

**MFW6 Series** are complete line of high performance flexible microwave cable assemblies. Specially, **MFW601 Series** have low density PTFE structure to achieve velocity propagation of **80 %**.

These series have excellent RF performance up to **110 GHz** with **1.0 mm Connectors**.



### ■ Features

- Center Conductor : Silver Plated Copper
- Insulator : Low Density PTFE
- Outer Conductor 1 : Silver Plated Copper Ribbon
- Outer Conductor 2 : Silver Plated Copper
- Jacket : FEP

### ■ Specification

Scope	Specification	W601 (110 GHz)
Physical	Center Conductor (mm)	0.29
	Insulator (mm)	0.84
	Outer Conductor 1 (mm)	1.00
	Inner Tape	1.28
	Outer Conductor 2 (mm)	1.51
	Jacket	1.81
Electrical	Freq. (GHz)	110 GHz
	Characteristic Impedance	50 ± 1 Ohm
	Velocity of Propagation (%)	Typical 80
	Voltage Withstand (V, DC)	600
	Shielding Effectiveness (dB)	<-90
	VSWR (based on connector selection)	< 1.4 to 110 GHz
	Amplitude Stability (Max) *	<± 0.2 dB @ 110 GHz
	Phase Stability (Max) *	<±9.8 degree @ 110 GHz
Mechanical & Environmental	Weight (g/M)	5.6
	Min. bending radius : Installation (mm)	7.0
	Repeated (mm)	15.0
	Operating Temperature	-55 ~+165°C

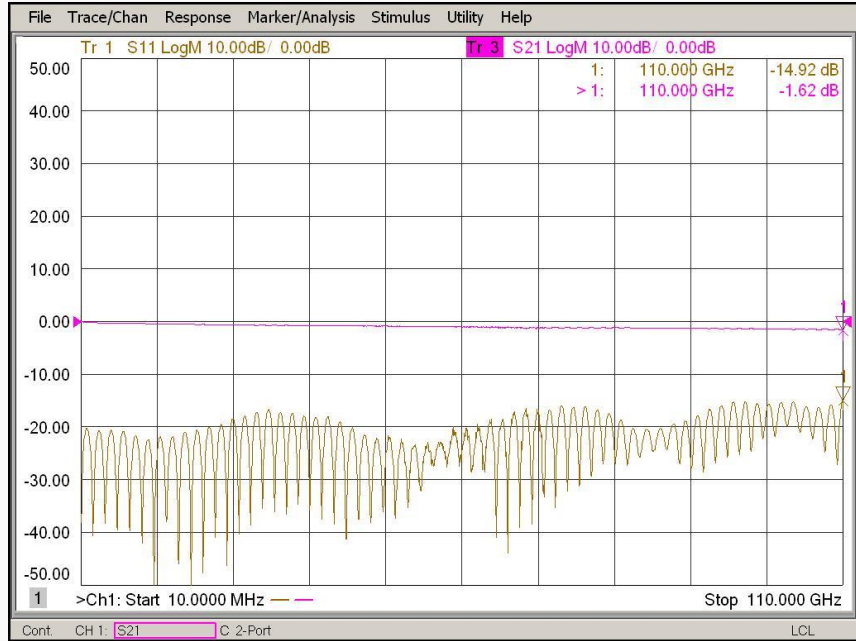
\* cable was wrapped 360 degree around Φ30 mm mandrel

**Test Result**

**MFW601 cable assembly**

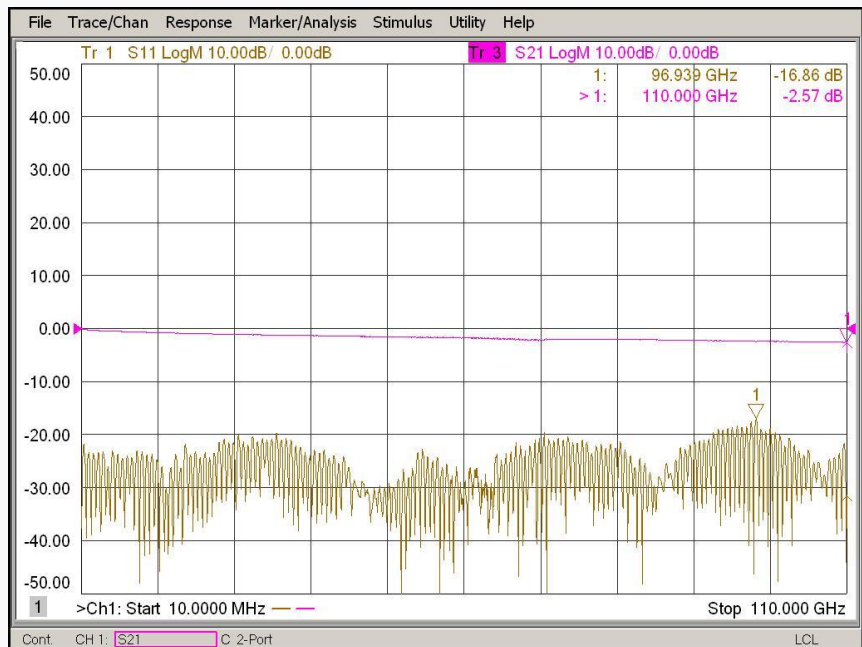
**Part No. : MFW601-WM1WM1-3inch**

- Frequency : 10 MHz to 110 GHz
- Connector : 1.0 mm (Male)
- Cable Length :3 inch



