

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

**lengths** : centimeters