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	90	120
85°C - Copper Conductor - Hollow Core Concentric Strand										
1000	Open	789	741	725	665	668	602	13.3	16.0	18.8
1250	Open	888	831	813	744	746	671	13.7	16.6	19.5
1500	Open	975	910	885	807	805	721	15.2	18.5	21.8
1750	Open	1053	981	951	865	862	770	15.6	19.1	22.6
2000	Open	1120	1042	1009	917	911	813	15.8	19.5	23.0
2250	Open	1197	1111	1073	972	965	858	15.9	19.6	23.4
85°C - Copper Conductor - Hollow Core Segmental Strand										
2000	Open	1136	1057	1024	930	924	825	15.8	19.5	23.0
2250	Open	1217	1129	1092	988	981	872	15.9	19.6	23.4
2500	Open	1279	1186	1145	1035	1026	911	16.1	20.0	23.8
2750	Open	1341	1240	1195	1078	1067	946	16.5	20.4	24.4
3000	Open	1390	1284	1236	1114	1099	974	16.7	20.8	24.9

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2598

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
		Total Watts/ft					
85°C - Copper Conductor - Hollow Core Concentric Strand							
1000	Open	33.2	30.2	29.3	25.9	26.0	22.6
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	33.4	32.0	28.2	28.1	24.4
2000	Open	37.6	33.9	32.5	28.6	28.4	24.7
2250	Open	39.3	35.3	33.6	29.5	29.3	25.4
85°C - Copper Conductor - Hollow Core Segmental Strand							
2000	Open	37.6	33.9	32.5	28.6	28.4	24.7
2250	Open	39.3	35.3	33.7	29.5	29.3	25.4
2500	Open	39.8	35.8	34.1	29.9	29.5	25.6
2750	Open	40.7	36.5	34.7	30.3	29.9	26.0
3000	Open	41.3	37.0	35.1	30.7	30.2	26.2

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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%	100%
					85°C - Copper Conductor - Hollow Core Concentric Strand							
1000	Open	4.073	5.06	2.64	13.41	1.009	2.63	0.17	1.06	0.24	2.11	3.30
1250	Open	4.200	5.06	2.78	10.83	1.013	2.49	0.16	1.02	0.24	2.11	3.30
1500	Open	4.068	5.06	3.17	9.14	1.013	2.20	0.17	1.05	0.24	2.11	3.30
1750	Open	4.195	5.06	3.32	7.97	1.017	2.09	0.16	1.01	0.24	2.11	3.30
2000	Open	4.266	5.06	3.42	7.11	1.020	2.03	0.16	0.99	0.24	2.11	3.30
2250	Open	4.386	6.13	3.57	6.46	1.035	1.95	0.15	0.97	0.20	2.04	3.24
					85°C - Copper Conductor - Hollow Core Segmental Strand							
2000	Open	4.263	5.06	3.42	6.90	1.021	2.04	0.16	1.00	0.24	2.11	3.30
2250	Open	4.386	6.13	3.57	6.25	1.036	1.95	0.15	0.97	0.20	2.04	3.24
2500	Open	4.455	6.13	3.66	5.69	1.042	1.90	0.15	0.95	0.20	2.04	3.24
2750	Open	4.560	6.13	3.79	5.23	1.050	1.83	0.15	0.93	0.20	2.04	3.21
3000	Open	4.631	6.13	3.88	4.89	1.056	1.79	0.15	0.91	0.20	2.04	3.21

