500 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 - Copper Conductor - Compact Segmental Strand						
2000	8.125	1112	999	988	857	887	750	11.3	14.4	17.7
2250	10.25	1183	1051	1056	904	953	793	11.1	14.2	17.2
2500	10.25	1228	1088	1093	932	982	814	11.3	14.5	17.7
2750	10.25	1269	1120	1124	955	1007	832	11.6	14.9	18.2
3000	10.25	1300	1144	1148	972	1025	844	11.9	15.2	18.6

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500 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							
2000	8.125	45.3	38.0	37.4	30.0	31.6	24.7
2250	10.25	50.0	41.1	41.4	32.4	35.2	26.8
2500	10.25	51.3	42.0	42.3	33.0	35.7	27.1
2750	10.25	52.7	42.9	43.2	33.5	36.3	27.4
3000	10.25	53.9	43.7	43.9	33.9	36.8	27.7

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500 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 - Copper Conductor - Compact Segmental Strand						
2000	8.125	3.340	2.50	7.46	1.029	1.368	2.14	0.00	0.67	0.10	2.41	3.95
2250	10.25	3.435	2.61	6.88	1.034	1.460	2.05	0.00	0.66	0.13	2.10	3.63
2500	10.25	3.510	2.69	6.37	1.035	1.499	1.99	0.00	0.64	0.13	2.10	3.63
2750	10.25	3.600	2.79	5.98	1.036	1.535	1.91	0.00	0.62	0.13	2.10	3.63
3000	10.25	3.680	2.88	5.70	1.037	1.566	1.85	0.00	0.61	0.13	2.10	3.63

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3018

500 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						
2000	8.125	1002	880	857	729	742	618	13.9	18.4	23.0
2250	10.25	1057	918	906	760	786	644	13.8	18.3	22.8
2500	10.25	1093	947	932	780	805	659	14.1	18.8	23.4
2750	10.25	1124	970	954	796	820	669	14.5	19.3	24.1
3000	10.25	1148	988	970	807	830	675	14.9	19.8	24.8

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500 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							
2000	8.125	76.4	62.4	59.9	47.5	48.7	38.4
2250	10.25	82.9	66.4	65.1	50.4	52.8	40.6
2500	10.25	84.6	67.5	65.9	51.0	53.3	41.0
2750	10.25	86.4	68.6	66.9	51.7	53.8	41.4
3000	10.25	87.8	69.5	67.7	52.2	54.2	41.7

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3020

500 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%	100%
85°C - Copper Conductor - Compact Segmental Strand												
2000	8.125	3.340	2.50	7.46	1.029	1.368	2.14	0.00	0.63	0.10	2.75	4.49
2250	10.25	3.435	2.61	6.88	1.034	1.460	2.05	0.00	0.62	0.13	2.43	4.17
2500	10.25	3.510	2.69	6.37	1.035	1.499	1.99	0.00	0.60	0.13	2.43	4.17
2750	10.25	3.600	2.79	5.98	1.036	1.535	1.91	0.00	0.59	0.13	2.43	4.17
3000	10.25	3.680	2.88	5.70	1.037	1.566	1.85	0.00	0.57	0.13	2.43	4.17

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500 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								
2000	8.125	1034	913	893	764	782	654	13.1	17.2	21.4
2250	10.25	1093	955	947	799	831	684	13.0	17.0	21.1
2500	10.25	1132	985	976	821	854	701	13.3	17.5	21.7
2750	10.25	1165	1011	1001	839	871	712	13.6	18.0	22.4
3000	10.25	1191	1031	1019	852	883	721	14.0	18.4	22.9

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3022

500 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							
2000	8.125	80.4	66.0	63.8	50.7	52.4	41.2
2250	10.25	87.6	70.6	69.6	54.1	57.2	43.8
2500	10.25	89.6	71.7	70.7	54.8	57.9	44.3
2750	10.25	91.5	73.1	72.0	55.5	58.6	44.7
3000	10.25	93.2	74.2	72.9	56.2	59.0	45.1

