115 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 .0030 pf & Rho 60	90	120
				85°C - Copper Conductor - Compact Round Strand						
350	5.047	488	454	453	411	424	377	2.1	2.6	3.1
500	5.047	594	550	548	495	511	452	2.2	2.8	3.4
750	5.047	734	676	673	603	624	547	2.5	3.1	3.8
1000	6.125	865	787	789	697	729	630	2.8	3.5	4.3
1250	6.125	949	861	861	757	794	682	2.9	3.8	4.7
				85°C - Copper Conductor - Compact Segmental Strand						
1000	6.125	909	826	827	728	763	657	2.9	3.7	4.5
1250	6.125	1013	916	917	804	842	722	3.0	3.9	4.8
1500	6.125	1102	991	992	866	908	775	3.2	4.2	5.1
1750	6.125	1176	1054	1056	917	963	819	3.3	4.3	5.4
2000	8.125	1275	1129	1148	982	1050	877	3.2	4.2	5.2
2250	8.125	1328	1171	1192	1016	1087	905	3.3	4.4	5.4
2500	8.125	1375	1210	1231	1046	1121	930	3.4	4.5	5.6
2750	8.125	1417	1244	1264	1072	1150	952	3.5	4.7	5.8
3000	8.125	1451	1270	1291	1092	1172	968	3.6	4.8	5.9

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2854

115 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 Round Strand						
350	5.047	29.9	26.0	25.9	21.5	22.8	18.3
500	5.047	32.2	27.7	27.6	22.7	24.1	19.1
750	5.047	35.1	29.9	29.7	24.1	25.7	20.1
1000	6.125	40.1	33.5	33.7	26.6	29.0	22.1
1250	6.125	42.1	35.0	35.0	27.5	30.0	22.6
	85°C - Copper Conductor - Compact Segmental Strand						
1000	6.125	41.3	34.4	34.5	27.1	29.6	22.4
1250	6.125	43.3	35.8	35.9	28.0	30.5	23.0
1500	6.125	45.2	37.0	37.1	28.7	31.4	23.4
1750	6.125	46.8	38.0	38.2	29.3	32.1	23.8
2000	8.125	52.8	41.9	43.2	32.2	36.5	26.2
2250	8.125	54.3	42.8	44.2	32.8	37.2	26.5
2500	8.125	55.6	43.6	45.0	33.2	37.8	26.8
2750	8.125	56.8	44.4	45.8	33.7	38.3	27.1
3000	8.125	58.0	45.1	46.5	34.0	38.8	27.3

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115 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 Round Strand							
350	5.047	1.736	0.36	38.47	1.011	1.049	2.80	0.00	1.13	0.16	3.02	4.55
500	5.047	1.856	0.40	27.36	1.015	1.069	2.48	0.00	1.07	0.16	3.02	4.55
750	5.047	2.028	0.46	18.93	1.019	1.100	2.14	0.00	0.99	0.16	3.02	4.55
1000	6.125	2.090	0.57	14.98	1.025	1.142	1.76	0.00	0.95	0.13	2.78	4.31
1250	6.125	2.215	0.62	12.76	1.027	1.168	1.62	0.00	0.90	0.13	2.78	4.31
					85°C - Copper Conductor - Compact Segmental Strand							
1000	6.125	2.170	0.60	13.80	1.026	1.154	1.67	0.00	0.92	0.13	2.78	4.31
1250	6.125	2.290	0.65	11.30	1.029	1.190	1.54	0.00	0.87	0.13	2.78	4.31
1500	6.125	2.405	0.69	9.69	1.032	1.223	1.44	0.00	0.83	0.13	2.78	4.31
1750	6.125	2.510	0.73	8.58	1.034	1.254	1.35	0.00	0.79	0.13	2.78	4.31
2000	8.125	2.600	0.77	7.77	1.040	1.332	1.29	0.00	0.78	0.10	2.41	3.95
2250	8.125	2.695	0.81	7.21	1.041	1.360	1.23	0.00	0.75	0.10	2.41	3.95
2500	8.125	2.770	0.84	6.74	1.042	1.388	1.19	0.00	0.73	0.10	2.41	3.95
2750	8.125	2.860	0.87	6.37	1.043	1.414	1.14	0.00	0.71	0.10	2.41	3.95
3000	8.125	2.940	0.90	6.10	1.043	1.434	1.10	0.00	0.70	0.10	2.41	3.95

