



00100A1G5A1XXX

Cable Assembly

18GHz SMA(M)–SMA(M) for Ultra–Flex
.086 Cable Assembly

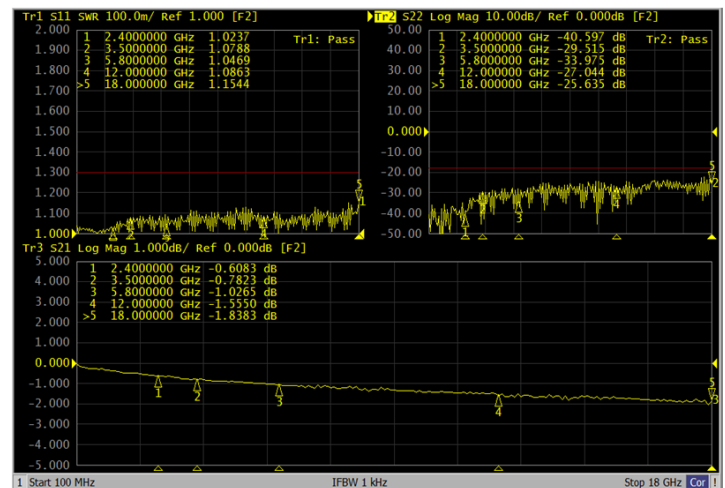
Features

- ✓ High Repeatability
- ✓ Low VSWR



Test Report

55cm:



Electrical Specifications

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

Material

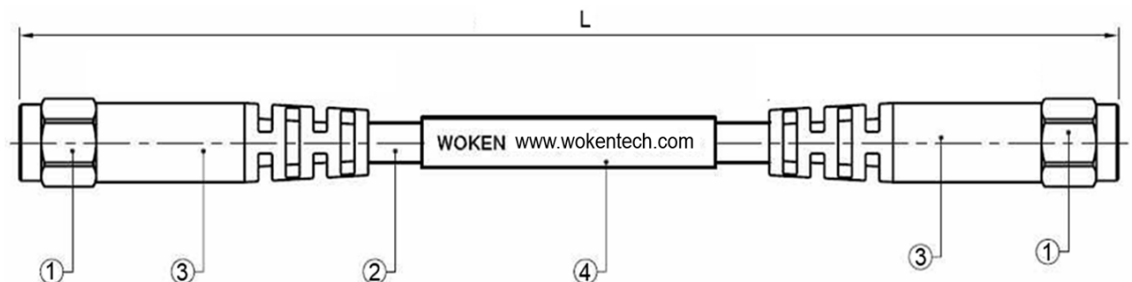
Part	Material	Plated
1.SMA Connector		
Body	Brass	Gold
Center Pin	Brass	Gold
Insulator	Teflon	
2.Cable		
Ultra-Flex .086 Coaxial Cable		Blue
3.Rigid Strain Relief		Black
4.Heat Shrink Tube		Yellow

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



All Specification Changed Without Notification.



Wake up your further dream.



Ultra-Flex .086 Cable Physical Characteristics

Center Conductor	0.51±0.01mm SPC
Dielectric Diameter	1.64±0.05mm PTFE
Outer Conductor	1.80±0.10mm SWSPCB
Outer Shield	2.17±0.10mm SPCWB
Jacket	2.90±0.10mm TPU
Minimum Bend Radius	10mm

Ultra-Flex .086 Electrical Characteristics

Impedance	50 ± 2ohms		
Capacitance	98pF/m		
Shielding Effect	100 dB(Min.)		
Operating Temperature	-40~ 80℃		
Velocity of propagation	70%		
Max. Operating Frequency	18GHz		
	Freq.	Max. Att.(dB/M)	Power(Watts)
	0.5GHz	0.44	338
	1GHz	0.66	219
	2GHz	0.97	142
	3GHz	1.23	110
	5GHz	1.64	80
	6GHz	1.82	71
	10GHz	2.43	52
	15GHz	3.06	40
	18GHz	3.39	36

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
4. 晃動測試公差: I/L +/-0.2dB