



00100A2G2A2XXX

Cable Assembly

18GHz SMA(F)–SMA(F) for Semi-Rigid RG405 Cable Assembly

Features

- ✓ High Repeatability
- ✓ Low VSWR



Electrical Specifications

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

Material

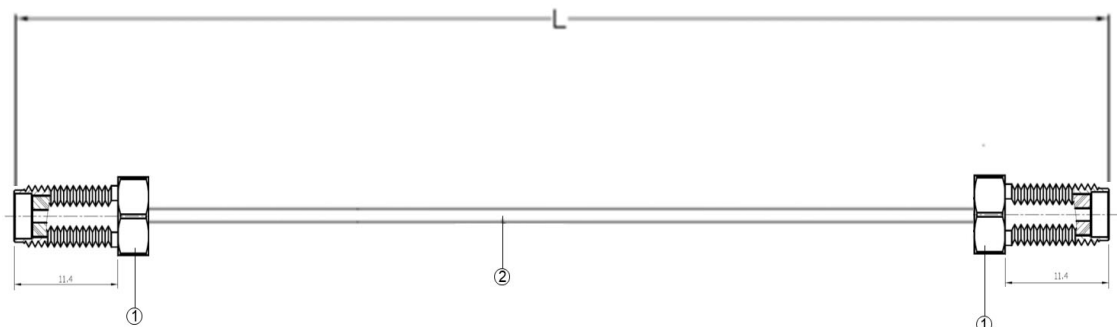
Part	Material	Plated
1.SMA Connector		
Body	Brass	Gold
Center Pin	Phosphor Bronze	Gold
Insulator	Teflon	
2.Cable		
Semi-rigid RG405 Coaxial Cable		Silver

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



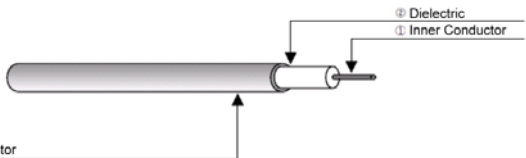
All Specification Changed Without Notification.



Semi-rigid RG405 Physical Characteristics

Center Conductor	0.511mm SPCW
Dielectric Diameter	1.67mm PTFE
Outer Conductor OD	2.19mm Tin Plated Copper Tube
Operating Temperature	-55~ 125°C
Min. Bending Radius Static	3.2mm

Semi-rigid RG405 Electrical Characteristics

Impedance	50 ± 2ohms		
Capacitance	94 pf/m		
Max. Operating Frequency	20GHz		
Shielding Effect	100dB(Min.)		
Structure	Frequency	Maximum Attenuation(dB/m)	Power (Watts)
	1GHz	0.64	84.7
	5GHz	1.51	36.3
	10GHz	2.22	24.9
	20GHz	3.29	16.9

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