345 kV LPP Insulated High Pressure Liquid Filled Pipe Type Cable

Buried - One Circuit

25°C Earth Ambient

Condr Size	Pipe ID	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 .0010 pf & Rho 60	delta Td for .0010 pf & Rho 90	delta Td for .0010 pf & Rho 120
		85°C - Copper Conductor - Compact Segmental Strand								
1500	8.125	1055	952	958	835	880	748	5.8	7.4	9.0
1750	8.125	1130	1014	1021	886	935	790	6.0	7.7	9.4
2000	8.125	1193	1067	1074	928	980	826	6.2	7.9	9.7
2250	8.125	1245	1110	1117	961	1016	853	6.3	8.2	10.1
2500	8.125	1293	1148	1155	992	1049	878	6.5	8.4	10.4
2750	8.125	1335	1182	1190	1018	1077	899	6.6	8.7	10.7
3000	8.125	1369	1209	1216	1037	1098	914	6.8	8.9	11.0

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2998

345 kV LPP Insulated High Pressure Liquid Filled Pipe Type Cable

Buried - One Circuit

25°C Earth Ambient

Condr Size	Pipe ID	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 - Compact Segmental Strand							
1500	8.125	44.4	36.8	37.3	29.2	32.0	24.2
1750	8.125	46.3	38.1	38.5	30.0	33.0	24.7
2000	8.125	47.8	39.1	39.5	30.6	33.6	25.1
2250	8.125	49.4	40.1	40.6	31.2	34.3	25.5
2500	8.125	50.6	40.9	41.3	31.7	34.9	25.8
2750	8.125	51.9	41.7	42.2	32.2	35.4	26.1
3000	8.125	53.1	42.5	42.9	32.5	35.9	26.4

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345 kV LPP Insulated High Pressure Liquid Filled Pipe Type Cable

Buried - One Circuit

25°C Earth Ambient

Condr Size	Pipe ID	OD	Wd	Rac	Qs	Qe	Ri	Rj	Rsd	Rd	Re @ 90 Rho & loss factor 75%	Re @ 90 Rho & loss factor 100%
					85°C - Copper Conductor - Compact Segmental Strand							
1500	8.125	2.855	1.27	9.52	1.029	1.277	2.03	0.00	0.77	0.10	2.41	3.95
1750	8.125	2.960	1.34	8.38	1.031	1.317	1.92	0.00	0.74	0.10	2.41	3.95
2000	8.125	3.050	1.40	7.55	1.033	1.354	1.83	0.00	0.71	0.10	2.41	3.95
2250	8.125	3.145	1.46	6.98	1.034	1.386	1.75	0.00	0.69	0.10	2.41	3.95
2500	8.125	3.220	1.51	6.48	1.036	1.418	1.70	0.00	0.67	0.10	2.41	3.95
2750	8.125	3.310	1.57	6.10	1.036	1.448	1.63	0.00	0.65	0.10	2.41	3.95
3000	8.125	3.390	1.62	5.82	1.036	1.472	1.58	0.00	0.64	0.10	2.41	3.95

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3000

345 kV LPP Insulated High Pressure Liquid Filled Pipe Type Cable

Buried - Two Circuits - 24 in. Spacing

25°C Earth Ambient

Condr Size	Pipe ID	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 .0010 pf & Rho 60	90	120
		85°C - Copper Conductor - Compact Segmental Strand								
1500	8.125	969	854	856	731	768	642	7.1	9.4	11.7
1750	8.125	1033	906	908	772	812	675	7.4	9.8	12.3
2000	8.125	1087	950	951	806	848	703	7.6	10.1	12.7
2250	8.125	1131	985	985	832	875	724	7.9	10.5	13.2
2500	8.125	1170	1016	1016	856	900	743	8.1	10.8	13.6
2750	8.125	1205	1044	1042	875	921	758	8.3	11.2	14.0
3000	8.125	1232	1064	1062	890	936	769	8.5	11.5	14.4

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345 kV LPP Insulated High Pressure Liquid Filled Pipe Type Cable

