

Open Wire Losses at Carrier Frequencies

WET WEATHER LOSSES

Spacing (Inches)	Insulation(a)	Gauge (Mils)	Attenuation Loss in db Per Mile at Frequency of							
			6 kc	9 kc	11 kc	14 kc	27 kc	80 kc	140 kc	
			D(W-E) H(W-E) B(W-E)	D(E-W) H(E-W)	B(E-W)	C(E-W)	C(W-E)	J(W-E)	J(E-W)	
<b>Copper Wire</b>										
6	CS	104	.096	.108	.116	.129	.175	.301	.405	
		128	.075	.088	.097	.108	.148	.258	.350	
		165	.059	.071	.079	.088	.122	.216	.295	
6	DP	104	.106	.120	.129	.144	.199	.353	.485	
		128	.083	.098	.109	.122	.170	.307	.426	
		165	.068	.082	.090	.102	.143	.262	.366	
8	CS	104	.092	.103	.110	.122	.167	.289	.390	
		128	.072	.084	.093	.104	.142	.250	.340	
		134	.069	.081	.090	.101	.138	.242	.330	
		165	.057	.069	.076	.085	.117	.209	.287	
8	DP	080	.145	.156	.164	.177	.235	-	-	
		104	.102	.115	.123	.137	.190	.344	.474	
		128	.081	.096	.106	.119	.165	.301	.421	
		165	.065	.080	.088	.099	.139	.258	.365	
12	CS	104	.087	.098	.105	.116	.159	.277	.376	
		128	.068	.080	.087	.098	.135	.238	.327	
		134	.065	.077	.084	.095	.130	.231	.318	
		165	.054	.065	.071	.080	.111	.201	.277	
12	DP	080	.138	.149	.157	.171	.227	-	-	
		104	.098	.112	.120	.133	.185	.333	.465	
		114	.088	.103	.111	.123	.173	.313	.438	
		128	.078	.093	.102	.113	.160	.293	.411	
		134	.075	.090	.099	.110	.155	.285	.401	
		144	.072	.086	.094	.106	.149	.275	.388	
		165	.064	.077	.084	.095	.135	.252	.358	
<b>Copper-Steel Wire</b>										
<b>40% Conductivity Ratio</b>										
12	DP	165	.103	.108	.111	.117	.139	.242	.354	
		128	.150	.156	.161	.166	.190	.283	.396	
		104	.204	.211	.216	.222	.245	.336	.442	
		080	.305	.323	.328	.337	.362	.456	.555	
<b>30% Conductivity Ratio</b>										
12	DP	128	.202	.211	.216	.222	.246	.321	.406	
		104	.272	.289	.292	.300	.332	.406	.491	
<b>Steel or Iron Wire</b>										
12	DP	109	.87	1.03	1.23	1.38	1.95	-	-	
		134	.77	.97	1.08	1.23	1.70	-	-	
<b>14 HC Drop Wire</b>										
4	(b)	64	.5	.6	.7	.8	1.2	2.3	3.0	
4	(c)	64	.25	.27	.29	.31	.42	.84	1.27	
12	(b)	64	.5	.7	.8	.9	1.3	2.3	2.7	
Paired	DP	64	1.9	2.2	2.5	2.8	4.3	10.1	16.9	

(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)