115 kV Paper Insulated High Pressure Gas 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	delta Td for .0030 pf & Rho 90	delta Td for .0030 pf & Rho 120
		85°C - Copper Conductor - Compact Round Strand								
350	8.125	464	434	439	400	418	373	1.2	1.5	1.8
500	5.047	579	538	536	485	501	444	2.1	2.7	3.2
750	6.125	728	670	672	600	626	548	2.3	2.8	3.4
1000	6.125	837	766	767	682	712	619	2.4	3.1	3.7
1250	6.125	922	839	840	743	777	672	2.5	3.3	4.0
		85°C - Copper Conductor - Compact Segmental Strand								
1000	6.125	880	803	804	713	745	646	2.5	3.2	3.9
1250	6.125	983	892	894	788	825	712	2.6	3.4	4.1
1500	8.125	1100	987	1003	870	927	785	2.6	3.3	4.1
1750	8.125	1178	1051	1069	924	986	831	2.7	3.5	4.2
2000	8.125	1243	1106	1125	968	1035	869	2.8	3.6	4.4
2250	8.125	1297	1150	1170	1003	1073	899	2.9	3.7	4.6
2500	8.125	1346	1189	1210	1035	1109	926	2.9	3.8	4.7
2750	8.125	1389	1225	1246	1063	1139	949	3.0	3.9	4.8
3000	8.125	1424	1252	1275	1084	1163	966	3.1	4.0	5.0

Copyright The Institute of Electrical and Electronics Engineers, Inc.
Provided by IHS under license with IEEE
No reproduction or networking permitted without license from IHS
Not for Resale

115 kV Paper Insulated High Pressure Gas 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	8.125	27.1	23.8	24.4	20.3	22.1	17.8
500	5.047	30.5	26.5	26.3	21.7	23.1	18.4
750	6.125	34.7	29.6	29.7	24.0	26.0	20.2
1000	6.125	37.2	31.4	31.4	25.2	27.3	21.0
1250	6.125	39.3	32.8	32.8	26.0	28.3	21.6
	85°C - Copper Conductor - Compact Segmental Strand						
1000	6.125	38.4	32.2	32.3	25.7	27.9	21.4
1250	6.125	40.4	33.6	33.7	26.5	28.9	22.0
1500	8.125	45.9	37.3	38.4	29.3	33.1	24.2
1750	8.125	47.9	38.5	39.7	30.1	34.1	24.7
2000	8.125	49.5	39.5	40.9	30.7	34.9	25.1
2250	8.125	51.1	40.6	41.9	31.3	35.6	25.5
2500	8.125	52.4	41.3	42.7	31.8	36.2	25.8
2750	8.125	53.6	42.2	43.6	32.3	36.8	26.2
3000	8.125	54.8	42.9	44.4	32.7	37.3	26.4

Copyright The Institute of Electrical and Electronics Engineers, Inc.
Provided by IHS under license with IEEE
No reproduction or networking permitted without license from IHS
Not for Resale

115 kV Paper Insulated High Pressure Gas 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	8.125	2.894	0.21	38.40	1.007	1.069	4.20	0.00	1.01	0.10	2.41	3.95
500	5.047	1.986	0.36	27.33	1.014	1.069	2.50	0.00	1.40	0.16	3.02	4.55
750	6.125	2.158	0.42	18.90	1.019	1.113	2.16	0.00	1.29	0.13	2.78	4.31
1000	6.125	2.310	0.47	14.88	1.022	1.144	1.94	0.00	1.20	0.13	2.78	4.31
1250	6.125	2.435	0.50	12.63	1.024	1.172	1.78	0.00	1.14	0.13	2.78	4.31
85°C - Copper Conductor - Compact Segmental Strand												
1000	6.125	2.390	0.49	13.74	1.023	1.157	1.84	0.00	1.16	0.13	2.78	4.31
1250	6.125	2.510	0.53	11.22	1.026	1.194	1.70	0.00	1.10	0.13	2.78	4.31
1500	8.125	2.625	0.56	9.59	1.032	1.269	1.59	0.00	1.06	0.10	2.41	3.95
1750	8.125	2.730	0.60	8.47	1.034	1.308	1.51	0.00	1.01	0.10	2.41	3.95
2000	8.125	2.820	0.62	7.64	1.036	1.343	1.44	0.00	0.98	0.10	2.41	3.95
2250	8.125	2.915	0.65	7.09	1.038	1.373	1.37	0.00	0.95	0.10	2.41	3.95
2500	8.125	2.990	0.68	6.60	1.039	1.403	1.33	0.00	0.92	0.10	2.41	3.95
2750	8.125	3.080	0.70	6.22	1.040	1.431	1.27	0.00	0.89	0.10	2.41	3.95
3000	8.125	3.160	0.73	5.95	1.040	1.454	1.23	0.00	0.87	0.10	2.41	3.95