Buried - Two Circuits - 24 in. Spacing

25°C Earth Ambient

Condr Size	Pipe ID	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 - Compact Segmental Strand							
1500	8.125	76.1	60.8	61.0	46.6	50.6	37.7
1750	8.125	78.7	62.4	62.6	47.5	51.7	38.2
2000	8.125	80.8	63.7	63.8	48.2	52.5	38.7
2250	8.125	83.0	65.1	65.1	49.0	53.2	39.2
2500	8.125	84.6	66.0	66.0	49.5	53.7	39.5
2750	8.125	86.4	67.2	67.0	50.0	54.4	39.9
3000	8.125	87.8	68.0	67.8	50.5	54.8	40.2

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3002

345 kV LPP Insulated High Pressure Liquid Filled Pipe Type Cable

Buried - Two Circuits - 24 in. Spacing

25°C Earth Ambient

Condr Size	Pipe ID	OD	Wd	Rac	Qs	Qe	Ri	Rj	Rsd	Rd	Re @ 90 Rho & loss factor 75%	Re @ 90 Rho & loss factor 100%
						85°C - Copper Conductor - Compact Segmental Strand						
1500	8.125	2.855	1.27	9.52	1.029	1.277	2.03	0.00	0.72	0.10	2.75	4.49
1750	8.125	2.960	1.34	8.38	1.031	1.317	1.92	0.00	0.69	0.10	2.75	4.49
2000	8.125	3.050	1.40	7.55	1.033	1.354	1.83	0.00	0.67	0.10	2.75	4.49
2250	8.125	3.145	1.46	6.98	1.034	1.386	1.75	0.00	0.65	0.10	2.75	4.49
2500	8.125	3.220	1.51	6.48	1.036	1.418	1.70	0.00	0.63	0.10	2.75	4.49
2750	8.125	3.310	1.57	6.10	1.036	1.448	1.63	0.00	0.62	0.10	2.75	4.49
3000	8.125	3.390	1.62	5.82	1.036	1.472	1.58	0.00	0.61	0.10	2.75	4.49

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345 kV LPP Insulated High Pressure Liquid Filled Pipe Type Cable

Buried - Two Circuits - 36 in. Spacing

25°C Earth Ambient

Condr Size	Pipe ID	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 .0010 pf & Rho 60	90	120
		85°C - Copper Conductor - Compact Segmental Strand								
1500	8.125	993	881	884	759	799	670	6.7	8.8	10.9
1750	8.125	1061	936	939	803	845	706	6.9	9.2	11.4
2000	8.125	1117	982	985	839	884	736	7.2	9.5	11.8
2250	8.125	1163	1019	1021	866	913	758	7.4	9.8	12.3
2500	8.125	1205	1053	1054	892	940	778	7.6	10.1	12.6
2750	8.125	1242	1081	1082	913	963	795	7.8	10.4	13.0
3000	8.125	1271	1104	1104	929	979	807	8.0	10.7	13.4

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3004

345 kV LPP Insulated High Pressure Liquid Filled Pipe Type Cable

Buried - Two Circuits - 36 in. Spacing

25°C Earth Ambient

Condr Size	Pipe ID	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 - Compact Segmental Strand							
1500	8.125	79.5	64.2	64.6	49.6	54.2	40.3
1750	8.125	82.6	66.1	66.4	50.7	55.3	41.0
2000	8.125	84.9	67.5	67.9	51.5	56.3	41.6
2250	8.125	87.3	69.0	69.3	52.3	57.2	42.1
2500	8.125	89.1	70.2	70.3	52.9	57.8	42.4
2750	8.125	91.2	71.3	71.5	53.6	58.6	42.9
3000	8.125	92.8	72.4	72.4	54.1	59.0	43.2

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345 kV LPP Insulated High Pressure Liquid Filled Pipe Type Cable

Buried - Two Circuits - 36 in. Spacing

25°C Earth Ambient

Condr Size	Pipe ID	OD	Wd	Rac	Qs	Qe	Ri	Rj	Rsd	Rd	Re @ 90 Rho & loss factor 75%	Re @ 90 Rho & loss factor 100%
85°C - Copper Conductor - Compact Segmental Strand												
1500	8.125	2.855	1.27	9.52	1.029	1.277	2.03	0.00	0.74	0.10	2.65	4.32
1750	8.125	2.960	1.34	8.38	1.031	1.317	1.92	0.00	0.71	0.10	2.65	4.32
2000	8.125	3.050	1.40	7.55	1.033	1.354	1.83	0.00	0.69	0.10	2.65	4.32
2250	8.125	3.145	1.46	6.98	1.034	1.386	1.75	0.00	0.66	0.10	2.65	4.32
2500	8.125	3.220	1.51	6.48	1.036	1.418	1.70	0.00	0.65	0.10	2.65	4.32
2750	8.125	3.310	1.57	6.10	1.036	1.448	1.63	0.00	0.63	0.10	2.65	4.32
3000	8.125	3.390	1.62	5.82	1.036	1.472	1.58	0.00	0.61	0.10	2.65	4.32

