Rev:A

00100A1F3A1XXX

Cable Assembly

18GHz SMA(M)-SMA(M) for Semi-Flex RG402 Jacket Cable Assembly

Features

- High Repeatability
- Low VSWR

Electrical Specifications

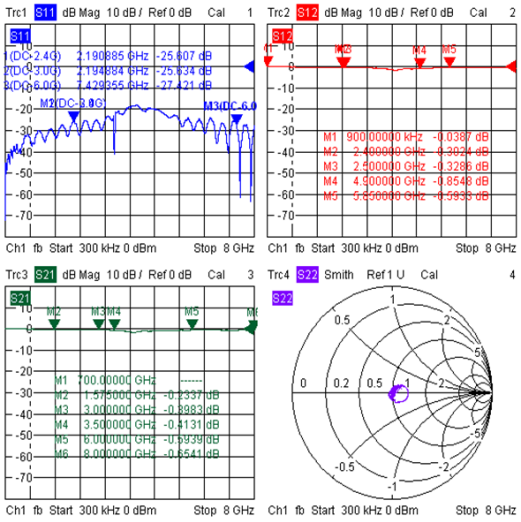
Frequency	DC-18GHz
VSWR	1.3:1(Max.)
Impedance	50Ohm
Connection 1	SMA Male
Connection 2	SMA Male

Material

Part	Material	Plated
1.SMA Connector		
Body	Brass	Gold
Center Pin	Brass	Gold
Insulator	Teflon	
2.Heat Shrink Tube		Black
3.Cable		
Semi-Flex RG402 Jacket Coaxial Cable		Blue
4.Heat Shrink Tube		Yellow

Test Report

30cm:

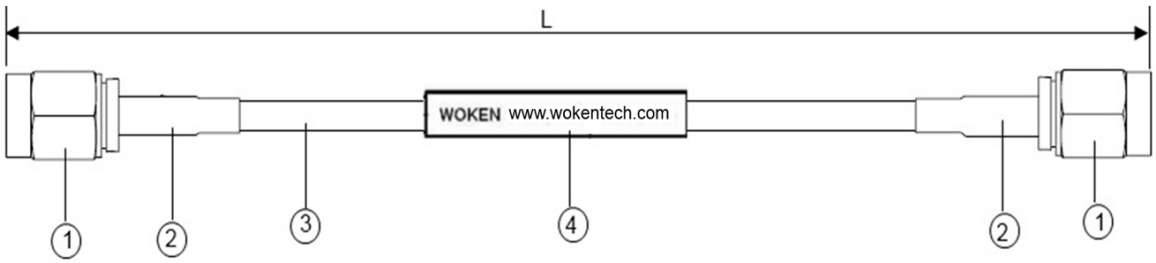


Mechanical

Durability	500 Cycles

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



Semi-Flex RG402 with Jacket Cable Physical Characteristics

Center Conductor	0.94mm Silver Plated Copper
Dielectric Diameter	2.95mm PTFE
Braid	3.58mm Tin-soaked Tin Plated copper
Jacket	4.14mm FEP
Min. Bending Radius Single Bend	10mm

Semi-Flex RG402 with Jacket Cable Electrical Characteristics

Impedance	50 ± 2ohms		
Capacitance	94 pF/m (nom.)		
Operating Temperature	-65~ 180℃		
Shielding Effect	<-130 dB		
Velocity of propagation	71%		
Max. Operating Frequency	18GHz		
Structure	Frequency	Maximum Attenuation(dB/m)	Average Power(W)
	0.4GHz	0.25	686
	1GHz	0.41	419
	2GHz	0.60	291
	2.4GHz	0.67	265
	3GHz	0.77	235
	5GHz	1.02	182
	6GHz	1.13	166
	10GHz	1.52	122
	18GHz	2.15	83

整條 Assembly 之 Loss 為以下 3 項數值之加總

1. 接頭 Loss：0.06 x √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
4. 晃動測試公差: I/L +/-0.2dB