500 kV 1/c Self Contained Liquid Filled Aluminum 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 .0024 pf & Rho 60	delta Td for .0024 pf & Rho 90	delta Td for .0024 pf & Rho 120
		85°C - Copper Conductor - Hollow Core Concentric Strand								
2000	Open	935	873	808	733	683	609	25.7	31.4	37.2
2250	Open	979	912	835	760	703	627	26.2	32.2	38.3
		85°C - Copper Conductor - Hollow Core Segmental Strand								
2000	Open	948	885	815	743	692	619	25.7	31.4	37.2
2250	Open	994	927	848	772	710	637	26.2	32.2	38.3
2500	Open	1032	960	867	787	713	634	27.7	34.2	40.7
2750	Open	1072	995	894	810	722	645	28.3	34.9	41.6
3000	Open	1135	1050	942	851	758	675	27.9	34.6	41.5

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2690

500 kV 1/c Self Contained Liquid Filled Aluminum 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							
2000	Open	37.0	34.4	31.8	29.1	27.5	25.2
2250	Open	37.9	35.1	32.2	29.7	27.9	25.7
85°C - Copper Conductor - Hollow Core Segmental Strand							
2000	Open	37.0	34.4	31.7	29.1	27.4	25.2
2250	Open	37.9	35.2	32.2	29.7	27.7	25.7
2500	Open	38.8	36.1	32.8	30.3	28.2	26.2
2750	Open	39.6	36.7	33.3	30.8	28.4	26.5
3000	Open	41.3	38.2	34.5	31.8	29.2	27.2

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500 kV 1/c Self Contained Liquid Filled Aluminum 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							
2000	Open	5.156	6.13	5.51	7.11	1.120	2.63	0.13	0.85	0.20	2.04	3.21
2250	Open	5.266	6.13	5.73	6.46	1.138	2.52	0.13	0.83	0.20	2.04	3.21
					85°C - Copper Conductor - Hollow Core Segmental Strand							
2000	Open	5.153	6.13	5.51	6.90	1.123	2.63	0.13	0.85	0.20	2.04	3.21
2250	Open	5.266	6.13	5.73	6.25	1.143	2.52	0.13	0.83	0.20	2.04	3.21
2500	Open	5.155	6.13	6.15	5.69	1.150	2.35	0.13	0.84	0.20	2.04	3.21
2750	Open	5.250	6.13	6.35	5.23	1.169	2.28	0.13	0.82	0.20	2.04	3.21
3000	Open	5.321	8.13	6.50	4.89	1.184	2.23	0.13	0.81	0.15	1.95	3.13

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500 kV 1/c Self Contained Liquid Filled Aluminum 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 .0024 pf & Rho 60	90	120
85°C - Copper Conductor - Hollow Core Concentric Strand										
2000	Open	707	634	453	395	0	0	36.2	48.1	60.0
2250	Open	729	652	446	388	0	0	37.2	49.6	62.0
85°C - Copper Conductor - Hollow Core Segmental Strand										
2000	Open	717	643	460	401	9	8	36.1	48.0	60.0
2250	Open	741	662	453	394	0	0	37.2	49.6	62.0
2500	Open	744	664	397	345	0	0	39.5	52.8	66.0
2750	Open	760	677	374	324	0	0	40.4	54.1	67.8
3000	Open	799	708	384	332	0	0	40.3	54.3	68.3

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500 kV 1/c Self Contained Liquid Filled Aluminum 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							
2000	Open	56.6	52.0	42.7	40.4	33.1	33.1
2250	Open	57.5	52.8	43.0	40.9	34.4	34.4
85°C - Copper Conductor - Hollow Core Segmental Strand							
2000	Open	56.6	52.0	42.7	40.4	33.0	33.0
2250	Open	57.5	52.9	43.0	40.9	34.4	34.4
2500	Open	58.3	53.9	43.0	41.5	36.9	36.9
2750	Open	58.9	54.6	43.2	41.9	38.1	38.1
3000	Open	60.8	56.1	44.0	42.8	39.0	39.0

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500 kV 1/c Self Contained Liquid Filled Aluminum 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							
2000	Open	5.156	6.13	5.51	7.11	1.096	2.63	0.13	0.80	0.20	3.94	6.28
2250	Open	5.266	6.13	5.73	6.46	1.111	2.52	0.13	0.78	0.20	3.94	6.28
					85°C - Copper Conductor - Hollow Core Segmental Strand							
2000	Open	5.153	6.13	5.51	6.90	1.099	2.63	0.13	0.80	0.20	3.94	6.28
2250	Open	5.266	6.13	5.73	6.25	1.115	2.52	0.13	0.78	0.20	3.94	6.28
2500	Open	5.155	6.13	6.15	5.69	1.120	2.35	0.13	0.79	0.20	3.94	6.28
2750	Open	5.250	6.13	6.35	5.23	1.136	2.28	0.13	0.78	0.20	3.94	6.28
3000	Open	5.321	8.13	6.50	4.89	1.151	2.23	0.13	0.77	0.15	3.86	6.20

