

RG179

Low Cost

Features:
* Low Cost

Applications:
* Telecom
* Interconnect between equipment

Electrical

Frequency:	DC~3GHz
Impedance:	75±2Ω
Velocity of Propagation:	70%
VSWR:	1.20 max.@DC~1GHz
Voltage Withstand:	1200V DC
Capacitance:	64pF/m

Mechanical

Bend Radius(installation):	12mm min.
Bend Radius(repeated):	50mm min.

Environmental

Temperature:	-55~+200°C
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Construction



No.	Name	Size (mm)	Material
1	Inner Conductor	0.306	Silver plated copper wire
2	Dielectric	1.60	FEP
3	Outer Conductor	2.05	Silver plated copper wire
4	Jacket	2.54	FEP

Attenuation

Frequency (GHz)	0.1	0.4	1
Attenuation(dB/100m)	26.6	54.1	87.5

Calculate Cable Attenuation: Attenuation (dB/100m) = $2.64685263 * \sqrt{F} \text{ (MHz)} + 0.0028125 * F \text{ (MHz)}$

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

How To Order

RG179-X-Y-Z

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

Examples:

To order a RG179 cable assembly, DC-3GHz, SMA male to SMA female, 0.8 meter, specify RG179-3-SSF-0.8.

Connector naming rules:

S - SMA (6GHz, VSWR 1.4)
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)