.10	4.89	1.027	0.91	0.19	2.82	4.31

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115 kV 1/c Self Contained Liquid Filled Lead Sheathed Power Cable

Isolated Cable in Non-Metallic Conduit in Air

40°C Air Ambient

Condr Size	Sheath Res	No Sun 0 Ft/s	No Sun 2 Ft/s	Full Sun 0 Ft/s	Full Sun 2 Ft/s	delta Td for .0033 pf No Sun 0 Ft/s	delta Td for .0033 pf No Sun 2 Ft/s
85°C - Copper Conductor - Hollow Core Concentric Strand							
350	Open	460	473	299	351	2.5	2.3
500	Open	559	576	364	427	2.6	2.4
750	Open	700	723	455	535	2.7	2.5
1000	Open	825	853	534	630	3.0	2.8
1250	Open	935	967	604	714	3.1	2.9
1500	Open	1035	1071	668	790	3.2	3.0
1750	Open	1127	1168	727	861	3.3	3.1
2000	Open	1205	1250	777	920	3.4	3.1
2250	Open	1274	1322	820	973	3.5	3.2
85°C - Copper Conductor - Hollow Core Segmental Strand							
2000	Open	1219	1264	786	931	3.4	3.1
2250	Open	1298	1346	835	991	3.5	3.2
2500	Open	1407	1452	894	1049	3.3	3.1
2750	Open	1485	1534	943	1108	3.4	3.2
3000	Open	1548	1599	982	1155	3.4	3.2

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115 kV 1/c Self Contained Liquid Filled Lead Sheathed Power Cable

Isolated Cable in Non-Metallic Conduit in Air

40°C Air Ambient

Condr Size	Sheath Res	No Sun 0 Ft/s	No Sun 2 Ft/s	Full Sun 0 Ft/s	Full Sun 2 Ft/s
		Total Watts/ft			
85°C - Copper Conductor - Hollow Core Concentric Strand					
350	Open	25.8	27.2	11.9	15.7
500	Open	26.7	28.3	12.4	16.3
750	Open	28.1	29.8	13.0	17.2
1000	Open	29.7	31.5	13.8	18.3
1250	Open	30.8	32.8	14.3	19.0
1500	Open	31.9	33.9	14.8	19.7
1750	Open	33.0	35.2	15.3	20.4
2000	Open	33.6	35.9	15.6	20.8
2250	Open	34.5	36.9	16.0	21.3
85°C - Copper Conductor - Hollow Core Segmental Strand					
2000	Open	33.5	35.8	15.6	20.7
2250	Open	34.5	36.9	16.0	21.4
2500	Open	36.7	38.9	16.7	21.8
2750	Open	37.6	39.9	17.1	22.4
3000	Open	38.3	40.6	17.4	22.8

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115 kV 1/c Self Contained Liquid Filled Lead Sheathed Power Cable

Isolated Cable in Non-Metallic Conduit in Air

40°C Air Ambient

Condr Size	Sheath Res	OD	Duct ID	Wd	Rac	Qs	Ri	Rj	Rsd	Rd	Re No Sun 0 fps	Re No Sun 2 fps
					85°C - Copper Conductor - Hollow Core Concentric Strand							
350	Open	2.360	4.03	0.56	37.94	1.000	1.78	0.21	2.07	0.35	0.90	0.61
500	Open	2.508	4.03	0.60	26.58	1.000	1.66	0.24	1.96	0.35	0.90	0.61
750	Open	2.651	4.03	0.65	17.78	1.000	1.52	0.23	1.86	0.35	0.90	0.61
1000	Open	2.683	4.03	0.77	13.40	1.000	1.30	0.22	1.83	0.35	0.89	0.61
1250	Open	2.800	4.03	0.82	10.80	1.000	1.22	0.21	1.76	0.35	0.89	0.61
1500	Open	2.918	4.03	0.87	9.11	1.000	1.15	0.21	1.70	0.35	0.88	0.61
1750	Open	3.045	4.03	0.92	7.92	1.000	1.09	0.20	1.63	0.35	0.88	0.61
2000	Open	3.116	4.03	0.95	7.05	1.000	1.05	0.19	1.59	0.35	0.88	0.61
2250	Open	3.266	4.03	1.00	6.46	1.000	1.00	0.21	1.53	0.35	0.88	0.61
					85°C - Copper Conductor - Hollow Core Segmental Strand							
2000	Open	3.113	4.03	0.95	6.88	1.000	1.05	0.19	1.60	0.35	0.88	0.61
2250	Open	3.266	4.03	1.00	6.23	1.000	1.00	0.21	1.53	0.35	0.88	0.61
2500	Open	3.335	5.05	1.03	5.66	1.000	0.97	0.20	1.50	0.31	0.73	0.51
2750	Open	3.440	5.05	1.07	5.20	1.000	0.93	0.20	1.46	0.31	0.73	0.51
3000	Open	3.511	5.05	1.10	4.86	1.000	0.91	0.19	1.43	0.31	0.73	0.51

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115 kV 1/c Self Contained Liquid Filled Lead Sheathed Power Cable

Isolated Cable in Free Air

40°C Air Ambient

Condr Size	Sheath Res	No Sun 0 Ft/s	No Sun 2 Ft/s	Full Sun 0 Ft/s	Full Sun 2 Ft/s	delta Td for .0033 pf No Sun 0 Ft/s	delta Td for .0033 pf No Sun 2 Ft/s
85°C - Copper Conductor - Hollow Core Concentric Strand							
350	Open	579	625	402	490	1.4	1.2
500	Open	708	763	489	595	1.5	1.2
750	Open	896	965	617	750	1.5	1.2
1000	Open	1076	1162	740	902	1.6	1.4
1250	Open	1229	1328	843	1027	1.7	1.4
1500	Open	1370	1479	938	1141	1.7	1.4
1750	Open	1504	1623	1027	1248	1.7	1.4
2000	Open	1617	1744	1102	1338	1.7	1.4
2250	Open	1717	1849	1167	1413	1.8	1.5
85°C - Copper Conductor - Hollow Core Segmental Strand							
2000	Open	1635	1764	1115	1353	1.7	1.4
2250	Open	1749	1883	1188	1439	1.8	1.5
2500	Open	1856	1999	1260	1525	1.8	1.5
2750	Open	1970	2120	1334	1613	1.8	1.5
3000	Open	2061	2217	1394	1685	1.8	1.5

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115 kV 1/c Self Contained Liquid Filled Lead Sheathed Power Cable

Isolated Cable in Free Air

40°C Air Ambient

Condr Size	Sheath Res	No Sun 0 Ft/s	No Sun 2 Ft/s	Full Sun 0 Ft/s	Full Sun 2 Ft/s
		Total Watts/ft			
85°C - Copper Conductor - Hollow Core Concentric Strand					
350	Open	13.3	15.4	6.7	9.7
500	Open	13.9	16.1	7.0	10.0
750	Open	14.9	17.2	7.4	10.7
1000	Open	16.3	18.9	8.1	11.7
1250	Open	17.1	19.9	8.5	12.2
1500	Open	18.0	20.8	8.9	12.7
1750	Open	18.8	21.8	9.3	13.3
2000	Open	19.4	22.4	9.5	13.6
2250	Open	20.0	23.1	9.8	13.9
85°C - Copper Conductor - Hollow Core Segmental Strand					
2000	Open	19.3	22.4	9.5	13.5
2250	Open	20.1	23.1	9.8	13.9
2500	Open	20.5	23.7	10.0	14.2
2750	Open	21.3	24.4	10.3	14.6
3000	Open	21.8	25.0	10.6	14.9

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115 kV 1/c Self Contained Liquid Filled Lead Sheathed Power Cable

Isolated Cable in Free Air

40°C Air Ambient

Condr Size	Sheath Res	OD	Duct ID	Wd	Rac	Qs	Ri	Rj	Rsd	Rd	Re No Sun 0 fps	Re Sun 2 fps
					85°C - Copper Conductor - Hollow Core Concentric Strand							
350	Open	2.360	9.99	0.56	37.94	1.000	1.78	0.21	0.00	0.00	1.44	0.98
500	Open	2.508	9.99	0.60	26.58	1.000	1.66	0.24	0.00	0.00	1.37	0.93
750	Open	2.651	9.99	0.65	17.78	1.000	1.52	0.23	0.00	0.00	1.30	0.90
1000	Open	2.683	9.99	0.77	13.40	1.000	1.30	0.22	0.00	0.00	1.27	0.89
1250	Open	2.800	9.99	0.82	10.80	1.000	1.22	0.21	0.00	0.00	1.22	0.86
1500	Open	2.918	9.99	0.87	9.11	1.000	1.15	0.21	0.00	0.00	1.17	0.83
1750	Open	3.045	9.99	0.92	7.92	1.000	1.09	0.20	0.00	0.00	1.13	0.80
2000	Open	3.116	9.99	0.95	7.05	1.000	1.05	0.19	0.00	0.00	1.10	0.79
2250	Open	3.266	9.99	1.00	6.46	1.000	1.00	0.21	0.00	0.00	1.06	0.76
					85°C - Copper Conductor - Hollow Core Segmental Strand							
2000	Open	3.113	9.99	0.95	6.88	1.000	1.05	0.19	0.00	0.00	1.11	0.79
2250	Open	3.266	9.99	1.00	6.23	1.000	1.00	0.21	0.00	0.00	1.06	0.76
2500	Open	3.335	9.99	1.03	5.66	1.000	0.97	0.20	0.00	0.00	1.04	0.75
2750	Open	3.440	9.99	1.07	5.20	1.000	0.93	0.20	0.00	0.00	1.01	0.73
3000	Open	3.511	9.99	1.10	4.86	1.000	0.91	0.19	0.00	0.00	0.99	0.72

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115 kV 1/c Self Contained Liquid Filled Lead Sheathed Power Cable

Isolated Cable in Non-Metallic Unventilated Riser in Air

40°C Air Ambient

Condr Size	Sheath Res	No Sun 0 Ft/s	No Sun 2 Ft/s	Full Sun 0 Ft/s	Full Sun 2 Ft/s	delta Td for .0033 pf No Sun 0 Ft/s	delta Td for .0033 pf No Sun 2 Ft/s
		85°C - Copper Conductor - Hollow Core Concentric Strand					
350	Open	479	496	366	410	2.3	2.1
500	Open	583	604	445	499	2.3	2.2
750	Open	731	759	558	626	2.4	2.2
1000	Open	864	899	658	741	2.7	2.5
1250	Open	979	1020	746	840	2.8	2.6
1500	Open	1084	1130	825	931	2.9	2.7
1750	Open	1181	1232	898	1015	3.0	2.7
2000	Open	1263	1319	961	1086	3.0	2.8
2250	Open	1334	1394	1015	1148	3.1	2.8
		85°C - Copper Conductor - Hollow Core Segmental Strand					
2000	Open	1278	1334	972	1098	3.0	2.8
2250	Open	1359	1420	1033	1169	3.1	2.8
2500	Open	1484	1539	1128	1253	3.0	2.7
2750	Open	1566	1625	1190	1323	3.0	2.8
3000	Open	1633	1695	1241	1380	3.1	2.8

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115 kV 1/c Self Contained Liquid Filled Lead Sheathed Power Cable

Isolated Cable in Non-Metallic Unventilated Riser in Air

40°C Air Ambient

Condr Size	Sheath Res	No Sun 0 Ft/s	No Sun 2 Ft/s	Full Sun 0 Ft/s	Full Sun 2 Ft/s
		Total Watts/ft			
85°C - Copper Conductor - Hollow Core Concentric Strand					
350	Open	9.3	9.9	5.6	6.9
500	Open	9.6	10.3	5.9	7.2
750	Open	10.2	10.9	6.2	7.6
1000	Open	10.8	11.6	6.6	8.1
1250	Open	11.2	12.1	6.8	8.4
1500	Open	11.6	12.5	7.1	8.8
1750	Open	12.0	12.9	7.3	9.1
2000	Open	12.2	13.2	7.5	9.3
2250	Open	12.5	13.6	7.7	9.5
85°C - Copper Conductor - Hollow Core Segmental Strand					
2000	Open	12.2	13.2	7.5	9.2
2250	Open	12.5	13.6	7.7	9.5
2500	Open	13.5	14.4	8.2	9.9
2750	Open	13.8	14.8	8.4	10.2
3000	Open	14.1	15.1	8.6	10.4

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115 kV 1/c Self Contained Liquid Filled Lead Sheathed Power Cable