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500 kV 1/c Self Contained Liquid Filled Aluminum 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 .0024 pf & Rho 60	90	120
				75% LF						
		85°C - Copper Conductor - Hollow Core Concentric Strand								
2000	Open	1132	60 12.3	963	67 10.0	816	72 8.4	19.9	25.9	31.9
2250	Open	1191	60 12.5	1006	67 10.1	846	73 8.3	20.4	26.6	32.8
		85°C - Copper Conductor - Hollow Core Segmental Strand								
2000	Open	1147	60 12.3	976	67 10.0	827	72 8.4	19.9	25.9	31.9
2250	Open	1210	60 12.5	1022	68 10.1	859	73 8.3	20.4	26.6	32.8
2500	Open	1273	62 13.3	1061	69 10.6	877	74 8.7	21.4	28.1	34.8
2750	Open	1329	62 13.4	1100	70 10.6	902	75 8.7	21.8	28.7	35.6
3000	Open	1373	63 13.5	1131	70 10.7	921	75 8.6	22.1	29.1	36.2

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500 kV 1/c Self Contained Liquid Filled Aluminum 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 .0024 pf & Rho 60	90	120
						100% LF							
						85°C - Copper Conductor - Hollow Core Concentric Strand							
2000	Open	1037	64	11.0	861	70	8.8	716	75	7.3	19.9	25.9	31.9
2250	Open	1088	65	11.1	897	71	8.8	741	76	7.4	20.4	26.6	32.8
						85°C - Copper Conductor - Hollow Core Segmental Strand							
2000	Open	1051	64	11.0	872	70	8.8	726	75	7.4	19.9	25.9	31.9
2250	Open	1105	65	11.1	911	71	8.8	752	76	7.4	20.4	26.6	32.8
2500	Open	1159	66	11.8	942	72	9.3	764	77	7.7	21.4	28.1	34.8
2750	Open	1206	66	11.9	974	73	9.3	784	77	7.6	21.8	28.7	35.6
3000	Open	1244	67	11.9	1000	73	9.3	800	78	7.7	22.1	29.1	36.2

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500 kV 1/c Self Contained Liquid Filled Aluminum 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							
2000	Open	46.8	41.9	38.4	34.1	32.3	28.6
2250	Open	48.1	43.0	39.3	34.7	32.8	29.2
85°C - Copper Conductor - Hollow Core Segmental Strand							
2000	Open	46.8	42.0	38.5	34.0	32.3	28.7
2250	Open	48.2	43.0	39.3	34.8	32.8	29.2
2500	Open	49.8	44.5	40.3	35.6	33.4	29.8
2750	Open	51.0	45.4	40.9	36.2	33.8	30.2
3000	Open	51.8	46.0	41.4	36.7	34.0	30.5

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2698

500 kV 1/c Self Contained Liquid Filled Aluminum 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						
2000	Open	5.156	5.51	7.11	1.140	2.63	0.13	2.11	3.26
2250	Open	5.266	5.73	6.46	1.161	2.52	0.13	2.10	3.25
			85°C - Copper Conductor - Hollow Core Segmental Strand						
2000	Open	5.153	5.51	6.90	1.144	2.63	0.13	2.11	3.26
2250	Open	5.266	5.73	6.25	1.166	2.52	0.13	2.10	3.25
2500	Open	5.155	6.15	5.69	1.175	2.35	0.13	2.11	3.26
2750	Open	5.250	6.35	5.23	1.197	2.28	0.13	2.10	3.25
3000	Open	5.321	6.50	4.89	1.217	2.23	0.13	2.09	3.25

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500 kV 1/c Self Contained Liquid Filled Aluminum 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 .0024 pf & Rho 60	90	120
		°C	w/ft²		°C	w/ft²		°C	w/ft²				
						75% LF							
		85°C - Copper Conductor - Hollow Core Concentric Strand											
2000	Open	64	11.1	1036	71	8.7	841	76	7.0	670	23.1	30.7	38.3
2250	Open	65	11.2	1085	72	8.7	873	77	7.0	686	23.7	31.5	39.4
		85°C - Copper Conductor - Hollow Core Segmental Strand											
2000	Open	64	11.1	1050	71	8.7	853	76	7.0	679	23.1	30.7	38.2
2250	Open	65	11.2	1102	72	8.8	886	77	7.0	696	23.7	31.5	39.4
2500	Open	66	11.9	1152	73	9.1	908	78	7.2	691	25.0	33.4	41.9
2750	Open	67	11.9	1197	74	9.1	935	79	7.1	699	25.5	34.2	42.9
3000	Open	67	12.1	1233	74	9.1	956	79	7.1	706	25.9	34.8	43.7

