



00100A1G5P2XXX

Cable Assembly

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

Features

- ✓ High Repeatability
- ✓ Low VSWR



Test Report

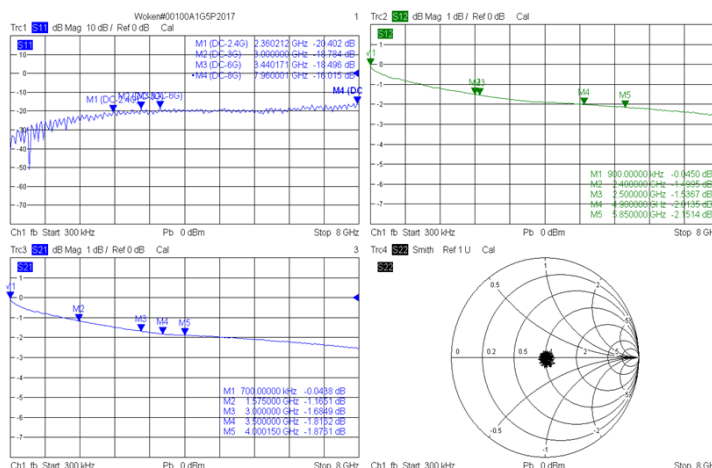
100cm:

Electrical Specifications

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

Material

Part	Material	Plated
1.SMP Connector		
Body	Beryllium Copper	Gold
Center Pin	Beryllium Copper	Gold
Insulator	Teflon	
2.Cable		
Ultra-Flex .086 Coaxial Cable		Blue
3.SMA Connector		
Body	Brass	Gold
Center Pin	Brass	Gold
Insulator	Teflon	
4.Heat Shrink Tube		Black
5.Sleeve		Black
6.Heat Shrink Tube		Yellow

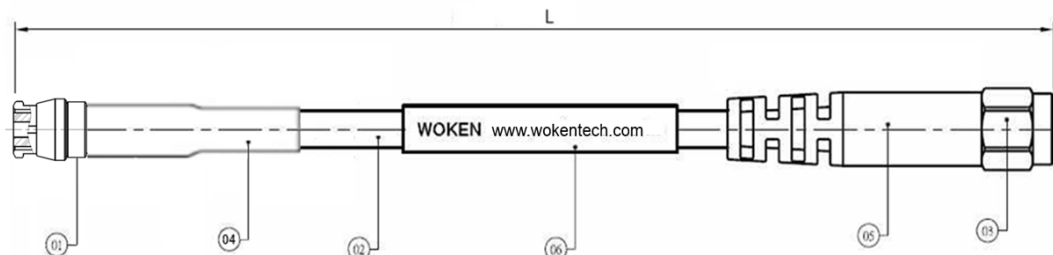


Mechanical

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.



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 √ 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