Isolated Cable in Non-Metallic Unventilated Riser in Air

40°C Air Ambient

Condr Size	Sheath Res	OD	Duct ID	Wd	Rac	Qs	Ri	Rj	Rsd	Rd	Re No Sun 0 fps	Re Sun 2 fps
					85°C - Copper Conductor - Hollow Core Concentric Strand							
350	Open	2.360	4.03	0.56	37.94	1.000	1.78	0.21	1.65	0.35	0.92	0.61
500	Open	2.508	4.03	0.60	26.58	1.000	1.66	0.24	1.56	0.35	0.92	0.61
750	Open	2.651	4.03	0.65	17.78	1.000	1.52	0.23	1.48	0.35	0.91	0.61
1000	Open	2.683	4.03	0.77	13.40	1.000	1.30	0.22	1.45	0.35	0.90	0.61
1250	Open	2.800	4.03	0.82	10.80	1.000	1.22	0.21	1.39	0.35	0.90	0.61
1500	Open	2.918	4.03	0.87	9.11	1.000	1.15	0.21	1.33	0.35	0.90	0.61
1750	Open	3.045	4.03	0.92	7.92	1.000	1.09	0.20	1.28	0.35	0.89	0.60
2000	Open	3.116	4.03	0.95	7.05	1.000	1.05	0.19	1.25	0.35	0.89	0.60
2250	Open	3.266	4.03	1.00	6.46	1.000	1.00	0.21	1.19	0.35	0.89	0.60
					85°C - Copper Conductor - Hollow Core Segmental Strand							
2000	Open	3.113	4.03	0.95	6.88	1.000	1.05	0.19	1.25	0.35	0.89	0.60
2250	Open	3.266	4.03	1.00	6.23	1.000	1.00	0.21	1.19	0.35	0.89	0.60
2500	Open	3.335	5.05	1.03	5.66	1.000	0.97	0.20	1.16	0.31	0.73	0.51
2750	Open	3.440	5.05	1.07	5.20	1.000	0.93	0.20	1.12	0.31	0.73	0.51
3000	Open	3.511	5.05	1.10	4.86	1.000	0.91	0.19	1.10	0.31	0.73	0.51

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115 kV 1/c Self Contained Liquid Filled Lead Sheathed Power Cable

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

25°C Earth Ambient

Condr Size	Sheath Res	60 Rho 75 LF	60 Rho 100 LF	90 Rho 75 LF	90 Rho 100 LF	120 Rho 75 LF	120 Rho 100 LF	delta Td for .0033 pf & Rho 60	90	120
		85°C - Aluminum Conductor - Hollow Core Concentric Strand								
350	Open	410	384	386	354	365	329	3.0	3.6	4.2
500	Open	498	466	467	428	441	397	3.1	3.8	4.4
750	Open	623	581	583	531	549	491	3.3	4.0	4.7
1000	Open	734	682	685	621	642	572	3.8	4.5	5.4
1250	Open	832	771	774	700	724	644	3.9	4.8	5.6
1500	Open	922	852	855	772	799	708	4.0	4.9	5.9
1750	Open	1006	928	930	838	867	767	4.2	5.2	6.1
2000	Open	1079	994	997	896	929	819	4.3	5.3	6.3
2250	Open	1146	1054	1056	948	982	865	4.4	5.5	6.5
		85°C - Aluminum Conductor - Hollow Core Segmental Strand								
2000	Open	1087	1002	1004	903	936	826	4.3	5.3	6.3
2250	Open	1158	1065	1067	958	992	874	4.4	5.5	6.5
2500	Open	1226	1127	1129	1012	1048	922	4.5	5.6	6.7
2750	Open	1295	1188	1190	1064	1103	969	4.6	5.8	6.9
3000	Open	1352	1238	1241	1108	1149	1007	4.7	5.9	7.0

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115 kV 1/c Self Contained Liquid Filled Lead Sheathed Power Cable

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

25°C Earth Ambient

Condr Size	Sheath Res	60 Rho 75 LF	60 Rho 100 LF	90 Rho 75 LF	90 Rho 100 LF	120 Rho 75 LF	120 Rho 100 LF
		Total Watts/ft					
85°C - Aluminum Conductor - Hollow Core Concentric Strand							
350	Open	33.2	29.4	29.6	25.2	26.7	22.0
500	Open	34.4	30.3	30.5	25.9	27.4	22.5
750	Open	36.0	31.6	31.8	26.7	28.4	23.1
1000	Open	37.8	33.0	33.2	27.7	29.5	23.9
1250	Open	39.1	33.9	34.2	28.4	30.2	24.4
1500	Open	40.4	34.8	35.1	29.1	31.0	24.9
1750	Open	41.6	35.8	35.9	29.7	31.6	25.3
2000	Open	42.2	36.3	36.5	30.0	32.1	25.5
2250	Open	43.2	37.0	37.1	30.5	32.5	25.9
85°C - Aluminum Conductor - Hollow Core Segmental Strand							
2000	Open	42.2	36.3	36.4	30.0	32.0	25.6
2250	Open	43.2	37.0	37.1	30.5	32.5	25.9
2500	Open	43.8	37.5	37.6	30.8	32.8	26.1
2750	Open	44.7	38.1	38.2	31.2	33.3	26.4
3000	Open	45.3	38.5	38.7	31.5	33.6	26.6

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115 kV 1/c Self Contained Liquid Filled Lead Sheathed Power Cable

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

25°C Earth Ambient

Condr Size	Sheath Res	OD	Duct ID	Wd	Rac	Qs	Ri	Rj	Rsd	Rd	Re @ 90 Rho & loss factor 75%	100%
					85°C - Aluminum Conductor - Hollow Core Concentric Strand							
350	Open	2.360	5.06	0.56	62.55	1.000	1.78	0.21	1.73	0.24	2.11	3.30
500	Open	2.508	5.06	0.60	43.77	1.000	1.66	0.24	1.63	0.24	2.11	3.30
750	Open	2.651	5.06	0.65	29.22	1.001	1.52	0.23	1.54	0.24	2.11	3.30
1000	Open	2.683	5.06	0.77	21.96	1.001	1.30	0.22	1.51	0.24	2.11	3.30
1250	Open	2.800	5.06	0.82	17.62	1.002	1.22	0.21	1.45	0.24	2.11	3.30
1500	Open	2.918	5.06	0.87	14.76	1.002	1.15	0.21	1.39	0.24	2.11	3.30
1750	Open	3.045	5.06	0.92	12.73	1.003	1.09	0.20	1.34	0.24	2.11	3.30
2000	Open	3.116	5.06	0.95	11.22	1.004	1.05	0.19	1.31	0.24	2.11	3.30
2250	Open	3.266	5.06	1.00	10.14	1.005	1.00	0.21	1.25	0.24	2.11	3.30
					85°C - Aluminum Conductor - Hollow Core Segmental Strand							
2000	Open	3.113	5.06	0.95	11.05	1.004	1.05	0.19	1.31	0.24	2.11	3.30
2250	Open	3.266	5.06	1.00	9.93	1.005	1.00	0.21	1.25	0.24	2.11	3.30
2500	Open	3.335	5.06	1.03	8.96	1.006	0.97	0.20	1.22	0.24	2.11	3.30
2750	Open	3.440	5.06	1.07	8.17	1.008	0.93	0.20	1.18	0.24	2.11	3.30
3000	Open	3.511	5.06	1.10	7.58	1.009	0.91	0.19	1.16	0.24	2.11	3.30

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115 kV 1/c Self Contained Liquid Filled Lead Sheathed Power Cable

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

25°C Earth Ambient

Condr Size	Sheath Res	60 Rho 75 LF	60 Rho 100 LF	90 Rho 75 LF	90 Rho 100 LF	120 Rho 75 LF	120 Rho 100 LF	delta Td for .0033 pf & Rho 60	delta Td for .0033 pf & Rho 90	delta Td for .0033 pf & Rho 120
85°C - Aluminum Conductor - Hollow Core Concentric Strand										
350	Open	369	333	333	293	304	263	4.0	5.3	6.5
500	Open	446	402	401	352	366	315	4.3	5.5	6.8
750	Open	555	499	497	435	452	388	4.5	5.9	7.3
1000	Open	650	581	578	503	523	447	5.2	6.8	8.5
1250	Open	733	654	650	564	586	500	5.4	7.2	9.0
1500	Open	809	720	714	619	643	547	5.7	7.5	9.4
1750	Open	879	780	774	668	694	589	5.9	7.9	9.9
2000	Open	941	833	826	713	740	627	6.1	8.1	10.2
2250	Open	996	880	872	751	779	659	6.3	8.5	10.6
85°C - Aluminum Conductor - Hollow Core Segmental Strand										
2000	Open	948	840	833	719	746	632	6.1	8.1	10.2
2250	Open	1006	889	881	759	787	666	6.3	8.5	10.6
2500	Open	1063	938	929	799	828	700	6.4	8.7	10.9
2750	Open	1119	986	976	838	868	733	6.6	9.0	11.3
3000	Open	1166	1026	1014	870	900	760	6.8	9.2	11.6

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115 kV 1/c Self Contained Liquid Filled Lead Sheathed Power Cable in Underground Duct Bank - 2 Circuits - Six Cables - 12 in Spacing

25°C Earth Ambient

Condr Size	Sheath Res	60 Rho 75 LF	60 Rho 100 LF	90 Rho 75 LF	90 Rho 100 LF	120 Rho 75 LF	120 Rho 100 LF
		Total Watts/ft					
85°C - Aluminum Conductor - Hollow Core Concentric Strand							
350	Open	54.5	45.0	45.0	35.6	38.1	29.3
500	Open	55.9	46.1	45.9	36.2	38.8	29.7
750	Open	58.0	47.6	47.3	37.1	39.8	30.3
1000	Open	60.3	49.1	48.7	38.0	40.7	31.0
1250	Open	61.8	50.2	49.7	38.6	41.3	31.4
1500	Open	63.3	51.3	50.5	39.2	41.9	31.8
1750	Open	64.8	52.2	51.5	39.7	42.4	32.1
2000	Open	65.6	52.7	51.9	40.1	42.8	32.3
2250	Open	66.7	53.4	52.5	40.5	43.1	32.6
85°C - Aluminum Conductor - Hollow Core Segmental Strand							
2000	Open	65.5	52.7	51.9	40.1	42.8	32.3
2250	Open	66.7	53.4	52.5	40.5	43.1	32.6
2500	Open	67.4	53.8	52.9	40.7	43.3	32.7
2750	Open	68.4	54.5	53.6	41.2	43.7	33.0
3000	Open	69.1	55.0	53.9	41.4	43.9	33.2

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115 kV 1/c Self Contained Liquid Filled Lead Sheathed Power Cable

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

25°C Earth Ambient

Condr Size	Sheath Res	OD	Duct ID	Wd	Rac	Qs	Ri	Rj	Rsd	Rd	Re @ 90 Rho & loss factor 75%	100%
					85°C - Aluminum Conductor - Hollow Core Concentric Strand							
350	Open	2.360	5.06	0.56	62.55	1.000	1.78	0.21	1.67	0.24	4.00	6.34
500	Open	2.508	5.06	0.60	43.77	1.000	1.66	0.24	1.58	0.24	4.00	6.34
750	Open	2.651	5.06	0.65	29.22	1.001	1.52	0.23	1.49	0.24	4.00	6.34
1000	Open	2.683	5.06	0.77	21.96	1.001	1.30	0.22	1.46	0.24	4.00	6.34
1250	Open	2.800	5.06	0.82	17.62	1.002	1.22	0.21	1.40	0.24	4.00	6.34
1500	Open	2.918	5.06	0.87	14.76	1.003	1.15	0.21	1.35	0.24	4.00	6.34
1750	Open	3.045	5.06	0.92	12.73	1.003	1.09	0.20	1.29	0.24	4.00	6.34
2000	Open	3.116	5.06	0.95	11.22	1.004	1.05	0.19	1.26	0.24	4.00	6.34
2250	Open	3.266	5.06	1.00	10.14	1.006	1.00	0.21	1.20	0.24	4.00	6.34
					85°C - Aluminum Conductor - Hollow Core Segmental Strand							
2000	Open	3.113	5.06	0.95	11.05	1.004	1.05	0.19	1.26	0.24	4.00	6.34
2250	Open	3.266	5.06	1.00	9.93	1.006	1.00	0.21	1.20	0.24	4.00	6.34
2500	Open	3.335	5.06	1.03	8.96	1.007	0.97	0.20	1.18	0.24	4.00	6.34
2750	Open	3.440	5.06	1.07	8.17	1.008	0.93	0.20	1.14	0.24	4.00	6.34
3000	Open	3.511	5.06	1.10	7.58	1.010	0.91	0.19	1.12	0.24	4.00	6.34