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2700

500 kV 1/c Self Contained Liquid Filled Aluminum 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 .0024 pf & Rho 60	90	120
		°C	w/ft²	Amps	°C	w/ft²	Amps	°C	w/ft²	Amps			
					100% LF								
					85°C - Copper Conductor - Hollow Core Concentric Strand								
2000	Open	934	68	9.8	740	74	7.7	580	78	6.3	23.1	30.7	38.3
2250	Open	976	69	9.9	766	75	7.7	591	79	6.2	23.7	31.5	39.4
					85°C - Copper Conductor - Hollow Core Segmental Strand								
2000	Open	947	68	9.9	750	74	7.7	588	78	6.3	23.1	30.7	38.2
2250	Open	991	69	9.9	778	75	7.7	600	79	6.2	23.7	31.5	39.4
2500	Open	1032	70	10.4	794	76	8.0	593	80	6.5	25.0	33.4	41.9
2750	Open	1069	70	10.5	815	77	8.0	599	80	6.5	25.5	34.2	42.9
3000	Open	1099	71	10.6	831	77	8.0	604	81	6.5	25.9	34.8	43.7

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500 kV 1/c Self Contained Liquid Filled Aluminum 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 - Copper Conductor - Hollow Core Concentric Strand							
2000	Open	84.7	75.0	67.1	59.4	54.6	49.2
2250	Open	86.7	76.7	68.2	60.5	55.3	49.9
85°C - Copper Conductor - Hollow Core Segmental Strand							
2000	Open	84.6	75.0	67.1	59.4	54.6	49.2
2250	Open	86.8	76.8	68.3	60.5	55.3	49.9
2500	Open	89.4	79.0	69.5	61.8	55.8	50.8
2750	Open	91.1	80.4	70.4	62.7	56.2	51.4
3000	Open	92.4	81.5	71.1	63.3	56.5	51.8

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2702

500 kV 1/c Self Contained Liquid Filled Aluminum 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%
			85°C - Copper Conductor - Hollow Core Concentric Strand						
2000	Open	5.156	5.51	7.11	1.155	2.63	0.13	2.64	4.13
2250	Open	5.266	5.73	6.46	1.178	2.52	0.13	2.63	4.12
			85°C - Copper Conductor - Hollow Core Segmental Strand						
2000	Open	5.153	5.51	6.90	1.159	2.63	0.13	2.64	4.13
2250	Open	5.266	5.73	6.25	1.184	2.52	0.13	2.63	4.12
2500	Open	5.155	6.15	5.69	1.193	2.35	0.13	2.64	4.13
2750	Open	5.250	6.35	5.23	1.218	2.28	0.13	2.63	4.12
3000	Open	5.321	6.50	4.89	1.239	2.23	0.13	2.63	4.11

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500 kV 1/c Self Contained Liquid Filled Aluminum 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 .0024 pf No Sun 0 Ft/s	delta Td for .0024 pf No Sun 2 Ft/s
		85°C - Copper Conductor - Hollow Core Concentric Strand					
2000	Open	887	922	166	447	18.8	17.8
2250	Open	934	972	147	464	19.1	18.1
		85°C - Copper Conductor - Hollow Core Segmental Strand					
2000	Open	897	933	169	453	18.8	17.8
2250	Open	951	989	150	473	19.1	18.1
2500	Open	995	1038	0	466	20.1	19.0
2750	Open	1044	1090	0	480	20.4	19.2
3000	Open	1126	1165	0	482	19.6	18.7

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2704

500 kV 1/c Self Contained Liquid Filled Aluminum 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					
2000	Open	33.2	34.5	17.1	20.8
2250	Open	34.1	35.5	17.6	21.4
85°C - Copper Conductor - Hollow Core Segmental Strand					
2000	Open	33.1	34.5	17.1	20.8
2250	Open	34.1	35.5	17.6	21.4
2500	Open	35.3	36.8	18.5	22.2
2750	Open	36.1	37.6	19.1	22.7
3000	Open	38.0	39.3	19.5	22.9

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500 kV 1/c Self Contained Liquid Filled Aluminum 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 - Copper Conductor - Hollow Core Concentric Strand							
2000	Open	5.156	6.07	5.51	7.05	1.000	2.63	0.13	1.05	0.28	0.64	0.45
2250	Open	5.266	6.07	5.73	6.46	1.000	2.52	0.13	1.03	0.28	0.64	0.45
					85°C - Copper Conductor - Hollow Core Segmental Strand							
2000	Open	5.153	6.07	5.51	6.88	1.000	2.63	0.13	1.05	0.28	0.64	0.45
2250	Open	5.266	6.07	5.73	6.23	1.000	2.52	0.13	1.03	0.28	0.64	0.45
2500	Open	5.155	6.07	6.15	5.66	1.000	2.35	0.13	1.05	0.28	0.64	0.45
2750	Open	5.250	6.07	6.35	5.20	1.000	2.28	0.13	1.03	0.28	0.63	0.45
3000	Open	5.321	7.98	6.50	4.86	1.000	2.23	0.13	1.02	0.24	0.50	0.36

