345 kV Paper 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 .0025 pf & Rho 60	delta Td for .0025 pf & Rho 90	delta Td for .0025 pf & Rho 120
85°C - Copper Conductor - Compact Segmental Strand										
1500	10.25	944	854	848	741	767	651	13.6	17.1	20.5
1750	10.25	1011	910	903	784	812	685	14.0	17.6	21.3
2000	10.25	1068	958	949	820	849	713	14.4	18.1	22.0
2250	10.25	1114	996	985	847	877	733	14.7	18.7	22.6
2500	10.25	1157	1030	1019	873	903	752	15.0	19.1	23.2
2750	10.25	1196	1061	1047	894	924	767	15.3	19.6	23.8
3000	10.25	1226	1084	1069	910	939	777	15.6	20.0	24.4

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345 kV Paper 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	10.25	42.4	36.3	36.0	29.5	31.0	24.8
1750	10.25	44.3	37.7	37.3	30.4	31.9	25.4
2000	10.25	45.9	38.8	38.3	31.1	32.6	25.8
2250	10.25	47.4	39.9	39.3	31.7	33.2	26.3
2500	10.25	48.7	40.8	40.1	32.2	33.7	26.6
2750	10.25	50.1	41.8	40.9	32.8	34.3	27.0
3000	10.25	51.2	42.5	41.6	33.2	34.6	27.2

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345 kV Paper 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	10.25	3.465	2.95	9.39	1.024	1.337	2.68	0.00	0.68	0.13	2.10	3.63
1750	10.25	3.570	3.10	8.23	1.027	1.388	2.55	0.00	0.66	0.13	2.10	3.63
2000	10.25	3.660	3.23	7.37	1.029	1.436	2.45	0.00	0.64	0.13	2.10	3.63
2250	10.25	3.755	3.36	6.79	1.030	1.478	2.35	0.00	0.62	0.13	2.10	3.63
2500	10.25	3.830	3.47	6.28	1.032	1.519	2.28	0.00	0.60	0.13	2.10	3.63
2750	10.25	3.920	3.60	5.88	1.033	1.559	2.20	0.00	0.59	0.13	2.10	3.63
3000	10.25	4.000	3.71	5.59	1.033	1.591	2.13	0.00	0.57	0.13	2.10	3.63

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2910

345 kV Paper 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 .0025 pf & Rho 60	90	120
		85°C - Copper Conductor - Compact Segmental Strand								
1500	10.25	850	752	730	624	631	526	16.7	21.7	26.8
1750	10.25	905	796	771	656	660	548	17.3	22.5	27.9
2000	10.25	952	834	805	682	684	565	17.7	23.3	28.8
2250	10.25	987	862	830	700	700	576	18.2	24.0	29.8
2500	10.25	1022	888	853	717	715	587	18.6	24.6	30.6
2750	10.25	1050	910	871	730	724	593	19.1	25.3	31.5
3000	10.25	1072	926	884	738	730	596	19.5	25.9	32.3

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345 kV Paper 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	10.25	72.2	60.3	57.9	47.1	47.7	38.6
1750	10.25	74.8	62.1	59.4	48.1	48.5	39.2
2000	10.25	77.0	63.6	60.6	48.9	49.1	39.7
2250	10.25	78.8	64.9	61.6	49.7	49.7	40.2
2500	10.25	80.6	65.9	62.4	50.2	50.1	40.5
2750	10.25	82.2	67.1	63.3	50.9	50.4	40.9
3000	10.25	83.6	68.0	63.9	51.3	50.7	41.2

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2912

345 kV Paper 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%	100%
					85°C - Copper Conductor - Compact Segmental Strand							
1500	10.25	3.465	2.95	9.39	1.024	1.337	2.68	0.00	0.64	0.13	2.43	4.17
1750	10.25	3.570	3.10	8.23	1.027	1.388	2.55	0.00	0.61	0.13	2.43	4.17
2000	10.25	3.660	3.23	7.37	1.029	1.436	2.45	0.00	0.60	0.13	2.43	4.17
2250	10.25	3.755	3.36	6.79	1.030	1.478	2.35	0.00	0.58	0.13	2.43	4.17
2500	10.25	3.830	3.47	6.28	1.032	1.519	2.28	0.00	0.56	0.13	2.43	4.17
2750	10.25	3.920	3.60	5.88	1.033	1.559	2.20	0.00	0.55	0.13	2.43	4.17
3000	10.25	4.000	3.71	5.59	1.033	1.591	2.13	0.00	0.54	0.13	2.43	4.17