Copyright The Institute of Electrical and Electronics Engineers, Inc.
Provided by IHS under license with IEEE
No reproduction or networking permitted without license from IHS
Not for Resale

3054

115 kV Paper Insulated High Pressure Gas 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 - Copper Conductor - Compact Round Strand								
350	8.125	441	405	411	367	386	337	1.5	1.8	2.2
500	5.047	548	499	498	442	460	400	2.5	3.3	4.0
750	6.125	684	616	619	542	569	488	2.7	3.5	4.3
1000	6.125	782	700	703	612	643	549	2.9	3.8	4.7
1250	6.125	858	764	767	665	699	594	3.1	4.1	5.1
		85°C - Copper Conductor - Compact Segmental Strand								
1000	6.125	820	732	736	638	671	571	3.0	4.0	4.9
1250	6.125	913	811	814	703	740	627	3.2	4.2	5.3
1500	8.125	1012	888	903	768	821	684	3.2	4.2	5.3
1750	8.125	1080	943	959	813	869	721	3.3	4.4	5.5
2000	8.125	1136	989	1005	850	909	753	3.4	4.6	5.7
2250	8.125	1182	1025	1042	878	940	776	3.6	4.8	6.0
2500	8.125	1224	1059	1076	904	969	798	3.6	4.9	6.2
2750	8.125	1260	1087	1105	926	993	816	3.8	5.1	6.4
3000	8.125	1289	1110	1128	943	1012	830	3.9	5.2	6.5

Copyright The Institute of Electrical and Electronics Engineers, Inc.
Provided by IHS under license with IEEE
No reproduction or networking permitted without license from IHS
Not for Resale

115 kV Paper Insulated High Pressure Gas 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	8.125	49.2	41.7	42.9	34.4	38.0	29.2
500	5.047	54.8	45.8	45.7	36.4	39.3	30.2
750	6.125	61.5	50.4	50.9	39.6	43.4	32.6
1000	6.125	65.3	52.8	53.3	41.0	45.0	33.6
1250	6.125	68.4	54.9	55.3	42.3	46.4	34.4
	85°C - Copper Conductor - Compact Segmental Strand						
1000	6.125	67.1	54.0	54.6	41.8	45.9	34.0
1250	6.125	70.2	56.1	56.4	42.9	47.2	34.8
1500	8.125	78.2	61.0	62.9	46.5	52.6	37.6
1750	8.125	81.1	62.7	64.7	47.5	53.7	38.1
2000	8.125	83.2	64.0	66.0	48.3	54.6	38.7
2250	8.125	85.5	65.2	67.3	48.9	55.5	39.1
2500	8.125	87.3	66.4	68.4	49.5	56.2	39.4
2750	8.125	89.0	67.3	69.4	50.0	56.9	39.8
3000	8.125	90.6	68.3	70.4	50.5	57.5	40.1

Copyright The Institute of Electrical and Electronics Engineers, Inc.
Provided by IHS under license with IEEE
No reproduction or networking permitted without license from IHS