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500 kV 1/c Self Contained Liquid Filled Aluminum 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 .0024 pf No Sun 0 Ft/s	delta Td for .0024 pf No Sun 2 Ft/s
85°C - Copper Conductor - Hollow Core Concentric Strand							
2000	Open	1147	1208	568	773	12.2	11.0
2250	Open	1218	1283	599	817	12.3	11.1
85°C - Copper Conductor - Hollow Core Segmental Strand							
2000	Open	1160	1222	575	782	12.2	11.0
2250	Open	1240	1306	610	832	12.3	11.1
2500	Open	1323	1398	641	887	12.8	11.4
2750	Open	1398	1478	675	934	12.8	11.5
3000	Open	1460	1543	702	973	12.9	11.5

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500 kV 1/c Self Contained Liquid Filled Aluminum 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					
2000	Open	14.8	15.8	7.8	9.7
2250	Open	15.3	16.4	8.0	10.0
85°C - Copper Conductor - Hollow Core Segmental Strand					
2000	Open	14.8	15.8	7.8	9.7
2250	Open	15.3	16.4	8.0	10.0
2500	Open	16.1	17.2	8.5	10.6
2750	Open	16.5	17.7	8.7	10.9
3000	Open	16.9	18.1	8.9	11.1

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2708

500 kV 1/c Self Contained Liquid Filled Aluminum 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 No Sun 2 fps
					85°C - Copper Conductor - Hollow Core Concentric Strand							
2000	Open	5.156	9.99	5.51	7.05	1.000	2.63	0.13	0.00	0.00	0.78	0.55
2250	Open	5.266	9.99	5.73	6.46	1.000	2.52	0.13	0.00	0.00	0.76	0.54
					85°C - Copper Conductor - Hollow Core Segmental Strand							
2000	Open	5.153	9.99	5.51	6.88	1.000	2.63	0.13	0.00	0.00	0.78	0.55
2250	Open	5.266	9.99	5.73	6.23	1.000	2.52	0.13	0.00	0.00	0.76	0.54
2500	Open	5.155	9.99	6.15	5.66	1.000	2.35	0.13	0.00	0.00	0.77	0.55
2750	Open	5.250	9.99	6.35	5.20	1.000	2.28	0.13	0.00	0.00	0.76	0.54
3000	Open	5.321	9.99	6.50	4.86	1.000	2.23	0.13	0.00	0.00	0.75	0.54

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500 kV 1/c Self Contained Liquid Filled Aluminum 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 .0024 pf No Sun 0 Ft/s	delta Td for .0024 pf No Sun 2 Ft/s
85°C - Copper Conductor - Hollow Core Concentric Strand							
2000	Open	928	965	552	673	17.6	16.6
2250	Open	978	1018	578	707	17.9	16.8
85°C - Copper Conductor - Hollow Core Segmental Strand							
2000	Open	939	976	559	681	17.6	16.6
2250	Open	996	1037	588	720	17.9	16.8
2500	Open	1048	1093	600	747	18.7	17.6
2750	Open	1100	1149	625	782	19.0	17.9
3000	Open	1194	1233	697	825	18.0	17.2

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2710

500 kV 1/c Self Contained Liquid Filled Aluminum 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					
2000	Open	11.6	12.1	7.7	8.7
2250	Open	11.9	12.4	7.9	9.0
85°C - Copper Conductor - Hollow Core Segmental Strand					
2000	Open	11.6	12.1	7.7	8.7
2250	Open	11.9	12.4	7.9	9.0
2500	Open	12.4	12.9	8.2	9.3
2750	Open	12.6	13.2	8.4	9.5
3000	Open	13.4	13.9	8.9	9.8

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500 kV 1/c Self Contained Liquid Filled Aluminum 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										
2000	Open	5.156	6.07	5.51	7.05	1.000	2.63	0.13	0.84	0.28	0.64	0.45
2250	Open	5.266	6.07	5.73	6.46	1.000	2.52	0.13	0.82	0.28	0.63	0.45
		85°C - Copper Conductor - Hollow Core Segmental Strand										
2000	Open	5.153	6.07	5.51	6.88	1.000	2.63	0.13	0.84	0.28	0.64	0.45
2250	Open	5.266	6.07	5.73	6.23	1.000	2.52	0.13	0.82	0.28	0.63	0.45
2500	Open	5.155	6.07	6.15	5.66	1.000	2.35	0.13	0.83	0.28	0.63	0.45
2750	Open	5.250	6.07	6.35	5.20	1.000	2.28	0.13	0.82	0.28	0.63	0.45
3000	Open	5.321	7.98	6.50	4.86	1.000	2.23	0.13	0.80	0.24	0.49	0.36