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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 - Copper Conductor - Hollow Core Concentric Strand										
1000	Open	679	614	576	508	489	423	18.2	23.9	29.6
1250	Open	758	684	638	561	537	463	18.9	24.9	30.9
1500	Open	820	737	675	591	552	474	21.1	28.0	34.8
1750	Open	878	788	717	626	578	495	21.9	29.1	36.3
2000	Open	930	833	754	657	602	516	22.3	29.7	37.1
2250	Open	986	879	791	687	624	532	22.7	30.4	38.2
85°C - Copper Conductor - Hollow Core Segmental Strand										
2000	Open	943	845	765	667	611	524	22.3	29.7	37.1
2250	Open	1002	894	804	698	634	541	22.7	30.4	38.2
2500	Open	1049	935	837	726	653	557	23.1	31.0	39.0
2750	Open	1092	970	863	747	664	565	23.7	31.9	40.1
3000	Open	1126	1000	884	764	673	572	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 - Copper Conductor - Hollow Core Concentric Strand							
1000	Open	53.3	46.5	42.8	36.8	35.3	30.4
1250	Open	54.6	47.5	43.5	37.4	35.7	30.8
1500	Open	56.5	49.3	44.4	38.5	36.0	31.5
1750	Open	57.6	50.3	45.1	39.1	36.3	31.9
2000	Open	58.3	50.8	45.3	39.4	36.3	32.1
2250	Open	60.2	52.3	46.4	40.2	36.9	32.7
85°C - Copper Conductor - Hollow Core Segmental Strand							
2000	Open	58.2	50.8	45.3	39.4	36.3	32.1
2250	Open	60.2	52.3	46.4	40.2	36.9	32.7
2500	Open	60.8	52.9	46.7	40.6	37.0	32.9
2750	Open	61.7	53.5	47.1	41.0	37.1	33.2
3000	Open	62.3	54.1	47.3	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 - Copper Conductor - Hollow Core Concentric Strand												
1000	Open	4.073	5.06	2.64	13.41	1.010	2.63	0.17	1.01	0.24	4.00	6.34
1250	Open	4.200	5.06	2.78	10.83	1.014	2.49	0.16	0.98	0.24	4.00	6.34
1500	Open	4.068	5.06	3.17	9.14	1.014	2.20	0.17	1.00	0.24	4.00	6.34
1750	Open	4.195	5.06	3.32	7.97	1.019	2.09	0.16	0.96	0.24	4.00	6.34
2000	Open	4.266	5.06	3.42	7.11	1.022	2.03	0.16	0.95	0.24	4.00	6.34
2250	Open	4.386	6.13	3.57	6.46	1.027	1.95	0.15	0.92	0.20	3.94	6.28
85°C - Copper Conductor - Hollow Core Segmental Strand												
2000	Open	4.263	5.06	3.42	6.90	1.023	2.04	0.16	0.95	0.24	4.00	6.34
2250	Open	4.386	6.13	3.57	6.25	1.028	1.95	0.15	0.92	0.20	3.94	6.28
2500	Open	4.455	6.13	3.66	5.69	1.033	1.90	0.15	0.91	0.20	3.94	6.28
2750	Open	4.560	6.13	3.79	5.23	1.039	1.83	0.15	0.88	0.20	3.94	6.28
3000	Open	4.631	6.13	3.88	4.89	1.044	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 - Copper Conductor - Hollow Core Concentric Strand							
1000	Open	930	53	13.6	835	59	11.4	756	64	9.8	9.8	12.8	15.8
1250	Open	1049	53	13.7	938	60	11.5	846	64	9.8	10.1	13.3	16.4
1500	Open	1171	55	15.1	1034	62	12.5	923	67	10.5	11.1	14.7	18.2
1750	Open	1268	56	15.2	1115	63	12.5	991	67	10.5	11.4	15.2	18.9
2000	Open	1351	57	15.2	1185	63	12.4	1050	68	10.5	11.6	15.5	19.3
2250	Open	1428	57	15.3	1248	64	12.5	1102	68	10.4	11.9	15.9	19.9
						85°C - Copper Conductor - Hollow Core Segmental Strand							
2000	Open	1370	57	15.2	1201	63	12.5	1065	68	10.5	11.6	15.4	19.3
2250	Open	1451	57	15.3	1268	64	12.5	1120	68	10.4	11.9	15.9	19.9
2500	Open	1529	58	15.4	1332	64	12.4	1174	69	10.4	12.1	16.2	20.3
2750	Open	1603	58	15.4	1392	65	12.4	1223	69	10.3	12.4	16.6	20.8
3000	Open	1663	59	15.5	1441	65	12.5	1262	70	10.3	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 - Copper Conductor - Hollow Core Concentric Strand							
1000	Open	858	57	11.9	752	64	9.8	669	68	8.3	9.8	12.8	15.8
1250	Open	965	58	12.0	842	65	9.7	746	69	8.2	10.1	13.3	16.4
1500	Open	1071	60	13.1	924	67	10.5	810	71	8.8	11.1	14.7	18.2
1750	Open	1156	61	13.1	992	67	10.5	867	72	8.7	11.4	15.2	18.9
2000	Open	1229	61	13.2	1053	68	10.5	917	72	8.7	11.6	15.5	19.3
2250	Open	1296	62	13.2	1105	68	10.5	960	72	8.6	11.9	15.9	19.9
						85°C - Copper Conductor - Hollow Core Segmental Strand							
2000	Open	1247	61	13.2	1067	68	10.5	930	72	8.7	11.6	15.4	19.3
2250	Open	1318	62	13.2	1123	68	10.5	975	72	8.6	11.9	15.9	19.9
2500	Open	1385	63	13.2	1178	69	10.4	1020	73	8.6	12.1	16.2	20.3
2750	Open	1449	63	13.2	1228	69	10.4	1060	73	8.5	12.4	16.6	20.8
3000	Open	1502	64	13.2	1269	70	10.4	1093	74	8.5	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 - Copper Conductor - Hollow Core Concentric Strand							
1000	Open	43.1	37.9	36.3	30.9	31.2	26.1
1250	Open	44.7	39.1	37.4	31.7	32.0	26.7
1500	Open	47.7	41.5	39.3	33.3	33.3	27.8
1750	Open	49.3	42.6	40.4	34.0	34.0	28.3
2000	Open	50.2	43.3	41.0	34.5	34.4	28.7
2250	Open	51.5	44.3	41.9	35.1	35.0	29.1
85°C - Copper Conductor - Hollow Core Segmental Strand							
2000	Open	50.1	43.3	40.9	34.4	34.3	28.6
2250	Open	51.5	44.4	41.9	35.1	35.0	29.1
2500	Open	52.4	44.9	42.4	35.5	35.4	29.4
2750	Open	53.5	45.8	43.1	36.1	35.9	29.8
3000	Open	54.3	46.5	43.7	36.5	36.2	30.1

