

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

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

How To Order

RG400-X-Y-Z

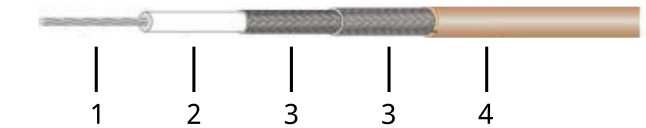
X: Frequency in GHz

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 (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)