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345 kV Paper 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 .0025 pf & Rho 60	90	120
		85°C - Copper Conductor - Compact Segmental Strand								
1500	10.25	877	780	763	656	669	560	15.8	20.3	24.9
1750	10.25	936	828	808	691	702	585	16.3	21.1	25.9
2000	10.25	985	868	845	719	730	606	16.7	21.7	26.8
2250	10.25	1024	899	873	740	749	619	17.2	22.4	27.6
2500	10.25	1060	928	899	760	767	632	17.5	22.9	28.3
2750	10.25	1091	952	920	775	780	640	18.0	23.5	29.2
3000	10.25	1115	970	935	785	788	645	18.3	24.1	29.9

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2914

345 kV Paper 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	10.25	75.7	63.6	61.6	50.2	51.4	41.4
1750	10.25	78.7	65.6	63.4	51.4	52.4	42.1
2000	10.25	81.0	67.3	64.7	52.2	53.2	42.7
2250	10.25	83.3	68.8	66.1	53.1	53.9	43.2
2500	10.25	85.1	70.1	67.1	53.9	54.5	43.7
2750	10.25	87.1	71.4	68.1	54.6	55.0	44.1
3000	10.25	88.6	72.5	68.9	55.1	55.4	44.4

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345 kV Paper 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 - Copper Conductor - Compact Segmental Strand												
1500	10.25	3.465	2.95	9.39	1.024	1.337	2.68	0.00	0.65	0.13	2.33	4.01
1750	10.25	3.570	3.10	8.23	1.027	1.388	2.55	0.00	0.62	0.13	2.33	4.01
2000	10.25	3.660	3.23	7.37	1.029	1.436	2.45	0.00	0.61	0.13	2.33	4.01
2250	10.25	3.755	3.36	6.79	1.030	1.478	2.35	0.00	0.59	0.13	2.33	4.01
2500	10.25	3.830	3.47	6.28	1.032	1.519	2.28	0.00	0.57	0.13	2.33	4.01
2750	10.25	3.920	3.60	5.88	1.033	1.559	2.20	0.00	0.56	0.13	2.33	4.01
3000	10.25	4.000	3.71	5.59	1.033	1.591	2.13	0.00	0.55	0.13	2.33	4.01

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2916

345 kV Paper 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 .0025 pf & Rho 60	90	120
85°C - Aluminum Conductor - Compact Segmental Strand										
1500	10.25	764	696	690	606	625	534	13.7	17.1	20.6
1750	10.25	827	749	742	649	669	569	14.1	17.7	21.3
2000	10.25	883	797	788	686	708	599	14.4	18.2	22.0
2250	10.25	930	837	827	717	738	622	14.8	18.7	22.7
2500	10.25	976	875	864	746	768	645	15.0	19.1	23.2
2750	10.25	1019	910	897	772	794	664	15.4	19.6	23.8
3000	10.25	1053	938	924	792	815	679	15.7	20.0	24.4
3250	10.25	1089	967	951	813	835	694	16.0	20.4	24.9
3500	10.25	1122	993	975	830	852	705	16.3	21.0	25.6
3750	10.25	1151	1016	997	847	868	717	16.6	21.3	26.1
4000	10.25	1178	1037	1016	861	881	726	16.8	21.7	26.6

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345 kV Paper 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	10.25	40.4	35.0	34.6	28.7	30.0	24.3
1750	10.25	42.1	36.2	35.7	29.5	30.8	24.8
2000	10.25	43.6	37.3	36.7	30.2	31.5	25.3
2250	10.25	45.0	38.4	37.7	30.8	32.1	25.7
2500	10.25	46.2	39.2	38.5	31.3	32.6	26.1
2750	10.25	47.6	40.1	39.3	31.9	33.1	26.4
3000	10.25	48.7	40.9	40.0	32.4	33.6	26.7
3250	10.25	49.8	41.7	40.7	32.8	34.0	27.0
3500	10.25	51.0	42.5	41.4	33.3	34.4	27.3
3750	10.25	51.9	43.1	42.0	33.7	34.8	27.6
4000	10.25	52.9	43.8	42.5	34.0	35.1	27.8