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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 - Copper Conductor - Hollow Core Concentric Strand							
1000	Open	4.073	2.64	13.41	1.015	2.63	0.17	2.22	3.37
1250	Open	4.200	2.78	10.83	1.021	2.49	0.16	2.20	3.36
1500	Open	4.068	3.17	9.14	1.022	2.20	0.17	2.22	3.37
1750	Open	4.195	3.32	7.97	1.029	2.09	0.16	2.20	3.36
2000	Open	4.266	3.42	7.11	1.034	2.03	0.16	2.20	3.35
2250	Open	4.386	3.57	6.46	1.042	1.95	0.15	2.18	3.34
		85°C - Copper Conductor - Hollow Core Segmental Strand							
2000	Open	4.263	3.42	6.90	1.035	2.04	0.16	2.20	3.35
2250	Open	4.386	3.57	6.25	1.043	1.95	0.15	2.18	3.34
2500	Open	4.455	3.66	5.69	1.050	1.90	0.15	2.18	3.33
2750	Open	4.560	3.79	5.23	1.060	1.83	0.15	2.16	3.32
3000	Open	4.631	3.88	4.89	1.067	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 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
						75% LF							
						85°C - Copper Conductor - Hollow Core Concentric Strand							
1000	Open	879	56	12.5	772	63	10.2	686	67	8.5	11.4	15.1	18.9
1250	Open	990	57	12.6	865	64	10.2	765	68	8.5	11.8	15.7	19.7
1500	Open	1098	59	13.7	947	66	11.0	826	70	9.0	12.9	17.5	22.0
1750	Open	1185	60	13.7	1018	66	10.9	882	71	8.9	13.4	18.1	22.8
2000	Open	1261	60	13.8	1078	67	10.9	933	71	9.0	13.6	18.4	23.3
2250	Open	1329	61	13.8	1132	68	10.8	974	72	8.8	14.0	19.0	24.0
						85°C - Copper Conductor - Hollow Core Segmental Strand							
2000	Open	1278	60	13.8	1094	67	10.9	946	71	9.0	13.6	18.4	23.3
2250	Open	1351	61	13.8	1150	68	10.8	990	72	8.8	14.0	19.0	24.0
2500	Open	1420	61	13.8	1205	68	10.8	1033	73	8.8	14.3	19.4	24.5
2750	Open	1485	62	13.8	1255	69	10.8	1071	73	8.7	14.6	19.9	25.1
3000	Open	1538	62	13.9	1295	69	10.7	1104	73	8.7	14.8	20.2	25.6