Not for Resale

115 kV Paper Insulated High Pressure Gas 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 Round Strand												
350	8.125	2.894	0.21	38.40	1.007	1.069	4.20	0.00	0.99	0.10	2.75	4.49
500	5.047	1.986	0.36	27.33	1.014	1.069	2.50	0.00	1.38	0.16	3.36	5.09
750	6.125	2.158	0.42	18.90	1.019	1.113	2.16	0.00	1.27	0.13	3.11	4.85
1000	6.125	2.310	0.47	14.88	1.022	1.144	1.94	0.00	1.18	0.13	3.11	4.85
1250	6.125	2.435	0.50	12.63	1.024	1.172	1.78	0.00	1.12	0.13	3.11	4.85
85°C - Copper Conductor - Compact Segmental Strand												
1000	6.125	2.390	0.49	13.74	1.023	1.157	1.84	0.00	1.14	0.13	3.11	4.85
1250	6.125	2.510	0.53	11.22	1.026	1.194	1.70	0.00	1.09	0.13	3.11	4.85
1500	8.125	2.625	0.56	9.59	1.032	1.269	1.59	0.00	1.04	0.10	2.75	4.49
1750	8.125	2.730	0.60	8.47	1.034	1.308	1.51	0.00	1.00	0.10	2.75	4.49
2000	8.125	2.820	0.62	7.64	1.036	1.343	1.44	0.00	0.97	0.10	2.75	4.49
2250	8.125	2.915	0.65	7.09	1.038	1.373	1.37	0.00	0.93	0.10	2.75	4.49
2500	8.125	2.990	0.68	6.60	1.039	1.403	1.33	0.00	0.91	0.10	2.75	4.49
2750	8.125	3.080	0.70	6.22	1.040	1.431	1.27	0.00	0.88	0.10	2.75	4.49
3000	8.125	3.160	0.73	5.95	1.040	1.454	1.23	0.00	0.86	0.10	2.75	4.49

Copyright The Institute of Electrical and Electronics Engineers, Inc.
Provided by IHS under license with IEEE
No reproduction or networking permitted without license from IHS

Not for Resale

115 kV Paper Insulated High Pressure Gas 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	delta Td for .0030 pf & Rho 90	delta Td for .0030 pf & Rho 120
		85°C - Copper Conductor - Compact Round Strand								
350	8.125	448	413	419	376	395	347	1.4	1.7	2.1
500	5.047	557	510	509	454	471	412	2.4	3.1	3.8
750	6.125	696	631	633	558	585	504	2.6	3.3	4.1
1000	6.125	798	718	721	631	662	568	2.8	3.6	4.4
1250	6.125	876	785	788	686	721	615	2.9	3.8	4.7
		85°C - Copper Conductor - Compact Segmental Strand								
1000	6.125	837	752	755	658	692	591	2.9	3.8	4.6
1250	6.125	933	833	836	726	764	650	3.0	4.0	4.9
1500	8.125	1037	915	930	796	849	711	3.0	4.0	4.9
1750	8.125	1107	973	989	842	900	750	3.1	4.1	5.1
2000	8.125	1166	1021	1038	881	943	783	3.2	4.3	5.3
2250	8.125	1214	1059	1077	911	976	808	3.3	4.4	5.5
2500	8.125	1257	1094	1112	939	1006	831	3.4	4.6	5.7
2750	8.125	1296	1124	1143	962	1032	851	3.5	4.7	5.9
3000	8.125	1326	1148	1167	980	1052	865	3.6	4.8	6.1

Copyright The Institute of Electrical and Electronics Engineers, Inc.
Provided by IHS under license with IEEE
No reproduction or networking permitted without license from IHS
Not for Resale

115 kV Paper Insulated High Pressure Gas 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	8.125	50.7	43.3	44.5	36.1	39.7	30.9
500	5.047	56.6	47.8	47.6	38.3	41.1	31.9
750	6.125	63.6	52.8	53.1	41.8	45.7	34.6
1000	6.125	67.8	55.4	55.9	43.5	47.6	35.7
1250	6.125	71.2	57.8	58.2	44.8	49.2	36.6
85°C - Copper Conductor - Compact Segmental Strand							
1000	6.125	69.7	56.9	57.3	44.2	48.6	36.3
1250	6.125	73.2	59.0	59.4	45.5	50.1	37.1
1500	8.125	81.9	64.5	66.6	49.7	56.0	40.3
1750	8.125	85.0	66.5	68.6	50.7	57.4	40.9
2000	8.125	87.5	68.0	70.1	51.6	58.5	41.5
2250	8.125	89.9	69.4	71.6	52.4	59.5	42.0
2500	8.125	91.8	70.6	72.8	53.0	60.3	42.4
2750	8.125	93.9	71.7	74.0	53.7	61.1	42.9
3000	8.125	95.6	72.8	75.0	54.2	61.8	43.2