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115 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 .0030 pf & Rho 60	delta Td for .0030 pf & Rho 90	delta Td for .0030 pf & Rho 120
		85°C - Copper Conductor - Compact Round Strand								
350	5.047	463	423	422	375	390	340	2.4	3.1	3.9
500	5.047	561	509	509	449	468	405	2.6	3.4	4.3
750	5.047	690	622	621	544	567	488	2.9	3.9	4.8
1000	6.125	805	717	719	622	655	555	3.3	4.4	5.5
1250	6.125	880	780	783	674	709	598	3.6	4.8	6.0
		85°C - Copper Conductor - Compact Segmental Strand								
1000	6.125	845	750	752	649	683	577	3.5	4.7	5.8
1250	6.125	938	828	831	713	751	632	3.7	4.9	6.2
1500	6.125	1016	893	895	766	807	677	3.9	5.2	6.6
1750	6.125	1081	947	949	809	853	713	4.1	5.5	6.9
2000	8.125	1161	1005	1020	856	917	754	4.0	5.4	6.8
2250	8.125	1205	1040	1055	883	946	776	4.2	5.7	7.1
2500	8.125	1245	1071	1087	908	973	796	4.3	5.8	7.4
2750	8.125	1281	1099	1115	929	995	813	4.4	6.0	7.6
3000	8.125	1307	1119	1135	944	1012	825	4.6	6.2	7.9

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115 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 Round Strand							
350	5.047	54.1	45.5	45.3	36.2	39.0	30.1
500	5.047	57.6	47.9	47.9	37.8	40.8	31.2
750	5.047	62.3	51.1	51.0	39.8	43.0	32.5
1000	6.125	69.9	56.2	56.5	43.1	47.4	35.0
1250	6.125	72.9	58.1	58.5	44.3	48.6	35.7
85°C - Copper Conductor - Compact Segmental Strand							
1000	6.125	71.8	57.4	57.6	43.8	48.2	35.4
1250	6.125	74.9	59.2	59.6	44.9	49.4	36.1
1500	6.125	77.5	60.8	61.1	45.9	50.5	36.7
1750	6.125	79.8	62.3	62.5	46.6	51.4	37.2
2000	8.125	88.3	67.3	69.2	50.1	56.8	39.9
2250	8.125	90.3	68.5	70.4	50.7	57.5	40.3
2500	8.125	92.0	69.4	71.3	51.3	58.2	40.6
2750	8.125	93.9	70.5	72.4	51.9	58.7	40.9
3000	8.125	95.1	71.2	73.1	52.2	59.2	41.2

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115 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 Round Strand												
350	5.047	1.736	0.36	38.47	1.011	1.049	2.80	0.00	1.09	0.16	3.36	5.09
500	5.047	1.856	0.40	27.36	1.015	1.069	2.48	0.00	1.03	0.16	3.36	5.09
750	5.047	2.028	0.46	18.93	1.019	1.100	2.14	0.00	0.95	0.16	3.36	5.09
1000	6.125	2.090	0.57	14.98	1.025	1.142	1.76	0.00	0.91	0.13	3.11	4.85
1250	6.125	2.215	0.62	12.76	1.027	1.168	1.62	0.00	0.86	0.13	3.11	4.85
85°C - Copper Conductor - Compact Segmental Strand												
1000	6.125	2.170	0.60	13.80	1.026	1.154	1.67	0.00	0.88	0.13	3.11	4.85
1250	6.125	2.290	0.65	11.30	1.029	1.190	1.54	0.00	0.83	0.13	3.11	4.85
1500	6.125	2.405	0.69	9.69	1.032	1.223	1.44	0.00	0.79	0.13	3.11	4.85
1750	6.125	2.510	0.73	8.58	1.034	1.254	1.35	0.00	0.76	0.13	3.11	4.85
2000	8.125	2.600	0.77	7.77	1.040	1.332	1.29	0.00	0.74	0.10	2.75	4.49
2250	8.125	2.695	0.81	7.21	1.041	1.360	1.23	0.00	0.72	0.10	2.75	4.49
2500	8.125	2.770	0.84	6.74	1.042	1.388	1.19	0.00	0.70	0.10	2.75	4.49
2750	8.125	2.860	0.87	6.37	1.043	1.414	1.14	0.00	0.68	0.10	2.75	4.49
3000	8.125	2.940	0.90	6.10	1.043	1.434	1.10	0.00	0.66	0.10	2.75	4.49