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345 kV Paper 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	10.25	3.465	2.95	14.84	1.015	1.214	2.68	0.00	0.69	0.13	2.10	3.63
1750	10.25	3.570	3.10	12.79	1.017	1.250	2.55	0.00	0.67	0.13	2.10	3.63
2000	10.25	3.660	3.23	11.29	1.019	1.285	2.45	0.00	0.65	0.13	2.10	3.63
2250	10.25	3.755	3.36	10.22	1.020	1.317	2.35	0.00	0.63	0.13	2.10	3.63
2500	10.25	3.830	3.47	9.28	1.022	1.351	2.28	0.00	0.61	0.13	2.10	3.63
2750	10.25	3.920	3.60	8.53	1.023	1.385	2.20	0.00	0.60	0.13	2.10	3.63
3000	10.25	4.000	3.71	7.98	1.023	1.414	2.13	0.00	0.58	0.13	2.10	3.63
3250	10.25	4.075	3.81	7.46	1.024	1.446	2.07	0.00	0.57	0.13	2.10	3.63
3500	10.25	4.175	3.95	7.02	1.025	1.477	2.00	0.00	0.55	0.13	2.10	3.63
3750	10.25	4.240	4.04	6.65	1.025	1.507	1.95	0.00	0.54	0.13	2.10	3.63
4000	10.25	4.315	4.14	6.33	1.026	1.536	1.90	0.00	0.53	0.13	2.10	3.63

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345 kV Paper 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 .0025 pf & Rho 60	delta Td for .0025 pf & Rho 90	delta Td for .0025 pf & Rho 120
85°C - Aluminum Conductor - Compact Segmental Strand										
1500	10.25	692	615	597	513	517	434	16.7	21.8	26.8
1750	10.25	744	659	637	545	547	457	17.3	22.6	27.9
2000	10.25	791	697	672	573	573	477	17.8	23.3	28.8
2250	10.25	829	728	700	594	592	491	18.3	24.0	29.8
2500	10.25	866	759	727	615	611	505	18.6	24.6	30.6
2750	10.25	899	785	750	633	626	516	19.1	25.3	31.5
3000	10.25	927	806	768	646	636	523	19.5	25.9	32.3
3250	10.25	954	828	786	659	647	530	19.9	26.5	33.1
3500	10.25	978	846	800	669	652	533	20.4	27.2	34.1
3750	10.25	1000	863	814	679	659	538	20.8	27.7	34.7
4000	10.25	1020	878	825	687	663	540	21.2	28.3	35.5

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2920

345 kV Paper 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	10.25	69.5	58.6	56.2	46.2	46.6	38.1
1750	10.25	71.7	60.3	57.6	47.1	47.3	38.7
2000	10.25	73.8	61.7	58.7	48.0	48.0	39.2
2250	10.25	75.7	63.0	59.7	48.7	48.5	39.6
2500	10.25	77.2	64.2	60.6	49.3	48.9	40.0
2750	10.25	78.9	65.3	61.5	50.0	49.4	40.5
3000	10.25	80.4	66.2	62.2	50.5	49.6	40.8
3250	10.25	81.8	67.3	62.9	51.0	50.0	41.1
3500	10.25	83.2	68.2	63.5	51.5	50.2	41.4
3750	10.25	84.3	69.0	64.1	51.9	50.3	41.6
4000	10.25	85.5	69.8	64.6	52.4	50.5	41.9

