

RF137 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:	96pF/m

Mechanical

Bend Radius(installation):	5mm min.
Bend Radius(repeated):	20mm min.

Environmental

Temperature:	-55~+200°C
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Construction



No.	Name	Size (mm)	Material
1	Inner Conductor	0.306	Tinned Copper Wire
2	Dielectric	0.90	FEP
3	Outer Conductor	1.13	Tinned Copper Wire
4	Jacket	1.37	FEP

Attenuation

Frequency (GHz)	1	2	3	4	5	6
Attenuation(dB/100m)	170	250	300	350	400	450

Calculate Cable Attenuation: Attenuation (dB/100m) = $5.3386764 \times \sqrt{F \text{ (MHz)}} + 0.00558114 \times F \text{ (MHz)}$

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

How To Order

RF137-X-Y-Z

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

Examples:

To order a RF137 cable assembly, DC-3GHz, SMA male to SMA female, 0.8 meter, specify RF137-3-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)