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3006

345 kV LPP Insulated High Pressure Liquid Filled Pipe Type Cable

Buried - One Circuit

25°C Earth Ambient

Condr Size	Pipe ID	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 .0010 pf & Rho 60	90	120
		85°C - Aluminum Conductor - Compact Segmental Strand								
1500	8.125	858	778	782	685	721	615	5.8	7.4	9.0
1750	8.125	930	839	844	736	775	658	6.0	7.7	9.4
2000	8.125	994	894	898	780	822	696	6.2	7.9	9.8
2250	8.125	1048	939	944	817	862	727	6.3	8.2	10.1
2500	8.125	1100	983	988	853	899	757	6.5	8.4	10.4
2750	8.125	1149	1023	1028	885	934	783	6.7	8.7	10.7
3000	8.125	1189	1056	1061	910	961	804	6.8	8.9	11.0
3250	10.25	1255	1103	1126	953	1026	843	6.7	8.6	10.6
3500	10.25	1294	1134	1158	976	1052	862	6.8	8.9	10.9
3750	10.25	1329	1161	1186	997	1075	879	7.0	9.1	11.2
4000	10.25	1361	1186	1211	1016	1096	894	7.1	9.2	11.4

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345 kV LPP Insulated High Pressure Liquid Filled Pipe Type Cable

Buried - One Circuit

25°C Earth Ambient

Condr Size	Pipe ID	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 - Compact Segmental Strand							
1500	8.125	42.5	35.6	35.9	28.5	31.1	23.7
1750	8.125	44.3	36.8	37.2	29.2	32.0	24.2
2000	8.125	45.8	37.9	38.2	29.8	32.7	24.6
2250	8.125	47.2	38.8	39.1	30.4	33.4	25.0
2500	8.125	48.4	39.6	39.9	30.9	33.8	25.3
2750	8.125	49.7	40.4	40.7	31.4	34.5	25.6
3000	8.125	50.9	41.2	41.5	31.8	34.9	25.9
3250	10.25	55.8	44.3	45.9	34.3	39.0	27.9
3500	10.25	57.2	45.1	46.8	34.8	39.6	28.3
3750	10.25	58.4	45.8	47.6	35.2	40.0	28.5
4000	10.25	59.4	46.4	48.2	35.5	40.5	28.8

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3008

345 kV LPP Insulated High Pressure Liquid Filled Pipe Type Cable

Buried - One Circuit

25°C Earth Ambient

Condr Size	Pipe ID	OD	Wd	Rac	Qs	Qe	Ri	Rj	Rsd	Rd	Re @ 90 Rho & loss factor 75%	100%
85°C - Aluminum Conductor - Compact Segmental Strand												
1500	8.125	2.855	1.27	14.88	1.018	1.177	2.03	0.00	0.78	0.10	2.41	3.95
1750	8.125	2.960	1.34	12.86	1.020	1.206	1.92	0.00	0.75	0.10	2.41	3.95
2000	8.125	3.050	1.40	11.36	1.022	1.236	1.83	0.00	0.72	0.10	2.41	3.95
2250	8.125	3.145	1.46	10.30	1.023	1.262	1.75	0.00	0.70	0.10	2.41	3.95
2500	8.125	3.220	1.51	9.37	1.025	1.289	1.70	0.00	0.68	0.10	2.41	3.95
2750	8.125	3.310	1.57	8.64	1.025	1.316	1.63	0.00	0.66	0.10	2.41	3.95
3000	8.125	3.390	1.62	8.09	1.026	1.340	1.58	0.00	0.64	0.10	2.41	3.95
3250	10.25	3.465	1.67	7.58	1.030	1.418	1.53	0.00	0.64	0.13	2.10	3.63
3500	10.25	3.565	1.74	7.16	1.031	1.446	1.47	0.00	0.62	0.13	2.10	3.63
3750	10.25	3.630	1.78	6.79	1.032	1.473	1.44	0.00	0.61	0.13	2.10	3.63
4000	10.25	3.705	1.83	6.48	1.032	1.498	1.40	0.00	0.59	0.13	2.10	3.63