Copyright The Institute of Electrical and Electronics Engineers, Inc.
Provided by IHS under license with IEEE
No reproduction or networking permitted without license from IHS
Not for Resale

115 kV Paper Insulated High Pressure Gas 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 Round Strand							
350	8.125	2.894	0.21	38.40	1.007	1.069	4.20	0.00	1.00	0.10	2.65	4.32
500	5.047	1.986	0.36	27.33	1.014	1.069	2.50	0.00	1.38	0.16	3.25	4.93
750	6.125	2.158	0.42	18.90	1.019	1.113	2.16	0.00	1.27	0.13	3.01	4.69
1000	6.125	2.310	0.47	14.88	1.022	1.144	1.94	0.00	1.19	0.13	3.01	4.69
1250	6.125	2.435	0.50	12.63	1.024	1.172	1.78	0.00	1.12	0.13	3.01	4.69
					85°C - Copper Conductor - Compact Segmental Strand							
1000	6.125	2.390	0.49	13.74	1.023	1.157	1.84	0.00	1.15	0.13	3.01	4.69
1250	6.125	2.510	0.53	11.22	1.026	1.194	1.70	0.00	1.09	0.13	3.01	4.69
1500	8.125	2.625	0.56	9.59	1.032	1.269	1.59	0.00	1.04	0.10	2.65	4.32
1750	8.125	2.730	0.60	8.47	1.034	1.308	1.51	0.00	1.00	0.10	2.65	4.32
2000	8.125	2.820	0.62	7.64	1.036	1.343	1.44	0.00	0.97	0.10	2.65	4.32
2250	8.125	2.915	0.65	7.09	1.038	1.373	1.37	0.00	0.94	0.10	2.65	4.32
2500	8.125	2.990	0.68	6.60	1.039	1.403	1.33	0.00	0.91	0.10	2.65	4.32
2750	8.125	3.080	0.70	6.22	1.040	1.431	1.27	0.00	0.88	0.10	2.65	4.32
3000	8.125	3.160	0.73	5.95	1.040	1.454	1.23	0.00	0.86	0.10	2.65	4.32

Copyright The Institute of Electrical and Electronics Engineers, Inc.
Provided by IHS under license with IEEE
No reproduction or networking permitted without license from IHS

Not for Resale

3060

115 kV Paper Insulated High Pressure Gas 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	8.125	364	341	345	315	329	293	1.2	1.5	1.8
500	5.047	458	425	424	384	397	352	2.1	2.7	3.2
750	6.125	584	538	539	483	503	441	2.3	2.8	3.4
1000	6.125	683	626	627	559	583	508	2.4	3.1	3.7
1250	6.125	766	699	700	621	649	563	2.5	3.3	4.0
				85°C - Aluminum Conductor - Compact Segmental Strand						
1000	6.125	703	642	644	572	597	519	2.5	3.2	3.9
1250	6.125	793	722	723	639	669	578	2.6	3.4	4.1
1500	8.125	899	809	822	716	762	648	2.6	3.3	4.1
1750	8.125	974	873	887	770	820	694	2.7	3.5	4.3
2000	8.125	1041	930	945	817	872	735	2.8	3.6	4.4
2250	8.125	1098	978	994	857	915	769	2.9	3.7	4.6
2500	8.125	1153	1024	1041	894	956	802	2.9	3.8	4.7
2750	8.125	1204	1066	1084	929	994	831	3.0	3.9	4.8
3000	8.125	1246	1101	1119	957	1024	854	3.1	4.0	5.0
3250	8.125	1288	1135	1155	984	1055	878	3.1	4.1	5.1
3500	8.125	1329	1168	1188	1010	1083	899	3.2	4.3	5.3
3750	8.125	1364	1196	1217	1032	1108	918	3.3	4.3	5.4
4000	10.25	1425	1235	1279	1068	1169	951	3.2	4.2	5.2

