

RG304 Low Cost

Features:
* Low Cost

Applications:
* Telecom
* Interconnect between equipment

Electrical

Frequency:	DC~6GHz
Impedance:	50±2Ω
Velocity of Propagation:	70%
VSWR:	1.20 max. @DC~3GHz
Voltage Withstand:	3200V DC
Capacitance:	96pF/m

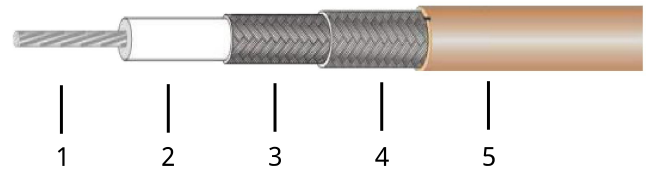
Mechanical

Bend Radius(installation):	40mm min.
Bend Radius(repeated):	71mm min.

Environmental

Temperature:	-55~+200°C
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Construction



No.	Name	Size (mm)	Material
1	Inner Conductor	1.48	Silverplated copper Wire
2	Dielectric	4.6	PTFE
3	Outer Conductor1	5.0	Silverplated copper Wire
4	Outer Conductor2	5.6	Silverplated copper Wire
4	Jacket	7.1	FEP

Attenuation

Frequency (GHz)	0.03	0.2	3	5	6
Attenuation*1(dB/100m)	6.27	16.5	73.7	78.9	86.9

[1] VSWR:1.0; Ambient: +25°C (77°F)

Calculate Cable Attenuation: Attenuation (dB/100m) = $5.116766 * \sqrt{F \text{ (MHz)}} + 0.008134 * F \text{ (MHz)}$

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

How To Order

RG304-X-Y-Z

X: Frequency in GHz

Y: Connector type

Z: Length in meters

Examples:

To order a RG304 cable assembly, DC-6GHz, SMA male to SMA female, 0.8 meter, specify RG304-6-SSF-0.8.

Connector naming rules:

S - SMA (6GHz, VSWR 1.4)

X - MMCX (6GHz, VSWR 1.4)

M - MCX (6GHz, VSWR 1.4)

B - BNC (4GHz, VSWR 1.4)

D - SMB (4GHz, VSWR 1.4)

Female Connector - Add 'F' after connector name

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