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115 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 .0030 pf & Rho 60	90	120
		85°C - Copper Conductor - Compact Round Strand								
350	5.047	470	432	431	385	400	350	2.3	3.0	3.6
500	5.047	571	521	520	462	480	418	2.5	3.3	4.0
750	5.047	703	637	635	560	583	504	2.8	3.6	4.5
1000	6.125	822	737	739	643	675	575	3.2	4.2	5.2
1250	6.125	900	802	804	696	732	621	3.4	4.5	5.6
		85°C - Copper Conductor - Compact Segmental Strand								
1000	6.125	863	771	773	670	705	598	3.3	4.4	5.4
1250	6.125	959	853	855	738	776	656	3.5	4.7	5.8
1500	6.125	1040	920	922	793	835	703	3.7	4.9	6.2
1750	6.125	1108	977	978	838	883	741	3.8	5.2	6.5
2000	8.125	1193	1038	1055	890	953	786	3.8	5.1	6.3
2250	8.125	1239	1075	1092	918	984	810	3.9	5.3	6.6
2500	8.125	1281	1109	1126	945	1013	832	4.0	5.4	6.8
2750	8.125	1319	1138	1155	967	1037	849	4.2	5.6	7.1
3000	8.125	1347	1160	1178	983	1055	862	4.3	5.8	7.3

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115 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 Round Strand						
350	5.047	55.6	47.3	47.1	38.0	40.9	31.8
500	5.047	59.6	50.0	49.9	39.9	42.8	33.1
750	5.047	64.5	53.5	53.2	42.0	45.3	34.5
1000	6.125	72.8	59.2	59.5	45.8	50.2	37.3
1250	6.125	76.1	61.2	61.5	47.0	51.6	38.2
	85°C - Copper Conductor - Compact Segmental Strand						
1000	6.125	74.8	60.4	60.7	46.5	51.1	37.8
1250	6.125	78.1	62.6	62.9	47.8	52.5	38.6
1500	6.125	81.1	64.3	64.6	48.9	53.7	39.3
1750	6.125	83.6	66.0	66.1	49.7	54.7	39.8
2000	8.125	93.0	71.5	73.7	53.8	61.0	43.0
2250	8.125	95.2	72.9	75.0	54.4	61.8	43.5
2500	8.125	97.1	74.1	76.2	55.1	62.6	43.9
2750	8.125	99.2	75.2	77.3	55.7	63.3	44.2
3000	8.125	100.7	76.1	78.3	56.2	63.9	44.4

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115 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 - Copper Conductor - Compact Round Strand							
350	5.047	1.736	0.36	38.47	1.011	1.049	2.80	0.00	1.10	0.16	3.25	4.93
500	5.047	1.856	0.40	27.36	1.015	1.069	2.48	0.00	1.04	0.16	3.25	4.93
750	5.047	2.028	0.46	18.93	1.019	1.100	2.14	0.00	0.96	0.16	3.25	4.93
1000	6.125	2.090	0.57	14.98	1.025	1.142	1.76	0.00	0.92	0.13	3.01	4.69
1250	6.125	2.215	0.62	12.76	1.027	1.168	1.62	0.00	0.87	0.13	3.01	4.69
					85°C - Copper Conductor - Compact Segmental Strand							
1000	6.125	2.170	0.60	13.80	1.026	1.154	1.67	0.00	0.89	0.13	3.01	4.69
1250	6.125	2.290	0.65	11.30	1.029	1.190	1.54	0.00	0.85	0.13	3.01	4.69
1500	6.125	2.405	0.69	9.69	1.032	1.223	1.44	0.00	0.81	0.13	3.01	4.69
1750	6.125	2.510	0.73	8.58	1.034	1.254	1.35	0.00	0.78	0.13	3.01	4.69
2000	8.125	2.600	0.77	7.77	1.040	1.332	1.29	0.00	0.76	0.10	2.65	4.32
2250	8.125	2.695	0.81	7.21	1.041	1.360	1.23	0.00	0.73	0.10	2.65	4.32
2500	8.125	2.770	0.84	6.74	1.042	1.388	1.19	0.00	0.71	0.10	2.65	4.32
2750	8.125	2.860	0.87	6.37	1.043	1.414	1.14	0.00	0.68	0.10	2.65	4.32
3000	8.125	2.940	0.90	6.10	1.043	1.434	1.10	0.00	0.67	0.10	2.65	4.32