**Part No. : MFW601-WM1WM1-7inch**

- Frequency : 10 MHz to 110 GHz
- Connector : 1.0 mm (Male)
- Cable Length :7 inch

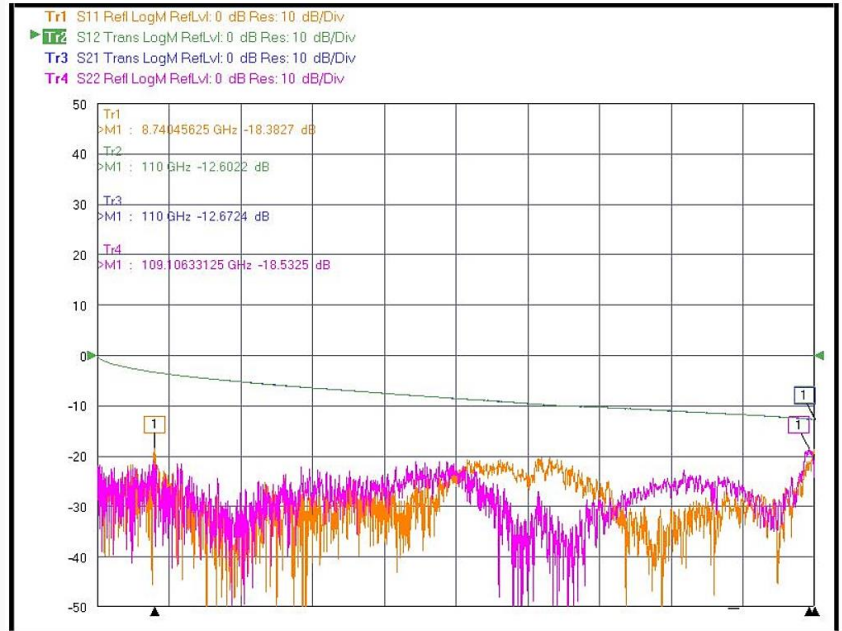


■ **Test Result**

**MFW601 cable assembly**

**Part No. : MFW601-WM1WM1-1M**

- Frequency : 10 MHz to 110 GHz
- Connector : 1.0 mm (Male)
- Cable Length : 1 Meter

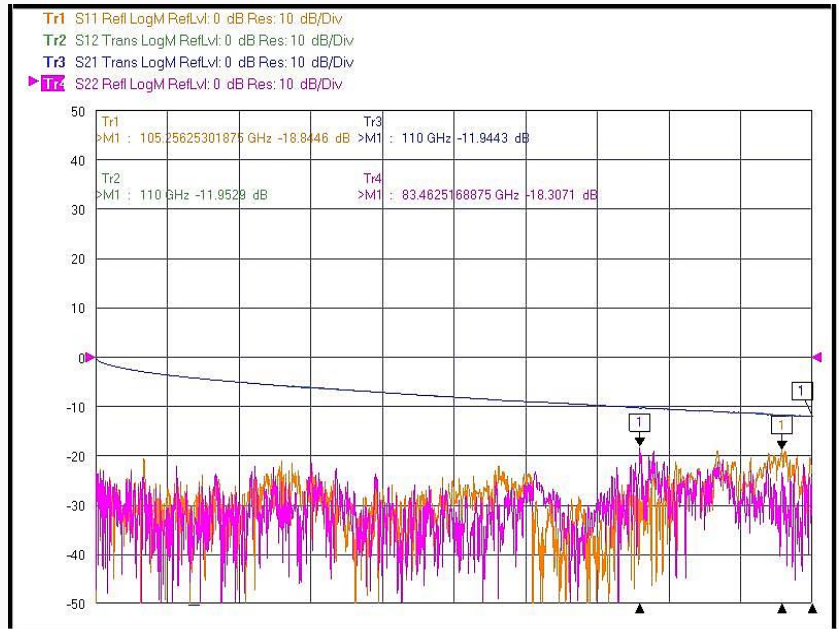


■ **Test Result**

**MFW601 cable assembly**

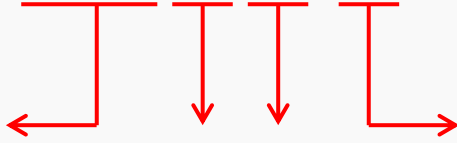
**Part No. : MFW601-WF1WF1-1M**

- Frequency : 10 MHz to 110 GHz
- Connector : 1.0 mm (Female)
- Cable Length : 1 Meter



■ Selection Guide

**MFW601- WM1WM1 - 1M**



<u>Cable Type</u>	<u>Connector Type</u>	<u>Cable Length</u>
MFW601	WM1 : 1.0 mm(Male) WF1 : 1.0 mm(Female)	Unit : Meter

**1.0 mm(Male) Connector**



**1.0 mm(Female) Connector**



**O.D: 1.81 mm**