Open Wire Losses at Carrier Frequencies

DRY WEATHER LOSSES

Spacing (Inches)	Insulation(a)	Gauge (Mils)	Attenuation Loss in db Per Mile at Frequency of						
			6 kc D(W-E) H(W-E) B(W-E)	9 kc D(E-W) H(E-W)	11 kc B(E-W)	14 kc C(E-W)	27 kc C(W-E)	80 kc J(W-E)	140 kc J(E-W)
Copper Wire									
6	CS	104	.087	.096	.103	.114	.151	.249	.325
		128	.067	.077	.085	.094	.126	.209	.274
		165	.051	.061	.067	.075	.101	.170	.224
6	DP	104	.087	.096	.103	.114	.151	.249	.325
		128	.067	.077	.085	.094	.126	.209	.274
		165	.051	.061	.067	.075	.101	.170	.224
8	CS	104	.082	.091	.097	.107	.144	.236	.308
		128	.063	.073	.080	.089	.119	.197	.259
		134	.058	.070	.075	.084	.110	.187	.248
		165	.048	.058	.063	.071	.095	.160	.211
8	DP	080	.124	.129	.135	.142	.181	-	-
		104	.082	.091	.097	.107	.144	.236	.308
		128	.063	.073	.080	.089	.119	.197	.259
		165	.048	.058	.063	.071	.095	.160	.211
12	CS	104	.076	.084	.090	.099	.133	.219	.287
		128	.058	.067	.073	.082	.110	.183	.241
		134	.053	.064	.069	.077	.105	.174	.230
		165	.044	.053	.058	.065	.087	.148	.196
12	DP	080	.116	.121	.126	.134	.168	-	-
		104	.076	.084	.090	.099	.133	.219	.287
		114	.065	.076	.080	.090	.120	.202	.266
		128	.058	.067	.073	.082	.110	.183	.241
		134	.053	.064	.069	.077	.105	.174	.230
		144	.049	.058	.064	.072	.097	.163	.215
		165	.044	.053	.058	.065	.087	.148	.196
Copper-Steel Wire									
40% Conductivity Ratio									
12	DP	165	.083	.084	.086	.088	.094	.138	.192
		128	.128	.130	.132	.133	.138	.173	.224
		104	.181	.185	.187	.188	.194	.222	.264
		080	.285	.295	.297	.300	.306	.328	.363
30% Conductivity Ratio									
12	DP	128	.181	.186	.188	.189	.196	.211	.236
		104	.252	.262	.264	.267	.276	.292	.313
Steel or Iron Wire									
12	DP	109	.85	1.00	1.20	1.35	1.90	-	-
		134	.75	.95	1.05	1.20	1.65	-	-
14 HC Drop Wire									
4	(b)	64	.16	.17	.17	.18	.23	.38	.50
	(c)	64	.16	.17	.17	.18	.23	.38	.50
12	(b)	64	.14	.15	.15	.16	.21	.34	.44
Paired	DP	64	.83	.87	.89	.92	1.19	1.99	3.01

(a) For CW insulation use values shown for DP insulation. Also for CSA and CSC use values shown for CS insulation.
(b) Pair per wire tied solidly to crossarm.
(c) Pair per wire on T-Knobs (double grooved porcelain knob)