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115 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 .0030 pf & Rho 60	90	120
				85°C - Aluminum Conductor - Compact Round Strand						
350	5.047	383	357	356	323	334	297	2.1	2.6	3.1
500	5.047	469	436	434	392	405	358	2.2	2.8	3.4
750	5.047	589	543	540	485	502	441	2.5	3.1	3.8
1000	6.125	707	645	646	572	598	518	2.8	3.5	4.3
1250	6.125	792	720	720	635	664	572	2.9	3.8	4.7
				85°C - Aluminum Conductor - Compact Segmental Strand						
1000	6.125	727	662	663	586	612	529	2.9	3.7	4.5
1250	6.125	820	743	744	654	685	588	3.0	3.9	4.8
1500	6.125	902	815	815	714	748	640	3.2	4.2	5.1
1750	6.125	976	878	878	766	803	685	3.3	4.3	5.4
2000	8.125	1073	954	969	833	890	746	3.2	4.2	5.2
2250	8.125	1131	1002	1018	872	932	779	3.3	4.4	5.4
2500	8.125	1186	1048	1065	909	973	811	3.4	4.5	5.6
2750	8.125	1237	1090	1108	943	1010	839	3.5	4.7	5.8
3000	8.125	1278	1124	1143	970	1039	861	3.6	4.8	6.0
3250	8.125	1320	1158	1176	997	1069	884	3.7	4.9	6.1
3500	8.125	1360	1189	1208	1021	1096	904	3.8	5.1	6.3
3750	8.125	1395	1217	1236	1043	1120	922	3.9	5.2	6.5
4000	8.125	1427	1242	1262	1063	1141	938	4.0	5.3	6.6

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115 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 Round Strand							
350	5.047	29.6	25.8	25.7	21.3	22.7	18.2
500	5.047	31.6	27.5	27.3	22.5	23.9	18.9
750	5.047	34.4	29.5	29.2	23.8	25.4	19.9
1000	6.125	39.2	32.9	33.0	26.2	28.5	21.8
1250	6.125	41.1	34.3	34.3	27.1	29.5	22.3
85°C - Aluminum Conductor - Compact Segmental Strand							
1000	6.125	40.2	33.7	33.7	26.8	29.0	22.1
1250	6.125	42.2	35.0	35.1	27.5	30.0	22.6
1500	6.125	43.9	36.2	36.2	28.3	30.8	23.1
1750	6.125	45.4	37.2	37.2	28.8	31.5	23.5
2000	8.125	50.8	40.6	41.8	31.5	35.6	25.7
2250	8.125	52.3	41.6	42.8	32.1	36.3	26.1
2500	8.125	53.6	42.4	43.7	32.5	36.9	26.4
2750	8.125	54.9	43.2	44.6	33.0	37.5	26.7
3000	8.125	56.0	44.0	45.4	33.4	38.0	26.9
3250	8.125	57.1	44.6	45.9	33.8	38.4	27.2
3500	8.125	58.5	45.4	46.7	34.2	39.0	27.5
3750	8.125	59.4	45.9	47.3	34.5	39.4	27.6
4000	8.125	60.3	46.5	47.9	34.9	39.7	27.8

