



00100A1H346XXX

Cable Assembly

9GHz IPEX-4L (M)-SMA(M) for
Φ0.81mm Cable Assembly

Features

- High Repeatability
- Low VSWR



Electrical Specifications

Frequency	DC-9GHz
VSWR	1.3:1(Max.)@DC-3GHz
	1.45:1(Max.)@3-6GHz
	1.6:1(Max.)@6-9GHz
Impedance	50Ohm
Connection 1	SMA Male
Connection 2	MHF 4L Plug(20572-001R-081)

Material

Part	Material	Plated
1.SMA Connector		
Body	Brass	Gold
Center Pin	Brass	Gold
Insulator	Teflon	
2.Heat Shrink Tube		Yellow
3.Cable		
Φ0.81mm Mini Coaxial Cable		Black
4.I-PEX Connector		
GND Contact	Beryllium Copper	All over Ni 1.00μm Min. Contact part Au 0.05μm Min. [Ni Plating Area] Ni Only
Housing	PBT	UL94V-0,Black
Contact	Beryllium Copper	All over Ni 1.00μm Min. Contact part Au 0.10μm Min.

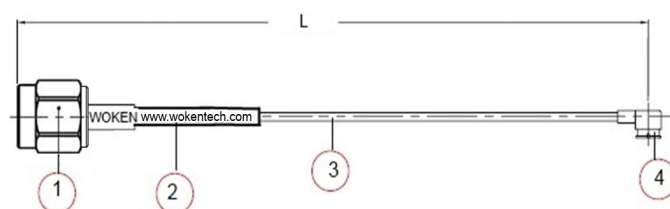
Mechanical

Durability	500 Cycles
------------	------------

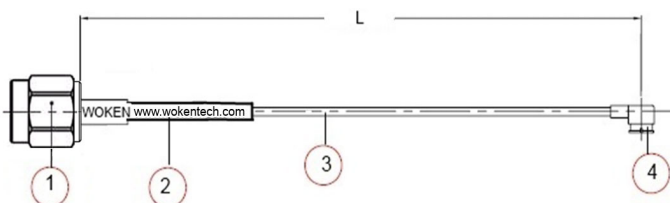
Outling Drawing (Unit:mm)

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

長度含接頭:



長度不含接頭:





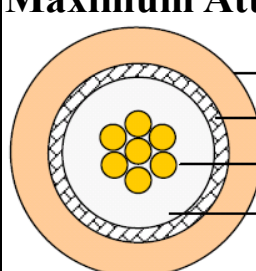
Wake up your further dream.



6GHz ϕ 0.81mm Flexible Coaxial Cable Physical Characteristics

Center Conductor	Construction Size	0.050mm
	Stranded Diameter	0.15mm Silver Plated Copper
Insulation	Average Thickness	0.13mm
	Diameter	0.41 $\pm$ 0.03 mm EEP
Braid Shield	Construction	16/3/0.050 mm
	Coverage	90%
	Diameter	0.60 $\pm$ 0.03mm Tinned Plated Copper
Jacket	Average Thickness	0.09mm
	Overall Diameter	0.81 $\pm$ 0.05mm FEP(Black)

6GHz ϕ 0.81mm Flexible Coaxial Cable Electrical Characteristics

Impedance	50 $\pm$ 3ohms	
Capacitance	98 pf/m	
Conductor Resistance	1400 ohms/KM at 20°C (max.)	
Operating Temperature	-55~+200°C	
Max Frequency	6GHz	
Maximum Attenuation(dB/M) @ 	1GHz	3.6
	2GHz	5.1
	3GHz	6.2
	4GHz	7.5
	5GHz	8.5
	6GHz	9.4

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