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2608

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 - Copper Conductor - Hollow Core Concentric Strand							
1000	Open	799	61	10.7	685	67	8.5	598	72	7.1	11.4	15.1	18.9
1250	Open	896	62	10.7	765	68	8.5	665	72	7.0	11.8	15.7	19.7
1500	Open	989	64	11.6	832	70	9.1	714	74	7.5	12.9	17.5	22.0
1750	Open	1065	65	11.7	892	71	9.1	761	75	7.5	13.4	18.1	22.8
2000	Open	1130	65	11.6	944	71	9.0	803	75	7.4	13.6	18.4	23.3
2250	Open	1188	66	11.6	987	72	9.0	836	76	7.3	14.0	19.0	24.0
						85°C - Copper Conductor - Hollow Core Segmental Strand							
2000	Open	1146	65	11.6	957	71	9.0	814	75	7.4	13.6	18.4	23.3
2250	Open	1208	66	11.7	1003	72	9.0	850	76	7.3	14.0	19.0	24.0
2500	Open	1267	66	11.7	1050	72	9.0	886	76	7.3	14.3	19.4	24.5
2750	Open	1323	67	11.6	1091	73	8.9	917	76	7.2	14.6	19.9	25.1
3000	Open	1368	67	11.6	1124	73	8.9	942	77	7.2	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 - Copper Conductor - Hollow Core Concentric Strand							
1000	Open	78.8	67.9	64.4	54.1	54.2	45.0
1250	Open	81.6	69.8	66.2	55.4	55.4	46.0
1500	Open	86.5	73.7	69.2	57.7	57.2	47.5
1750	Open	88.8	75.6	70.8	59.0	58.1	48.3
2000	Open	90.3	76.6	71.6	59.7	58.7	48.8
2250	Open	92.4	78.1	72.9	60.6	59.5	49.5
85°C - Copper Conductor - Hollow Core Segmental Strand							
2000	Open	90.2	76.6	71.6	59.6	58.7	48.8
2250	Open	92.5	78.2	72.9	60.6	59.6	49.5
2500	Open	93.8	79.1	73.7	61.2	60.0	49.9
2750	Open	95.5	80.5	74.7	62.0	60.6	50.5
3000	Open	96.9	81.5	75.5	62.6	61.2	50.9