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500 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 - Copper Conductor - Compact Segmental Strand												
2000	8.125	3.340	2.50	7.46	1.029	1.368	2.14	0.00	0.64	0.10	2.65	4.32
2250	10.25	3.435	2.61	6.88	1.034	1.460	2.05	0.00	0.63	0.13	2.33	4.01
2500	10.25	3.510	2.69	6.37	1.035	1.499	1.99	0.00	0.61	0.13	2.33	4.01
2750	10.25	3.600	2.79	5.98	1.036	1.535	1.91	0.00	0.60	0.13	2.33	4.01
3000	10.25	3.680	2.88	5.70	1.037	1.566	1.85	0.00	0.58	0.13	2.33	4.01

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3024

500 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										
2000	8.125	921	832	822	718	740	630	11.3	14.5	17.7
2250	10.25	992	887	890	767	806	675	11.1	14.2	17.3
2500	10.25	1041	928	930	799	840	701	11.4	14.5	17.7
2750	10.25	1087	966	968	828	870	724	11.6	14.9	18.2
3000	10.25	1124	996	997	851	894	741	11.9	15.3	18.7
3250	10.25	1162	1026	1027	874	918	759	12.1	15.6	19.1
3500	10.25	1198	1054	1055	894	939	773	12.4	16.0	19.7
3750	10.25	1229	1079	1079	912	958	787	12.6	16.3	20.0
4000	10.25	1258	1102	1101	928	974	798	12.8	16.6	20.5

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500 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							
2000	8.125	43.3	36.7	36.0	29.2	30.6	24.2
2250	10.25	47.4	39.5	39.7	31.5	34.0	26.2
2500	10.25	48.7	40.4	40.5	32.0	34.5	26.5
2750	10.25	50.1	41.3	41.5	32.6	35.1	26.9
3000	10.25	51.3	42.2	42.2	33.1	35.6	27.2
3250	10.25	52.5	42.9	42.9	33.5	36.1	27.5
3500	10.25	53.8	43.7	43.8	34.1	36.6	27.8
3750	10.25	54.7	44.4	44.4	34.4	37.0	28.0
4000	10.25	55.8	45.1	45.0	34.8	37.3	28.3

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500 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							
2000	8.125	3.340	2.50	11.32	1.019	1.242	2.14	0.00	0.68	0.10	2.41	3.95
2250	10.25	3.435	2.61	10.26	1.023	1.308	2.05	0.00	0.67	0.13	2.10	3.63
2500	10.25	3.510	2.69	9.33	1.024	1.341	1.99	0.00	0.65	0.13	2.10	3.63
2750	10.25	3.600	2.79	8.58	1.025	1.373	1.91	0.00	0.63	0.13	2.10	3.63
3000	10.25	3.680	2.88	8.04	1.026	1.401	1.85	0.00	0.62	0.13	2.10	3.63
3250	10.25	3.755	2.97	7.52	1.027	1.431	1.80	0.00	0.60	0.13	2.10	3.63
3500	10.25	3.855	3.08	7.09	1.028	1.461	1.73	0.00	0.58	0.13	2.10	3.63
3750	10.25	3.920	3.15	6.71	1.029	1.489	1.69	0.00	0.57	0.13	2.10	3.63
4000	10.25	3.995	3.24	6.40	1.029	1.517	1.65	0.00	0.56	0.13	2.10	3.63

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500 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								
2000	8.125	834	736	716	613	622	521	13.9	18.4	23.0
2250	10.25	891	779	767	648	668	551	13.8	18.3	22.8
2500	10.25	932	812	798	672	692	569	14.2	18.8	23.4
2750	10.25	969	841	826	693	712	584	14.6	19.3	24.2
3000	10.25	998	864	847	709	727	595	14.9	19.8	24.8
3250	10.25	1028	888	869	725	743	606	15.2	20.3	25.4
3500	10.25	1055	909	887	738	754	614	15.6	20.9	26.3
3750	10.25	1080	927	904	751	765	622	15.9	21.3	26.8
4000	10.25	1102	944	918	761	774	628	16.2	21.8	27.4

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500 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							
2000	8.125	73.7	60.7	58.2	46.7	47.6	37.9
2250	10.25	79.5	64.5	63.0	49.4	51.6	40.1
2500	10.25	81.3	65.6	63.9	50.0	52.1	40.4
2750	10.25	83.1	66.7	64.9	50.7	52.6	40.8
3000	10.25	84.6	67.7	65.8	51.3	53.0	41.2
3250	10.25	86.0	68.7	66.5	51.7	53.4	41.5
3500	10.25	87.6	69.8	67.3	52.3	53.8	41.9
3750	10.25	88.9	70.4	67.9	52.7	54.0	42.1
4000	10.25	90.1	71.3	68.5	53.1	54.3	42.4