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345 kV LPP Insulated High Pressure Liquid Filled Pipe Type Cable

Buried - Two Circuits - 24 in. Spacing

25°C Earth Ambient

Condr Size	Pipe ID	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 .0010 pf & Rho 60	90	120
		85°C - Aluminum Conductor - Compact Segmental Strand								
1500	8.125	791	700	701	602	632	530	7.1	9.4	11.7
1750	8.125	853	753	753	643	675	564	7.4	9.8	12.3
2000	8.125	909	799	799	680	714	595	7.6	10.2	12.7
2250	8.125	956	837	836	709	745	619	7.9	10.5	13.2
2500	8.125	1000	873	872	738	775	642	8.1	10.8	13.6
2750	8.125	1042	907	905	763	802	662	8.3	11.2	14.1
3000	8.125	1075	933	931	783	822	678	8.5	11.5	14.5
3250	10.25	1125	967	977	812	866	704	8.4	11.3	14.2
3500	10.25	1157	991	1001	830	884	717	8.6	11.6	14.7
3750	10.25	1185	1012	1022	845	901	729	8.8	11.9	15.0
4000	10.25	1210	1032	1041	859	916	739	9.0	12.2	15.3

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3010

345 kV LPP Insulated High Pressure Liquid Filled Pipe Type Cable

Buried - Two Circuits - 24 in. Spacing

25°C Earth Ambient

Condr Size	Pipe ID	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 - Compact Segmental Strand							
1500	8.125	73.4	59.1	59.2	45.7	49.6	37.1
1750	8.125	75.7	60.8	60.8	46.5	50.4	37.6
2000	8.125	78.0	62.2	62.2	47.3	51.3	38.2
2250	8.125	80.0	63.4	63.3	48.0	52.1	38.7
2500	8.125	81.6	64.3	64.2	48.6	52.6	38.9
2750	8.125	83.5	65.5	65.3	49.1	53.3	39.3
3000	8.125	84.9	66.4	66.1	49.6	53.7	39.7
3250	10.25	91.7	70.4	71.6	52.6	58.4	42.0
3500	10.25	93.6	71.4	72.7	53.2	59.0	42.4
3750	10.25	95.0	72.2	73.4	53.6	59.4	42.6
4000	10.25	96.2	73.0	74.1	53.9	59.8	42.8

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345 kV LPP Insulated High Pressure Liquid Filled Pipe Type Cable

Buried - Two Circuits - 24 in. Spacing

25°C Earth Ambient

Condr Size	Pipe ID	OD	Wd	Rac	Qs	Qe	Ri	Rj	Rsd	Rd	Re @ 90 Rho & loss factor 75%	Re @ 90 Rho & loss factor 100%
					85°C - Aluminum Conductor - Compact Segmental Strand							
1500	8.125	2.855	1.27	14.88	1.018	1.177	2.03	0.00	0.73	0.10	2.75	4.49
1750	8.125	2.960	1.34	12.86	1.020	1.206	1.92	0.00	0.70	0.10	2.75	4.49
2000	8.125	3.050	1.40	11.36	1.022	1.236	1.83	0.00	0.68	0.10	2.75	4.49
2250	8.125	3.145	1.46	10.30	1.023	1.262	1.75	0.00	0.66	0.10	2.75	4.49
2500	8.125	3.220	1.51	9.37	1.025	1.289	1.70	0.00	0.64	0.10	2.75	4.49
2750	8.125	3.310	1.57	8.64	1.025	1.316	1.63	0.00	0.62	0.10	2.75	4.49
3000	8.125	3.390	1.62	8.09	1.026	1.340	1.58	0.00	0.61	0.10	2.75	4.49
3250	10.25	3.465	1.67	7.58	1.030	1.418	1.53	0.00	0.60	0.13	2.43	4.17
3500	10.25	3.565	1.74	7.16	1.031	1.446	1.47	0.00	0.58	0.13	2.43	4.17
3750	10.25	3.630	1.78	6.79	1.032	1.473	1.44	0.00	0.57	0.13	2.43	4.17
4000	10.25	3.705	1.83	6.48	1.032	1.498	1.40	0.00	0.56	0.13	2.43	4.17

