



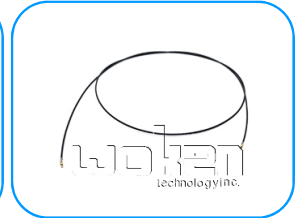
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Cable Assembly

12GHz IPEX-4L (M)-IPEX-4L (M) for
Φ0.81mm Cable Assembly

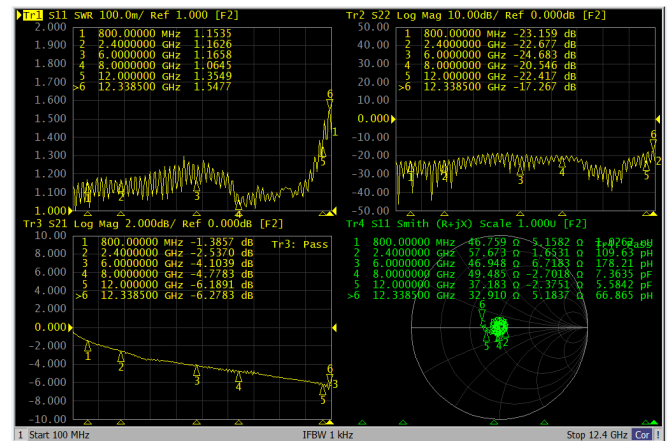
Features

- ✓ High Repeatability
- ✓ Low VSWR



Test Report

45cm



Electrical Specifications

Frequency	DC-12GHz
VSWR	1.3:1(Max.)@DC-3GHz
	1.45:1(Max.)@3-6GHz
	1.6:1(Max.)@6-9GHz
	1.9:1(Max.)@9-12GHz
Impedance	50Ohm
Connection 1	MHF 4L Plug(20572-001R-081)
Connection 2	MHF 4L Plug(20572-001R-081)

Material

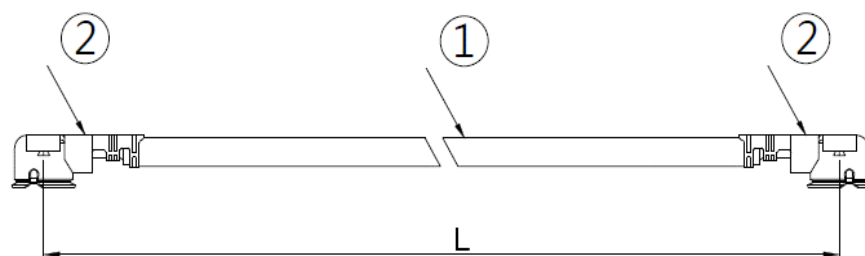
Part	Material	Plated
1.Cable		
Φ0.81mm Mini Coaxial Cable		Black
2.MHF 4L Connector		
GND Contact	Phosphor Bronze	All over Ni 1.00μm Min. Contact part Au 0.05μm Min. [Ni Plating Area] Ni Only
Housing	PBT	UL94V-0,Black
Contact	Phosphor Bronze	All over Ni 1.00μm Min. Contact part Au 0.10μm Min.

Mechanical

Durability	30 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





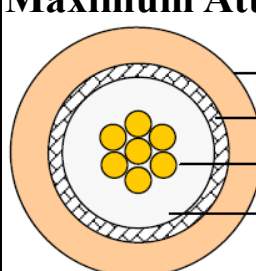
Wake up your further dream.



6GHz $\phi 0.81$ mm 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 $\phi 0.81$ mm 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	
 Jacket Braid Shield Conductor Insulation 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