Copyright The Institute of Electrical and Electronics Engineers, Inc.
Provided by IHS under license with IEEE
No reproduction or networking permitted without license from IHS
Not for Resale

115 kV Paper Insulated High Pressure Gas 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	8.125	26.6	23.5	24.0	20.1	21.9	17.5
500	5.047	30.1	26.1	26.0	21.5	22.9	18.2
750	6.125	34.0	29.0	29.1	23.6	25.5	19.9
1000	6.125	36.3	30.7	30.8	24.8	26.8	20.7
1250	6.125	38.2	32.1	32.2	25.6	27.9	21.3
85°C - Aluminum Conductor - Compact Segmental Strand							
1000	6.125	37.4	31.5	31.6	25.3	27.4	21.1
1250	6.125	39.2	32.8	32.9	26.0	28.4	21.6
1500	8.125	44.1	36.0	37.1	28.6	32.2	23.7
1750	8.125	45.9	37.2	38.4	29.4	33.1	24.2
2000	8.125	47.5	38.3	39.5	30.0	33.9	24.6
2250	8.125	49.0	39.3	40.5	30.6	34.6	25.0
2500	8.125	50.3	40.1	41.3	31.0	35.2	25.4
2750	8.125	51.6	40.9	42.2	31.6	35.8	25.7
3000	8.125	52.8	41.7	43.0	32.0	36.3	25.9
3250	8.125	53.9	42.3	43.8	32.4	36.9	26.2
3500	8.125	55.2	43.1	44.6	32.9	37.4	26.5
3750	8.125	56.1	43.7	45.2	33.2	37.9	26.7
4000	10.25	61.7	47.0	50.2	35.8	42.4	28.9

Copyright The Institute of Electrical and Electronics Engineers, Inc.
Provided by IHS under license with IEEE
No reproduction or networking permitted without license from IHS

Not for Resale

3062

115 kV Paper Insulated High Pressure Gas 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	8.125	2.894	0.21	62.80	1.004	1.042	4.20	0.00	1.01	0.10	2.41	3.95
500	5.047	1.986	0.36	44.21	1.008	1.043	2.50	0.00	1.40	0.16	3.02	4.55
750	6.125	2.158	0.42	29.87	1.012	1.071	2.16	0.00	1.29	0.13	2.78	4.31
1000	6.125	2.310	0.47	22.81	1.014	1.094	1.94	0.00	1.20	0.13	2.78	4.31
1250	6.125	2.435	0.50	18.69	1.016	1.116	1.78	0.00	1.14	0.13	2.78	4.31
					85°C - Aluminum Conductor - Compact Segmental Strand							
1000	6.125	2.390	0.49	22.09	1.014	1.098	1.84	0.00	1.16	0.13	2.78	4.31
1250	6.125	2.510	0.53	17.76	1.016	1.123	1.70	0.00	1.10	0.13	2.78	4.31
1500	8.125	2.625	0.56	14.91	1.020	1.173	1.59	0.00	1.06	0.10	2.41	3.95
1750	8.125	2.730	0.60	12.90	1.023	1.202	1.51	0.00	1.02	0.10	2.41	3.95
2000	8.125	2.820	0.62	11.40	1.024	1.230	1.44	0.00	0.98	0.10	2.41	3.95
2250	8.125	2.915	0.65	10.35	1.026	1.256	1.37	0.00	0.95	0.10	2.41	3.95
2500	8.125	2.990	0.68	9.43	1.027	1.282	1.33	0.00	0.93	0.10	2.41	3.95
2750	8.125	3.080	0.70	8.70	1.028	1.308	1.27	0.00	0.90	0.10	2.41	3.95
3000	8.125	3.160	0.73	8.16	1.029	1.331	1.23	0.00	0.87	0.10	2.41	3.95
3250	8.125	3.235	0.75	7.65	1.030	1.355	1.19	0.00	0.85	0.10	2.41	3.95
3500	8.125	3.335	0.78	7.23	1.030	1.379	1.14	0.00	0.83	0.10	2.41	3.95
3750	8.125	3.400	0.80	6.87	1.031	1.401	1.12	0.00	0.81	0.10	2.41	3.95
4000	10.25	3.475	0.83	6.56	1.035	1.483	1.08	0.00	0.79	0.13	2.10	3.63

