Rev:A

00100A1F2A2XXX

Cable Assembly

18GHz SMA(M)-SMA(F) for Semi-Rigid RG402 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 Female

Material

Part	Material	Plated
1.SMA Connector		
Body	Brass	Gold
Center Pin	Brass	Gold
Insulator	Teflon	
2.Cable		
Semi-rigid RG402 Cable		Silver
3.SMA Connector		
Body	Brass	Gold
Center Pin	Phosphor Bronze	Gold
Insulator	Teflon	

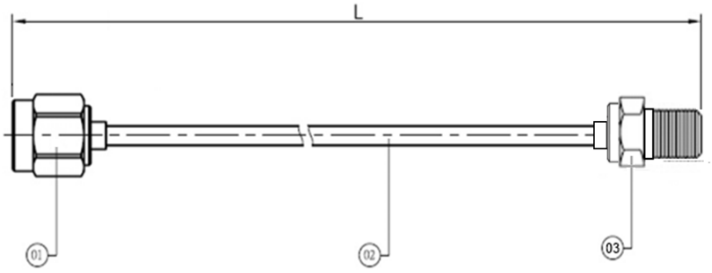
Mechanical

Durability	500 Cycles

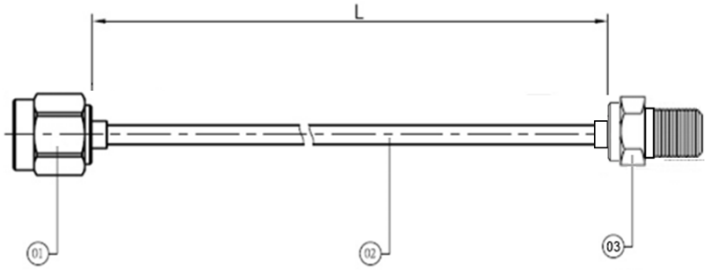
Outling Drawing (Unit:mm)

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

接頭含長度:



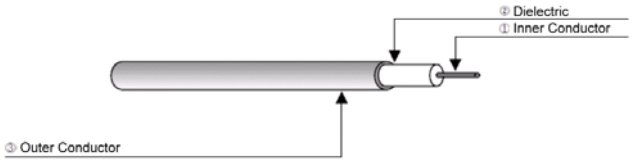
接頭不含長度:



Semi-rigid RG402 Physical Characteristics

Center Conductor	0.925±0.01mm SPCW
Dielectric Diameter	2.98±0.05mm PTFE
Outer Conductor OD	3.58±0.03mm Tin Plated Copper Tube (100% Coverage)
Operating Temperature	-40~ 125℃
Min. Bending Radius Static	6.4mm

Semi-rigid RG402 Electrical Characteristics

Impedance	50 ± 2ohms		
Capacitance	94 nF/Km		
Max. Operating Frequency	18GHz		
Velocity of propagation	69.5%		
Structure	Frequency	Maximum Attenuation(dB/m)	Power (Watts)
	1GHz	0.39	218
	3GHz	0.69	135
	5GHz	0.95	90.8
	10GHz	1.48	61.6
	15GHz	1.66	48.1
	20GHz	1.99	40.5

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