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345 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										
1000	Open	614	577	565	518	520	469	13.3	16.1	18.8
1250	Open	693	649	634	580	582	523	13.7	16.5	19.5
1500	Open	764	713	693	632	630	564	15.2	18.5	21.8
1750	Open	827	772	748	681	678	605	15.6	19.1	22.5
2000	Open	886	824	798	725	720	643	15.9	19.4	23.0
2250	Open	949	880	849	769	763	680	16.0	19.7	23.4
85°C - Aluminum Conductor - Hollow Core Segmental Strand										
2000	Open	892	830	804	730	725	648	15.9	19.4	23.0
2250	Open	959	889	858	777	771	686	16.0	19.7	23.4
2500	Open	1008	935	902	816	809	720	16.2	20.0	23.9
2750	Open	1058	980	944	855	843	748	16.5	20.5	24.5
3000	Open	1100	1017	978	885	872	772	16.8	20.9	24.9

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345 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							
1000	Open	33.2	30.2	29.3	25.9	26.0	22.7
1250	Open	34.3	31.1	30.1	26.6	26.7	23.2
1500	Open	36.0	32.6	31.3	27.6	27.5	24.0
1750	Open	37.0	33.5	32.0	28.3	28.1	24.4
2000	Open	37.7	34.0	32.5	28.6	28.4	24.7
2250	Open	39.3	35.3	33.6	29.5	29.2	25.4
85°C - Aluminum Conductor - Hollow Core Segmental Strand							
2000	Open	37.7	34.0	32.5	28.6	28.4	24.7
2250	Open	39.4	35.4	33.7	29.5	29.2	25.4
2500	Open	39.8	35.8	34.1	29.9	29.5	25.7
2750	Open	40.6	36.4	34.6	30.4	29.9	26.0
3000	Open	41.1	36.8	34.9	30.7	30.2	26.2

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345 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							
1000	Open	4.093	5.06	2.64	21.96	1.015	2.63	0.16	1.08	0.24	2.11	3.30
1250	Open	4.220	5.06	2.78	17.62	1.030	2.49	0.16	1.04	0.24	2.09	3.30
1500	Open	4.088	5.06	3.17	14.76	1.032	2.20	0.17	1.07	0.24	2.09	3.30
1750	Open	4.215	5.06	3.32	12.73	1.041	2.09	0.16	1.03	0.24	2.09	3.27
2000	Open	4.286	5.06	3.42	11.22	1.049	2.03	0.16	1.01	0.24	2.09	3.27
2250	Open	4.396	6.13	3.57	10.14	1.057	1.95	0.15	0.99	0.20	2.04	3.21
					85°C - Aluminum Conductor - Hollow Core Segmental Strand							
2000	Open	4.283	5.06	3.42	11.05	1.049	2.04	0.16	1.01	0.24	2.09	3.27
2250	Open	4.396	6.13	3.57	9.93	1.058	1.95	0.15	0.99	0.20	2.04	3.21
2500	Open	4.475	6.13	3.66	8.96	1.068	1.90	0.15	0.97	0.20	2.04	3.21
2750	Open	4.570	6.13	3.79	8.17	1.079	1.83	0.15	0.95	0.20	2.04	3.21
3000	Open	4.641	6.13	3.88	7.58	1.088	1.79	0.15	0.93	0.20	2.04	3.21

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345 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										
1000	Open	528	478	448	395	381	329	18.3	24.0	29.7
1250	Open	592	534	498	437	419	361	19.0	25.0	31.0
1500	Open	642	577	529	463	432	371	21.2	28.0	34.9
1750	Open	691	619	563	492	454	389	21.9	29.1	36.3
2000	Open	735	658	595	519	475	407	22.4	29.8	37.2
2250	Open	781	697	627	544	494	421	22.8	30.5	38.2
85°C - Aluminum Conductor - Hollow Core Segmental Strand										
2000	Open	741	663	600	523	480	410	22.4	29.8	37.2
2250	Open	789	703	633	549	498	425	22.8	30.5	38.2
2500	Open	829	738	660	572	515	439	23.2	31.1	39.0
2750	Open	865	769	683	591	526	447	23.8	32.0	40.2
3000	Open	895	794	702	607	534	454	24.2	32.6	41.0

