

RG400 Low Cost

Features:
* Low Cost

Applications:
* Telecom
* Interconnect between equipment

Electrical

Frequency:	DC~12.4GHz
Impedance:	50Ω
Velocity of Propagation:	70%
Voltage Withstand:	1400V DC
Capacitance:	95pF/m

Mechanical

Bend Radius(installation):	25mm
Bend Radius(repeated):	50mm

Environmental

Temperature: -55~+200°C

Construction

Attenuation

Frequency (GHz)	0.1	0.4	1	3	5	11	12.4
Attenuation*1 (dB/100m)	14.1	30.5	49.2	90.2	110	190	205

[1] VSWR:1.0; Ambient: +20°C (68°F)

Calculate Cable Attenuation: $\text{Attenuation (dB/100m)} = 1.379353 * \sqrt{F \text{ (MHz)}} + 0.007188 * F \text{ (MHz)}$

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

How To Order

RG400-X-Y-Z

X: Frequency in GHz
Y: Connector type
Z: Length in meters

Examples:

To order a RG400 cable assembly, DC-12.4GHz, SMA male to SMA female, 500 meter, specify RG400-12.4-SSF-500.



No.	Name	Size (mm)	Material
1	Inner Conductor	1.02	Silverplated copper Wire
2	Dielectric	2.98	PTFE
3	Outer Conductor1	3.5	Silverplated copper Wire
3	Outer Conductor2	4	Silverplated copper Wire
4	Jacket	4.95	TPU

Connector naming rules:

S - SMA (12.4GHz, VSWR 1.3)
X - MMCX (12.4GHz, VSWR 1.3)
M - MCX (12.4GHz, VSWR 1.3)
B - BNC (12.4GHz, VSWR 1.4)
D - SMB (12.4GHz, VSWR 1.4)

Female Connector - Add 'F' after connector name

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