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345 kV Paper 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%	100%
85°C - Aluminum Conductor - Compact Segmental Strand												
1500	10.25	3.465	2.95	14.84	1.015	1.214	2.68	0.00	0.64	0.13	2.43	4.17
1750	10.25	3.570	3.10	12.79	1.017	1.250	2.55	0.00	0.62	0.13	2.43	4.17
2000	10.25	3.660	3.23	11.29	1.019	1.285	2.45	0.00	0.60	0.13	2.43	4.17
2250	10.25	3.755	3.36	10.22	1.020	1.317	2.35	0.00	0.58	0.13	2.43	4.17
2500	10.25	3.830	3.47	9.28	1.022	1.351	2.28	0.00	0.57	0.13	2.43	4.17
2750	10.25	3.920	3.60	8.53	1.023	1.385	2.20	0.00	0.56	0.13	2.43	4.17
3000	10.25	4.000	3.71	7.98	1.023	1.414	2.13	0.00	0.54	0.13	2.43	4.17
3250	10.25	4.075	3.81	7.46	1.024	1.446	2.07	0.00	0.53	0.13	2.43	4.17
3500	10.25	4.175	3.95	7.02	1.025	1.477	2.00	0.00	0.52	0.13	2.43	4.17
3750	10.25	4.240	4.04	6.65	1.025	1.507	1.95	0.00	0.51	0.13	2.43	4.17
4000	10.25	4.315	4.14	6.33	1.026	1.536	1.90	0.00	0.50	0.13	2.43	4.17

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2922

345 kV Paper 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 .0025 pf & Rho 60	90	120
85°C - Aluminum Conductor - Compact Segmental Strand										
1500	10.25	713	638	623	539	547	461	15.8	20.3	24.9
1750	10.25	768	684	667	574	582	488	16.3	21.1	25.9
2000	10.25	817	725	705	604	611	510	16.8	21.7	26.8
2250	10.25	858	758	736	628	633	527	17.2	22.4	27.6
2500	10.25	897	791	766	651	655	544	17.5	22.9	28.3
2750	10.25	934	820	791	671	673	557	18.0	23.6	29.2
3000	10.25	963	843	812	686	686	566	18.4	24.1	29.9
3250	10.25	992	866	832	701	700	575	18.7	24.6	30.6
3500	10.25	1019	887	849	713	708	580	19.2	25.3	31.5
3750	10.25	1043	905	865	725	718	587	19.5	25.8	32.1
4000	10.25	1064	922	878	734	724	591	19.9	26.3	32.8

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345 kV Paper 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	10.25	72.7	61.7	59.7	49.1	50.1	40.7
1750	10.25	75.2	63.5	61.3	50.2	51.1	41.5
2000	10.25	77.5	65.1	62.6	51.1	51.9	42.0
2250	10.25	79.6	66.6	63.9	52.0	52.5	42.6
2500	10.25	81.3	67.9	65.0	52.7	53.1	43.1
2750	10.25	83.4	69.3	65.9	53.5	53.7	43.6
3000	10.25	85.0	70.4	66.9	54.1	54.1	43.9
3250	10.25	86.6	71.4	67.7	54.7	54.6	44.3
3500	10.25	88.3	72.7	68.6	55.3	54.9	44.6
3750	10.25	89.6	73.5	69.2	55.8	55.2	44.9
4000	10.25	90.9	74.4	69.8	56.3	55.4	45.2

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2924

345 kV Paper 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 - Aluminum Conductor - Compact Segmental Strand							
1500	10.25	3.465	2.95	14.84	1.015	1.214	2.68	0.00	0.65	0.13	2.33	4.01
1750	10.25	3.570	3.10	12.79	1.017	1.250	2.55	0.00	0.63	0.13	2.33	4.01
2000	10.25	3.660	3.23	11.29	1.019	1.285	2.45	0.00	0.61	0.13	2.33	4.01
2250	10.25	3.755	3.36	10.22	1.020	1.317	2.35	0.00	0.60	0.13	2.33	4.01
2500	10.25	3.830	3.47	9.28	1.022	1.351	2.28	0.00	0.58	0.13	2.33	4.01
2750	10.25	3.920	3.60	8.53	1.023	1.385	2.20	0.00	0.56	0.13	2.33	4.01
3000	10.25	4.000	3.71	7.98	1.023	1.414	2.13	0.00	0.55	0.13	2.33	4.01
3250	10.25	4.075	3.81	7.46	1.024	1.446	2.07	0.00	0.54	0.13	2.33	4.01
3500	10.25	4.175	3.95	7.02	1.025	1.477	2.00	0.00	0.53	0.13	2.33	4.01
3750	10.25	4.240	4.04	6.65	1.025	1.507	1.95	0.00	0.52	0.13	2.33	4.01
4000	10.25	4.315	4.14	6.33	1.026	1.536	1.90	0.00	0.50	0.13	2.33	4.01

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