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115 kV 1/c Self Contained Liquid Filled Lead Sheathed Power Cable

Direct Buried - 1 Circuit - Three Cables - Spaced

25°C Earth Ambient

Condr Size	Sheath Res	60 Rho Amps	60 Rho Interface Temp °C	60 Rho Flux w/ft²	90 Rho Amps	90 Rho Interface Temp °C	90 Rho Flux w/ft²	120 Rho Amps	120 Rho Interface Temp °C	120 Rho Flux w/ft²	delta Td for .0033 pf & Rho 60	90	120
						75% LF							
						85°C - Aluminum Conductor - Hollow Core Concentric Strand							
350	Open	504	54	26.7	454	60	21.7	415	64	18.5	2.0	2.7	3.3
500	Open	610	54	25.7	548	60	21.0	501	64	17.7	2.1	2.8	3.5
750	Open	764	55	25.6	684	61	20.6	623	65	17.3	2.2	3.0	3.8
1000	Open	910	57	27.0	808	63	21.6	733	67	17.9	2.5	3.4	4.3
1250	Open	1032	58	26.9	913	64	21.3	826	68	17.6	2.6	3.6	4.6
1500	Open	1144	59	26.6	1009	65	20.9	911	68	17.3	2.7	3.7	4.8
1750	Open	1248	60	26.2	1098	65	20.6	989	69	16.9	2.8	3.9	5.0
2000	Open	1339	60	26.1	1177	66	20.3	1059	69	16.8	2.9	4.0	5.1
2250	Open	1419	60	25.4	1245	66	19.8	1119	70	16.3	3.0	4.2	5.3
						85°C - Aluminum Conductor - Hollow Core Segmental Strand							
2000	Open	1349	60	26.1	1186	66	20.4	1067	69	16.8	2.9	4.0	5.1
2250	Open	1433	60	25.4	1257	66	19.8	1130	70	16.3	3.0	4.2	5.3
2500	Open	1518	61	25.2	1330	66	19.6	1194	70	16.0	3.1	4.3	5.5
2750	Open	1603	61	25.0	1402	67	19.3	1257	70	15.8	3.2	4.4	5.6
3000	Open	1673	62	24.8	1461	67	19.3	1309	71	15.7	3.2	4.5	5.8

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115 kV 1/c Self Contained Liquid Filled Lead Sheathed Power Cable

Direct Buried - 1 Circuit - Three Cables - Spaced

25°C Earth Ambient

Condr Size	Sheath Res	60 Rho Amps	60 Rho Interface Temp °C	60 Rho Flux w/ft²	90 Rho Amps	90 Rho Interface Temp °C	90 Rho Flux w/ft²	120 Rho Amps	120 Rho Interface Temp °C	120 Rho Flux w/ft²	delta Td for .0033 pf & Rho 60	90	120
						100% LF							
						85°C - Aluminum Conductor - Hollow Core Concentric Strand							
350	Open	459	59	22.2	404	65	17.5	364	69	14.4	2.0	2.7	3.3
500	Open	555	59	21.5	487	65	16.8	439	69	13.7	2.1	2.8	3.5
750	Open	691	61	21.2	605	66	16.4	543	70	13.4	2.2	3.0	3.8
1000	Open	818	63	22.1	710	68	16.9	635	72	13.7	2.5	3.4	4.3
1250	Open	925	63	21.8	800	69	16.6	713	72	13.4	2.6	3.6	4.6
1500	Open	1021	64	21.3	882	69	16.2	784	73	13.1	2.7	3.7	4.8
1750	Open	1111	65	21.1	957	70	15.9	849	73	12.8	2.8	3.9	5.0
2000	Open	1190	65	20.8	1023	70	15.7	907	74	12.6	2.9	4.0	5.1
2250	Open	1258	66	20.2	1080	71	15.2	957	74	12.2	3.0	4.2	5.3
						85°C - Aluminum Conductor - Hollow Core Segmental Strand							
2000	Open	1199	65	20.9	1031	70	15.7	915	74	12.6	2.9	4.0	5.1
2250	Open	1271	66	20.2	1091	71	15.2	967	74	12.2	3.0	4.2	5.3
2500	Open	1344	66	20.0	1152	71	15.0	1020	74	12.0	3.1	4.3	5.5
2750	Open	1416	66	19.8	1212	71	14.8	1071	74	11.8	3.2	4.4	5.6
3000	Open	1476	67	19.6	1261	72	14.6	1114	75	11.6	3.2	4.5	5.8

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115 kV 1/c Self Contained Liquid Filled Lead Sheathed Power Cable

Direct Buried - 1 Circuit - Three Cables - Spaced

25°C Earth Ambient

Condr Size	Sheath Res	60 Rho Interface Temp	60 Rho Flux	60 Rho Amps	90 Rho Interface Temp	90 Rho Flux	90 Rho Amps	120 Rho Interface Temp	120 Rho Flux	120 Rho Amps	delta Td for .0033 pf & Rho 60	90	120
		°C	w/ft²	Amps	°C	w/ft²	Amps	°C	w/ft²	Amps			
					75% LF								
75°C - Aluminum Conductor - Hollow Core Concentric Strand													
350	Open	466	49	22.2	419	54	18.1	383	57	15.2	2.0	2.7	3.3
500	Open	564	49	21.5	506	54	17.5	462	58	14.8	2.1	2.8	3.5
750	Open	706	50	21.3	631	55	17.1	574	59	14.4	2.2	3.0	3.8
1000	Open	841	52	22.6	745	57	17.9	674	60	14.9	2.5	3.4	4.3
1250	Open	953	53	22.4	842	58	17.7	760	61	14.6	2.6	3.6	4.6
1500	Open	1055	53	22.1	930	58	17.4	838	61	14.4	2.7	3.7	4.8
1750	Open	1151	54	21.8	1011	59	17.1	909	62	14.0	2.8	3.9	5.0
2000	Open	1235	54	21.7	1083	59	16.9	972	62	13.9	2.9	4.0	5.1
2250	Open	1308	55	21.1	1145	59	16.5	1027	62	13.4	3.0	4.2	5.3
75°C - Aluminum Conductor - Hollow Core Segmental Strand													
2000	Open	1245	54	21.7	1092	59	16.9	980	62	13.9	2.9	4.0	5.1
2250	Open	1322	55	21.1	1157	59	16.5	1038	62	13.4	3.0	4.2	5.3
2500	Open	1400	55	21.0	1224	60	16.4	1096	63	13.3	3.1	4.3	5.5
2750	Open	1478	55	20.8	1289	60	16.1	1153	63	13.1	3.2	4.4	5.6
3000	Open	1542	56	20.7	1343	60	16.0	1200	63	13.1	3.2	4.5	5.8

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115 kV 1/c Self Contained Liquid Filled Lead Sheathed Power Cable

Direct Buried - 1 Circuit - Three Cables - Spaced

25°C Earth Ambient

Condr Size	Sheath Res	60 Rho Interface Temp	60 Rho Flux	60 Rho Amps	90 Rho Interface Temp	90 Rho Flux	90 Rho Amps	120 Rho Interface Temp	120 Rho Flux	120 Rho Amps	delta Td for .0033 pf & Rho 60	90	120
		°C	w/ft²		°C	w/ft²		°C	w/ft²				
					100% LF								
		75°C - Aluminum Conductor - Hollow Core Concentric Strand											
350	Open	53	18.6	424	58	14.6	373	61	12.0	336	2.0	2.7	3.3
500	Open	54	18.0	513	59	14.0	450	62	11.4	404	2.1	2.8	3.5
750	Open	55	17.6	639	60	13.7	558	63	11.2	500	2.2	3.0	3.8
1000	Open	57	18.5	756	61	14.1	655	64	11.4	584	2.5	3.4	4.3
1250	Open	57	18.1	854	62	13.9	738	65	11.2	656	2.6	3.6	4.6
1500	Open	58	17.9	943	62	13.6	812	65	10.9	721	2.7	3.7	4.8
1750	Open	58	17.6	1025	63	13.3	881	65	10.7	780	2.8	3.9	5.0
2000	Open	59	17.4	1097	63	13.1	942	66	10.5	833	2.9	4.0	5.1
2250	Open	59	16.8	1160	63	12.6	993	66	10.2	878	3.0	4.2	5.3
		75°C - Aluminum Conductor - Hollow Core Segmental Strand											
2000	Open	59	17.4	1106	63	13.1	949	66	10.6	840	2.9	4.0	5.1
2250	Open	59	16.8	1172	63	12.6	1004	66	10.2	888	3.0	4.2	5.3
2500	Open	59	16.7	1239	64	12.6	1060	66	10.1	936	3.1	4.3	5.5
2750	Open	60	16.5	1306	64	12.3	1114	66	9.9	983	3.2	4.4	5.6
3000	Open	60	16.3	1360	64	12.2	1159	67	9.8	1021	3.2	4.5	5.8

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115 kV 1/c Self Contained Liquid Filled Lead Sheathed Power Cable

Direct Buried - 1 Circuit - Three Cables - Spaced

25°C Earth Ambient

Condr Size	Sheath Res	60 Rho Amps	60 Rho Interface Temp °C	60 Rho Flux w/ft²	90 Rho Amps	90 Rho Interface Temp °C	90 Rho Flux w/ft²	120 Rho Amps	120 Rho Interface Temp °C	120 Rho Flux w/ft²	delta Td for .0033 pf & Rho 60	90	120
						75% LF							
						65°C - Aluminum Conductor - Hollow Core Concentric Strand							
350	Open	422	44	17.8	378	48	14.4	345	51	12.1	2.0	2.7	3.3
500	Open	510	45	17.2	457	49	14.0	416	52	11.7	2.1	2.8	3.5
750	Open	639	46	17.0	569	50	13.7	517	52	11.5	2.2	3.0	3.8
1000	Open	760	47	18.1	671	51	14.4	606	54	11.8	2.5	3.4	4.3
1250	Open	861	47	17.9	758	51	14.2	682	54	11.6	2.6	3.6	4.6
1500	Open	953	48	17.7	837	52	13.9	751	54	11.4	2.7	3.7	4.8
1750	Open	1038	48	17.4	909	52	13.7	815	55	11.2	2.8	3.9	5.0
2000	Open	1113	49	17.4	973	53	13.5	871	55	11.0	2.9	4.0	5.1
2250	Open	1178	49	16.8	1028	53	13.1	919	55	10.8	3.0	4.2	5.3
						65°C - Aluminum Conductor - Hollow Core Segmental Strand							
2000	Open	1123	49	17.4	982	53	13.5	878	55	11.0	2.9	4.0	5.1
2250	Open	1192	49	16.8	1040	53	13.1	929	55	10.8	3.0	4.2	5.3
2500	Open	1262	49	16.8	1099	53	13.1	981	56	10.7	3.1	4.3	5.5
2750	Open	1331	50	16.7	1157	53	12.9	1031	56	10.4	3.2	4.4	5.6
3000	Open	1389	50	16.5	1205	54	12.7	1073	56	10.3	3.2	4.5	5.8

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115 kV 1/c Self Contained Liquid Filled Lead Sheathed Power Cable

Direct Buried - 1 Circuit - Three Cables - Spaced

25°C Earth Ambient

Condr Size	Sheath Res	60 Rho Interface Amps	60 Rho Interface Temp °C	60 Rho Flux w/ft²	90 Rho Interface Amps	90 Rho Interface Temp °C	90 Rho Flux w/ft²	120 Rho Interface Amps	120 Rho Interface Temp °C	120 Rho Flux w/ft²	delta Td for .0033 pf & Rho 60	90	120
						100% LF							
						65°C - Aluminum Conductor - Hollow Core Concentric Strand							
350	Open	384	48	14.9	337	52	11.7	303	54	9.5	2.0	2.7	3.3
500	Open	464	48	14.3	406	52	11.3	364	55	9.1	2.1	2.8	3.5
750	Open	578	49	14.1	504	53	11.0	451	55	8.9	2.2	3.0	3.8
1000	Open	683	50	14.8	590	54	11.4	525	56	9.3	2.5	3.4	4.3
1250	Open	771	51	14.6	664	55	11.0	589	57	9.0	2.6	3.6	4.6
1500	Open	851	51	14.3	731	55	10.9	647	57	8.8	2.7	3.7	4.8
1750	Open	925	52	14.0	792	55	10.7	699	58	8.5	2.8	3.9	5.0
2000	Open	990	52	14.0	846	56	10.5	746	58	8.5	2.9	4.0	5.1
2250	Open	1045	52	13.6	892	56	10.2	786	58	8.2	3.0	4.2	5.3
						65°C - Aluminum Conductor - Hollow Core Segmental Strand							
2000	Open	998	52	14.0	854	56	10.6	753	58	8.5	2.9	4.0	5.1
2250	Open	1057	52	13.6	903	56	10.2	795	58	8.2	3.0	4.2	5.3
2500	Open	1117	53	13.4	952	56	10.1	838	58	8.0	3.1	4.3	5.5
2750	Open	1176	53	13.2	1001	56	9.9	879	58	7.9	3.2	4.4	5.6
3000	Open	1225	53	13.2	1041	57	9.8	913	58	7.8	3.2	4.5	5.8

