

**W6 Series** are complete line of high performance flexible microwave cable assemblies. Specially, **W601 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	-40 ~+85 °C **

\* Cable (length : 1 meter) was wrapped 360 degree around Φ 30 mm mandrel

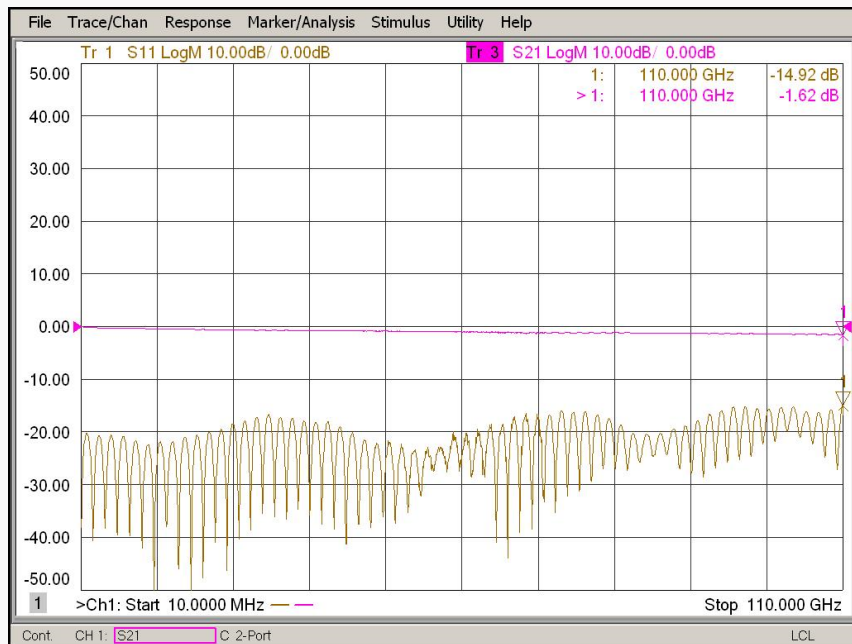
\*\* Adhesive type shrinkable tube: -40 ~+85 °C / Non-adhesive type shrinkable tube: -40 ~ + 125 °C