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2712

500 kV 1/c Self Contained Liquid Filled Aluminum 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 .0024 pf & Rho 60	90	120
		85°C - Aluminum Conductor - Hollow Core Concentric Strand								
2000	Open	752	703	647	591	548	491	25.7	31.4	37.2
2250	Open	791	738	676	616	567	506	26.3	32.3	38.3
		85°C - Aluminum Conductor - Hollow Core Segmental Strand								
2000	Open	758	708	652	595	552	495	25.7	31.4	37.2
2250	Open	799	747	682	622	572	511	26.3	32.3	38.3
2500	Open	833	776	701	637	574	511	27.8	34.2	40.6
2750	Open	876	812	729	659	589	523	28.3	34.9	41.6
3000	Open	932	861	773	696	621	550	27.9	34.7	41.5

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500 kV 1/c Self Contained Liquid Filled Aluminum 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							
2000	Open	36.8	34.2	31.5	29.0	27.3	25.2
2250	Open	37.6	34.9	32.1	29.6	27.7	25.5
85°C - Aluminum Conductor - Hollow Core Segmental Strand							
2000	Open	36.8	34.2	31.5	29.0	27.3	25.2
2250	Open	37.6	35.0	32.1	29.6	27.7	25.5
2500	Open	38.6	35.9	32.7	30.2	28.0	26.0
2750	Open	39.5	36.7	33.2	30.6	28.3	26.4
3000	Open	41.2	38.0	34.4	31.6	29.1	27.1

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2714

500 kV 1/c Self Contained Liquid Filled Aluminum 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										
2000	Open	5.156	6.13	5.51	11.22	1.076	2.63	0.13	0.85	0.20	2.04	3.21
2250	Open	5.266	6.13	5.73	10.14	1.088	2.52	0.13	0.83	0.20	2.04	3.21
		85°C - Aluminum Conductor - Hollow Core Segmental Strand										
2000	Open	5.153	6.13	5.51	11.05	1.077	2.63	0.13	0.85	0.20	2.04	3.21
2250	Open	5.266	6.13	5.73	9.93	1.090	2.52	0.13	0.83	0.20	2.04	3.21
2500	Open	5.155	6.13	6.15	8.96	1.095	2.35	0.13	0.84	0.20	2.04	3.21
2750	Open	5.250	6.13	6.35	8.17	1.108	2.28	0.13	0.82	0.20	2.04	3.21
3000	Open	5.321	8.13	6.50	7.58	1.119	2.23	0.13	0.82	0.15	1.95	3.13

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500 kV 1/c Self Contained Liquid Filled Aluminum 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 .0024 pf & Rho 60	90	120
85°C - Aluminum Conductor - Hollow Core Concentric Strand										
2000	Open	568	510	364	318	0	0	36.2	48.1	60.0
2250	Open	588	527	360	314	0	0	37.2	49.6	62.0
85°C - Aluminum Conductor - Hollow Core Segmental Strand										
2000	Open	572	514	368	321	7	6	36.1	48.0	60.0
2250	Open	594	533	364	317	0	0	37.2	49.6	62.0
2500	Open	600	536	321	279	0	0	39.5	52.8	66.0
2750	Open	616	550	304	264	0	0	40.4	54.1	67.8
3000	Open	651	579	314	271	0	0	40.3	54.3	68.3

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2716

500 kV 1/c Self Contained Liquid Filled Aluminum Sheathed Power Cable

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

25°C Earth Ambient

		60 Rho		90 Rho		120 Rho	
		75 LF	100 LF	75 LF	100 LF	75 LF	100 LF
Condr Size	Sheath Res	Total Watts/ft					
85°C - Aluminum Conductor - Hollow Core Concentric Strand							
2000	Open	56.2	51.7	42.6	40.3	33.1	33.1
2250	Open	57.0	52.6	42.9	40.8	34.4	34.4
85°C - Aluminum Conductor - Hollow Core Segmental Strand							
2000	Open	56.2	51.7	42.6	40.3	33.0	33.0
2250	Open	57.1	52.6	42.9	40.8	34.4	34.4
2500	Open	57.9	53.6	42.9	41.5	36.9	36.9
2750	Open	58.5	54.3	43.1	41.9	38.1	38.1
3000	Open	60.3	55.8	44.0	42.7	39.0	39.0

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500 kV 1/c Self Contained Liquid Filled Aluminum 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										
2000	Open	5.156	6.13	5.51	11.22	1.061	2.63	0.13	0.80	0.20	3.94	6.28
2250	Open	5.266	6.13	5.73	10.14	1.071	2.52	0.13	0.78	0.20	3.94	6.28
		85°C - Aluminum Conductor - Hollow Core Segmental Strand										
2000	Open	5.153	6.13	5.51	11.05	1.062	2.63	0.13	0.80	0.20	3.94	6.28
2250	Open	5.266	6.13	5.73	9.93	1.072	2.52	0.13	0.78	0.20	3.94	6.28
2500	Open	5.155	6.13	6.15	8.96	1.076	2.35	0.13	0.79	0.20	3.94	6.28
2750	Open	5.250	6.13	6.35	8.17	1.087	2.28	0.13	0.78	0.20	3.94	6.28
3000	Open	5.321	8.13	6.50	7.58	1.097	2.23	0.13	0.77	0.15	3.86	6.20