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500 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%	100%
					85°C - Aluminum Conductor - Compact Segmental Strand							
2000	8.125	3.340	2.50	11.32	1.019	1.242	2.14	0.00	0.64	0.10	2.75	4.49
2250	10.25	3.435	2.61	10.26	1.023	1.308	2.05	0.00	0.62	0.13	2.43	4.17
2500	10.25	3.510	2.69	9.33	1.024	1.341	1.99	0.00	0.61	0.13	2.43	4.17
2750	10.25	3.600	2.79	8.58	1.025	1.373	1.91	0.00	0.59	0.13	2.43	4.17
3000	10.25	3.680	2.88	8.04	1.026	1.401	1.85	0.00	0.58	0.13	2.43	4.17
3250	10.25	3.755	2.97	7.52	1.027	1.431	1.80	0.00	0.56	0.13	2.43	4.17
3500	10.25	3.855	3.08	7.09	1.028	1.461	1.73	0.00	0.55	0.13	2.43	4.17
3750	10.25	3.920	3.15	6.71	1.029	1.489	1.69	0.00	0.54	0.13	2.43	4.17
4000	10.25	3.995	3.24	6.40	1.029	1.517	1.65	0.00	0.53	0.13	2.43	4.17

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3030

500 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										
2000	8.125	859	763	746	642	655	550	13.1	17.2	21.4
2250	10.25	920	809	801	681	706	585	13.0	17.1	21.1
2500	10.25	963	844	835	707	733	605	13.3	17.5	21.7
2750	10.25	1002	876	865	730	755	622	13.7	18.0	22.4
3000	10.25	1034	901	889	748	773	634	14.0	18.4	23.0
3250	10.25	1066	926	912	766	790	647	14.3	18.9	23.5
3500	10.25	1096	949	933	780	804	656	14.7	19.4	24.3
3750	10.25	1122	969	952	794	818	666	14.9	19.8	24.7
4000	10.25	1146	987	968	806	828	673	15.2	20.2	25.3

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500 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							
2000	8.125	77.3	64.1	61.9	49.8	51.2	40.5
2250	10.25	83.8	68.3	67.3	53.0	55.8	43.2
2500	10.25	85.7	69.6	68.5	53.7	56.5	43.6
2750	10.25	87.7	71.0	69.6	54.4	57.0	44.1
3000	10.25	89.5	72.1	70.7	55.1	57.7	44.4
3250	10.25	91.1	73.1	71.5	55.7	58.1	44.8
3500	10.25	93.1	74.4	72.5	56.3	58.6	45.2
3750	10.25	94.4	75.2	73.3	56.7	59.0	45.5
4000	10.25	95.9	76.1	74.0	57.2	59.3	45.8

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3032

500 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 - Aluminum Conductor - Compact Segmental Strand												
2000	8.125	3.340	2.50	11.32	1.019	1.242	2.14	0.00	0.65	0.10	2.65	4.32
2250	10.25	3.435	2.61	10.26	1.023	1.308	2.05	0.00	0.63	0.13	2.33	4.01
2500	10.25	3.510	2.69	9.33	1.024	1.341	1.99	0.00	0.62	0.13	2.33	4.01
2750	10.25	3.600	2.79	8.58	1.025	1.373	1.91	0.00	0.60	0.13	2.33	4.01
3000	10.25	3.680	2.88	8.04	1.026	1.401	1.85	0.00	0.59	0.13	2.33	4.01
3250	10.25	3.755	2.97	7.52	1.027	1.431	1.80	0.00	0.57	0.13	2.33	4.01
3500	10.25	3.855	3.08	7.09	1.028	1.461	1.73	0.00	0.56	0.13	2.33	4.01
3750	10.25	3.920	3.15	6.71	1.029	1.489	1.69	0.00	0.55	0.13	2.33	4.01
4000	10.25	3.995	3.24	6.40	1.029	1.517	1.65	0.00	0.54	0.13	2.33	4.01

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