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Direct Buried - 1 Circuit - Three Cables - Spaced

25°C Earth Ambient

Condr Size	Sheath Res	60 Rho Interface Temp	60 Rho Flux	60 Rho Amps	90 Rho Interface Temp	90 Rho Flux	90 Rho Amps	120 Rho Interface Temp	120 Rho Flux	120 Rho Amps	delta Td for .0033 pf & Rho 60	90	120
		°C	w/ft²	Amps	°C	w/ft²	Amps	°C	w/ft²	Amps			
					75% LF								
50°C - Aluminum Conductor - Hollow Core Concentric Strand													
350	Open	38	11.2	337	40	9.1	300	42	7.6	272	2.0	2.7	3.3
500	Open	38	10.8	407	40	8.7	362	42	7.3	328	2.1	2.8	3.5
750	Open	38	10.7	509	41	8.5	451	43	7.2	406	2.2	3.0	3.8
1000	Open	39	11.2	604	42	9.0	529	43	7.4	473	2.5	3.4	4.3
1250	Open	40	11.2	683	42	8.7	596	44	7.2	532	2.6	3.6	4.6
1500	Open	40	11.0	755	42	8.6	657	44	7.1	584	2.7	3.7	4.8
1750	Open	40	10.9	822	43	8.4	713	44	6.9	632	2.8	3.9	5.0
2000	Open	40	10.8	881	43	8.3	762	44	6.9	674	2.9	4.0	5.1
2250	Open	41	10.5	930	43	8.1	803	45	6.5	709	3.0	4.2	5.3
50°C - Aluminum Conductor - Hollow Core Segmental Strand													
2000	Open	40	10.8	889	43	8.3	769	44	6.9	680	2.9	4.0	5.1
2250	Open	41	10.5	942	43	8.1	813	45	6.5	718	3.0	4.2	5.3
2500	Open	41	10.4	997	43	8.0	858	45	6.5	756	3.1	4.3	5.5
2750	Open	41	10.3	1051	43	8.0	902	45	6.4	793	3.2	4.4	5.6
3000	Open	41	10.3	1095	43	7.8	938	45	6.3	824	3.2	4.5	5.8

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Direct Buried - 1 Circuit - Three Cables - Spaced

25°C Earth Ambient

Condr Size	Sheath Res	60 Rho Interface Amps	60 Rho Interface °C	60 Rho Interface w/ft²	90 Rho Interface Amps	90 Rho Interface °C	90 Rho Interface w/ft²	120 Rho Interface Amps	120 Rho Interface °C	120 Rho Interface w/ft²	delta Td for .0033 pf & Rho 60	90	120
						100% LF							
						50°C - Aluminum Conductor - Hollow Core Concentric Strand							
350	Open	307	40	9.4	268	42	7.3	239	44	6.0	2.0	2.7	3.3
500	Open	370	40	9.0	322	42	7.0	287	44	5.8	2.1	2.8	3.5
750	Open	461	40	8.9	399	43	6.9	354	44	5.6	2.2	3.0	3.8
1000	Open	543	41	9.3	465	44	7.1	410	45	5.8	2.5	3.4	4.3
1250	Open	612	42	9.1	523	44	7.0	459	45	5.6	2.6	3.6	4.6
1500	Open	675	42	9.0	574	44	6.8	503	46	5.5	2.7	3.7	4.8
1750	Open	732	42	8.9	621	44	6.6	542	46	5.4	2.8	3.9	5.0
2000	Open	783	42	8.8	662	45	6.6	577	46	5.3	2.9	4.0	5.1
2250	Open	825	43	8.5	697	45	6.4	606	46	5.1	3.0	4.2	5.3
						50°C - Aluminum Conductor - Hollow Core Segmental Strand							
2000	Open	790	42	8.8	669	45	6.6	583	46	5.3	2.9	4.0	5.1
2250	Open	836	43	8.5	706	45	6.4	614	46	5.1	3.0	4.2	5.3
2500	Open	883	43	8.5	744	45	6.3	646	46	5.0	3.1	4.3	5.5
2750	Open	928	43	8.3	780	45	6.2	676	46	5.0	3.2	4.4	5.6
3000	Open	966	43	8.3	810	45	6.2	701	46	4.9	3.2	4.5	5.8

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Direct Buried - 1 Circuit - Three Cables - Spaced

25°C Earth Ambient

Condr Size	Sheath Res	60 Rho 75 LF	60 Rho 100 LF	90 Rho 75 LF	90 Rho 100 LF	120 Rho 75 LF	120 Rho 100 LF
		Total Watts/ft					
85°C - Aluminum Conductor - Hollow Core Concentric Strand							
350	Open	49.4	41.2	40.4	32.3	34.0	26.6
500	Open	50.7	42.3	41.3	33.0	34.8	27.1
750	Open	53.2	43.9	43.0	34.1	36.0	27.8
1000	Open	56.9	46.4	45.4	35.5	37.7	28.9
1250	Open	58.9	47.8	46.6	36.4	38.6	29.4
1500	Open	60.7	48.9	47.8	37.2	39.5	29.9
1750	Open	62.5	50.1	49.0	37.9	40.3	30.4
2000	Open	63.5	50.8	49.7	38.3	40.8	30.7
2250	Open	64.6	51.4	50.5	38.7	41.3	31.0
85°C - Aluminum Conductor - Hollow Core Segmental Strand							
2000	Open	63.4	50.7	49.7	38.2	40.8	30.7
2250	Open	64.6	51.5	50.4	38.7	41.3	31.1
2500	Open	65.5	52.0	51.0	39.1	41.7	31.3
2750	Open	66.9	52.9	51.9	39.6	42.3	31.6
3000	Open	67.7	53.5	52.4	39.9	42.8	31.9

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Direct Buried - 1 Circuit - Three Cables - Spaced

25°C Earth Ambient

Condr Size	Sheath Res	60 Rho 75 LF	60 Rho 100 LF	90 Rho 75 LF	90 Rho 100 LF	120 Rho 75 LF	120 Rho 100 LF
		Total Watts/ft					
75°C - Aluminum Conductor - Hollow Core Concentric Strand							
350	Open	41.1	34.3	33.6	26.9	28.3	22.2
500	Open	42.3	35.3	34.4	27.6	29.0	22.6
750	Open	44.3	36.7	35.8	28.4	30.0	23.2
1000	Open	47.5	38.8	37.8	29.7	31.3	24.1
1250	Open	49.0	39.9	38.8	30.4	32.1	24.5
1500	Open	50.5	40.9	39.8	31.0	32.8	25.0
1750	Open	52.0	41.8	40.8	31.6	33.5	25.4
2000	Open	52.9	42.3	41.3	32.0	33.8	25.6
2250	Open	53.8	43.0	41.9	32.3	34.3	25.9
75°C - Aluminum Conductor - Hollow Core Segmental Strand							
2000	Open	52.8	42.3	41.3	31.9	33.8	25.6
2250	Open	53.8	42.9	41.9	32.3	34.3	25.9
2500	Open	54.6	43.4	42.4	32.6	34.6	26.1
2750	Open	55.7	44.2	43.1	33.0	35.2	26.4
3000	Open	56.4	44.6	43.6	33.3	35.4	26.6

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Direct Buried - 1 Circuit - Three Cables - Spaced

25°C Earth Ambient

Condr Size	Sheath Res	60 Rho 75 LF	60 Rho 100 LF	90 Rho 75 LF	90 Rho 100 LF	120 Rho 75 LF	120 Rho 100 LF
		Total Watts/ft					
65°C - Aluminum Conductor - Hollow Core Concentric Strand							
350	Open	33.0	27.6	26.8	21.6	22.6	17.8
500	Open	33.8	28.3	27.5	22.1	23.1	18.1
750	Open	35.5	29.4	28.6	22.8	23.9	18.7
1000	Open	38.0	31.2	30.2	23.8	25.0	19.4
1250	Open	39.3	32.0	31.0	24.3	25.5	19.7
1500	Open	40.4	32.7	31.8	24.8	26.1	20.0
1750	Open	41.5	33.6	32.5	25.3	26.7	20.3
2000	Open	42.2	34.0	33.0	25.6	27.0	20.5
2250	Open	43.0	34.5	33.4	25.9	27.3	20.8
65°C - Aluminum Conductor - Hollow Core Segmental Strand							
2000	Open	42.2	34.0	33.0	25.6	26.9	20.6
2250	Open	43.0	34.4	33.4	25.9	27.3	20.8
2500	Open	43.6	34.8	33.8	26.1	27.6	21.0
2750	Open	44.4	35.4	34.3	26.5	27.9	21.2
3000	Open	45.0	35.8	34.7	26.8	28.2	21.3

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Direct Buried - 1 Circuit - Three Cables - Spaced

25°C Earth Ambient

Condr Size	Sheath Res	60 Rho 75 LF	60 Rho 100 LF	90 Rho 75 LF	90 Rho 100 LF	120 Rho 75 LF	120 Rho 100 LF
		Total Watts/ft					
50°C - Aluminum Conductor - Hollow Core Concentric Strand							
350	Open	20.6	17.4	16.7	13.7	14.0	11.2
500	Open	21.2	17.8	17.1	13.9	14.4	11.4
750	Open	22.2	18.5	17.8	14.4	14.8	11.7
1000	Open	23.7	19.6	18.7	15.0	15.4	12.2
1250	Open	24.5	20.1	19.2	15.4	15.8	12.4
1500	Open	25.2	20.6	19.7	15.6	16.1	12.6
1750	Open	25.9	21.1	20.2	16.0	16.4	12.8
2000	Open	26.3	21.4	20.4	16.1	16.6	12.9
2250	Open	26.7	21.7	20.7	16.3	16.8	13.1
50°C - Aluminum Conductor - Hollow Core Segmental Strand							
2000	Open	26.3	21.4	20.4	16.1	16.6	12.9
2250	Open	26.7	21.7	20.7	16.3	16.8	13.1
2500	Open	27.1	22.0	20.9	16.5	16.9	13.2
2750	Open	27.7	22.3	21.2	16.7	17.1	13.3
3000	Open	28.0	22.5	21.4	16.8	17.3	13.4

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115 kV 1/c Self Contained Liquid Filled Lead Sheathed Power Cable

Direct Buried - 1 Circuit - Three Cables - Spaced

25°C Earth Ambient

Condr Size	Sheath Res	OD	Wd	Rac	Qs	Ri	Rj	Re @ 90 Rho & loss factor 75%	Re @ 90 Rho & loss factor 100%
		85°C - Aluminum Conductor - Hollow Core Concentric Strand							
350	Open	2.360	0.56	62.55	1.000	1.78	0.21	2.47	3.63
500	Open	2.508	0.60	43.77	1.001	1.66	0.24	2.45	3.60
750	Open	2.651	0.65	29.22	1.001	1.52	0.23	2.42	3.57
1000	Open	2.683	0.77	21.96	1.002	1.30	0.22	2.41	3.57
1250	Open	2.800	0.82	17.62	1.003	1.22	0.21	2.39	3.55
1500	Open	2.918	0.87	14.76	1.004	1.15	0.21	2.37	3.53
1750	Open	3.045	0.92	12.73	1.006	1.09	0.20	2.35	3.51
2000	Open	3.116	0.95	11.22	1.007	1.05	0.19	2.34	3.50
2250	Open	3.266	1.00	10.14	1.009	1.00	0.21	2.32	3.48
		85°C - Aluminum Conductor - Hollow Core Segmental Strand							
2000	Open	3.113	0.95	11.05	1.007	1.05	0.19	2.34	3.50
2250	Open	3.266	1.00	9.93	1.009	1.00	0.21	2.32	3.48
2500	Open	3.335	1.03	8.96	1.011	0.97	0.20	2.31	3.47
2750	Open	3.440	1.07	8.17	1.014	0.93	0.20	2.30	3.45
3000	Open	3.511	1.10	7.58	1.016	0.91	0.19	2.29	3.44