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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 - Copper Conductor - Hollow Core Concentric Strand									
1000	Open	4.073	2.64	13.41	1.012	2.63	0.17	2.77	4.26
1250	Open	4.200	2.78	10.83	1.017	2.49	0.16	2.75	4.25
1500	Open	4.068	3.17	9.14	1.018	2.20	0.17	2.77	4.26
1750	Open	4.195	3.32	7.97	1.024	2.09	0.16	2.75	4.25
2000	Open	4.266	3.42	7.11	1.038	2.03	0.16	2.73	4.24
2250	Open	4.386	3.57	6.46	1.046	1.95	0.15	2.72	4.20
85°C - Copper Conductor - Hollow Core Segmental Strand									
2000	Open	4.263	3.42	6.90	1.039	2.04	0.16	2.73	4.24
2250	Open	4.386	3.57	6.25	1.048	1.95	0.15	2.72	4.20
2500	Open	4.455	3.66	5.69	1.055	1.90	0.15	2.71	4.19
2750	Open	4.560	3.79	5.23	1.066	1.83	0.15	2.70	4.18
3000	Open	4.631	3.88	4.89	1.074	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 - Copper Conductor - Hollow Core Concentric Strand							
1000	Open	712	734	379	483	10.1	9.5
1250	Open	805	831	426	545	10.3	9.7
1500	Open	887	918	451	591	11.4	10.7
1750	Open	963	998	485	640	11.6	10.9
2000	Open	1028	1066	515	682	11.8	11.0
2250	Open	1109	1145	547	715	11.5	10.9
85°C - Copper Conductor - Hollow Core Segmental Strand							
2000	Open	1040	1078	521	690	11.8	11.0
2250	Open	1130	1166	557	729	11.5	10.9
2500	Open	1193	1231	585	768	11.7	11.0
2750	Open	1256	1298	612	806	11.8	11.2
3000	Open	1307	1351	633	838	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 - Copper Conductor - Hollow Core Concentric Strand					
1000	Open	28.3	29.6	13.7	17.3
1250	Open	29.4	30.7	14.2	18.0
1500	Open	31.0	32.5	15.1	19.0
1750	Open	32.0	33.7	15.6	19.7
2000	Open	32.6	34.3	15.9	20.1
2250	Open	34.5	36.1	16.5	20.6
85°C - Copper Conductor - Hollow Core Segmental Strand					
2000	Open	32.6	34.2	15.8	20.1
2250	Open	34.6	36.1	16.5	20.6
2500	Open	35.2	36.7	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 Sun 2 fps
					85°C - Copper Conductor - Hollow Core Concentric Strand							
1000	Open	4.073	5.05	2.64	13.40	1.000	2.63	0.17	1.29	0.31	0.75	0.52
1250	Open	4.200	5.05	2.78	10.80	1.000	2.49	0.16	1.25	0.31	0.75	0.52
1500	Open	4.068	5.05	3.17	9.11	1.000	2.20	0.17	1.28	0.31	0.74	0.51
1750	Open	4.195	5.05	3.32	7.92	1.000	2.09	0.16	1.24	0.31	0.74	0.51
2000	Open	4.266	5.05	3.42	7.05	1.000	2.03	0.16	1.22	0.31	0.74	0.51
2250	Open	4.386	6.07	3.57	6.46	1.000	1.95	0.15	1.19	0.28	0.64	0.45
					85°C - Copper Conductor - Hollow Core Segmental Strand							
2000	Open	4.263	5.05	3.42	6.88	1.000	2.04	0.16	1.22	0.31	0.74	0.51
2250	Open	4.386	6.07	3.57	6.23	1.000	1.95	0.15	1.19	0.28	0.64	0.45
2500	Open	4.455	6.07	3.66	5.66	1.000	1.90	0.15	1.18	0.28	0.64	0.45
2750	Open	4.560	6.07	3.79	5.20	1.000	1.83	0.15	1.15	0.28	0.63	0.45
3000	Open	4.631	6.07	3.88	4.86	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 - Copper Conductor - Hollow Core Concentric Strand							
1000	Open	878	923	535	661	6.4	5.6
1250	Open	1000	1052	607	750	6.4	5.7
1500	Open	1127	1191	681	849	6.9	6.1
1750	Open	1233	1303	743	926	7.0	6.1
2000	Open	1323	1398	795	991	7.0	6.2
2250	Open	1407	1487	843	1050	7.1	6.2
85°C - Copper Conductor - Hollow Core Segmental Strand							
2000	Open	1338	1415	805	1002	7.0	6.2
2250	Open	1433	1515	859	1070	7.1	6.2
2500	Open	1519	1606	909	1132	7.1	6.2
2750	Open	1609	1700	959	1195	7.2	6.3
3000	Open	1681	1776	1001	1246	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 - Copper 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	17.9	8.2	10.7
85°C - Copper 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	8.8	11.4

