

RF113 Low Cost

Features:
* Low Cost

Applications:
* Telecom
* Interconnect between equipment

Electrical

Frequency:	DC~6GHz
Impedance:	50±2Ω
Velocity of Propagation:	70%
VSWR:	1.30 max.@DC~6GHz
Voltage Withstand:	1000V DC
Capacitance:	98pF/m

Mechanical

Bend Radius(installation):	5mm min.
Bend Radius(repeated):	10mm min.

Environmental

Temperature:	-55~+200°C
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Construction



No.	Name	Size (mm)	Material
1	Inner Conductor	0.24	Tinned Copper Wire
2	Dielectric	0.70	FEP
3	Outer Conductor	0.92	Tinned Copper Wire
4	Jacket	1.13	FEP

Attenuation

Frequency (GHz)	1	2	3	4	5	6
Attenuation(dB/100m)	220	310	380	440	490	540

Calculate Cable Attenuation: Attenuation (dB/100m) = $6.9592643 \times \sqrt{F \text{ (MHz)}} + (-0.00065630) \times F \text{ (MHz)}$

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

How To Order

RF113-X-Y-Z

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

Examples:

To order a RF113 cable assembly, DC-3GHz, SMA male to SMA female, 0.8 meter, specify RF113-3-SSF-0.8.

Connector naming rules:

S - SMA (6GHz, VSWR 1.4)

IP - IPEX (3GHz, VSWR 1.3)

Female Connector - Add 'F' after connector name

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