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345 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 - Aluminum Conductor - Hollow Core Concentric Strand							
1000	Open	53.2	46.5	42.7	36.8	35.3	30.3
1250	Open	54.7	47.6	43.6	37.4	35.7	30.8
1500	Open	56.5	49.3	44.4	38.5	36.0	31.5
1750	Open	57.7	50.2	45.0	39.1	36.2	31.9
2000	Open	58.4	50.9	45.3	39.4	36.3	32.1
2250	Open	60.3	52.4	46.5	40.3	37.0	32.7
85°C - Aluminum Conductor - Hollow Core Segmental Strand							
2000	Open	58.4	50.8	45.3	39.4	36.4	32.1
2250	Open	60.4	52.3	46.5	40.3	36.9	32.7
2500	Open	61.1	52.9	46.7	40.6	37.0	32.9
2750	Open	61.9	53.7	47.1	41.0	37.2	33.2
3000	Open	62.5	54.1	47.4	41.3	37.2	33.4

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345 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							
1000	Open	4.093	5.06	2.64	21.96	1.017	2.63	0.16	1.03	0.24	4.00	6.34
1250	Open	4.220	5.06	2.78	17.62	1.023	2.49	0.16	0.99	0.24	4.00	6.34
1500	Open	4.088	5.06	3.17	14.76	1.025	2.20	0.17	1.02	0.24	4.00	6.34
1750	Open	4.215	5.06	3.32	12.73	1.032	2.09	0.16	0.98	0.24	4.00	6.34
2000	Open	4.286	5.06	3.42	11.22	1.037	2.03	0.16	0.96	0.24	4.00	6.34
2250	Open	4.396	6.13	3.57	10.14	1.045	1.95	0.15	0.94	0.20	3.94	6.28
					85°C - Aluminum Conductor - Hollow Core Segmental Strand							
2000	Open	4.283	5.06	3.42	11.05	1.038	2.04	0.16	0.96	0.24	4.00	6.34
2250	Open	4.396	6.13	3.57	9.93	1.045	1.95	0.15	0.94	0.20	3.94	6.28
2500	Open	4.475	6.13	3.66	8.96	1.053	1.90	0.15	0.92	0.20	3.94	6.28
2750	Open	4.570	6.13	3.79	8.17	1.062	1.83	0.15	0.90	0.20	3.94	6.28
3000	Open	4.641	6.13	3.88	7.58	1.069	1.79	0.15	0.88	0.20	3.94	6.28

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345 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							
1000	Open	726	53	13.7	651	59	11.5	589	64	9.9	9.8	12.8	15.8
1250	Open	821	53	13.8	733	60	11.6	661	65	9.9	10.1	13.3	16.4
1500	Open	919	56	15.2	811	62	12.5	724	67	10.6	11.1	14.7	18.2
1750	Open	999	56	15.4	878	63	12.6	780	68	10.5	11.4	15.2	18.9
2000	Open	1070	57	15.5	937	63	12.6	831	68	10.5	11.6	15.5	19.3
2250	Open	1134	57	15.6	989	64	12.6	874	69	10.5	11.9	15.9	19.9
						85°C - Aluminum Conductor - Hollow Core Segmental Strand							
2000	Open	1078	57	15.5	944	63	12.6	837	68	10.5	11.6	15.4	19.3
2250	Open	1145	57	15.6	999	64	12.6	882	69	10.5	11.9	15.9	19.9
2500	Open	1209	58	15.7	1053	65	12.6	927	69	10.5	12.1	16.2	20.3
2750	Open	1273	59	15.8	1104	65	12.7	969	70	10.4	12.4	16.6	20.8
3000	Open	1325	59	15.9	1146	66	12.7	1003	70	10.5	12.6	16.9	21.2

