345 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 .0024 pf & Rho 60	delta Td for .0024 pf & Rho 90	delta Td for .0024 pf & Rho 120
85°C - Aluminum Conductor - Hollow Core Concentric Strand										
1000	Open	617	579	567	521	523	471	13.3	16.0	18.8
1250	Open	697	653	638	584	586	527	13.7	16.6	19.5
1500	Open	769	718	697	636	635	568	15.2	18.5	21.8
1750	Open	835	778	754	686	683	610	15.6	19.1	22.6
2000	Open	893	831	805	731	727	649	15.9	19.5	23.1
2250	Open	958	889	860	779	773	687	16.0	19.7	23.5
85°C - Aluminum Conductor - Hollow Core Segmental Strand										
2000	Open	900	838	811	737	733	654	15.9	19.5	23.0
2250	Open	968	898	868	787	781	694	16.0	19.7	23.5
2500	Open	1023	948	915	828	821	729	16.3	20.1	23.9
2750	Open	1077	996	960	867	858	760	16.5	20.5	24.4
3000	Open	1121	1036	997	899	888	786	16.7	20.8	24.9

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345 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

		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							
1000	Open	33.1	30.1	29.2	25.9	26.0	22.6
1250	Open	34.3	31.1	30.1	26.5	26.7	23.2
1500	Open	35.9	32.5	31.2	27.6	27.5	23.9
1750	Open	36.9	33.4	31.9	28.2	28.0	24.4
2000	Open	37.5	33.9	32.4	28.5	28.3	24.7
2250	Open	39.1	35.2	33.6	29.5	29.2	25.3
85°C - Aluminum Conductor - Hollow Core Segmental Strand							
2000	Open	37.5	33.9	32.4	28.5	28.3	24.6
2250	Open	39.1	35.2	33.6	29.5	29.2	25.3
2500	Open	39.7	35.7	34.0	29.8	29.5	25.6
2750	Open	40.5	36.3	34.5	30.3	29.9	25.9
3000	Open	41.1	36.8	34.9	30.6	30.1	26.1

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345 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%	Re @ 90 Rho & loss factor 100%
					85°C - Aluminum Conductor - Hollow Core Concentric Strand							
1000	Open	4.073	5.06	2.64	21.96	1.005	2.63	0.17	1.06	0.24	2.11	3.30
1250	Open	4.200	5.06	2.78	17.62	1.008	2.49	0.16	1.02	0.24	2.11	3.30
1500	Open	4.068	5.06	3.17	14.76	1.008	2.20	0.17	1.05	0.24	2.11	3.30
1750	Open	4.195	5.06	3.32	12.73	1.011	2.09	0.16	1.01	0.24	2.11	3.30
2000	Open	4.266	5.06	3.42	11.22	1.013	2.03	0.16	0.99	0.24	2.11	3.30
2250	Open	4.386	6.13	3.57	10.14	1.016	1.95	0.15	0.97	0.20	2.06	3.24
					85°C - Aluminum Conductor - Hollow Core Segmental Strand							
2000	Open	4.263	5.06	3.42	11.05	1.013	2.04	0.16	1.00	0.24	2.11	3.30
2250	Open	4.386	6.13	3.57	9.93	1.016	1.95	0.15	0.97	0.20	2.06	3.24
2500	Open	4.455	6.13	3.66	8.96	1.019	1.90	0.15	0.95	0.20	2.06	3.24
2750	Open	4.560	6.13	3.79	8.17	1.023	1.83	0.15	0.93	0.20	2.06	3.24
3000	Open	4.631	6.13	3.88	7.58	1.036	1.79	0.15	0.91	0.20	2.04	3.24

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345 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 .0024 pf & Rho 60	90	120
85°C - Aluminum Conductor - Hollow Core Concentric Strand										
1000	Open	531	481	451	397	383	331	18.2	23.9	29.6
1250	Open	595	537	501	441	422	364	18.9	24.9	30.9
1500	Open	646	581	533	466	435	374	21.1	28.0	34.8
1750	Open	697	625	568	496	458	393	21.9	29.1	36.3
2000	Open	742	664	602	525	481	412	22.3	29.7	37.1
2250	Open	790	705	634	551	500	427	22.7	30.4	38.2
85°C - Aluminum Conductor - Hollow Core Segmental Strand										
2000	Open	748	670	607	529	485	415	22.3	29.7	37.1
2250	Open	798	712	640	556	505	431	22.7	30.4	38.2
2500	Open	839	748	669	581	523	446	23.1	31.0	39.0
2750	Open	877	780	694	601	534	455	23.7	31.9	40.1
3000	Open	909	807	714	618	544	462	24.1	32.5	41.0

