



00100A1G1A5XXX

Cable Assembly

6GHz SMA(M)–Reverse SMA(F) for Semi-Flex RG405 Assembly

Features

- ✓ High Repeatability
- ✓ Low VSWR



Test Report

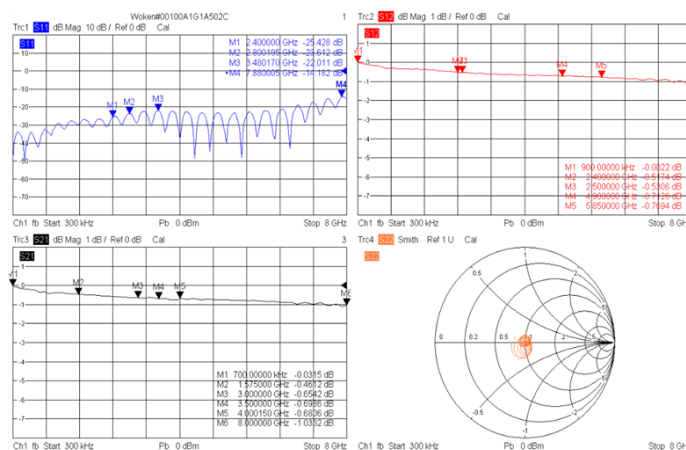
30cm

Electrical Specifications

Frequency	DC-6GHz
VSWR	1.3:1(Max.)
Impedance	50Ohm
Connection 1	SMA Male
Connection 2	Reverse SMA Female

Material

Part	Material	Plated
1.SMA Connector		
Body	Brass	Gold
Center Pin	Brass	Gold
Insulator	Teflon	
2.Cable		
Semi-Flex RG405 Coaxial Cable		Silver
3.Adhesive shrink tube		Black
4.SMA Connector		
Body	Brass	Gold
Center Pin	Beryllium Copper	Gold
Insulator	Teflon	
5.Heat Shrink Tube		Yellow

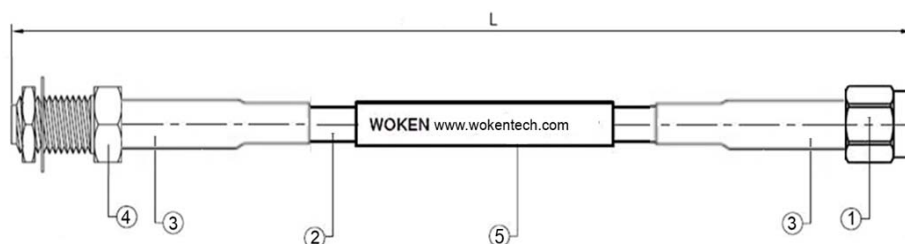


Mechanical

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





Wake up your further dream.



Semi-flex RG405 Physical Characteristics

Center Conductor	0.52±0.01mm Silver Plated Copper Wire
Dielectric Diameter	1.68±0.05mm PTFE
Outer Conductor OD	2.15±0.05mm Tin Copper Wire Braid + Tin Soaked(Coverage Ratio:100%)
Minimum Bend Radius Static	6mm
Minimum Bend Radius Repeated	20mm
Operating Temperature	-55~ 125°C

Semi-flex RG405 Electrical Characteristics

Impedance	50 ± 2ohms		
Capacitance	95±2 pf/m		
Shielding Effectiveness	>100dB@DC-18GHz		
Velocity	70%		
Max. Operating Frequency	96GHz		
Structure	Frequency	Maximum Attenuation(dB/m)	Average Power(W)
	0.5GHz	0.45	173.5
	1GHz	0.64	121.5
	5GHz	1.51	52.2
	10GHz	2.22	35.8
	20GHz	3.29	24.3

整條 Assembly 之 Loss 為以下 3 項數值之加總

1. 接頭 Loss : 0.06 x $\sqrt{\text{頻率}}$ (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