

SECONDARY CONSTANTS OF B, D AND E RURAL WIRE

DRY							
FREQ. CPS	PROPAGATION CONSTANT — PER MILE			CHARACTERISTIC IMPEDANCE			
	ATTENUATION		PHASE SHIFT	R OHMS	X OHMS (neg.)	Z OHMS	ANGLE DEGREES (neg.)
	α NEPERS	DB	β RADIANS				
200	.06079	.53	.06134	714	694	996	44.2
300	.07414	.64	.07546	586	564	813	43.9
500	.09488	.82	.09831	459	432	630	43.3
800	.1184	1.03	.1261	368	337	499	42.5
1,000	.1312	1.14	.1423	332	298	446	41.9
1,200	.1425	1.24	.1573	306	270	408	41.4
1,400	.1525	1.32	.1716	286	247	378	40.9
1,600	.1616	1.40	.1851	270	229	354	40.3
1,800	.1699	1.48	.1982	257	214	334	39.8
2,000	.1775	1.54	.2109	246	201	318	39.3
2,200	.1845	1.60	.2232	237	190	304	38.7
2,500	.1942	1.69	.2413	225	176	286	37.9
2,800	.2028	1.76	.2589	216	163	271	37.2
3,000	.2081	1.81	.2705	210	157	262	36.7
3,500	.2200	1.91	.2989	199	142	245	35.4
4,000	.2304	2.00	.3268	191	130	231	34.2
4,500	.2393	2.08	.3544	184	120	219	33.1
5,000	.2473	2.15	.3818	178	111	210	31.9
6,000	.2605	2.26	.4363	169	97	195	29.8
7,000	.2712	2.36	.4908	163	86	185	27.9
8,000	.2799	2.43	.5455	159	78	177	26.1
9,000	.2872	2.49	.6005	155	71	171	24.5
10,000	.2935	2.55	.6558	153	65	166	23.0
15,000	.3157	2.74	.9372	145	46	152	17.4
20,000	.3318	2.88	1.2241	142	35	146	13.9

SECTION 304-110-101

MODERATE RAIN							
FREQ. CPS	PROPAGATION CONSTANT — PER MILE			CHARACTERISTIC IMPEDANCE			
	ATTENUATION		PHASE SHIFT	R OHMS	X OHMS (neg.)	Z OHMS	ANGLE DEGREES (neg.)
	α NEPERS	DB	β RADIANS				
200	.08603	.75	.08484	516	490	712	43.5
300	.1050	.91	.1043	424	398	581	43.2
500	.1345	1.17	.1359	332	305	450	42.6
800	.1681	1.46	.1742	266	237	356	41.7
1,000	.1863	1.62	.1966	240	210	319	41.2
1,200	.2024	1.76	.2174	221	190	292	40.6
1,400	.2168	1.88	.2370	207	174	270	40.0
1,600	.2299	2.00	.2558	195	161	253	39.5
1,800	.2418	2.10	.2738	186	150	239	38.9
2,000	.2527	2.20	.2914	178	141	227	38.4
2,200	.2629	2.28	.3085	171	133	217	37.9
2,500	.2768	2.40	.3335	163	123	204	37.1
2,800	.2893	2.51	.3580	156	115	194	36.3
3,000	.2971	2.58	.3740	152	110	187	35.8
3,500	.3145	2.73	.4134	144	99	175	34.5
4,000	.3296	2.86	.4521	138	90	165	33.3
4,500	.3429	2.98	.4905	133	83	157	32.1
5,000	.3547	3.08	.5286	128	77	150	31.0
6,000	.3747	3.25	.6045	122	67	140	28.9
7,000	.3911	3.40	.6804	118	60	132	26.9
8,000	.4048	3.52	.7567	114	54	126	25.1
9,000	.4166	3.62	.8334	112	49	122	23.5
10,000	.4268	3.71	.9106	110	44	118	22.0
15,000	.4659	4.05	1.3035	104	31	109	16.4
20,000	.4968	4.31	1.7045	102	23	104	12.8