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345 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							
1000	Open	53.2	46.5	42.8	36.7	35.3	30.4
1250	Open	54.5	47.5	43.5	37.4	35.7	30.8
1500	Open	56.3	49.2	44.4	38.4	35.9	31.5
1750	Open	57.5	50.2	44.9	39.0	36.2	31.9
2000	Open	58.1	50.6	45.3	39.4	36.3	32.1
2250	Open	60.1	52.2	46.3	40.2	36.9	32.7
85°C - Aluminum Conductor - Hollow Core Segmental Strand							
2000	Open	58.2	50.7	45.3	39.3	36.3	32.1
2250	Open	60.1	52.2	46.3	40.2	36.9	32.7
2500	Open	60.7	52.7	46.6	40.5	37.0	32.9
2750	Open	61.5	53.4	47.0	40.9	37.1	33.1
3000	Open	62.0	53.8	47.2	41.2	37.2	33.3

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345 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%	Re @ 90 Rho & loss factor 100%
		85°C - Aluminum Conductor - Hollow Core Concentric Strand										
1000	Open	4.073	5.06	2.64	21.96	1.006	2.63	0.17	1.01	0.24	4.00	6.34
1250	Open	4.200	5.06	2.78	17.62	1.008	2.49	0.16	0.98	0.24	4.00	6.34
1500	Open	4.068	5.06	3.17	14.76	1.009	2.20	0.17	1.00	0.24	4.00	6.34
1750	Open	4.195	5.06	3.32	12.73	1.012	2.09	0.16	0.96	0.24	4.00	6.34
2000	Open	4.266	5.06	3.42	11.22	1.014	2.03	0.16	0.95	0.24	4.00	6.34
2250	Open	4.386	6.13	3.57	10.14	1.017	1.95	0.15	0.92	0.20	3.94	6.28
		85°C - Aluminum Conductor - Hollow Core Segmental Strand										
2000	Open	4.263	5.06	3.42	11.05	1.014	2.04	0.16	0.95	0.24	4.00	6.34
2250	Open	4.386	6.13	3.57	9.93	1.018	1.95	0.15	0.92	0.20	3.94	6.28
2500	Open	4.455	6.13	3.66	8.96	1.021	1.90	0.15	0.91	0.20	3.94	6.28
2750	Open	4.560	6.13	3.79	8.17	1.025	1.83	0.15	0.88	0.20	3.94	6.28
3000	Open	4.631	6.13	3.88	7.58	1.029	1.79	0.15	0.87	0.20	3.94	6.28

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345 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 .0024 pf & Rho 60	90	120
						75% LF							
						85°C - Aluminum Conductor - Hollow Core Concentric Strand							
1000	Open	728	52	13.5	653	59	11.3	592	64	9.8	9.8	12.8	15.8
1250	Open	824	53	13.6	736	60	11.4	665	64	9.7	10.1	13.3	16.4
1500	Open	923	55	15.0	816	62	12.4	728	67	10.5	11.1	14.7	18.2
1750	Open	1006	56	15.0	885	63	12.4	787	67	10.4	11.4	15.2	18.9
2000	Open	1078	56	15.1	946	63	12.4	839	68	10.4	11.6	15.5	19.3
2250	Open	1144	57	15.2	1000	64	12.3	884	68	10.3	11.9	15.9	19.9
						85°C - Aluminum Conductor - Hollow Core Segmental Strand							
2000	Open	1086	56	15.1	953	63	12.4	845	68	10.4	11.6	15.4	19.3
2250	Open	1156	57	15.2	1010	64	12.3	893	68	10.3	11.9	15.9	19.9
2500	Open	1223	58	15.2	1066	64	12.3	940	69	10.3	12.1	16.2	20.3
2750	Open	1289	58	15.2	1120	65	12.2	984	69	10.2	12.4	16.6	20.8
3000	Open	1343	58	15.3	1165	65	12.2	1021	70	10.1	12.6	16.9	21.2