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115 kV 1/c Self Contained Liquid Filled Lead Sheathed Power Cable

Direct Buried - 1 Circuit - Three Cables - Spaced

25°C Earth Ambient

Condr Size	Sheath Res	OD	Wd	Rac	Qs	Ri	Rj	Re @ 90 Rho & loss factor 75%	100%
		75°C - Aluminum Conductor - Hollow Core Concentric Strand							
350	Open	2.360	0.56	62.55	1.000	1.78	0.21	2.47	3.63
500	Open	2.508	0.60	43.77	1.001	1.66	0.24	2.45	3.60
750	Open	2.651	0.65	29.22	1.001	1.52	0.23	2.42	3.57
1000	Open	2.683	0.77	21.96	1.002	1.30	0.22	2.41	3.57
1250	Open	2.800	0.82	17.62	1.003	1.22	0.21	2.39	3.55
1500	Open	2.918	0.87	14.76	1.004	1.15	0.21	2.37	3.53
1750	Open	3.045	0.92	12.73	1.006	1.09	0.20	2.35	3.51
2000	Open	3.116	0.95	11.22	1.007	1.05	0.19	2.34	3.50
2250	Open	3.266	1.00	10.14	1.009	1.00	0.21	2.32	3.48
		75°C - Aluminum Conductor - Hollow Core Segmental Strand							
2000	Open	3.113	0.95	11.05	1.007	1.05	0.19	2.34	3.50
2250	Open	3.266	1.00	9.93	1.009	1.00	0.21	2.32	3.48
2500	Open	3.335	1.03	8.96	1.011	0.97	0.20	2.31	3.47
2750	Open	3.440	1.07	8.17	1.014	0.93	0.20	2.30	3.45
3000	Open	3.511	1.10	7.58	1.016	0.91	0.19	2.29	3.44

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Direct Buried - 1 Circuit - Three Cables - Spaced

25°C Earth Ambient

Condr Size	Sheath Res	OD	Wd	Rac	Qs	Ri	Rj	Re @ 90 Rho & loss factor 75%	100%
		65°C - Aluminum Conductor - Hollow Core Concentric Strand							
350	Open	2.360	0.56	62.55	1.000	1.78	0.21	2.47	3.63
500	Open	2.508	0.60	43.77	1.001	1.66	0.24	2.45	3.60
750	Open	2.651	0.65	29.22	1.001	1.52	0.23	2.42	3.57
1000	Open	2.683	0.77	21.96	1.002	1.30	0.22	2.41	3.57
1250	Open	2.800	0.82	17.62	1.003	1.22	0.21	2.39	3.55
1500	Open	2.918	0.87	14.76	1.004	1.15	0.21	2.37	3.53
1750	Open	3.045	0.92	12.73	1.006	1.09	0.20	2.35	3.51
2000	Open	3.116	0.95	11.22	1.007	1.05	0.19	2.34	3.50
2250	Open	3.266	1.00	10.14	1.009	1.00	0.21	2.32	3.48
		65°C - Aluminum Conductor - Hollow Core Segmental Strand							
2000	Open	3.113	0.95	11.05	1.007	1.05	0.19	2.34	3.50
2250	Open	3.266	1.00	9.93	1.009	1.00	0.21	2.32	3.48
2500	Open	3.335	1.03	8.96	1.011	0.97	0.20	2.31	3.47
2750	Open	3.440	1.07	8.17	1.014	0.93	0.20	2.30	3.45
3000	Open	3.511	1.10	7.58	1.016	0.91	0.19	2.29	3.44

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115 kV 1/c Self Contained Liquid Filled Lead Sheathed Power Cable

Direct Buried - 1 Circuit - Three Cables - Spaced

25°C Earth Ambient

Condr Size	Sheath Res	OD	Wd	Rac	Qs	Ri	Rj	Re @ 90 Rho & loss factor 75%	100%
		50°C - Aluminum Conductor - Hollow Core Concentric Strand							
350	Open	2.360	0.56	62.55	1.000	1.78	0.21	2.47	3.63
500	Open	2.508	0.60	43.77	1.001	1.66	0.24	2.45	3.60
750	Open	2.651	0.65	29.22	1.001	1.52	0.23	2.42	3.57
1000	Open	2.683	0.77	21.96	1.002	1.30	0.22	2.41	3.57
1250	Open	2.800	0.82	17.62	1.003	1.22	0.21	2.39	3.55
1500	Open	2.918	0.87	14.76	1.004	1.15	0.21	2.37	3.53
1750	Open	3.045	0.92	12.73	1.006	1.09	0.20	2.35	3.51
2000	Open	3.116	0.95	11.22	1.007	1.05	0.19	2.34	3.50
2250	Open	3.266	1.00	10.14	1.009	1.00	0.21	2.32	3.48
		50°C - Aluminum Conductor - Hollow Core Segmental Strand							
2000	Open	3.113	0.95	11.05	1.007	1.05	0.19	2.34	3.50
2250	Open	3.266	1.00	9.93	1.009	1.00	0.21	2.32	3.48
2500	Open	3.335	1.03	8.96	1.011	0.97	0.20	2.31	3.47
2750	Open	3.440	1.07	8.17	1.014	0.93	0.20	2.30	3.45
3000	Open	3.511	1.10	7.58	1.016	0.91	0.19	2.29	3.44

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115 kV 1/c Self Contained Liquid Filled Lead Sheathed Power Cable

Direct Buried - 2 Circuits - Six Cables - Spaced

25°C Earth Ambient

Condr Size	Sheath Res	60 Rho Interface Temp Amps	60 Rho Interface Temp °C	60 Rho Interface Flux w/ft²	90 Rho Interface Temp Amps	90 Rho Interface Temp °C	90 Rho Interface Flux w/ft²	120 Rho Interface Temp Amps	120 Rho Interface Temp °C	120 Rho Interface Flux w/ft²	delta Td for .0033 pf & Rho 60	90	120
						75% LF							
						85°C - Aluminum Conductor - Hollow Core Concentric Strand							
350	Open	479	57	24.1	426	63	19.3	387	67	16.0	2.3	3.2	4.0
500	Open	579	57	23.3	514	63	18.6	466	67	15.4	2.4	3.3	4.2
750	Open	723	58	23.1	639	64	18.2	577	68	15.0	2.6	3.6	4.5
1000	Open	858	60	24.2	752	66	18.8	676	70	15.4	3.0	4.1	5.2
1250	Open	971	61	23.9	848	67	18.6	760	70	15.1	3.1	4.3	5.5
1500	Open	1074	62	23.6	936	68	18.2	836	71	14.8	3.2	4.5	5.8
1750	Open	1170	63	23.2	1016	68	17.8	907	72	14.4	3.4	4.7	6.1
2000	Open	1254	63	23.0	1087	69	17.7	969	72	14.2	3.5	4.8	6.2
2250	Open	1327	63	22.3	1149	69	17.1	1023	72	13.8	3.6	5.1	6.5
						85°C - Aluminum Conductor - Hollow Core Segmental Strand							
2000	Open	1263	63	23.1	1096	69	17.7	976	72	14.2	3.4	4.8	6.2
2250	Open	1340	63	22.3	1161	69	17.1	1033	72	13.8	3.6	5.1	6.5
2500	Open	1418	64	22.2	1226	69	17.0	1091	73	13.6	3.7	5.2	6.7
2750	Open	1496	64	22.0	1291	70	16.7	1146	73	13.3	3.8	5.3	6.9
3000	Open	1559	65	21.8	1344	70	16.5	1192	73	13.3	3.9	5.5	7.1

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Direct Buried - 2 Circuits - Six Cables - Spaced

25°C Earth Ambient

Condr Size	Sheath Res	60 Rho Amps	60 Rho Interface Temp °C	60 Rho Flux w/ft²	90 Rho Amps	90 Rho Interface Temp °C	90 Rho Flux w/ft²	120 Rho Amps	120 Rho Interface Temp °C	120 Rho Flux w/ft²	delta Td for .0033 pf & Rho 60	90	120
						100% LF							
						85°C - Aluminum Conductor - Hollow Core Concentric Strand							
350	Open	430	62	19.6	374	68	15.1	334	71	12.3	2.3	3.2	4.0
500	Open	519	63	18.9	450	68	14.5	402	72	11.7	2.4	3.3	4.2
750	Open	645	64	18.4	557	69	14.0	496	72	11.4	2.6	3.6	4.5
1000	Open	759	66	19.2	652	71	14.4	577	74	11.5	3.0	4.1	5.2
1250	Open	856	67	18.8	733	71	14.1	648	74	11.3	3.1	4.3	5.5
1500	Open	944	67	18.5	806	72	13.7	711	75	11.0	3.2	4.5	5.8
1750	Open	1025	68	18.1	872	73	13.4	768	75	10.7	3.4	4.7	6.1
2000	Open	1097	68	17.9	932	73	13.2	820	76	10.5	3.5	4.8	6.2
2250	Open	1159	69	17.3	983	73	12.7	864	76	10.2	3.6	5.1	6.5
						85°C - Aluminum Conductor - Hollow Core Segmental Strand							
2000	Open	1106	68	17.9	939	73	13.3	826	76	10.6	3.4	4.8	6.2
2250	Open	1170	69	17.3	993	73	12.7	872	76	10.2	3.6	5.1	6.5
2500	Open	1237	69	17.2	1048	73	12.6	919	76	10.0	3.7	5.2	6.7
2750	Open	1301	69	16.9	1100	74	12.4	964	76	9.8	3.8	5.3	6.9
3000	Open	1355	70	16.8	1144	74	12.3	1002	77	9.7	3.9	5.5	7.1

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115 kV 1/c Self Contained Liquid Filled Lead Sheathed Power Cable

Direct Buried - 2 Circuits - Six Cables - Spaced

25°C Earth Ambient

Condr Size	Sheath Res	60 Rho Interface Temp	60 Rho Flux	60 Rho Amps	90 Rho Interface Temp	90 Rho Flux	90 Rho Amps	120 Rho Interface Temp	120 Rho Flux	120 Rho Amps	delta Td for .0033 pf & Rho 60	90	120
		°C	w/ft²		°C	w/ft²		°C	w/ft²				
						75% LF							
75°C - Aluminum Conductor - Hollow Core Concentric Strand													
350	Open	443	52	20.1	393	57	16.0	356	60	13.3	2.3	3.2	4.0
500	Open	535	52	19.5	474	57	15.4	429	60	12.8	2.4	3.3	4.2
750	Open	668	53	19.2	589	58	15.1	531	61	12.5	2.6	3.6	4.5
1000	Open	792	55	20.1	692	59	15.7	621	63	12.8	3.0	4.1	5.2
1250	Open	896	55	19.9	781	60	15.4	698	63	12.6	3.1	4.3	5.5
1500	Open	990	56	19.6	860	61	15.1	768	64	12.3	3.2	4.5	5.8
1750	Open	1078	57	19.3	934	61	14.8	831	64	11.9	3.4	4.7	6.1
2000	Open	1155	57	19.1	999	62	14.6	888	64	11.8	3.5	4.8	6.2
2250	Open	1222	57	18.6	1055	62	14.2	936	65	11.5	3.6	5.1	6.5
75°C - Aluminum Conductor - Hollow Core Segmental Strand													
2000	Open	1165	57	19.1	1007	62	14.6	895	64	11.8	3.4	4.8	6.2
2250	Open	1235	57	18.6	1066	62	14.2	946	65	11.5	3.6	5.1	6.5
2500	Open	1306	58	18.4	1126	62	14.1	998	65	11.3	3.7	5.2	6.7
2750	Open	1377	58	18.3	1185	62	13.9	1048	65	11.1	3.8	5.3	6.9
3000	Open	1435	58	18.2	1233	63	13.7	1090	65	11.0	3.9	5.5	7.1

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Direct Buried - 2 Circuits - Six Cables - Spaced

