RG316

Low Cost

Features:
* Low Cost

Applications:
* Telecom
* Interconnect between equipment

Electrical

Frequency:	DC~6GHz
Impedance:	50Ω
Velocity of Propagation:	70%
Voltage Withstand:	600V DC
Capacitance:	96pF/m

Environmental

Temperature:	-55~+200℃

Construction

No.	Name	Size (mm)	Material
1	Inner Conductor	0.51	Stranded Silver-plated copper
2	Dielectric	1.5	FEP
3	Outer Shield	1.95	Silver-plated copper braid
4	Jacket	2.5	FEP

Attenuation

Frequency (GHz)	0.1	0.4	1	3	6
Attenuation[*1] (dB/100m)	26.2	53.2	85.6	153.2	295

[1] VSWR:1.0; Ambient: +25℃ (77℉)

Calcuate Cable Attenuation: Attenuation (dB/100m) = $2.583794 * \sqrt{F\ (MHz)} + 0.003893 * F\ (MHz)$

Calcuate Connector Attenuation: Attenuation (dB) = $0.03 \times \sqrt{F\ (GHz)}$

How To Order

RG316-X-Y-Z

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

Examples:
To order a RG316 cable assembly, DC-3GHz, SMA male to SMA female, 0.8 meter, specify RG316-3-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)