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345 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 .0024 pf & Rho 60	90	120
						100% LF							
						85°C - Aluminum Conductor - Hollow Core Concentric Strand							
1000	Open	671	57	11.9	589	64	9.8	524	68	8.3	9.8	12.8	15.8
1250	Open	758	58	11.9	662	65	9.7	587	69	8.2	10.1	13.3	16.4
1500	Open	845	60	13.1	729	67	10.5	639	71	8.7	11.1	14.7	18.2
1750	Open	917	61	13.0	788	67	10.4	688	71	8.7	11.4	15.2	18.9
2000	Open	981	61	13.1	841	68	10.4	733	72	8.6	11.6	15.5	19.3
2250	Open	1039	62	13.1	887	68	10.4	770	72	8.5	11.9	15.9	19.9
						85°C - Aluminum Conductor - Hollow Core Segmental Strand							
2000	Open	989	61	13.1	847	68	10.4	739	72	8.6	11.6	15.4	19.3
2250	Open	1050	62	13.1	896	68	10.4	778	72	8.5	11.9	15.9	19.9
2500	Open	1109	62	13.0	944	69	10.3	818	73	8.5	12.1	16.2	20.3
2750	Open	1166	63	13.0	989	69	10.2	854	73	8.5	12.4	16.6	20.8
3000	Open	1214	63	13.0	1027	70	10.2	885	74	8.4	12.6	16.9	21.2

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345 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 - Aluminum Conductor - Hollow Core Concentric Strand							
1000	Open	43.1	37.8	36.2	30.9	31.2	26.1
1250	Open	44.6	39.0	37.3	31.7	32.0	26.7
1500	Open	47.6	41.4	39.3	33.3	33.2	27.8
1750	Open	49.2	42.5	40.3	34.0	34.0	28.3
2000	Open	50.0	43.2	40.9	34.5	34.3	28.6
2250	Open	51.3	44.2	41.7	35.1	34.9	29.1
85°C - Aluminum Conductor - Hollow Core Segmental Strand							
2000	Open	50.0	43.2	40.9	34.4	34.3	28.6
2250	Open	51.4	44.2	41.7	35.1	35.0	29.1
2500	Open	52.2	44.8	42.3	35.5	35.3	29.4
2750	Open	53.3	45.7	43.0	36.0	35.8	29.8
3000	Open	54.0	46.3	43.5	36.4	36.1	30.0

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345 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 - Aluminum Conductor - Hollow Core Concentric Strand							
1000	Open	4.073	2.64	21.96	1.009	2.63	0.17	2.22	3.37
1250	Open	4.200	2.78	17.62	1.013	2.49	0.16	2.20	3.36
1500	Open	4.068	3.17	14.76	1.014	2.20	0.17	2.22	3.37
1750	Open	4.195	3.32	12.73	1.018	2.09	0.16	2.20	3.36
2000	Open	4.266	3.42	11.22	1.022	2.03	0.16	2.20	3.35
2250	Open	4.386	3.57	10.14	1.027	1.95	0.15	2.18	3.34
		85°C - Aluminum Conductor - Hollow Core Segmental Strand							
2000	Open	4.263	3.42	11.05	1.022	2.04	0.16	2.20	3.35
2250	Open	4.386	3.57	9.93	1.027	1.95	0.15	2.18	3.34
2500	Open	4.455	3.66	8.96	1.032	1.90	0.15	2.18	3.33
2750	Open	4.560	3.79	8.17	1.038	1.83	0.15	2.16	3.32
3000	Open	4.631	3.88	7.58	1.043	1.79	0.15	2.16	3.31

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345 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 .0024 pf & Rho 60	90	120
						75% LF							
						85°C - Aluminum Conductor - Hollow Core Concentric Strand							
1000	Open	688	56	12.4	604	63	10.1	537	67	8.5	11.4	15.1	18.9
1250	Open	777	57	12.5	679	63	10.1	601	68	8.5	11.8	15.7	19.7
1500	Open	866	59	13.6	747	66	10.9	651	70	9.0	13.0	17.5	22.0
1750	Open	940	60	13.6	807	66	10.8	700	71	8.9	13.4	18.1	22.8
2000	Open	1006	60	13.6	861	67	10.7	745	71	8.9	13.7	18.5	23.3
2250	Open	1066	61	13.6	908	67	10.7	781	72	8.7	14.0	19.1	24.1
						85°C - Aluminum Conductor - Hollow Core Segmental Strand							
2000	Open	1014	60	13.6	868	67	10.8	751	71	8.9	13.7	18.5	23.3
2250	Open	1077	61	13.6	917	67	10.7	789	72	8.7	14.0	19.1	24.1
2500	Open	1137	61	13.6	966	68	10.7	828	72	8.7	14.3	19.5	24.6
2750	Open	1196	62	13.6	1011	68	10.6	864	73	8.6	14.6	19.9	25.3
3000	Open	1244	62	13.6	1049	69	10.6	893	73	8.6	14.8	20.2	25.6

