

RG6

Low Cost

Features:
* Low Cost

Applications:
* Telecom
* Interconnect between equipment

Electrical

Frequency:	0.005~2.2GHz
Impedance:	75±3Ω
Velocity of Propagation:	83%
Capacitance:	53pF/m
VSWR:	1.25 @5~1000MHz 1.45 @1000~2200MHz

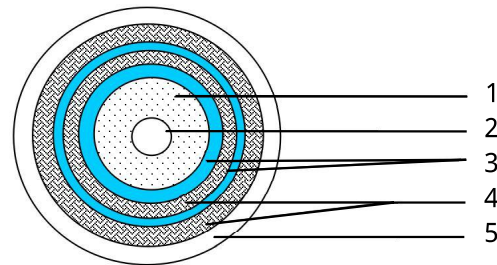
Mechanical

Bend Radius:	35mm
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Environmental

Temperature:	-20~+70°C
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Construction



No.	Name	Size (mm)	Material
1	Dielectric	4.6	FPE
2	Inner Conductor	1.02	Copper
3	Outer Conductor	-	Aluminum plastic strip
4	Outer Conductor	-	Aluminum wire
5	Jacket	7.8	PVC

Attenuation

Frequency (GHz)	0.055	0.211	0.35	0.55	0.87	1	2.2
Attenuation*1 (dB/100m)	5.25	10	12.63	16.08	20.04	21.49	33.7

[1] 5% deviation allowed

Calculate Cable Attenuation: $\text{Attenuation (dB/100m)} = 0.71075768 * \sqrt{F \text{ (MHz)}} + (-0.00166783) * F \text{ (MHz)}$

Calculate Connector Attenuation: $\text{Attenuation (dB)} = 0.03 * \sqrt{F \text{ (GHz)}}$

How To Order

RG6-X-Y-Z

X: Frequency in GHz

Y: Connector type

Z: Length in meters

Examples:

To order a RG6 cable assembly, 0.005~2.2GHz, F male to F female, 0.8 meter, specify RG6-2.2-FFF-0.8.

Connector naming rules:

F - F (2.2GHz, VSWR 1.4)

Female Connector - Add 'F' after connector name

Right Angle - Add 'R' after connector name (VSWR increase 0.1)