



**Feeder**

## 1.Application and Classification

50 ohm braided external conductor coaxial cable includes D-F and RG series, mainly used for:

Ground wireless communication system

Antenna feeders for ground mobile communications and wireless communications

Antenna feeder for ground base station

Feeder and antenna cable for computer room

Military data and information transmission lines

Audio and video lines for ultra-low frequency, AM and FM radio broadcasting systems

## 2.Structural performance parameter

		12D-FB	10D-FB	8D-FB	7D-FB	5D-FB	RG-8/U
<b>Structural parameters</b>							
Inner Conductor (Dia.mm)		4.40	3.50	2.80	2.60	1.80	2.743
Insulators (Dia.mm)		12.40	10.00	7.80	7.30	5.00	7.30
Outer Conductor (Dia.mm)		13.40	11.00	8.80	8.20	5.90	8.20
Over Sheath (Dia.mm)		15.60	13.00	10.40	9.80	7.50	10.20
<b>Electrical Properties</b>							
Maximum Attenuation (20℃ ) dB/100m	150MHz	3.40	4.10	4.90	5.30	7.60	5.24
	280MHz	4.70	5.60	7.00	7.30	10.90	7.16
	350MHz	6.30	6.30	8.10	8.30	12.10	8.03
	400MHz	5.80	6.90	8.80	9.10	13.00	8.62
	800MHz	8.50	10.20	13.10	13.00	19.00	12.47
	900MHz	9.20	11.10	14.00	14.30	20.40	13.44
	1200MHz	10.90	13.1	16.70	17.00	24.20	15.60
	1500MHz	12.30	15.30	19.20	19.7	27.50	17.63
	1900MHz	14.30	17.70	22.20	22.90	31.80	21.00
Inner Conductor Resistance $\Omega$ /km. $\leq$		1.17	1.86	2.92	3.41	7.05	3.04
Insulation Resistance M $\Omega$ .km. $\geq$		5000					
Withstand Voltage AC V/min. $\geq$		1000					
Characteristic Impedance $\Omega$		50 $\pm$ 2					
Return Loss dB $\geq$	VHF	20					
	UHF	18					

\* Note: The outer sheath can be made of low-smoke, halogen-free flame retardant PE according to the requirements of users (tested by the authority, it has reached the combustion test standard UL1581-1990).

\* Note: The coupling attenuation value in the table is the statistical value obtained according to IEC1196-4 method, and the probability of receiving this value is 50%.

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