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115 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 - Aluminum Conductor - Compact Round Strand												
350	5.047	1.736	0.36	62.87	1.007	1.030	2.80	0.00	1.13	0.16	3.02	4.55
500	5.047	1.856	0.40	44.21	1.009	1.043	2.48	0.00	1.07	0.16	3.02	4.55
750	5.047	2.028	0.46	29.87	1.012	1.063	2.14	0.00	0.99	0.16	3.02	4.55
1000	6.125	2.090	0.57	22.85	1.016	1.093	1.76	0.00	0.95	0.13	2.78	4.31
1250	6.125	2.215	0.62	18.75	1.018	1.114	1.62	0.00	0.91	0.13	2.78	4.31
85°C - Aluminum Conductor - Compact Segmental Strand												
1000	6.125	2.170	0.60	22.11	1.016	1.096	1.67	0.00	0.92	0.13	2.78	4.31
1250	6.125	2.290	0.65	17.80	1.019	1.121	1.54	0.00	0.88	0.13	2.78	4.31
1500	6.125	2.405	0.69	14.95	1.021	1.145	1.44	0.00	0.84	0.13	2.78	4.31
1750	6.125	2.510	0.73	12.95	1.022	1.168	1.35	0.00	0.80	0.13	2.78	4.31
2000	8.125	2.600	0.77	11.45	1.027	1.225	1.29	0.00	0.79	0.10	2.41	3.95
2250	8.125	2.695	0.81	10.40	1.028	1.250	1.23	0.00	0.76	0.10	2.41	3.95
2500	8.125	2.770	0.84	9.50	1.030	1.275	1.19	0.00	0.74	0.10	2.41	3.95
2750	8.125	2.860	0.87	8.77	1.031	1.300	1.14	0.00	0.71	0.10	2.41	3.95
3000	8.125	2.940	0.90	8.23	1.032	1.322	1.10	0.00	0.69	0.10	2.41	3.95
3250	8.125	3.015	0.93	7.73	1.033	1.345	1.06	0.00	0.68	0.10	2.41	3.95
3500	8.125	3.115	0.97	7.32	1.033	1.368	1.02	0.00	0.66	0.10	2.41	3.95
3750	8.125	3.180	1.00	6.96	1.034	1.389	0.99	0.00	0.65	0.10	2.41	3.95
4000	8.125	3.255	1.03	6.65	1.034	1.409	0.96	0.00	0.63	0.10	2.41	3.95

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115 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 .0030 pf & Rho 60	90	120
				85°C - Aluminum Conductor - Compact Round Strand						
350	5.047	364	332	332	295	307	268	2.4	3.1	3.9
500	5.047	444	403	403	356	371	322	2.6	3.4	4.3
750	5.047	554	500	499	438	457	393	2.9	3.9	4.8
1000	6.125	660	589	591	512	538	457	3.3	4.4	5.5
1250	6.125	736	654	656	566	595	503	3.6	4.8	6.0
				85°C - Aluminum Conductor - Compact Segmental Strand						
1000	6.125	677	603	604	523	549	465	3.5	4.7	5.8
1250	6.125	760	674	675	581	612	516	3.7	5.0	6.2
1500	6.125	834	736	737	632	665	560	3.9	5.3	6.6
1750	6.125	899	791	792	677	713	597	4.1	5.5	6.9
2000	8.125	980	852	865	729	779	643	4.0	5.4	6.8
2250	8.125	1030	893	905	761	814	670	4.2	5.7	7.1
2500	8.125	1077	931	944	791	847	695	4.3	5.8	7.4
2750	8.125	1121	966	979	819	876	718	4.4	6.0	7.6
3000	8.125	1156	994	1007	840	900	736	4.6	6.2	7.9
3250	8.125	1191	1022	1035	862	923	754	4.7	6.4	8.1
3500	8.125	1224	1047	1061	881	944	769	4.8	6.6	8.4
3750	8.125	1253	1070	1083	899	963	783	4.9	6.8	8.6
4000	8.125	1279	1090	1104	914	979	795	5.1	6.9	8.8

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115 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 Round Strand							
350	5.047	53.6	45.0	45.0	36.0	38.8	30.0
500	5.047	56.9	47.3	47.3	37.5	40.5	31.1
750	5.047	61.3	50.4	50.2	39.3	42.6	32.2
1000	6.125	68.7	55.4	55.7	42.7	46.8	34.7
1250	6.125	71.6	57.3	57.6	43.8	48.1	35.4
85°C - Aluminum Conductor - Compact Segmental Strand							
1000	6.125	70.2	56.5	56.6	43.4	47.4	35.0
1250	6.125	73.0	58.3	58.4	44.3	48.7	35.7
1500	6.125	75.6	59.8	60.0	45.2	49.6	36.4
1750	6.125	77.7	61.2	61.3	46.0	50.5	36.7
2000	8.125	85.4	65.7	67.6	49.3	55.7	39.4
2250	8.125	87.6	67.1	68.7	50.0	56.5	39.9
2500	8.125	89.3	68.0	69.8	50.5	57.1	40.1
2750	8.125	91.2	69.0	70.8	51.1	57.7	40.5
3000	8.125	92.7	69.9	71.6	51.5	58.3	40.8
3250	8.125	94.1	70.8	72.4	52.0	58.7	41.1
3500	8.125	95.8	71.7	73.4	52.4	59.4	41.4
3750	8.125	97.0	72.4	74.0	52.9	59.8	41.5
4000	8.125	98.2	73.0	74.7	53.2	60.1	41.7