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345 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	60 Rho Interface Flux °C w/ft²	60 Rho Interface Flux	90 Rho Interface Temp Amps	90 Rho Interface Flux °C w/ft²	90 Rho Interface Flux	120 Rho Interface Temp Amps	120 Rho Interface Flux °C w/ft²	120 Rho Interface Flux	delta Td for .0024 pf & Rho 60	90	120
					100% LF								
					85°C - Aluminum Conductor - Hollow Core Concentric Strand								
1000	Open	669	58	11.9	586	64	9.8	522	68	8.2	9.8	12.8	15.8
1250	Open	754	58	12.0	658	65	9.8	583	69	8.2	10.1	13.3	16.4
1500	Open	840	60	13.3	724	67	10.6	635	71	8.8	11.1	14.7	18.2
1750	Open	910	61	13.2	781	67	10.6	682	72	8.8	11.4	15.2	18.9
2000	Open	973	62	13.4	832	68	10.6	725	72	8.7	11.6	15.5	19.3
2250	Open	1028	62	13.4	876	69	10.5	760	73	8.7	11.9	15.9	19.9
					85°C - Aluminum Conductor - Hollow Core Segmental Strand								
2000	Open	980	62	13.4	838	68	10.6	730	72	8.7	11.6	15.4	19.3
2250	Open	1039	62	13.4	885	69	10.6	768	73	8.7	11.9	15.9	19.9
2500	Open	1095	63	13.4	930	69	10.6	805	73	8.7	12.1	16.2	20.3
2750	Open	1149	63	13.5	973	70	10.5	839	74	8.7	12.4	16.6	20.8
3000	Open	1194	64	13.5	1008	70	10.5	867	74	8.6	12.6	16.9	21.2

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345 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							
1000	Open	43.3	38.0	36.4	31.0	31.2	26.2
1250	Open	44.9	39.2	37.5	31.8	32.1	26.8
1500	Open	48.0	41.7	39.5	33.4	33.4	27.9
1750	Open	49.5	42.8	40.5	34.1	34.1	28.4
2000	Open	50.5	43.5	41.1	34.6	34.5	28.7
2250	Open	51.8	44.5	42.0	35.2	35.1	29.2
85°C - Aluminum Conductor - Hollow Core Segmental Strand							
2000	Open	50.4	43.5	41.1	34.5	34.5	28.7
2250	Open	51.8	44.5	42.0	35.3	35.1	29.2
2500	Open	52.7	45.2	42.6	35.6	35.5	29.5
2750	Open	53.9	46.0	43.4	36.2	36.0	29.8
3000	Open	54.7	46.6	43.9	36.6	36.3	30.1

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345 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							
1000	Open	4.093	2.64	21.96	1.026	2.63	0.16	2.21	3.37
1250	Open	4.220	2.78	17.62	1.035	2.49	0.16	2.20	3.35
1500	Open	4.088	3.17	14.76	1.038	2.20	0.17	2.22	3.37
1750	Open	4.215	3.32	12.73	1.049	2.09	0.16	2.20	3.36
2000	Open	4.286	3.42	11.22	1.058	2.03	0.16	2.19	3.35
2250	Open	4.396	3.57	10.14	1.068	1.95	0.15	2.18	3.34
		85°C - Aluminum Conductor - Hollow Core Segmental Strand							
2000	Open	4.283	3.42	11.05	1.059	2.04	0.16	2.19	3.35
2250	Open	4.396	3.57	9.93	1.069	1.95	0.15	2.18	3.34
2500	Open	4.475	3.66	8.96	1.081	1.90	0.15	2.17	3.33
2750	Open	4.570	3.79	8.17	1.093	1.83	0.15	2.16	3.32
3000	Open	4.641	3.88	7.58	1.104	1.79	0.15	2.16	3.31

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345 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 - Aluminum Conductor - Hollow Core Concentric Strand													
1000	Open	56	12.5	686	63	10.3	603	67	8.6	535	11.4	15.1	18.9
1250	Open	57	12.7	773	64	10.2	676	68	8.6	597	11.7	15.6	19.6
1500	Open	59	13.8	861	66	11.0	742	70	9.2	647	12.9	17.4	21.9
1750	Open	60	13.9	933	67	11.1	800	71	9.1	694	13.4	18.0	22.7
2000	Open	60	14.0	997	67	11.1	852	72	9.0	737	13.6	18.4	23.2
2250	Open	61	14.0	1053	68	11.0	896	72	8.9	771	14.0	19.0	24.0
85°C - Aluminum Conductor - Hollow Core Segmental Strand													
2000	Open	60	14.0	1004	67	11.1	858	72	9.0	742	13.6	18.4	23.2
2250	Open	61	14.0	1064	68	11.0	905	72	8.9	779	14.0	19.0	24.0
2500	Open	62	14.1	1121	68	11.0	950	73	8.9	815	14.3	19.4	24.5
2750	Open	62	14.1	1177	69	10.9	993	73	8.9	848	14.6	19.9	25.1
3000	Open	63	14.2	1223	69	10.9	1028	74	8.8	875	14.8	20.2	25.6