25°C Earth Ambient

Condr Size	Sheath Res	60 Rho Interface Temp Amps	60 Rho Interface Temp °C	60 Rho Flux w/ft²	90 Rho Interface Temp Amps	90 Rho Interface Temp °C	90 Rho Flux w/ft²	120 Rho Interface Temp Amps	120 Rho Interface Temp °C	120 Rho Flux w/ft²	delta Td for .0033 pf & Rho 60	90	120
						100% LF							
						75°C - Aluminum Conductor - Hollow Core Concentric Strand							
350	Open	397	56	16.3	345	61	12.6	308	64	10.2	2.3	3.2	4.0
500	Open	479	57	15.7	415	61	12.0	370	64	9.7	2.4	3.3	4.2
750	Open	595	58	15.4	514	62	11.7	456	65	9.5	2.6	3.6	4.5
1000	Open	701	59	15.9	600	63	12.1	530	66	9.7	3.0	4.1	5.2
1250	Open	790	60	15.7	674	64	11.7	595	66	9.4	3.1	4.3	5.5
1500	Open	871	60	15.4	741	64	11.5	652	67	9.2	3.2	4.5	5.8
1750	Open	945	61	15.1	802	65	11.2	704	67	8.9	3.4	4.7	6.1
2000	Open	1011	61	15.0	856	65	11.0	751	67	8.8	3.5	4.8	6.2
2250	Open	1067	62	14.5	902	65	10.6	790	68	8.4	3.6	5.1	6.5
						75°C - Aluminum Conductor - Hollow Core Segmental Strand							
2000	Open	1019	61	15.0	863	65	11.0	757	67	8.8	3.4	4.8	6.2
2250	Open	1078	62	14.5	912	65	10.6	799	68	8.4	3.6	5.1	6.5
2500	Open	1139	62	14.3	962	66	10.5	842	68	8.4	3.7	5.2	6.7
2750	Open	1198	62	14.1	1010	66	10.3	882	68	8.2	3.8	5.3	6.9
3000	Open	1247	62	14.0	1049	66	10.2	916	68	8.1	3.9	5.5	7.1

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Direct Buried - 2 Circuits - Six Cables - Spaced

25°C Earth Ambient

Condr Size	Sheath Res	60 Rho Amps	60 Rho Interface Temp °C	60 Rho Flux w/ft²	90 Rho Amps	90 Rho Interface Temp °C	90 Rho Flux w/ft²	120 Rho Amps	120 Rho Interface Temp °C	120 Rho Flux w/ft²	delta Td for .0033 pf & Rho 60	90	120
						75% LF							
						65°C - Aluminum Conductor - Hollow Core Concentric Strand							
350	Open	400	46	16.0	355	50	12.8	320	53	10.7	2.3	3.2	4.0
500	Open	483	47	15.5	427	51	12.3	385	53	10.2	2.4	3.3	4.2
750	Open	603	48	15.3	531	52	12.1	477	54	9.9	2.6	3.6	4.5
1000	Open	715	49	16.1	623	53	12.5	556	55	10.3	3.0	4.1	5.2
1250	Open	808	50	16.0	702	53	12.3	625	56	10.0	3.1	4.3	5.5
1500	Open	892	50	15.7	773	54	12.0	686	56	9.7	3.2	4.5	5.8
1750	Open	971	51	15.4	838	54	11.8	743	57	9.5	3.4	4.7	6.1
2000	Open	1040	51	15.3	896	55	11.6	792	57	9.4	3.5	4.8	6.2
2250	Open	1099	51	14.9	945	55	11.2	834	57	9.0	3.6	5.1	6.5
						65°C - Aluminum Conductor - Hollow Core Segmental Strand							
2000	Open	1049	51	15.3	904	55	11.7	800	57	9.4	3.4	4.8	6.2
2250	Open	1111	51	14.9	956	55	11.2	844	57	9.0	3.6	5.1	6.5
2500	Open	1176	51	14.8	1009	55	11.2	890	57	8.9	3.7	5.2	6.7
2750	Open	1239	52	14.5	1061	55	11.0	934	57	8.8	3.8	5.3	6.9
3000	Open	1291	52	14.5	1103	55	10.9	970	58	8.7	3.9	5.5	7.1

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Direct Buried - 2 Circuits - Six Cables - Spaced

25°C Earth Ambient

Condr Size	Sheath Res	60 Rho Interface Temp	60 Rho Interface Flux	60 Rho Amps	90 Rho Interface Temp	90 Rho Interface Flux	90 Rho Amps	120 Rho Interface Temp	120 Rho Interface Flux	120 Rho Amps	delta Td for .0033 pf & Rho 60	90	120
		°C	w/ft²	Amps	°C	w/ft²	Amps	°C	w/ft²	Amps			
					100% LF								
65°C - Aluminum Conductor - Hollow Core Concentric Strand													
350	Open	359	50	13.1	311	54	10.0	277	56	8.3	2.3	3.2	4.0
500	Open	433	50	12.6	374	54	9.6	332	56	7.8	2.4	3.3	4.2
750	Open	537	51	12.4	463	55	9.4	410	57	7.6	2.6	3.6	4.5
1000	Open	632	53	12.8	539	56	9.7	475	58	7.7	3.0	4.1	5.2
1250	Open	712	53	12.6	606	56	9.4	532	58	7.5	3.1	4.3	5.5
1500	Open	784	53	12.3	665	57	9.2	583	59	7.3	3.2	4.5	5.8
1750	Open	850	54	12.2	719	57	9.0	629	59	7.2	3.4	4.7	6.1
2000	Open	909	54	12.0	767	57	8.8	670	59	7.0	3.5	4.8	6.2
2250	Open	959	54	11.6	808	58	8.5	704	59	6.8	3.6	5.1	6.5
65°C - Aluminum Conductor - Hollow Core Segmental Strand													
2000	Open	917	54	12.0	774	57	8.8	676	59	7.0	3.4	4.8	6.2
2250	Open	970	54	11.6	817	58	8.5	712	59	6.8	3.6	5.1	6.5
2500	Open	1025	55	11.5	861	58	8.5	750	59	6.8	3.7	5.2	6.7
2750	Open	1077	55	11.3	903	58	8.3	785	60	6.6	3.8	5.3	6.9
3000	Open	1121	55	11.2	939	58	8.3	815	60	6.5	3.9	5.5	7.1

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Direct Buried - 2 Circuits - Six Cables - Spaced

25°C Earth Ambient

Condr Size	Sheath Res	60 Rho Interface Amps	60 Rho Interface Temp °C	60 Rho Interface Flux w/ft²	90 Rho Interface Amps	90 Rho Interface Temp °C	90 Rho Interface Flux w/ft²	120 Rho Interface Amps	120 Rho Interface Temp °C	120 Rho Interface Flux w/ft²	delta Td for .0033 pf & Rho 60	90	120
						75% LF							
						50°C - Aluminum Conductor - Hollow Core Concentric Strand							
350	Open	319	39	10.0	280	41	7.9	251	43	6.6	2.3	3.2	4.0
500	Open	385	39	9.7	337	42	7.6	301	43	6.2	2.4	3.3	4.2
750	Open	479	40	9.5	418	42	7.5	372	44	6.2	2.6	3.6	4.5
1000	Open	566	41	10.0	488	43	7.7	430	45	6.3	3.0	4.1	5.2
1250	Open	638	41	10.0	548	43	7.6	482	45	6.1	3.1	4.3	5.5
1500	Open	704	41	9.7	602	44	7.5	527	45	6.0	3.2	4.5	5.8
1750	Open	765	42	9.5	651	44	7.3	568	45	5.8	3.4	4.7	6.1
2000	Open	818	42	9.6	695	44	7.2	605	45	5.8	3.5	4.8	6.2
2250	Open	863	42	9.2	731	44	6.9	635	46	5.5	3.6	5.1	6.5
						50°C - Aluminum Conductor - Hollow Core Segmental Strand							
2000	Open	826	42	9.6	702	44	7.2	611	45	5.8	3.4	4.8	6.2
2250	Open	874	42	9.2	740	44	6.9	643	46	5.5	3.6	5.1	6.5
2500	Open	923	42	9.2	780	44	6.9	676	46	5.5	3.7	5.2	6.7
2750	Open	971	42	9.0	819	45	6.8	708	46	5.3	3.8	5.3	6.9
3000	Open	1011	42	9.0	850	45	6.7	734	46	5.3	3.9	5.5	7.1

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Direct Buried - 2 Circuits - Six Cables - Spaced

25°C Earth Ambient

Condr Size	Sheath Res	60 Rho Interface Temp	60 Rho Flux	60 Rho Amps	90 Rho Interface Temp	90 Rho Flux	90 Rho Amps	120 Rho Interface Temp	120 Rho Flux	120 Rho Amps	delta Td for .0033 pf & Rho 60	90	120
		°C	w/ft²		°C	w/ft²		°C	w/ft²				
					100% LF								
					50°C - Aluminum Conductor - Hollow Core Concentric Strand								
350	Open	41	8.3	286	43	6.3	246	45	5.2	217	2.3	3.2	4.0
500	Open	41	7.9	344	44	6.1	295	45	4.9	260	2.4	3.3	4.2
750	Open	42	7.8	427	44	5.9	364	45	4.8	320	2.6	3.6	4.5
1000	Open	43	8.1	501	45	6.1	423	46	4.8	368	3.0	4.1	5.2
1250	Open	43	7.9	563	45	6.0	473	46	4.8	410	3.1	4.3	5.5
1500	Open	43	7.9	619	45	5.8	519	46	4.6	448	3.2	4.5	5.8
1750	Open	43	7.7	670	45	5.6	559	47	4.5	482	3.4	4.7	6.1
2000	Open	44	7.6	716	46	5.6	596	47	4.4	512	3.5	4.8	6.2
2250	Open	44	7.3	754	46	5.4	625	47	4.3	536	3.6	5.1	6.5
					50°C - Aluminum Conductor - Hollow Core Segmental Strand								
2000	Open	44	7.6	723	46	5.6	602	47	4.4	517	3.4	4.8	6.2
2250	Open	44	7.4	763	46	5.4	633	47	4.3	543	3.6	5.1	6.5
2500	Open	44	7.2	805	46	5.4	667	47	4.2	570	3.7	5.2	6.7
2750	Open	44	7.1	845	46	5.2	698	47	4.1	595	3.8	5.3	6.9
3000	Open	44	7.1	879	46	5.2	724	47	4.1	616	3.9	5.5	7.1

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115 kV 1/c Self Contained Liquid Filled Lead Sheathed Power Cable

Direct Buried - 2 Circuits - Six Cables - Spaced

25°C Earth Ambient

Condr Size	Sheath Res	60 Rho 75 LF	60 Rho 100 LF	90 Rho 75 LF	90 Rho 100 LF	120 Rho 75 LF	120 Rho 100 LF
		Total Watts/ft					
85°C - Aluminum Conductor - Hollow Core Concentric Strand							
350	Open	89.5	72.8	71.5	55.9	59.6	45.2
500	Open	91.7	74.4	73.1	56.8	60.7	46.1
750	Open	95.7	76.9	75.6	58.4	62.4	47.1
1000	Open	101.8	80.7	79.3	60.7	64.9	48.6
1250	Open	104.8	82.5	81.1	61.8	66.1	49.4
1500	Open	107.8	84.4	83.1	63.0	67.4	50.2
1750	Open	110.6	86.2	84.8	63.9	68.7	50.8
2000	Open	112.2	87.2	85.7	64.5	69.3	51.3
2250	Open	113.9	88.3	86.9	65.2	70.1	51.7
85°C - Aluminum Conductor - Hollow Core Segmental Strand							
2000	Open	112.0	87.2	85.8	64.5	69.2	51.2
2250	Open	113.9	88.2	87.0	65.2	70.1	51.7
2500	Open	115.3	89.2	87.7	65.8	70.7	52.0
2750	Open	117.5	90.4	89.1	66.5	71.6	52.5
3000	Open	118.6	91.2	89.9	66.9	72.1	52.9

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115 kV 1/c Self Contained Liquid Filled Lead Sheathed Power Cable

Direct Buried - 2 Circuits - Six Cables - Spaced

25°C Earth Ambient

Condr Size	Sheath Res	60 Rho 75 LF	60 Rho 100 LF	90 Rho 75 LF	90 Rho 100 LF	120 Rho 75 LF	120 Rho 100 LF
		Total Watts/ft					
75°C - Aluminum Conductor - Hollow Core Concentric Strand							
350	Open	74.6	60.6	59.5	46.6	49.4	37.8
500	Open	76.5	62.0	60.8	47.5	50.5	38.5
750	Open	79.8	64.1	62.9	48.8	51.9	39.3
1000	Open	84.8	67.4	65.8	50.6	53.9	40.5
1250	Open	87.4	69.0	67.6	51.6	55.0	41.3
1500	Open	89.6	70.5	68.9	52.5	56.0	41.8
1750	Open	92.0	72.0	70.4	53.4	56.9	42.4
2000	Open	93.3	72.8	71.2	53.8	57.5	42.7
2250	Open	94.8	73.7	72.2	54.4	58.1	43.1
75°C - Aluminum Conductor - Hollow Core Segmental Strand							
2000	Open	93.3	72.7	71.2	53.8	57.4	42.7
2250	Open	94.7	73.6	72.1	54.4	58.1	43.1
2500	Open	96.0	74.5	72.9	54.9	58.6	43.5
2750	Open	97.7	75.5	74.0	55.5	59.3	43.8
3000	Open	98.7	76.2	74.6	55.8	59.7	44.1