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345 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 .0024 pf & Rho 60	90	120
						100% LF							
						85°C - Aluminum Conductor - Hollow Core Concentric Strand							
1000	Open	625	61	10.7	536	67	8.5	468	72	7.0	11.4	15.1	18.9
1250	Open	704	62	10.6	601	68	8.5	522	72	7.0	11.8	15.7	19.7
1500	Open	780	64	11.5	657	70	9.1	563	74	7.5	13.0	17.5	22.0
1750	Open	844	65	11.6	708	71	9.0	604	75	7.4	13.4	18.1	22.8
2000	Open	902	65	11.6	754	71	9.0	641	75	7.3	13.7	18.5	23.3
2250	Open	953	66	11.5	792	72	8.9	671	75	7.2	14.0	19.1	24.1
						85°C - Aluminum Conductor - Hollow Core Segmental Strand							
2000	Open	909	65	11.6	760	71	9.0	646	75	7.3	13.7	18.5	23.3
2250	Open	963	66	11.5	800	72	8.9	677	75	7.2	14.0	19.1	24.1
2500	Open	1015	66	11.5	842	72	8.9	710	76	7.2	14.3	19.5	24.6
2750	Open	1065	67	11.5	879	72	8.8	739	76	7.1	14.6	19.9	25.3
3000	Open	1107	67	11.5	911	73	8.7	763	76	7.1	14.8	20.2	25.6

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345 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							
1000	Open	78.7	67.7	64.3	54.0	54.1	44.9
1250	Open	81.3	69.7	66.0	55.3	55.3	45.8
1500	Open	86.2	73.5	69.0	57.7	57.0	47.4
1750	Open	88.5	75.2	70.5	58.8	58.0	48.3
2000	Open	90.0	76.3	71.4	59.5	58.6	48.7
2250	Open	92.2	77.9	72.7	60.5	59.4	49.4
85°C - Aluminum Conductor - Hollow Core Segmental Strand							
2000	Open	89.9	76.3	71.4	59.5	58.6	48.7
2250	Open	92.2	78.0	72.7	60.5	59.4	49.4
2500	Open	93.4	78.9	73.5	61.1	59.9	49.8
2750	Open	95.3	80.2	74.5	61.9	60.6	50.4
3000	Open	96.4	81.2	75.3	62.5	61.0	50.8

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345 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							
1000	Open	4.073	2.64	21.96	1.008	2.63	0.17	2.77	4.26
1250	Open	4.200	2.78	17.62	1.011	2.49	0.16	2.75	4.25
1500	Open	4.068	3.17	14.76	1.011	2.20	0.17	2.77	4.26
1750	Open	4.195	3.32	12.73	1.015	2.09	0.16	2.75	4.25
2000	Open	4.266	3.42	11.22	1.018	2.03	0.16	2.75	4.24
2250	Open	4.386	3.57	10.14	1.022	1.95	0.15	2.73	4.23
		85°C - Aluminum Conductor - Hollow Core Segmental Strand							
2000	Open	4.263	3.42	11.05	1.018	2.04	0.16	2.75	4.24
2250	Open	4.386	3.57	9.93	1.022	1.95	0.15	2.73	4.23
2500	Open	4.455	3.66	8.96	1.026	1.90	0.15	2.73	4.22
2750	Open	4.560	3.79	8.17	1.042	1.83	0.15	2.70	4.21
3000	Open	4.631	3.88	7.58	1.048	1.79	0.15	2.69	4.18