Copyright The Institute of Electrical and Electronics Engineers, Inc.
Provided by IHS under license with IEEE
No reproduction or networking permitted without license from IHS
Not for Resale

115 kV Paper Insulated High Pressure Gas 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	8.125	347	319	323	289	304	266	1.5	1.8	2.2
500	5.047	433	395	394	350	364	317	2.5	3.3	4.0
750	6.125	549	495	497	436	458	394	2.7	3.5	4.3
1000	6.125	639	573	576	502	528	451	2.9	3.8	4.7
1250	6.125	714	638	641	556	585	498	3.1	4.1	5.1
85°C - Aluminum Conductor - Compact Segmental Strand										
1000	6.125	656	587	590	513	539	460	3.0	4.0	4.9
1250	6.125	738	657	660	572	601	511	3.2	4.2	5.3
1500	8.125	830	731	742	634	676	566	3.2	4.2	5.3
1750	8.125	896	786	798	680	725	605	3.3	4.4	5.5
2000	8.125	955	835	848	719	769	639	3.4	4.6	5.7
2250	8.125	1004	875	889	752	804	666	3.6	4.8	6.0
2500	8.125	1052	914	929	783	838	693	3.6	4.9	6.2
2750	8.125	1096	950	965	812	869	717	3.8	5.1	6.4
3000	8.125	1132	978	994	834	894	735	3.9	5.2	6.6
3250	8.125	1168	1007	1023	857	918	754	3.9	5.3	6.7
3500	8.125	1202	1034	1050	877	941	771	4.1	5.5	7.0
3750	8.125	1231	1057	1073	896	960	786	4.2	5.6	7.1
4000	10.25	1275	1083	1114	918	999	806	4.1	5.5	7.0

Copyright The Institute of Electrical and Electronics Engineers, Inc.
Provided by IHS under license with IEEE
No reproduction or networking permitted without license from IHS

Not for Resale

115 kV Paper Insulated High Pressure Gas 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	8.125	48.5	41.2	42.2	34.1	37.6	29.0
500	5.047	54.1	45.3	45.1	36.1	38.8	30.0
750	6.125	60.4	49.5	49.9	39.0	42.8	32.3
1000	6.125	63.9	51.9	52.5	40.5	44.5	33.2
1250	6.125	66.8	54.0	54.5	41.7	45.9	34.1
85°C - Aluminum Conductor - Compact Segmental Strand							
1000	6.125	65.6	53.1	53.6	41.2	45.2	33.7
1250	6.125	68.3	54.8	55.3	42.3	46.4	34.4
1500	8.125	75.7	59.5	61.2	45.6	51.3	37.0
1750	8.125	78.2	61.0	62.8	46.6	52.5	37.6
2000	8.125	80.5	62.4	64.3	47.3	53.5	38.1
2250	8.125	82.5	63.6	65.6	48.0	54.3	38.5
2500	8.125	84.3	64.7	66.7	48.5	55.0	38.9
2750	8.125	86.2	65.8	67.8	49.2	55.8	39.3
3000	8.125	87.9	66.7	68.7	49.7	56.4	39.6
3250	8.125	89.4	67.6	69.6	50.2	56.9	39.9
3500	8.125	91.1	68.6	70.6	50.7	57.7	40.2
3750	8.125	92.3	69.3	71.3	51.2	58.0	40.5
4000	10.25	99.8	73.4	77.4	54.1	63.2	42.9

Copyright The Institute of Electrical and Electronics Engineers, Inc.
Provided by IHS under license with IEEE
No reproduction or networking permitted without license from IHS
Not for Resale