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345 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 - Aluminum Conductor - Hollow Core Concentric Strand								
1000	Open	623	61	10.7	534	67	8.6	466	72	7.1	11.4	15.1	18.9
1250	Open	700	62	10.8	598	68	8.6	519	72	7.1	11.7	15.6	19.6
1500	Open	775	64	11.8	653	70	9.3	559	74	7.6	12.9	17.4	21.9
1750	Open	837	65	11.8	701	71	9.2	598	75	7.5	13.4	18.0	22.7
2000	Open	893	65	11.8	745	71	9.2	633	75	7.5	13.6	18.4	23.2
2250	Open	941	66	11.8	781	72	9.1	661	76	7.4	14.0	19.0	24.0
					85°C - Aluminum Conductor - Hollow Core Segmental Strand								
2000	Open	900	65	11.8	751	71	9.2	638	75	7.5	13.6	18.4	23.2
2250	Open	951	66	11.8	789	72	9.1	667	76	7.4	14.0	19.0	24.0
2500	Open	1000	66	11.9	827	72	9.0	698	76	7.3	14.3	19.4	24.5
2750	Open	1047	67	11.9	862	73	9.0	724	76	7.4	14.6	19.9	25.1
3000	Open	1086	68	11.9	891	73	9.1	746	77	7.3	14.8	20.2	25.6

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345 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							
1000	Open	79.3	68.1	64.8	54.3	54.4	45.1
1250	Open	81.8	70.1	66.5	55.7	55.5	46.1
1500	Open	86.8	73.9	69.4	58.0	57.3	47.6
1750	Open	89.3	75.8	70.9	59.1	58.3	48.4
2000	Open	90.9	77.0	71.9	59.8	59.0	48.9
2250	Open	92.9	78.5	73.1	60.7	59.7	49.6
85°C - Aluminum Conductor - Hollow Core Segmental Strand							
2000	Open	90.8	77.0	71.8	59.8	58.9	48.9
2250	Open	93.0	78.6	73.2	60.8	59.8	49.5
2500	Open	94.4	79.6	74.0	61.4	60.2	50.0
2750	Open	96.3	80.9	75.1	62.2	60.9	50.6
3000	Open	97.7	81.9	75.8	62.8	61.4	51.0

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345 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							
1000	Open	4.093	2.64	21.96	1.021	2.63	0.16	2.77	4.26
1250	Open	4.220	2.78	17.62	1.039	2.49	0.16	2.74	4.22
1500	Open	4.088	3.17	14.76	1.042	2.20	0.17	2.75	4.23
1750	Open	4.215	3.32	12.73	1.054	2.09	0.16	2.74	4.22
2000	Open	4.286	3.42	11.22	1.064	2.03	0.16	2.73	4.21
2250	Open	4.396	3.57	10.14	1.075	1.95	0.15	2.72	4.20
		85°C - Aluminum Conductor - Hollow Core Segmental Strand							
2000	Open	4.283	3.42	11.05	1.064	2.04	0.16	2.73	4.21
2250	Open	4.396	3.57	9.93	1.076	1.95	0.15	2.72	4.20
2500	Open	4.475	3.66	8.96	1.089	1.90	0.15	2.71	4.19
2750	Open	4.570	3.79	8.17	1.103	1.83	0.15	2.70	4.18
3000	Open	4.641	3.88	7.58	1.115	1.79	0.15	2.69	4.18