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2718

500 kV 1/c Self Contained Liquid Filled Aluminum 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 .0024 pf & Rho 60	90	120
						75% LF							
						85°C - Aluminum Conductor - Hollow Core Concentric Strand							
2000	Open	909	59	11.9	775	66	9.8	657	72	8.1	19.9	25.9	31.9
2250	Open	961	60	12.0	814	67	9.8	685	72	8.1	20.4	26.6	32.8
						85°C - Aluminum Conductor - Hollow Core Segmental Strand							
2000	Open	916	59	11.9	781	66	9.8	663	72	8.2	19.9	25.9	31.9
2250	Open	971	60	12.0	822	67	9.8	692	72	8.2	20.4	26.6	32.8
2500	Open	1027	61	12.7	858	69	10.3	710	74	8.4	21.4	28.1	34.8
2750	Open	1077	62	12.9	894	69	10.3	734	74	8.4	21.8	28.7	35.6
3000	Open	1119	62	13.0	925	70	10.3	755	75	8.5	22.1	29.1	36.2

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500 kV 1/c Self Contained Liquid Filled Aluminum 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	90 Rho Interface Temp	90 Rho Flux	120 Rho Interface Temp	120 Rho Flux	delta Td for .0024 pf & Rho 60	90	120
		Amps	°C w/ft²	Amps	°C w/ft²	Amps	°C w/ft²			
100% LF										
85°C - Aluminum Conductor - Hollow Core Concentric Strand										
2000	Open	834	63 10.7	694	70 8.7	578	75 7.3	19.9	25.9	31.9
2250	Open	880	64 10.7	727	71 8.6	601	75 7.3	20.4	26.6	32.8
85°C - Aluminum Conductor - Hollow Core Segmental Strand										
2000	Open	841	63 10.7	699	70 8.7	583	75 7.3	19.9	25.9	31.9
2250	Open	888	64 10.7	734	71 8.6	607	75 7.3	20.4	26.6	32.8
2500	Open	936	65 11.4	763	72 9.1	620	76 7.6	21.4	28.1	34.8
2750	Open	980	66 11.4	794	73 9.1	640	77 7.6	21.8	28.7	35.6
3000	Open	1017	66 11.5	819	73 9.1	657	77 7.5	22.1	29.1	36.2

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2720

500 kV 1/c Self Contained Liquid Filled Aluminum 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 - Aluminum Conductor - Hollow Core Concentric Strand							
2000	Open	46.3	41.6	38.2	33.9	32.1	28.6
2250	Open	47.5	42.6	38.9	34.5	32.6	29.1
85°C - Aluminum Conductor - Hollow Core Segmental Strand							
2000	Open	46.3	41.6	38.1	33.8	32.1	28.6
2250	Open	47.6	42.6	39.0	34.5	32.6	29.1
2500	Open	49.3	44.0	40.0	35.5	33.2	29.7
2750	Open	50.3	44.9	40.6	36.0	33.6	30.1
3000	Open	51.1	45.6	41.1	36.4	33.9	30.4

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500 kV 1/c Self Contained Liquid Filled Aluminum 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 - Aluminum Conductor - Hollow Core Concentric Strand							
2000	Open	5.156	5.51	11.22	1.089	2.63	0.13	2.11	3.26
2250	Open	5.266	5.73	10.14	1.102	2.52	0.13	2.10	3.25
		85°C - Aluminum Conductor - Hollow Core Segmental Strand							
2000	Open	5.153	5.51	11.05	1.090	2.63	0.13	2.11	3.26
2250	Open	5.266	5.73	9.93	1.105	2.52	0.13	2.10	3.25
2500	Open	5.155	6.15	8.96	1.111	2.35	0.13	2.11	3.26
2750	Open	5.250	6.35	8.17	1.126	2.28	0.13	2.10	3.25
3000	Open	5.321	6.50	7.58	1.140	2.23	0.13	2.09	3.25

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2722

500 kV 1/c Self Contained Liquid Filled Aluminum Sheathed Power Cable

Direct Buried - 2 Circuits - Six Cables - Spaced

25°C Earth Ambient

Condr Size	Sheath Res	---- 60 Rho--- Interface Temp Amps °C	Flux w/ft²	---- 90 Rho--- Interface Temp Amps °C	Flux w/ft²	----120 Rho--- Interface Temp Amps °C	Flux w/ft²	delta Td for .0024 pf & Rho 60	90	120
				75% LF						
		85°C - Aluminum Conductor - Hollow Core Concentric Strand								
2000	Open	834	63 10.7	679	71 8.5	541	76 6.9	23.1	30.7	38.3
2250	Open	878	64 10.9	708	71 8.5	557	77 6.8	23.7	31.5	39.4
		85°C - Aluminum Conductor - Hollow Core Segmental Strand								
2000	Open	840	63 10.7	684	71 8.5	546	76 6.9	23.1	30.7	38.2
2250	Open	887	64 10.9	715	71 8.5	563	77 6.9	23.7	31.5	39.4
2500	Open	931	66 11.4	736	73 8.9	561	78 7.0	25.0	33.4	41.9
2750	Open	974	66 11.5	762	73 8.9	572	79 7.0	25.5	34.2	42.9
3000	Open	1008	67 11.6	784	74 8.8	580	79 7.0	25.9	34.8	43.7