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345 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 .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	556	574	296	378	10.1	9.5
1250	Open	630	651	333	427	10.3	9.7
1500	Open	697	721	355	465	11.4	10.7
1750	Open	760	788	383	505	11.6	10.9
2000	Open	816	846	409	541	11.8	11.0
2250	Open	886	914	437	571	11.5	10.9
85°C - Aluminum Conductor - Hollow Core Segmental Strand							
2000	Open	822	852	412	545	11.8	11.0
2250	Open	895	924	442	577	11.5	10.9
2500	Open	949	980	465	611	11.7	11.0
2750	Open	1003	1036	489	644	11.8	11.2
3000	Open	1048	1083	508	671	12.0	11.3

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345 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					
1000	Open	28.3	29.6	13.7	17.3
1250	Open	29.3	30.7	14.2	18.0
1500	Open	31.0	32.5	15.1	19.1
1750	Open	32.0	33.7	15.6	19.7
2000	Open	32.6	34.3	15.9	20.1
2250	Open	34.6	36.1	16.5	20.6
85°C - Aluminum Conductor - Hollow Core Segmental Strand					
2000	Open	32.6	34.3	15.9	20.1
2250	Open	34.5	36.1	16.5	20.6
2500	Open	35.2	36.8	16.8	21.0
2750	Open	36.0	37.6	17.2	21.5
3000	Open	36.6	38.3	17.5	21.9

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345 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 - Aluminum Conductor - Hollow Core Concentric Strand										
1000	Open	4.073	5.05	2.64	21.96	1.000	2.63	0.17	1.29	0.31	0.75	0.52
1250	Open	4.200	5.05	2.78	17.62	1.000	2.49	0.16	1.25	0.31	0.75	0.52
1500	Open	4.068	5.05	3.17	14.75	1.000	2.20	0.17	1.28	0.31	0.74	0.51
1750	Open	4.195	5.05	3.32	12.72	1.000	2.09	0.16	1.24	0.31	0.74	0.51
2000	Open	4.266	5.05	3.42	11.20	1.000	2.03	0.16	1.22	0.31	0.74	0.51
2250	Open	4.386	6.07	3.57	10.14	1.000	1.95	0.15	1.19	0.28	0.64	0.45
		85°C - Aluminum Conductor - Hollow Core Segmental Strand										
2000	Open	4.263	5.05	3.42	11.03	1.000	2.04	0.16	1.22	0.31	0.74	0.51
2250	Open	4.386	6.07	3.57	9.92	1.000	1.95	0.15	1.19	0.28	0.64	0.45
2500	Open	4.455	6.07	3.66	8.95	1.000	1.90	0.15	1.18	0.28	0.64	0.45
2750	Open	4.560	6.07	3.79	8.16	1.000	1.83	0.15	1.15	0.28	0.63	0.45
3000	Open	4.631	6.07	3.88	7.57	1.000	1.79	0.15	1.13	0.28	0.63	0.45

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345 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 .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	686	721	418	516	6.4	5.6
1250	Open	783	824	476	587	6.4	5.7
1500	Open	886	936	535	667	6.9	6.1
1750	Open	974	1029	587	731	7.0	6.1
2000	Open	1050	1110	631	786	7.0	6.2
2250	Open	1124	1187	673	839	7.1	6.2
		85°C - Aluminum Conductor - Hollow Core Segmental Strand					
2000	Open	1057	1118	636	792	7.0	6.2
2250	Open	1136	1200	680	848	7.1	6.2
2500	Open	1208	1277	723	900	7.1	6.2
2750	Open	1285	1358	766	954	7.2	6.3
3000	Open	1347	1424	802	999	7.2	6.3

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345 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					
1000	Open	13.0	14.1	6.5	8.5
1250	Open	13.6	14.7	6.8	8.9
1500	Open	14.7	16.1	7.4	9.7
1750	Open	15.4	16.8	7.7	10.1
2000	Open	15.8	17.2	7.9	10.3
2250	Open	16.4	17.8	8.2	10.7
85°C - Aluminum Conductor - Hollow Core Segmental Strand					
2000	Open	15.7	17.2	7.9	10.3
2250	Open	16.4	17.9	8.2	10.7
2500	Open	16.7	18.3	8.3	10.9
2750	Open	17.3	18.8	8.6	11.2
3000	Open	17.6	19.2	8.7	11.4

