



00100A1F2A1XXX

Cable Assembly

18GHz SMA(M)–SMA(M) 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 Male

Material

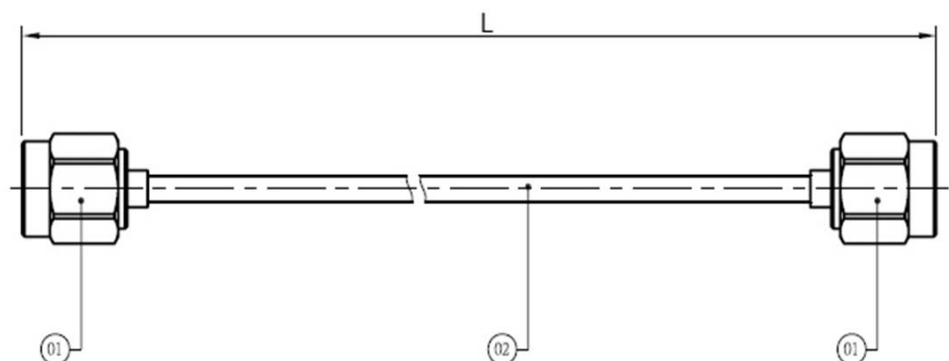
Part	Material	Plated
1.SMA Connector		
Body	Brass	Gold
Center Pin	Brass	Gold
Insulator	Teflon	
2.Cable		
Semi-rigid RG402 Coaxial Cable		Silver

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.



Semi – Rigid RG402 Cable Specification :

MIL-C-17 Part Number	M17/130-RG402, M17/130-00004	M17/130-00001, M17/130-00005
HCMC Part Number	HC90000-1	HC90000-3

Electrical Data

Impedance (Ohms)	50 +/- 1.0	50 +/- 1.0
Dielectric Strength (KVRMS 60 Hz)	5.0	5.0
Corona Extinction (KVRMS 60 Hz)	1.9 Min.	1.9 Min.
Max Operating Frequency (GHz)	36	36

Max. Attenuation, db/100ft. at 20° C and Avg. Pwr., Watts, unity VSWR, 40° C amb., still air

Frequency (GHz)	Atten.	Avg. Pwr.	Atten.	Avg. Pwr.
1.0	12.0	450.0	12.0	450.0
10.0	45.0	120.0	45.0	120.0
20.0	70.0	70.0	70.0	70.0

Mechanical Data

Inner Conductor O.D. (inches)	.0362 +/- .0007	.0362 +/- .0007
Inner Conductor Material	SPCW	SPCW
Inner Dielectric Material	PTFE,F1	PTFE,F1
Dielectric O.D. (inches)	.1175 +/- .001	.1175 +/- .001
Outer Conductor O.D. (inches)	.141 +/- .001	.141 +/- .002 +/- .001
Outer Conductor Material	Copper	Copper/Tin
Safe Bend Radius (proper tooling) (inch)	0.100	0.100
Max. Weight (Lbs./1000ft.)	34.4	35.1
Operating Temperature Max. Degrees C	-55/ +125	-55/ +125

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