115 kV Paper Insulated High Pressure Gas 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 Round Strand							
350	8.125	2.894	0.21	62.80	1.004	1.042	4.20	0.00	0.99	0.10	2.75	4.49
500	5.047	1.986	0.36	44.21	1.008	1.043	2.50	0.00	1.38	0.16	3.36	5.09
750	6.125	2.158	0.42	29.87	1.012	1.071	2.16	0.00	1.27	0.13	3.11	4.85
1000	6.125	2.310	0.47	22.81	1.014	1.094	1.94	0.00	1.18	0.13	3.11	4.85
1250	6.125	2.435	0.50	18.69	1.016	1.116	1.78	0.00	1.12	0.13	3.11	4.85
					85°C - Aluminum Conductor - Compact Segmental Strand							
1000	6.125	2.390	0.49	22.09	1.014	1.098	1.84	0.00	1.14	0.13	3.11	4.85
1250	6.125	2.510	0.53	17.76	1.016	1.123	1.70	0.00	1.09	0.13	3.11	4.85
1500	8.125	2.625	0.56	14.91	1.020	1.173	1.59	0.00	1.04	0.10	2.75	4.49
1750	8.125	2.730	0.60	12.90	1.023	1.202	1.51	0.00	1.00	0.10	2.75	4.49
2000	8.125	2.820	0.62	11.40	1.024	1.230	1.44	0.00	0.97	0.10	2.75	4.49
2250	8.125	2.915	0.65	10.35	1.026	1.256	1.37	0.00	0.94	0.10	2.75	4.49
2500	8.125	2.990	0.68	9.43	1.027	1.282	1.33	0.00	0.91	0.10	2.75	4.49
2750	8.125	3.080	0.70	8.70	1.028	1.308	1.27	0.00	0.88	0.10	2.75	4.49
3000	8.125	3.160	0.73	8.16	1.029	1.331	1.23	0.00	0.86	0.10	2.75	4.49
3250	8.125	3.235	0.75	7.65	1.030	1.355	1.19	0.00	0.84	0.10	2.75	4.49
3500	8.125	3.335	0.78	7.23	1.030	1.379	1.14	0.00	0.81	0.10	2.75	4.49
3750	8.125	3.400	0.80	6.87	1.031	1.401	1.12	0.00	0.80	0.10	2.75	4.49
4000	10.25	3.475	0.83	6.56	1.035	1.483	1.08	0.00	0.78	0.13	2.43	4.17

Copyright The Institute of Electrical and Electronics Engineers, Inc.
Provided by IHS under license with IEEE
No reproduction or networking permitted without license from IHS

Not for Resale

3066

115 kV Paper Insulated High Pressure Gas 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	8.125	352	325	329	296	311	273	1.4	1.7	2.1
500	5.047	440	403	403	360	373	327	2.4	3.1	3.8
750	6.125	559	507	509	449	470	406	2.6	3.3	4.1
1000	6.125	652	588	590	518	543	466	2.8	3.6	4.4
1250	6.125	729	655	657	574	602	515	2.9	3.8	4.7
85°C - Aluminum Conductor - Compact Segmental Strand										
1000	6.125	669	602	605	529	555	476	2.9	3.8	4.6
1250	6.125	754	675	678	590	620	529	3.0	4.0	4.9
1500	8.125	849	752	764	656	700	588	3.0	4.0	4.9
1750	8.125	918	810	823	704	751	628	3.1	4.1	5.1
2000	8.125	979	861	874	746	796	664	3.2	4.3	5.3
2250	8.125	1030	903	918	780	834	693	3.3	4.4	5.5
2500	8.125	1080	944	959	813	870	722	3.4	4.6	5.7
2750	8.125	1126	981	997	843	902	747	3.5	4.7	5.9
3000	8.125	1163	1011	1028	867	928	767	3.6	4.8	6.1
3250	8.125	1201	1042	1059	891	955	787	3.7	5.0	6.2
3500	8.125	1237	1070	1087	912	978	804	3.8	5.1	6.5
3750	8.125	1268	1094	1112	932	1000	820	3.9	5.3	6.6
4000	10.25	1316	1123	1158	957	1044	843	3.8	5.1	6.4

Copyright The Institute of Electrical and Electronics Engineers, Inc.
Provided by IHS under license with IEEE
No reproduction or networking permitted without license from IHS
Not for Resale