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115 kV 1/c Self Contained Liquid Filled Lead Sheathed Power Cable

Direct Buried - 2 Circuits - Six Cables - Spaced

25°C Earth Ambient

Condr Size	Sheath Res	60 Rho 75 LF	60 Rho 100 LF	90 Rho 75 LF	90 Rho 100 LF	120 Rho 75 LF	120 Rho 100 LF
		Total Watts/ft					
65°C - Aluminum Conductor - Hollow Core Concentric Strand							
350	Open	59.6	48.7	47.7	37.4	39.4	30.3
500	Open	61.0	49.7	48.5	38.0	40.1	30.7
750	Open	63.7	51.3	50.3	39.1	41.3	31.5
1000	Open	67.8	54.0	52.6	40.5	42.9	32.5
1250	Open	69.8	55.3	53.9	41.4	43.7	33.0
1500	Open	71.5	56.4	55.0	42.1	44.4	33.5
1750	Open	73.5	57.6	56.1	42.8	45.3	34.0
2000	Open	74.6	58.3	56.8	43.2	45.6	34.3
2250	Open	75.7	59.1	57.5	43.7	46.1	34.6
65°C - Aluminum Conductor - Hollow Core Segmental Strand							
2000	Open	74.5	58.3	56.8	43.2	45.7	34.3
2250	Open	75.6	59.0	57.5	43.6	46.1	34.6
2500	Open	76.7	59.7	58.1	44.0	46.6	34.9
2750	Open	78.0	60.5	58.9	44.4	47.1	35.1
3000	Open	78.9	61.1	59.4	44.8	47.4	35.4

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115 kV 1/c Self Contained Liquid Filled Lead Sheathed Power Cable

Direct Buried - 2 Circuits - Six Cables - Spaced

25°C Earth Ambient

Condr Size	Sheath Res	60 Rho 75 LF	60 Rho 100 LF	90 Rho 75 LF	90 Rho 100 LF	120 Rho 75 LF	120 Rho 100 LF
		Total Watts/ft					
50°C - Aluminum Conductor - Hollow Core Concentric Strand							
350	Open	37.3	30.6	29.5	23.5	24.4	19.1
500	Open	38.2	31.3	30.1	23.9	24.8	19.4
750	Open	39.7	32.4	31.2	24.6	25.5	19.9
1000	Open	42.2	34.1	32.6	25.6	26.3	20.5
1250	Open	43.4	34.8	33.3	26.0	26.9	20.8
1500	Open	44.5	35.5	33.9	26.5	27.2	21.1
1750	Open	45.6	36.3	34.6	26.9	27.6	21.4
2000	Open	46.2	36.7	35.0	27.2	27.9	21.6
2250	Open	47.0	37.3	35.4	27.5	28.2	21.8
50°C - Aluminum Conductor - Hollow Core Segmental Strand							
2000	Open	46.2	36.8	35.0	27.2	27.9	21.6
2250	Open	46.9	37.2	35.3	27.5	28.2	21.8
2500	Open	47.5	37.6	35.7	27.7	28.3	21.9
2750	Open	48.3	38.1	36.2	28.1	28.7	22.1
3000	Open	48.8	38.5	36.5	28.3	28.9	22.3

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115 kV 1/c Self Contained Liquid Filled Lead Sheathed Power Cable

Direct Buried - 2 Circuits - Six Cables - Spaced

25°C Earth Ambient

Condr Size	Sheath Res	OD	Wd	Rac	Qs	Ri	Rj	Re @ 90 Rho & loss factor 75%	100%
		85°C - Aluminum Conductor - Hollow Core Concentric Strand							
350	Open	2.360	0.56	62.55	1.000	1.78	0.21	3.02	4.52
500	Open	2.508	0.60	43.77	1.001	1.66	0.24	3.00	4.49
750	Open	2.651	0.65	29.22	1.001	1.52	0.23	2.97	4.46
1000	Open	2.683	0.77	21.96	1.002	1.30	0.22	2.96	4.46
1250	Open	2.800	0.82	17.62	1.002	1.22	0.21	2.94	4.44
1500	Open	2.918	0.87	14.76	1.003	1.15	0.21	2.92	4.42
1750	Open	3.045	0.92	12.73	1.004	1.09	0.20	2.90	4.40
2000	Open	3.116	0.95	11.22	1.005	1.05	0.19	2.89	4.39
2250	Open	3.266	1.00	10.14	1.007	1.00	0.21	2.87	4.36
		85°C - Aluminum Conductor - Hollow Core Segmental Strand							
2000	Open	3.113	0.95	11.05	1.005	1.05	0.19	2.89	4.39
2250	Open	3.266	1.00	9.93	1.007	1.00	0.21	2.87	4.36
2500	Open	3.335	1.03	8.96	1.008	0.97	0.20	2.86	4.35
2750	Open	3.440	1.07	8.17	1.011	0.93	0.20	2.85	4.34
3000	Open	3.511	1.10	7.58	1.012	0.91	0.19	2.84	4.33

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115 kV 1/c Self Contained Liquid Filled Lead Sheathed Power Cable

Direct Buried - 2 Circuits - Six Cables - Spaced

25°C Earth Ambient

Condr Size	Sheath Res	OD	Wd	Rac	Qs	Ri	Rj	Re @ 90 Rho & loss factor 75%	100%
		75°C - Aluminum Conductor - Hollow Core Concentric Strand							
350	Open	2.360	0.56	62.55	1.000	1.78	0.21	3.02	4.52
500	Open	2.508	0.60	43.77	1.001	1.66	0.24	3.00	4.49
750	Open	2.651	0.65	29.22	1.001	1.52	0.23	2.97	4.46
1000	Open	2.683	0.77	21.96	1.002	1.30	0.22	2.96	4.46
1250	Open	2.800	0.82	17.62	1.002	1.22	0.21	2.94	4.44
1500	Open	2.918	0.87	14.76	1.003	1.15	0.21	2.92	4.42
1750	Open	3.045	0.92	12.73	1.004	1.09	0.20	2.90	4.40
2000	Open	3.116	0.95	11.22	1.005	1.05	0.19	2.89	4.39
2250	Open	3.266	1.00	10.14	1.007	1.00	0.21	2.87	4.36
		75°C - Aluminum Conductor - Hollow Core Segmental Strand							
2000	Open	3.113	0.95	11.05	1.005	1.05	0.19	2.89	4.39
2250	Open	3.266	1.00	9.93	1.007	1.00	0.21	2.87	4.36
2500	Open	3.335	1.03	8.96	1.008	0.97	0.20	2.86	4.35
2750	Open	3.440	1.07	8.17	1.011	0.93	0.20	2.85	4.34
3000	Open	3.511	1.10	7.58	1.012	0.91	0.19	2.84	4.33

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115 kV 1/c Self Contained Liquid Filled Lead Sheathed Power Cable

Direct Buried - 2 Circuits - Six Cables - Spaced

25°C Earth Ambient

Condr Size	Sheath Res	OD	Wd	Rac	Qs	Ri	Rj	Re @ 90 Rho & loss factor 75%	Re @ 90 Rho & loss factor 100%
		65°C - Aluminum Conductor - Hollow Core Concentric Strand							
350	Open	2.360	0.56	62.55	1.000	1.78	0.21	3.02	4.52
500	Open	2.508	0.60	43.77	1.001	1.66	0.24	3.00	4.49
750	Open	2.651	0.65	29.22	1.001	1.52	0.23	2.97	4.46
1000	Open	2.683	0.77	21.96	1.002	1.30	0.22	2.96	4.46
1250	Open	2.800	0.82	17.62	1.002	1.22	0.21	2.94	4.44
1500	Open	2.918	0.87	14.76	1.003	1.15	0.21	2.92	4.42
1750	Open	3.045	0.92	12.73	1.004	1.09	0.20	2.90	4.40
2000	Open	3.116	0.95	11.22	1.005	1.05	0.19	2.89	4.39
2250	Open	3.266	1.00	10.14	1.007	1.00	0.21	2.87	4.36
		65°C - Aluminum Conductor - Hollow Core Segmental Strand							
2000	Open	3.113	0.95	11.05	1.005	1.05	0.19	2.89	4.39
2250	Open	3.266	1.00	9.93	1.007	1.00	0.21	2.87	4.36
2500	Open	3.335	1.03	8.96	1.008	0.97	0.20	2.86	4.35
2750	Open	3.440	1.07	8.17	1.011	0.93	0.20	2.85	4.34
3000	Open	3.511	1.10	7.58	1.012	0.91	0.19	2.84	4.33

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115 kV 1/c Self Contained Liquid Filled Lead Sheathed Power Cable

Direct Buried - 2 Circuits - Six Cables - Spaced

25°C Earth Ambient

Condr Size	Sheath Res	OD	Wd	Rac	Qs	Ri	Rj	Re @ 90 Rho & loss factor 75%	100%
		50°C - Aluminum Conductor - Hollow Core Concentric Strand							
350	Open	2.360	0.56	62.55	1.000	1.78	0.21	3.02	4.52
500	Open	2.508	0.60	43.77	1.001	1.66	0.24	3.00	4.49
750	Open	2.651	0.65	29.22	1.001	1.52	0.23	2.97	4.46
1000	Open	2.683	0.77	21.96	1.002	1.30	0.22	2.96	4.46
1250	Open	2.800	0.82	17.62	1.002	1.22	0.21	2.94	4.44
1500	Open	2.918	0.87	14.76	1.003	1.15	0.21	2.92	4.42
1750	Open	3.045	0.92	12.73	1.004	1.09	0.20	2.90	4.40
2000	Open	3.116	0.95	11.22	1.005	1.05	0.19	2.89	4.39
2250	Open	3.266	1.00	10.14	1.007	1.00	0.21	2.87	4.36
		50°C - Aluminum Conductor - Hollow Core Segmental Strand							
2000	Open	3.113	0.95	11.05	1.005	1.05	0.19	2.89	4.39
2250	Open	3.266	1.00	9.93	1.007	1.00	0.21	2.87	4.36
2500	Open	3.335	1.03	8.96	1.008	0.97	0.20	2.86	4.35
2750	Open	3.440	1.07	8.17	1.011	0.93	0.20	2.85	4.34
3000	Open	3.511	1.10	7.58	1.012	0.91	0.19	2.84	4.33

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115 kV 1/c Self Contained Liquid Filled Lead Sheathed Power Cable

Isolated Cable in Non-Metallic Conduit in Air

40°C Air Ambient

Condr Size	Sheath Res	No Sun 0 Ft/s	No Sun 2 Ft/s	Full Sun 0 Ft/s	Full Sun 2 Ft/s	delta Td for .0033 pf No Sun 0 Ft/s	delta Td for .0033 pf No Sun 2 Ft/s
85°C - Aluminum Conductor - Hollow Core Concentric Strand							
350	Open	358	369	233	273	2.5	2.3
500	Open	436	449	283	333	2.6	2.4
750	Open	546	563	355	417	2.7	2.5
1000	Open	645	666	417	492	3.0	2.8
1250	Open	732	757	473	559	3.1	2.9
1500	Open	813	842	525	621	3.2	3.0
1750	Open	890	922	574	679	3.3	3.1
2000	Open	956	992	617	730	3.4	3.1
2250	Open	1017	1056	655	777	3.5	3.2
85°C - Aluminum Conductor - Hollow Core Segmental Strand							
2000	Open	963	999	621	736	3.4	3.1
2250	Open	1028	1067	662	785	3.5	3.2
2500	Open	1120	1155	711	835	3.3	3.1
2750	Open	1186	1225	753	885	3.4	3.2
3000	Open	1241	1282	787	926	3.4	3.2

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115 kV 1/c Self Contained Liquid Filled Lead Sheathed Power Cable

