

Coaxial Cable Data



Coaxial Cable Data (50 Ohm) : loss, max power, diameter, velocity factor :

Type	50MHz loss/max pwr	144MHz loss/max pwr	432MHz loss/max pwr	1296MHz loss/max pwr	diameter	velocity factor
Aircom+		4.5 / 1000	8.2 / 530	14.5 / 300	10.8	0.85
Aircell 7	4.8 / 1000	7.9 / 800	14.1 / -	26.1 / 190	7.3	0.83
H 100	2.8 / -	4.9 / 1000	8.8 / 530	16.0 / 130	9.8	0.84
H 155	6.5 / -	11.2 / 240	19.8 / 90	34.9 / 49	5.4	0.79
H 500	2.9 / -	- / 1000	- / 530	17.4 / 130	9.8	0.81
H 2000 flex	2.7 / -	4.8 / 1600	8.5 / -	15.7 / -	10.3	0.83
RG 55		18.5 / 300	34.0 / 200	60.0 / 100	5.4	0.66
RG 58 CU	11.0 / -	20.0 / 240	40.0 / 90	90.0 / 49	5.0	0.66
RG 174 U		34.0 / 95	60.0 / -	110.0 / 30	2.8	0.66
RG 213 U	4.3 / -	8.2 / 800	15.0 / 290	26.0 / -	10.3	0.66
RG 223 U		18.5 / 300	34.0 / 200	60.0 / 100	5.4	0.66
Cellflex 1/4"		5.5 / 1200	9.0 / 750	18.0 / 400	8.0	0.85
Cellflex 3/8"		3.8 / 2800	6.5 / 1200	13.0 / 680	15.0	0.85
Cellflex 1/2"		3.0 / 2800	5.6 / 1600	10.0 / 850	16.0	0.88
Cellflex 5/8"		2.5 / 4000	4.0 / 2300	7.2 / 1350	23.0	0.85

loss : dB per 100meters - **max pwr** : Watts - **diameter** : millimeters

Lengths of 1/2 wavelengths lines and 1/4 wavelengths lines :

Type	145MHz 1/2 wl 1/4 wl	432MHz 1/2 wl 1/4 wl	438MHz 1/2 wl 1/4 wl	1278MHz 1/2 wl 1/4 wl	1296MHz 1/2 wl 1/4 wl

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Aircom+	87.88 43.94	29.58 14.79	28.76 14.38	9.858 4.929	9.838 4.919
Aircell 7	85.82 42.91	28.88 14.44	28.40 14.21	9.740 4.870	9.606 4.803
H 100	86.84 43.42	29.22 14.61	28.76 14.38	9.858 4.753	6.416 3.208
H 155	81.68 40.84	27.42 13.71	27.06 13.53	9.272 4.636	9.144 4.572
H 500	92.50 46.25	28.12 14.06	27.72 13.86	9.506 4.753	9.374 4.687
H 2000 flex	85.82 42.91	28.88 14.44	28.40 14.20	9.740 4.870	9.606 4.803
RG 58	68.24 34.12	22.96 11.48	22.58 11.29	7.744 3.872	7.638 3.819
RG 213	68.24 34.12	22.96 11.48	22.58 11.29	7.744 3.872	7.638 3.819
Cellflex ½"	91.02 45.51	30.54 15.27	30.12 15.06	10.326 5.163	10.184 5.092

lengths : centimeters