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345 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							
1000	Open	555	572	295	376	10.2	9.6
1250	Open	628	649	331	425	10.4	9.8
1500	Open	695	719	352	462	11.4	10.8
1750	Open	758	785	381	503	11.7	11.0
2000	Open	813	843	406	538	11.8	11.1
2250	Open	882	910	433	568	11.6	11.0
85°C - Aluminum Conductor - Hollow Core Segmental Strand							
2000	Open	819	849	409	542	11.8	11.1
2250	Open	892	920	438	574	11.6	11.0
2500	Open	946	976	462	608	11.7	11.1
2750	Open	999	1032	485	640	11.9	11.2
3000	Open	1044	1079	504	668	12.0	11.3

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345 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					
1000	Open	28.2	29.5	13.6	17.2
1250	Open	29.2	30.6	14.1	17.9
1500	Open	30.9	32.4	15.0	18.9
1750	Open	31.9	33.5	15.5	19.6
2000	Open	32.5	34.1	15.8	20.0
2250	Open	34.4	35.9	16.4	20.5
85°C - Aluminum Conductor - Hollow Core Segmental Strand					
2000	Open	32.4	34.1	15.8	20.0
2250	Open	34.4	35.9	16.4	20.5
2500	Open	35.0	36.6	16.7	20.9
2750	Open	35.8	37.4	17.1	21.4
3000	Open	36.4	38.1	17.4	21.8

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345 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										
1000	Open	4.093	5.05	2.64	21.96	1.000	2.63	0.16	1.31	0.31	0.75	0.52
1250	Open	4.220	5.05	2.78	17.62	1.000	2.49	0.16	1.27	0.31	0.75	0.52
1500	Open	4.088	5.05	3.17	14.75	1.000	2.20	0.17	1.30	0.31	0.74	0.51
1750	Open	4.215	5.05	3.32	12.72	1.000	2.09	0.16	1.26	0.31	0.74	0.51
2000	Open	4.286	5.05	3.42	11.20	1.000	2.03	0.16	1.24	0.31	0.74	0.51
2250	Open	4.396	6.07	3.57	10.14	1.000	1.95	0.15	1.22	0.28	0.64	0.45
		85°C - Aluminum Conductor - Hollow Core Segmental Strand										
2000	Open	4.283	5.05	3.42	11.03	1.000	2.04	0.16	1.24	0.31	0.74	0.51
2250	Open	4.396	6.07	3.57	9.92	1.000	1.95	0.15	1.22	0.28	0.64	0.45
2500	Open	4.475	6.07	3.66	8.95	1.000	1.90	0.15	1.20	0.28	0.64	0.45
2750	Open	4.570	6.07	3.79	8.16	1.000	1.83	0.15	1.17	0.28	0.63	0.45
3000	Open	4.641	6.07	3.88	7.57	1.000	1.79	0.15	1.15	0.28	0.63	0.45

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345 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							
1000	Open	684	720	417	516	6.4	5.7
1250	Open	781	822	475	587	6.5	5.7
1500	Open	883	934	535	667	7.0	6.1
1750	Open	971	1027	586	731	7.0	6.1
2000	Open	1047	1108	630	786	7.1	6.2
2250	Open	1120	1185	672	838	7.1	6.2
85°C - Aluminum Conductor - Hollow Core Segmental Strand							
2000	Open	1054	1115	634	792	7.1	6.2
2250	Open	1132	1198	679	847	7.1	6.2
2500	Open	1205	1275	721	900	7.2	6.3
2750	Open	1281	1355	765	954	7.2	6.3
3000	Open	1343	1421	800	998	7.3	6.3

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345 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					
1000	Open	12.9	14.0	6.5	8.5
1250	Open	13.5	14.7	6.8	8.9
1500	Open	14.7	16.0	7.4	9.7
1750	Open	15.3	16.7	7.7	10.1
2000	Open	15.7	17.2	7.9	10.3
2250	Open	16.3	17.8	8.1	10.7
85°C - Aluminum Conductor - Hollow Core Segmental Strand					
2000	Open	15.7	17.1	7.9	10.3
2250	Open	16.3	17.8	8.1	10.7
2500	Open	16.7	18.2	8.3	10.9
2750	Open	17.2	18.8	8.6	11.2
3000	Open	17.5	19.2	8.7	11.4