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3012

345 kV LPP Insulated High Pressure Liquid Filled Pipe Type Cable

Buried - Two Circuits - 36 in. Spacing

25°C Earth Ambient

Condr Size	Pipe ID	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 .0010 pf & Rho 60	90	120
		85°C - Aluminum Conductor - Compact Segmental Strand								
1500	8.125	810	722	724	624	656	553	6.7	8.8	10.9
1750	8.125	875	776	778	668	702	590	7.0	9.2	11.4
2000	8.125	933	825	826	707	743	622	7.2	9.5	11.8
2250	8.125	982	865	866	738	776	648	7.4	9.8	12.3
2500	8.125	1029	903	904	769	809	672	7.6	10.1	12.6
2750	8.125	1072	939	939	796	837	694	7.8	10.4	13.0
3000	8.125	1107	967	966	817	860	711	8.0	10.7	13.4
3250	10.25	1161	1004	1018	849	908	740	7.9	10.5	13.1
3500	10.25	1195	1030	1043	868	928	755	8.1	10.8	13.5
3750	10.25	1225	1052	1066	886	947	768	8.3	11.0	13.8
4000	10.25	1252	1073	1087	901	963	780	8.4	11.3	14.1

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345 kV LPP Insulated High Pressure Liquid Filled Pipe Type Cable

Buried - Two Circuits - 36 in. Spacing

25°C Earth Ambient

Condr Size	Pipe ID	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 - Compact Segmental Strand							
1500	8.125	76.6	62.4	62.7	48.5	52.8	39.7
1750	8.125	79.3	64.1	64.3	49.5	53.9	40.4
2000	8.125	81.7	65.7	65.9	50.5	54.9	41.0
2250	8.125	84.0	67.1	67.3	51.2	55.7	41.5
2500	8.125	85.8	68.2	68.3	51.9	56.5	41.8
2750	8.125	87.8	69.6	69.6	52.6	57.2	42.3
3000	8.125	89.5	70.6	70.5	53.2	57.9	42.6
3250	10.25	97.0	75.1	76.9	56.6	63.2	45.4
3500	10.25	99.1	76.3	78.0	57.2	63.9	45.8
3750	10.25	100.8	77.1	78.9	57.8	64.5	46.1
4000	10.25	102.2	78.0	79.8	58.2	65.0	46.4

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3014

345 kV LPP Insulated High Pressure Liquid Filled Pipe Type Cable

Buried - Two Circuits - 36 in. Spacing

25°C Earth Ambient

Condr Size	Pipe ID	OD	Wd	Rac	Qs	Qe	Ri	Rj	Rsd	Rd	Re @ 90 Rho & loss factor 75%	100%
					85°C - Aluminum Conductor - Compact Segmental Strand							
1500	8.125	2.855	1.27	14.88	1.018	1.177	2.03	0.00	0.75	0.10	2.65	4.32
1750	8.125	2.960	1.34	12.86	1.020	1.206	1.92	0.00	0.72	0.10	2.65	4.32
2000	8.125	3.050	1.40	11.36	1.022	1.236	1.83	0.00	0.69	0.10	2.65	4.32
2250	8.125	3.145	1.46	10.30	1.023	1.262	1.75	0.00	0.67	0.10	2.65	4.32
2500	8.125	3.220	1.51	9.37	1.025	1.289	1.70	0.00	0.66	0.10	2.65	4.32
2750	8.125	3.310	1.57	8.64	1.025	1.316	1.63	0.00	0.64	0.10	2.65	4.32
3000	8.125	3.390	1.62	8.09	1.026	1.340	1.58	0.00	0.62	0.10	2.65	4.32
3250	10.25	3.465	1.67	7.58	1.030	1.418	1.53	0.00	0.60	0.13	2.33	4.01
3500	10.25	3.565	1.74	7.16	1.031	1.446	1.47	0.00	0.59	0.13	2.33	4.01
3750	10.25	3.630	1.78	6.79	1.032	1.473	1.44	0.00	0.58	0.13	2.33	4.01
4000	10.25	3.705	1.83	6.48	1.032	1.498	1.40	0.00	0.57	0.13	2.33	4.01

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