115 kV Paper Insulated High Pressure Gas 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	8.125	49.9	42.7	43.8	35.7	39.2	30.5
500	5.047	55.7	47.1	47.1	38.0	40.7	31.8
750	6.125	62.5	51.9	52.2	41.2	44.9	34.2
1000	6.125	66.4	54.6	54.9	43.0	46.9	35.3
1250	6.125	69.5	56.7	57.1	44.3	48.4	36.2
85°C - Aluminum Conductor - Compact Segmental Strand							
1000	6.125	68.1	55.7	56.2	43.7	47.8	35.9
1250	6.125	71.2	57.7	58.2	44.8	49.2	36.7
1500	8.125	79.0	62.7	64.6	48.5	54.8	39.7
1750	8.125	82.0	64.6	66.6	49.7	56.0	40.3
2000	8.125	84.4	66.1	68.0	50.6	57.1	40.9
2250	8.125	86.7	67.5	69.7	51.4	58.2	41.4
2500	8.125	88.7	68.7	70.8	52.0	59.0	41.9
2750	8.125	90.8	69.9	72.1	52.7	59.8	42.3
3000	8.125	92.5	71.0	73.2	53.3	60.5	42.7
3250	8.125	94.2	72.1	74.3	53.9	61.3	43.0
3500	8.125	96.2	73.2	75.4	54.4	61.9	43.4
3750	8.125	97.7	73.9	76.2	55.0	62.6	43.6
4000	10.25	106.0	78.6	83.2	58.4	68.6	46.4

Copyright The Institute of Electrical and Electronics Engineers, Inc.
Provided by IHS under license with IEEE
No reproduction or networking permitted without license from IHS
Not for Resale

3068

115 kV Paper Insulated High Pressure Gas 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 Round Strand												
350	8.125	2.894	0.21	62.80	1.004	1.042	4.20	0.00	1.00	0.10	2.65	4.32
500	5.047	1.986	0.36	44.21	1.008	1.043	2.50	0.00	1.39	0.16	3.25	4.93
750	6.125	2.158	0.42	29.87	1.012	1.071	2.16	0.00	1.28	0.13	3.01	4.69
1000	6.125	2.310	0.47	22.81	1.014	1.094	1.94	0.00	1.19	0.13	3.01	4.69
1250	6.125	2.435	0.50	18.69	1.016	1.116	1.78	0.00	1.13	0.13	3.01	4.69
85°C - Aluminum Conductor - Compact Segmental Strand												
1000	6.125	2.390	0.49	22.09	1.014	1.098	1.84	0.00	1.15	0.13	3.01	4.69
1250	6.125	2.510	0.53	17.76	1.016	1.123	1.70	0.00	1.09	0.13	3.01	4.69
1500	8.125	2.625	0.56	14.91	1.020	1.173	1.59	0.00	1.05	0.10	2.65	4.32
1750	8.125	2.730	0.60	12.90	1.023	1.202	1.51	0.00	1.00	0.10	2.65	4.32
2000	8.125	2.820	0.62	11.40	1.024	1.230	1.44	0.00	0.97	0.10	2.65	4.32
2250	8.125	2.915	0.65	10.35	1.026	1.256	1.37	0.00	0.94	0.10	2.65	4.32
2500	8.125	2.990	0.68	9.43	1.027	1.282	1.33	0.00	0.91	0.10	2.65	4.32
2750	8.125	3.080	0.70	8.70	1.028	1.308	1.27	0.00	0.89	0.10	2.65	4.32
3000	8.125	3.160	0.73	8.16	1.029	1.331	1.23	0.00	0.86	0.10	2.65	4.32
3250	8.125	3.235	0.75	7.65	1.030	1.355	1.19	0.00	0.84	0.10	2.65	4.32
3500	8.125	3.335	0.78	7.23	1.030	1.379	1.14	0.00	0.82	0.10	2.65	4.32
3750	8.125	3.400	0.80	6.87	1.031	1.401	1.12	0.00	0.80	0.10	2.65	4.32
4000	10.25	3.475	0.83	6.56	1.035	1.483	1.08	0.00	0.78	0.13	2.33	4.01

Copyright The Institute of Electrical and Electronics Engineers, Inc.
Provided by IHS under license with IEEE
No reproduction or networking permitted without license from IHS
Not for Resale