



00100A1B2A1XXX

Cable Assembly

2GHz SMA(M)–SMA(M) for RG223 Cable Assembly

Features

- ✓ High Repeatability
- ✓ Low VSWR



Electrical Specifications

Frequency	DC-2GHz
Impedance	50Ohm
Connection 1	SMA Male
Connection 2	SMA Male

Material

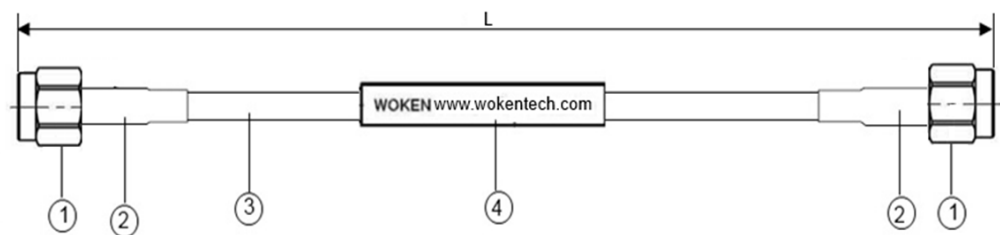
Part	Material	Plated
1.SMA Connector		
Body	Brass	Gold
Center Pin	Brass	Gold
Insulator	Teflon	
2.Adhesive shrink tube		Yellow
3.Cable		
RG223 Coaxial Cable		Black
4.Heat Shrink Tube		Black

Mechanical

Durability	500 Cycles
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Outling Drawing (Unit:mm)

DIMENSIONS	TOLERANCES
0.5~10mm	±0.2
11~100mm	±5.0
101~500mm	±10.0
501~1000mm	±15.0
1001~2000mm	±20.0
2000~5000mm	±50.0





Wake up your further dream.



RG223 Cable Physical Characteristics

Inner Conductor	0.9mm Silver Plated Copper
Dielectric Diameter	2.95mm PE
1 st Braid	Silver Plated Copper Wire Braid
2 nd Braid	Silver Plated Copper Wire Braid
Jacket	5.4mm PVC
Min. Bending Radius	Without Load:5 x outer diameter
	With Load:10 x outer diameter

RG223 Cable Electrical Characteristics

Max. Operating Frequency	2GHz	
Impedance	50 ±2ohms	
Capacitance	100 pF/m (nom.)	
Operating Temperature	-40~85℃	
Installation Temperature	-15~55℃	
Velocity of propagation	66%	
Maximum Attenuation(dB/m) @20℃ 	Freq.	Attenuation (dB/M)
	60MHz	0.11
	80MHz	0.12
	200MHz	0.20
	400MHz	0.29
	1GHz	0.50
	1.5GHz	0.64
	2GHz	0.74

整條 Assembly 之 Loss 為以下 3 項數值之加總

1. 接頭 Loss : $0.06 \times \sqrt{\text{頻率}}$ (2 端都有接頭則需將此數值 x2)
2. 組裝 Loss : 0.12 (2 端都有組裝則需將此數值 x2)
3. 線材 Loss : 依上述 Maximum Attenuation 換算需求長度之 Loss