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345 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							
1000	Open	4.073	9.99	2.64	21.96	1.000	2.63	0.17	0.00	0.00	0.94	0.65
1250	Open	4.200	9.99	2.78	17.62	1.000	2.49	0.16	0.00	0.00	0.91	0.64
1500	Open	4.068	9.99	3.17	14.75	1.000	2.20	0.17	0.00	0.00	0.93	0.65
1750	Open	4.195	9.99	3.32	12.72	1.000	2.09	0.16	0.00	0.00	0.90	0.64
2000	Open	4.266	9.99	3.42	11.20	1.000	2.03	0.16	0.00	0.00	0.88	0.63
2250	Open	4.386	9.99	3.57	10.14	1.000	1.95	0.15	0.00	0.00	0.86	0.61
					85°C - Aluminum Conductor - Hollow Core Segmental Strand							
2000	Open	4.263	9.99	3.42	11.03	1.000	2.04	0.16	0.00	0.00	0.89	0.63
2250	Open	4.386	9.99	3.57	9.92	1.000	1.95	0.15	0.00	0.00	0.86	0.61
2500	Open	4.455	9.99	3.66	8.95	1.000	1.90	0.15	0.00	0.00	0.85	0.61
2750	Open	4.560	9.99	3.79	8.16	1.000	1.83	0.15	0.00	0.00	0.83	0.59
3000	Open	4.631	9.99	3.88	7.57	1.000	1.79	0.15	0.00	0.00	0.82	0.59

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345 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 .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	575	595	407	465	9.4	8.8
1250	Open	652	675	460	527	9.6	9.0
1500	Open	726	753	506	583	10.6	9.8
1750	Open	792	823	551	636	10.8	10.0
2000	Open	850	884	590	682	10.9	10.1
2250	Open	927	958	645	731	10.6	10.0
85°C - Aluminum Conductor - Hollow Core Segmental Strand							
2000	Open	856	890	594	687	10.9	10.1
2250	Open	937	968	652	739	10.6	10.0
2500	Open	994	1027	690	783	10.7	10.1
2750	Open	1051	1087	728	828	10.9	10.2
3000	Open	1098	1137	760	865	11.0	10.3

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345 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					
1000	Open	9.9	10.4	6.3	7.4
1250	Open	10.3	10.8	6.5	7.7
1500	Open	10.9	11.5	6.9	8.2
1750	Open	11.3	11.9	7.2	8.5
2000	Open	11.5	12.2	7.3	8.6
2250	Open	12.3	12.9	7.8	9.0
85°C - Aluminum Conductor - Hollow Core Segmental Strand					
2000	Open	11.5	12.2	7.3	8.6
2250	Open	12.3	12.9	7.8	9.0
2500	Open	12.5	13.1	7.9	9.1
2750	Open	12.8	13.4	8.1	9.4
3000	Open	13.0	13.7	8.3	9.5

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345 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 - Aluminum Conductor - Hollow Core Concentric Strand										
1000	Open	4.073	5.05	2.64	21.96	1.000	2.63	0.17	1.04	0.31	0.75	0.52
1250	Open	4.200	5.05	2.78	17.62	1.000	2.49	0.16	1.00	0.31	0.75	0.51
1500	Open	4.068	5.05	3.17	14.75	1.000	2.20	0.17	1.02	0.31	0.75	0.51
1750	Open	4.195	5.05	3.32	12.72	1.000	2.09	0.16	0.99	0.31	0.74	0.51
2000	Open	4.266	5.05	3.42	11.20	1.000	2.03	0.16	0.97	0.31	0.74	0.51
2250	Open	4.386	6.07	3.57	10.14	1.000	1.95	0.15	0.94	0.28	0.63	0.45
		85°C - Aluminum Conductor - Hollow Core Segmental Strand										
2000	Open	4.263	5.05	3.42	11.03	1.000	2.04	0.16	0.97	0.31	0.74	0.51
2250	Open	4.386	6.07	3.57	9.92	1.000	1.95	0.15	0.94	0.28	0.63	0.45
2500	Open	4.455	6.07	3.66	8.95	1.000	1.90	0.15	0.92	0.28	0.63	0.45
2750	Open	4.560	6.07	3.79	8.16	1.000	1.83	0.15	0.90	0.28	0.63	0.45
3000	Open	4.631	6.07	3.88	7.57	1.000	1.79	0.15	0.89	0.28	0.63	0.45

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