Isolated Cable in Non-Metallic Conduit in Air

40°C Air Ambient

Condr Size	Sheath Res	No Sun 0 Ft/s	No Sun 2 Ft/s	Full Sun 0 Ft/s	Full Sun 2 Ft/s
		Total Watts/ft			
85°C - Aluminum Conductor - Hollow Core Concentric Strand					
350	Open	25.7	27.2	11.9	15.7
500	Open	26.8	28.3	12.3	16.4
750	Open	28.1	29.8	13.0	17.2
1000	Open	29.7	31.5	13.8	18.3
1250	Open	30.8	32.8	14.3	19.0
1500	Open	31.8	34.0	14.8	19.7
1750	Open	33.0	35.2	15.3	20.3
2000	Open	33.6	35.9	15.6	20.8
2250	Open	34.4	36.9	16.0	21.4
85°C - Aluminum Conductor - Hollow Core Segmental Strand					
2000	Open	33.5	35.9	15.6	20.8
2250	Open	34.5	36.9	16.0	21.3
2500	Open	36.8	38.9	16.7	21.8
2750	Open	37.6	39.9	17.1	22.4
3000	Open	38.3	40.6	17.4	22.8

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115 kV 1/c Self Contained Liquid Filled Lead Sheathed Power Cable

Isolated Cable in Non-Metallic Conduit in Air

40°C Air Ambient

Condr Size	Sheath Res	OD	Duct ID	Wd	Rac	Qs	Ri	Rj	Rsd	Rd	Re No Sun 0 fps	Re Sun 2 fps
		85°C - Aluminum Conductor - Hollow Core Concentric Strand										
350	Open	2.360	4.03	0.56	62.55	1.000	1.78	0.21	2.07	0.35	0.90	0.61
500	Open	2.508	4.03	0.60	43.77	1.000	1.66	0.24	1.96	0.35	0.90	0.61
750	Open	2.651	4.03	0.65	29.22	1.000	1.52	0.23	1.86	0.35	0.90	0.61
1000	Open	2.683	4.03	0.77	21.96	1.000	1.30	0.22	1.83	0.35	0.89	0.61
1250	Open	2.800	4.03	0.82	17.62	1.000	1.22	0.21	1.76	0.35	0.89	0.61
1500	Open	2.918	4.03	0.87	14.75	1.000	1.15	0.21	1.70	0.35	0.88	0.61
1750	Open	3.045	4.03	0.92	12.72	1.000	1.09	0.20	1.63	0.35	0.88	0.61
2000	Open	3.116	4.03	0.95	11.20	1.000	1.05	0.19	1.59	0.35	0.88	0.61
2250	Open	3.266	4.03	1.00	10.14	1.000	1.00	0.21	1.53	0.35	0.88	0.61
		85°C - Aluminum Conductor - Hollow Core Segmental Strand										
2000	Open	3.113	4.03	0.95	11.03	1.000	1.05	0.19	1.60	0.35	0.88	0.61
2250	Open	3.266	4.03	1.00	9.92	1.000	1.00	0.21	1.53	0.35	0.88	0.61
2500	Open	3.335	5.05	1.03	8.95	1.000	0.97	0.20	1.50	0.31	0.73	0.51
2750	Open	3.440	5.05	1.07	8.16	1.000	0.93	0.20	1.46	0.31	0.73	0.51
3000	Open	3.511	5.05	1.10	7.57	1.000	0.91	0.19	1.43	0.31	0.73	0.51

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115 kV 1/c Self Contained Liquid Filled Lead Sheathed Power Cable

Isolated Cable in Free Air

40°C Air Ambient

Condr Size	Sheath Res	No Sun 0 Ft/s	No Sun 2 Ft/s	Full Sun 0 Ft/s	Full Sun 2 Ft/s	delta Td for .0033 pf No Sun 0 Ft/s	delta Td for .0033 pf No Sun 2 Ft/s
		85°C - Aluminum Conductor - Hollow Core Concentric Strand					
350	Open	451	487	313	382	1.4	1.2
500	Open	552	594	381	464	1.5	1.2
750	Open	699	753	481	585	1.5	1.2
1000	Open	840	908	578	705	1.6	1.4
1250	Open	963	1040	660	804	1.7	1.4
1500	Open	1077	1163	737	897	1.7	1.4
1750	Open	1188	1282	811	985	1.7	1.4
2000	Open	1283	1384	875	1062	1.7	1.4
2250	Open	1371	1476	931	1128	1.8	1.5
		85°C - Aluminum Conductor - Hollow Core Segmental Strand					
2000	Open	1292	1393	881	1069	1.7	1.4
2250	Open	1386	1492	942	1141	1.8	1.5
2500	Open	1477	1590	1002	1213	1.8	1.5
2750	Open	1573	1693	1065	1288	1.8	1.5
3000	Open	1652	1777	1118	1351	1.8	1.5

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115 kV 1/c Self Contained Liquid Filled Lead Sheathed Power Cable

Isolated Cable in Free Air

40°C Air Ambient

Condr Size	Sheath Res	No Sun 0 Ft/s	No Sun 2 Ft/s	Full Sun 0 Ft/s	Full Sun 2 Ft/s
		Total Watts/ft			
85°C - Aluminum Conductor - Hollow Core Concentric Strand					
350	Open	13.3	15.4	6.7	9.7
500	Open	13.9	16.0	7.0	10.0
750	Open	14.9	17.2	7.4	10.7
1000	Open	16.3	18.9	8.1	11.7
1250	Open	17.2	19.9	8.5	12.2
1500	Open	18.0	20.8	8.9	12.7
1750	Open	18.9	21.8	9.3	13.3
2000	Open	19.4	22.4	9.5	13.6
2250	Open	20.0	23.1	9.8	13.9
85°C - Aluminum Conductor - Hollow Core Segmental Strand					
2000	Open	19.4	22.4	9.5	13.6
2250	Open	20.1	23.1	9.8	13.9
2500	Open	20.6	23.7	10.0	14.2
2750	Open	21.3	24.5	10.3	14.6
3000	Open	21.8	25.0	10.6	14.9

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115 kV 1/c Self Contained Liquid Filled Lead Sheathed Power Cable

Isolated Cable in Free Air

40°C Air Ambient

Condr Size	Sheath Res	OD	Duct ID	Wd	Rac	Qs	Ri	Rj	Rsd	Rd	Re No Sun 0 fps	Re Sun 2 fps
		85°C - Aluminum Conductor - Hollow Core Concentric Strand										
350	Open	2.360	9.99	0.56	62.55	1.000	1.78	0.21	0.00	0.00	1.44	0.98
500	Open	2.508	9.99	0.60	43.77	1.000	1.66	0.24	0.00	0.00	1.37	0.93
750	Open	2.651	9.99	0.65	29.22	1.000	1.52	0.23	0.00	0.00	1.30	0.90
1000	Open	2.683	9.99	0.77	21.96	1.000	1.30	0.22	0.00	0.00	1.27	0.89
1250	Open	2.800	9.99	0.82	17.62	1.000	1.22	0.21	0.00	0.00	1.22	0.86
1500	Open	2.918	9.99	0.87	14.75	1.000	1.15	0.21	0.00	0.00	1.17	0.83
1750	Open	3.045	9.99	0.92	12.72	1.000	1.09	0.20	0.00	0.00	1.13	0.80
2000	Open	3.116	9.99	0.95	11.20	1.000	1.05	0.19	0.00	0.00	1.10	0.79
2250	Open	3.266	9.99	1.00	10.14	1.000	1.00	0.21	0.00	0.00	1.06	0.76
		85°C - Aluminum Conductor - Hollow Core Segmental Strand										
2000	Open	3.113	9.99	0.95	11.03	1.000	1.05	0.19	0.00	0.00	1.11	0.79
2250	Open	3.266	9.99	1.00	9.92	1.000	1.00	0.21	0.00	0.00	1.06	0.76
2500	Open	3.335	9.99	1.03	8.95	1.000	0.97	0.20	0.00	0.00	1.04	0.75
2750	Open	3.440	9.99	1.07	8.16	1.000	0.93	0.20	0.00	0.00	1.01	0.73
3000	Open	3.511	9.99	1.10	7.57	1.000	0.91	0.19	0.00	0.00	0.99	0.72

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115 kV 1/c Self Contained Liquid Filled Lead Sheathed Power Cable

Isolated Cable in Non-Metallic Unventilated Riser in Air

40°C Air Ambient

Condr Size	Sheath Res	No Sun 0 Ft/s	No Sun 2 Ft/s	Full Sun 0 Ft/s	Full Sun 2 Ft/s	delta Td for .0033 pf No Sun 0 Ft/s	delta Td for .0033 pf No Sun 2 Ft/s
85°C - Aluminum Conductor - Hollow Core Concentric Strand							
350	Open	373	387	285	319	2.3	2.1
500	Open	454	471	347	389	2.3	2.2
750	Open	570	592	435	489	2.4	2.2
1000	Open	675	702	514	579	2.7	2.5
1250	Open	767	799	584	658	2.8	2.6
1500	Open	852	888	648	732	2.9	2.7
1750	Open	932	973	709	801	3.0	2.7
2000	Open	1002	1046	762	862	3.0	2.8
2250	Open	1065	1113	810	916	3.1	2.8
85°C - Aluminum Conductor - Hollow Core Segmental Strand							
2000	Open	1009	1054	768	868	3.0	2.8
2250	Open	1077	1125	819	926	3.1	2.8
2500	Open	1181	1224	897	997	3.0	2.7
2750	Open	1251	1298	951	1057	3.0	2.8
3000	Open	1309	1358	995	1106	3.1	2.8

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115 kV 1/c Self Contained Liquid Filled Lead Sheathed Power Cable

Isolated Cable in Non-Metallic Unventilated Riser in Air

40°C Air Ambient

Condr Size	Sheath Res	No Sun 0 Ft/s	No Sun 2 Ft/s	Full Sun 0 Ft/s	Full Sun 2 Ft/s
		Total Watts/ft			
85°C - Aluminum Conductor - Hollow Core Concentric Strand					
350	Open	9.3	9.9	5.6	6.9
500	Open	9.6	10.3	5.9	7.2
750	Open	10.1	10.9	6.2	7.6
1000	Open	10.8	11.6	6.6	8.1
1250	Open	11.2	12.1	6.8	8.4
1500	Open	11.6	12.5	7.1	8.8
1750	Open	12.0	13.0	7.3	9.1
2000	Open	12.2	13.2	7.5	9.3
2250	Open	12.5	13.6	7.6	9.5
85°C - Aluminum Conductor - Hollow Core Segmental Strand					
2000	Open	12.2	13.2	7.5	9.3
2250	Open	12.5	13.6	7.7	9.5
2500	Open	13.5	14.4	8.2	9.9
2750	Open	13.8	14.8	8.4	10.2
3000	Open	14.1	15.1	8.6	10.4

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115 kV 1/c Self Contained Liquid Filled Lead Sheathed Power Cable

Isolated Cable in Non-Metallic Unventilated Riser in Air

40°C Air Ambient

Condr Size	Sheath Res	OD	Duct ID	Wd	Rac	Qs	Ri	Rj	Rsd	Rd	Re No Sun 0 fps	Re No Sun 2 fps
		85°C - Aluminum Conductor - Hollow Core Concentric Strand										
350	Open	2.360	4.03	0.56	62.55	1.000	1.78	0.21	1.65	0.35	0.92	0.61
500	Open	2.508	4.03	0.60	43.77	1.000	1.66	0.24	1.56	0.35	0.92	0.61
750	Open	2.651	4.03	0.65	29.22	1.000	1.52	0.23	1.48	0.35	0.91	0.61
1000	Open	2.683	4.03	0.77	21.96	1.000	1.30	0.22	1.45	0.35	0.90	0.61
1250	Open	2.800	4.03	0.82	17.62	1.000	1.22	0.21	1.39	0.35	0.90	0.61
1500	Open	2.918	4.03	0.87	14.75	1.000	1.15	0.21	1.33	0.35	0.90	0.61
1750	Open	3.045	4.03	0.92	12.72	1.000	1.09	0.20	1.28	0.35	0.89	0.60
2000	Open	3.116	4.03	0.95	11.20	1.000	1.05	0.19	1.25	0.35	0.89	0.60
2250	Open	3.266	4.03	1.00	10.14	1.000	1.00	0.21	1.19	0.35	0.89	0.60
		85°C - Aluminum Conductor - Hollow Core Segmental Strand										
2000	Open	3.113	4.03	0.95	11.03	1.000	1.05	0.19	1.25	0.35	0.89	0.60
2250	Open	3.266	4.03	1.00	9.92	1.000	1.00	0.21	1.19	0.35	0.89	0.60
2500	Open	3.335	5.05	1.03	8.95	1.000	0.97	0.20	1.16	0.31	0.73	0.51
2750	Open	3.440	5.05	1.07	8.16	1.000	0.93	0.20	1.12	0.31	0.73	0.51
3000	Open	3.511	5.05	1.10	7.57	1.000	0.91	0.19	1.10	0.31	0.73	0.51

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