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500 kV 1/c Self Contained Liquid Filled Aluminum 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 .0024 pf & Rho 60	90	120
						100% LF							
		85°C - Aluminum Conductor - Hollow Core Concentric Strand											
2000	Open	754	67	9.6	598	74	7.6	469	78	6.2	23.1	30.7	38.3
2250	Open	791	68	9.6	623	75	7.5	482	79	6.2	23.7	31.5	39.4
		85°C - Aluminum Conductor - Hollow Core Segmental Strand											
2000	Open	759	67	9.6	603	74	7.6	473	78	6.2	23.1	30.7	38.2
2250	Open	799	68	9.6	629	75	7.5	486	79	6.2	23.7	31.5	39.4
2500	Open	837	69	10.1	645	76	7.9	483	80	6.4	25.0	33.4	41.9
2750	Open	872	70	10.2	667	76	7.9	491	80	6.4	25.5	34.2	42.9
3000	Open	902	70	10.2	684	77	7.8	498	81	6.3	25.9	34.8	43.7

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500 kV 1/c Self Contained Liquid Filled Aluminum 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							
2000	Open	83.7	74.4	66.6	59.1	54.4	49.1
2250	Open	85.6	76.0	67.7	60.2	55.0	49.8
85°C - Aluminum Conductor - Hollow Core Segmental Strand							
2000	Open	83.6	74.3	66.6	59.1	54.4	49.1
2250	Open	85.7	76.0	67.7	60.2	55.1	49.8
2500	Open	88.2	78.4	69.0	61.5	55.5	50.7
2750	Open	90.0	79.7	69.9	62.4	56.0	51.3
3000	Open	91.1	80.7	70.5	63.0	56.3	51.7

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500 kV 1/c Self Contained Liquid Filled Aluminum 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							
2000	Open	5.156	5.51	11.22	1.098	2.63	0.13	2.64	4.13
2250	Open	5.266	5.73	10.14	1.113	2.52	0.13	2.63	4.12
		85°C - Aluminum Conductor - Hollow Core Segmental Strand							
2000	Open	5.153	5.51	11.05	1.100	2.63	0.13	2.64	4.13
2250	Open	5.266	5.73	9.93	1.116	2.52	0.13	2.63	4.12
2500	Open	5.155	6.15	8.96	1.123	2.35	0.13	2.64	4.13
2750	Open	5.250	6.35	8.17	1.140	2.28	0.13	2.63	4.12
3000	Open	5.321	6.50	7.58	1.154	2.23	0.13	2.63	4.11

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2726

500 kV 1/c Self Contained Liquid Filled Aluminum 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 .0024 pf No Sun 0 Ft/s	delta Td for .0024 pf No Sun 2 Ft/s
85°C - Aluminum Conductor - Hollow Core Concentric Strand							
2000	Open	704	731	132	355	18.8	17.8
2250	Open	746	776	118	371	19.1	18.1
85°C - Aluminum Conductor - Hollow Core Segmental Strand							
2000	Open	709	737	134	358	18.8	17.8
2250	Open	754	784	119	375	19.1	18.1
2500	Open	791	825	0	370	20.1	19.0
2750	Open	834	870	0	384	20.4	19.2
3000	Open	903	934	0	386	19.6	18.7

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500 kV 1/c Self Contained Liquid Filled Aluminum 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					
2000	Open	33.2	34.5	17.1	20.8
2250	Open	34.1	35.5	17.6	21.4
85°C - Aluminum Conductor - Hollow Core Segmental Strand					
2000	Open	33.2	34.5	17.1	20.8
2250	Open	34.1	35.5	17.6	21.4
2500	Open	35.3	36.7	18.5	22.1
2750	Open	36.1	37.6	19.1	22.7
3000	Open	38.0	39.3	19.5	22.9

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2728

500 kV 1/c Self Contained Liquid Filled Aluminum 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										
2000	Open	5.156	6.07	5.51	11.20	1.000	2.63	0.13	1.05	0.28	0.64	0.45
2250	Open	5.266	6.07	5.73	10.14	1.000	2.52	0.13	1.03	0.28	0.64	0.45
		85°C - Aluminum Conductor - Hollow Core Segmental Strand										
2000	Open	5.153	6.07	5.51	11.03	1.000	2.63	0.13	1.05	0.28	0.64	0.45
2250	Open	5.266	6.07	5.73	9.92	1.000	2.52	0.13	1.03	0.28	0.64	0.45
2500	Open	5.155	6.07	6.15	8.95	1.000	2.35	0.13	1.05	0.28	0.64	0.45
2750	Open	5.250	6.07	6.35	8.16	1.000	2.28	0.13	1.03	0.28	0.63	0.45
3000	Open	5.321	7.98	6.50	7.57	1.000	2.23	0.13	1.02	0.24	0.50	0.36