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345 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										
1000	Open	4.093	9.99	2.64	21.96	1.000	2.63	0.16	0.00	0.00	0.95	0.66
1250	Open	4.220	9.99	2.78	17.62	1.000	2.49	0.16	0.00	0.00	0.93	0.65
1500	Open	4.088	9.99	3.17	14.75	1.000	2.20	0.17	0.00	0.00	0.94	0.66
1750	Open	4.215	9.99	3.32	12.72	1.000	2.09	0.16	0.00	0.00	0.91	0.64
2000	Open	4.286	9.99	3.42	11.20	1.000	2.03	0.16	0.00	0.00	0.90	0.64
2250	Open	4.396	9.99	3.57	10.14	1.000	1.95	0.15	0.00	0.00	0.88	0.62
		85°C - Aluminum Conductor - Hollow Core Segmental Strand										
2000	Open	4.283	9.99	3.42	11.03	1.000	2.04	0.16	0.00	0.00	0.90	0.64
2250	Open	4.396	9.99	3.57	9.92	1.000	1.95	0.15	0.00	0.00	0.88	0.62
2500	Open	4.475	9.99	3.66	8.95	1.000	1.90	0.15	0.00	0.00	0.86	0.61
2750	Open	4.570	9.99	3.79	8.16	1.000	1.83	0.15	0.00	0.00	0.84	0.60
3000	Open	4.641	9.99	3.88	7.57	1.000	1.79	0.15	0.00	0.00	0.83	0.60

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345 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					
1000	Open	574	594	406	463	9.5	8.9
1250	Open	651	674	459	525	9.7	9.0
1500	Open	724	751	504	581	10.6	9.9
1750	Open	790	821	549	633	10.8	10.1
2000	Open	848	882	588	680	11.0	10.2
2250	Open	924	955	642	728	10.7	10.0
		85°C - Aluminum Conductor - Hollow Core Segmental Strand					
2000	Open	854	888	592	685	11.0	10.2
2250	Open	934	965	649	736	10.7	10.0
2500	Open	991	1024	688	781	10.8	10.1
2750	Open	1048	1084	726	825	10.9	10.3
3000	Open	1095	1133	757	862	11.0	10.4

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345 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					
1000	Open	9.9	10.4	6.3	7.3
1250	Open	10.2	10.8	6.5	7.6
1500	Open	10.9	11.5	6.9	8.1
1750	Open	11.3	11.9	7.2	8.4
2000	Open	11.5	12.1	7.3	8.6
2250	Open	12.2	12.8	7.7	8.9
85°C - Aluminum Conductor - Hollow Core Segmental Strand					
2000	Open	11.5	12.1	7.3	8.6
2250	Open	12.2	12.8	7.7	8.9
2500	Open	12.5	13.0	7.9	9.1
2750	Open	12.7	13.4	8.1	9.3
3000	Open	13.0	13.6	8.2	9.5

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345 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 - Aluminum Conductor - Hollow Core Concentric Strand										
1000	Open	4.093	5.05	2.64	21.96	1.000	2.63	0.16	1.05	0.31	0.76	0.52
1250	Open	4.220	5.05	2.78	17.62	1.000	2.49	0.16	1.02	0.31	0.75	0.51
1500	Open	4.088	5.05	3.17	14.75	1.000	2.20	0.17	1.04	0.31	0.75	0.51
1750	Open	4.215	5.05	3.32	12.72	1.000	2.09	0.16	1.00	0.31	0.75	0.51
2000	Open	4.286	5.05	3.42	11.20	1.000	2.03	0.16	0.99	0.31	0.74	0.51
2250	Open	4.396	6.07	3.57	10.14	1.000	1.95	0.15	0.96	0.28	0.63	0.45
		85°C - Aluminum Conductor - Hollow Core Segmental Strand										
2000	Open	4.283	5.05	3.42	11.03	1.000	2.04	0.16	0.99	0.31	0.74	0.51
2250	Open	4.396	6.07	3.57	9.92	1.000	1.95	0.15	0.96	0.28	0.63	0.45
2500	Open	4.475	6.07	3.66	8.95	1.000	1.90	0.15	0.94	0.28	0.63	0.45
2750	Open	4.570	6.07	3.79	8.16	1.000	1.83	0.15	0.92	0.28	0.63	0.45
3000	Open	4.641	6.07	3.88	7.57	1.000	1.79	0.15	0.90	0.28	0.63	0.45

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