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115 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%	Re @ 90 Rho & loss factor 100%
					85°C - Aluminum Conductor - Compact Round Strand							
350	5.047	1.736	0.36	62.87	1.007	1.030	2.80	0.00	1.09	0.16	3.36	5.09
500	5.047	1.856	0.40	44.21	1.009	1.043	2.48	0.00	1.03	0.16	3.36	5.09
750	5.047	2.028	0.46	29.87	1.012	1.063	2.14	0.00	0.95	0.16	3.36	5.09
1000	6.125	2.090	0.57	22.85	1.016	1.093	1.76	0.00	0.91	0.13	3.11	4.85
1250	6.125	2.215	0.62	18.75	1.018	1.114	1.62	0.00	0.86	0.13	3.11	4.85
					85°C - Aluminum Conductor - Compact Segmental Strand							
1000	6.125	2.170	0.60	22.11	1.016	1.096	1.67	0.00	0.88	0.13	3.11	4.85
1250	6.125	2.290	0.65	17.80	1.019	1.121	1.54	0.00	0.84	0.13	3.11	4.85
1500	6.125	2.405	0.69	14.95	1.021	1.145	1.44	0.00	0.80	0.13	3.11	4.85
1750	6.125	2.510	0.73	12.95	1.022	1.168	1.35	0.00	0.77	0.13	3.11	4.85
2000	8.125	2.600	0.77	11.45	1.027	1.225	1.29	0.00	0.75	0.10	2.75	4.49
2250	8.125	2.695	0.81	10.40	1.028	1.250	1.23	0.00	0.72	0.10	2.75	4.49
2500	8.125	2.770	0.84	9.50	1.030	1.275	1.19	0.00	0.71	0.10	2.75	4.49
2750	8.125	2.860	0.87	8.77	1.031	1.300	1.14	0.00	0.68	0.10	2.75	4.49
3000	8.125	2.940	0.90	8.23	1.032	1.322	1.10	0.00	0.67	0.10	2.75	4.49
3250	8.125	3.015	0.93	7.73	1.033	1.345	1.06	0.00	0.65	0.10	2.75	4.49
3500	8.125	3.115	0.97	7.32	1.033	1.368	1.02	0.00	0.63	0.10	2.75	4.49
3750	8.125	3.180	1.00	6.96	1.034	1.389	0.99	0.00	0.62	0.10	2.75	4.49
4000	8.125	3.255	1.03	6.65	1.034	1.409	0.96	0.00	0.60	0.10	2.75	4.49

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115 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 .0030 pf & Rho 60	90	120
				85°C - Aluminum Conductor - Compact Round Strand						
350	5.047	369	339	339	303	315	276	2.3	3.0	3.6
500	5.047	451	413	412	366	381	332	2.5	3.3	4.0
750	5.047	564	512	511	451	469	406	2.8	3.6	4.5
1000	6.125	673	605	606	529	555	473	3.2	4.2	5.2
1250	6.125	752	672	674	584	614	522	3.4	4.5	5.6
				85°C - Aluminum Conductor - Compact Segmental Strand						
1000	6.125	692	619	621	540	567	482	3.3	4.4	5.4
1250	6.125	777	693	694	601	632	535	3.5	4.7	5.8
1500	6.125	853	758	759	654	688	581	3.7	4.9	6.2
1750	6.125	921	815	816	701	737	621	3.9	5.2	6.5
2000	8.125	1006	880	893	757	809	670	3.8	5.1	6.3
2250	8.125	1058	922	936	790	845	698	3.9	5.3	6.6
2500	8.125	1108	963	977	823	881	726	4.0	5.4	6.8
2750	8.125	1153	1000	1014	852	912	750	4.2	5.6	7.1
3000	8.125	1190	1029	1044	875	937	769	4.3	5.8	7.3
3250	8.125	1227	1058	1074	898	962	788	4.4	5.9	7.5
3500	8.125	1262	1085	1101	918	984	804	4.5	6.2	7.8
3750	8.125	1292	1109	1125	937	1004	819	4.6	6.3	8.0
4000	8.125	1320	1131	1146	953	1022	832	4.7	6.4	8.2