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500 kV 1/c Self Contained Liquid Filled Aluminum 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 .0024 pf No Sun 0 Ft/s	delta Td for .0024 pf No Sun 2 Ft/s
		85°C - Aluminum Conductor - Hollow Core Concentric Strand					
2000	Open	910	958	451	613	12.2	11.0
2250	Open	972	1024	479	652	12.3	11.1
		85°C - Aluminum Conductor - Hollow Core Segmental Strand					
2000	Open	917	965	454	618	12.2	11.0
2250	Open	983	1035	484	659	12.3	11.1
2500	Open	1052	1112	510	706	12.8	11.4
2750	Open	1116	1180	539	746	12.8	11.5
3000	Open	1170	1237	563	780	12.9	11.5

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2730

500 kV 1/c Self Contained Liquid Filled Aluminum 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					
2000	Open	14.8	15.8	7.8	9.7
2250	Open	15.3	16.4	8.1	10.0
85°C - Aluminum Conductor - Hollow Core Segmental Strand					
2000	Open	14.8	15.8	7.8	9.7
2250	Open	15.3	16.4	8.1	10.0
2500	Open	16.1	17.2	8.5	10.6
2750	Open	16.5	17.7	8.7	10.9
3000	Open	16.9	18.1	8.9	11.1

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500 kV 1/c Self Contained Liquid Filled Aluminum 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 No Sun 2 fps
		85°C - Aluminum Conductor - Hollow Core Concentric Strand										
2000	Open	5.156	9.99	5.51	11.20	1.000	2.63	0.13	0.00	0.00	0.78	0.55
2250	Open	5.266	9.99	5.73	10.14	1.000	2.52	0.13	0.00	0.00	0.76	0.54
		85°C - Aluminum Conductor - Hollow Core Segmental Strand										
2000	Open	5.153	9.99	5.51	11.03	1.000	2.63	0.13	0.00	0.00	0.78	0.55
2250	Open	5.266	9.99	5.73	9.92	1.000	2.52	0.13	0.00	0.00	0.76	0.54
2500	Open	5.155	9.99	6.15	8.95	1.000	2.35	0.13	0.00	0.00	0.77	0.55
2750	Open	5.250	9.99	6.35	8.16	1.000	2.28	0.13	0.00	0.00	0.76	0.54
3000	Open	5.321	9.99	6.50	7.57	1.000	2.23	0.13	0.00	0.00	0.75	0.54

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2732

500 kV 1/c Self Contained Liquid Filled Aluminum 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 .0024 pf No Sun 0 Ft/s	delta Td for .0024 pf No Sun 2 Ft/s
		85°C - Aluminum Conductor - Hollow Core Concentric Strand					
2000	Open	737	766	438	534	17.6	16.6
2250	Open	781	813	461	565	17.9	16.8
		85°C - Aluminum Conductor - Hollow Core Segmental Strand					
2000	Open	742	771	442	538	17.6	16.6
2250	Open	790	822	466	571	17.9	16.8
2500	Open	834	870	477	595	18.7	17.6
2750	Open	879	918	499	625	19.0	17.9
3000	Open	957	988	559	661	18.0	17.2

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500 kV 1/c Self Contained Liquid Filled Aluminum 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					
2000	Open	11.6	12.1	7.7	8.7
2250	Open	11.9	12.4	7.9	9.0
85°C - Aluminum Conductor - Hollow Core Segmental Strand					
2000	Open	11.6	12.1	7.7	8.7
2250	Open	11.9	12.4	7.9	9.0
2500	Open	12.4	12.9	8.2	9.3
2750	Open	12.7	13.2	8.4	9.5
3000	Open	13.4	13.9	8.9	9.8

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2734

500 kV 1/c Self Contained Liquid Filled Aluminum 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										
2000	Open	5.156	6.07	5.51	11.20	1.000	2.63	0.13	0.84	0.28	0.64	0.45
2250	Open	5.266	6.07	5.73	10.14	1.000	2.52	0.13	0.82	0.28	0.63	0.45
		85°C - Aluminum Conductor - Hollow Core Segmental Strand										
2000	Open	5.153	6.07	5.51	11.03	1.000	2.63	0.13	0.84	0.28	0.64	0.45
2250	Open	5.266	6.07	5.73	9.92	1.000	2.52	0.13	0.82	0.28	0.63	0.45
2500	Open	5.155	6.07	6.15	8.95	1.000	2.35	0.13	0.83	0.28	0.63	0.45
2750	Open	5.250	6.07	6.35	8.16	1.000	2.28	0.13	0.82	0.28	0.63	0.45
3000	Open	5.321	7.98	6.50	7.57	1.000	2.23	0.13	0.80	0.24	0.49	0.36

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