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2616

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 - Copper Conductor - Hollow Core Concentric Strand												
1000	Open	4.073	9.99	2.64	13.40	1.000	2.63	0.17	0.00	0.00	0.94	0.65
1250	Open	4.200	9.99	2.78	10.80	1.000	2.49	0.16	0.00	0.00	0.91	0.64
1500	Open	4.068	9.99	3.17	9.11	1.000	2.20	0.17	0.00	0.00	0.93	0.65
1750	Open	4.195	9.99	3.32	7.92	1.000	2.09	0.16	0.00	0.00	0.90	0.64
2000	Open	4.266	9.99	3.42	7.05	1.000	2.03	0.16	0.00	0.00	0.88	0.63
2250	Open	4.386	9.99	3.57	6.46	1.000	1.95	0.15	0.00	0.00	0.86	0.61
85°C - Copper Conductor - Hollow Core Segmental Strand												
2000	Open	4.263	9.99	3.42	6.88	1.000	2.04	0.16	0.00	0.00	0.89	0.63
2250	Open	4.386	9.99	3.57	6.23	1.000	1.95	0.15	0.00	0.00	0.86	0.61
2500	Open	4.455	9.99	3.66	5.66	1.000	1.90	0.15	0.00	0.00	0.85	0.61
2750	Open	4.560	9.99	3.79	5.20	1.000	1.83	0.15	0.00	0.00	0.83	0.59
3000	Open	4.631	9.99	3.88	4.86	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 - Copper Conductor - Hollow Core Concentric Strand							
1000	Open	737	762	521	595	9.4	8.8
1250	Open	833	862	588	672	9.6	9.0
1500	Open	923	958	644	741	10.6	9.8
1750	Open	1003	1042	697	805	10.8	10.0
2000	Open	1071	1114	743	859	10.9	10.1
2250	Open	1161	1200	808	916	10.6	10.0
85°C - Copper Conductor - Hollow Core Segmental Strand							
2000	Open	1084	1127	752	869	10.9	10.1
2250	Open	1182	1222	822	933	10.6	10.0
2500	Open	1249	1291	867	985	10.7	10.1
2750	Open	1316	1361	912	1037	10.9	10.2
3000	Open	1370	1418	948	1079	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 - Copper 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 - Copper 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	9.2
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 2 fps
					85°C - Copper Conductor - Hollow Core Concentric Strand							
1000	Open	4.073	5.05	2.64	13.40	1.000	2.63	0.17	1.04	0.31	0.75	0.52
1250	Open	4.200	5.05	2.78	10.80	1.000	2.49	0.16	1.00	0.31	0.75	0.51
1500	Open	4.068	5.05	3.17	9.11	1.000	2.20	0.17	1.02	0.31	0.75	0.51
1750	Open	4.195	5.05	3.32	7.92	1.000	2.09	0.16	0.99	0.31	0.74	0.51
2000	Open	4.266	5.05	3.42	7.05	1.000	2.03	0.16	0.97	0.31	0.74	0.51
2250	Open	4.386	6.07	3.57	6.46	1.000	1.95	0.15	0.94	0.28	0.63	0.45
					85°C - Copper Conductor - Hollow Core Segmental Strand							
2000	Open	4.263	5.05	3.42	6.88	1.000	2.04	0.16	0.97	0.31	0.74	0.51
2250	Open	4.386	6.07	3.57	6.23	1.000	1.95	0.15	0.94	0.28	0.63	0.45
2500	Open	4.455	6.07	3.66	5.66	1.000	1.90	0.15	0.92	0.28	0.63	0.45
2750	Open	4.560	6.07	3.79	5.20	1.000	1.83	0.15	0.90	0.28	0.63	0.45
3000	Open	4.631	6.07	3.88	4.86	1.000	1.79	0.15	0.89	0.28	0.63	0.45

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