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115 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 Round Strand							
350	5.047	55.0	46.8	46.8	37.8	40.7	31.7
500	5.047	58.7	49.6	49.4	39.5	42.6	32.9
750	5.047	63.4	52.7	52.5	41.5	44.7	34.2
1000	6.125	71.3	58.2	58.4	45.3	49.6	36.9
1250	6.125	74.6	60.3	60.6	46.4	50.9	37.8
85°C - Aluminum Conductor - Compact Segmental Strand							
1000	6.125	73.2	59.3	59.7	46.0	50.3	37.4
1250	6.125	76.1	61.4	61.5	47.1	51.7	38.1
1500	6.125	78.9	63.2	63.3	48.1	52.8	38.8
1750	6.125	81.4	64.7	64.8	49.0	53.7	39.4
2000	8.125	89.8	69.8	71.7	52.8	59.7	42.4
2250	8.125	92.2	71.2	73.2	53.5	60.5	42.9
2500	8.125	94.2	72.4	74.4	54.2	61.4	43.3
2750	8.125	96.1	73.6	75.5	54.9	62.1	43.7
3000	8.125	97.9	74.6	76.6	55.4	62.8	44.0
3250	8.125	99.5	75.4	77.6	55.9	63.3	44.3
3500	8.125	101.5	76.5	78.6	56.4	64.0	44.7
3750	8.125	102.8	77.3	79.4	56.9	64.5	44.9
4000	8.125	104.2	78.1	80.0	57.3	64.9	45.1

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115 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 - Aluminum Conductor - Compact Round Strand							
350	5.047	1.736	0.36	62.87	1.007	1.030	2.80	0.00	1.10	0.16	3.25	4.93
500	5.047	1.856	0.40	44.21	1.009	1.043	2.48	0.00	1.04	0.16	3.25	4.93
750	5.047	2.028	0.46	29.87	1.012	1.063	2.14	0.00	0.96	0.16	3.25	4.93
1000	6.125	2.090	0.57	22.85	1.016	1.093	1.76	0.00	0.92	0.13	3.01	4.69
1250	6.125	2.215	0.62	18.75	1.018	1.114	1.62	0.00	0.88	0.13	3.01	4.69
					85°C - Aluminum Conductor - Compact Segmental Strand							
1000	6.125	2.170	0.60	22.11	1.016	1.096	1.67	0.00	0.89	0.13	3.01	4.69
1250	6.125	2.290	0.65	17.80	1.019	1.121	1.54	0.00	0.85	0.13	3.01	4.69
1500	6.125	2.405	0.69	14.95	1.021	1.145	1.44	0.00	0.81	0.13	3.01	4.69
1750	6.125	2.510	0.73	12.95	1.022	1.168	1.35	0.00	0.78	0.13	3.01	4.69
2000	8.125	2.600	0.77	11.45	1.027	1.225	1.29	0.00	0.76	0.10	2.65	4.32
2250	8.125	2.695	0.81	10.40	1.028	1.250	1.23	0.00	0.74	0.10	2.65	4.32
2500	8.125	2.770	0.84	9.50	1.030	1.275	1.19	0.00	0.72	0.10	2.65	4.32
2750	8.125	2.860	0.87	8.77	1.031	1.300	1.14	0.00	0.69	0.10	2.65	4.32
3000	8.125	2.940	0.90	8.23	1.032	1.322	1.10	0.00	0.67	0.10	2.65	4.32
3250	8.125	3.015	0.93	7.73	1.033	1.345	1.06	0.00	0.65	0.10	2.65	4.32
3500	8.125	3.115	0.97	7.32	1.033	1.368	1.02	0.00	0.63	0.10	2.65	4.32
3750	8.125	3.180	1.00	6.96	1.034	1.389	0.99	0.00	0.62	0.10	2.65	4.32
4000	8.125	3.255	1.03	6.65	1.034	1.409	0.96	0.00	0.61	0.10	2.65	4.32

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