■ **Test Result**

**W601 cable assembly**

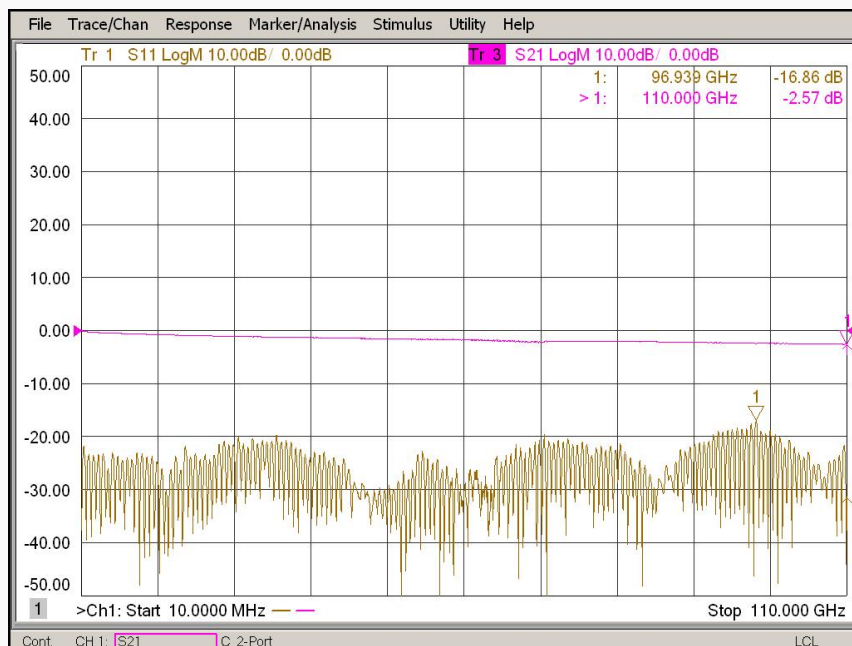
**Part No. : W601-WM1WM1-3inch**

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



**Part No. : W601-WM1WM1-7inch**

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

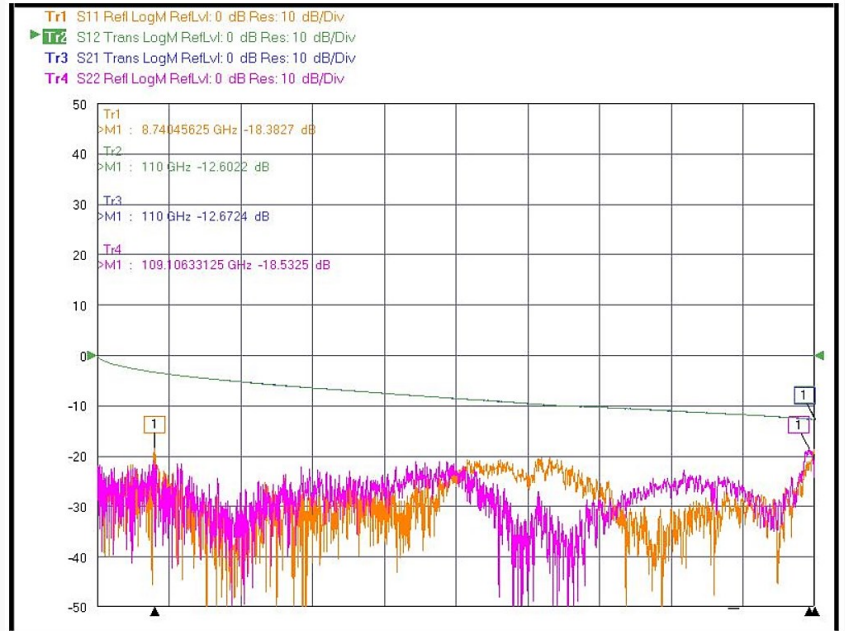


■ **Test Result**

**W601 cable assembly**

**Part No. : W601-WM1WM1-1M**

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

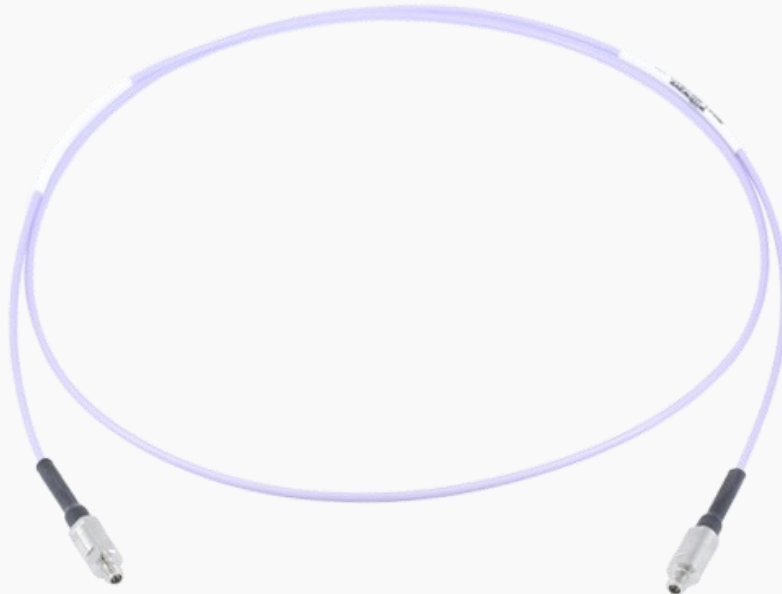
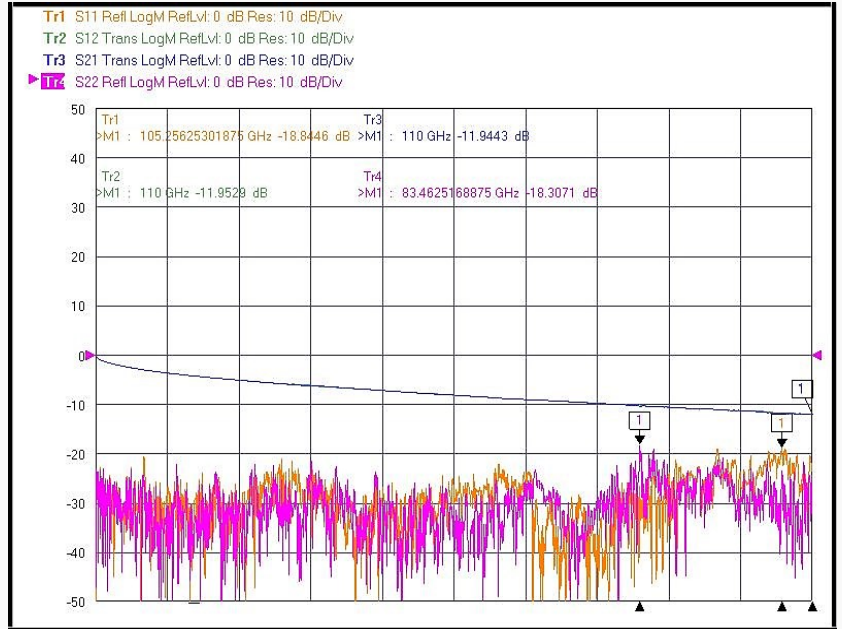


■ **Test Result**

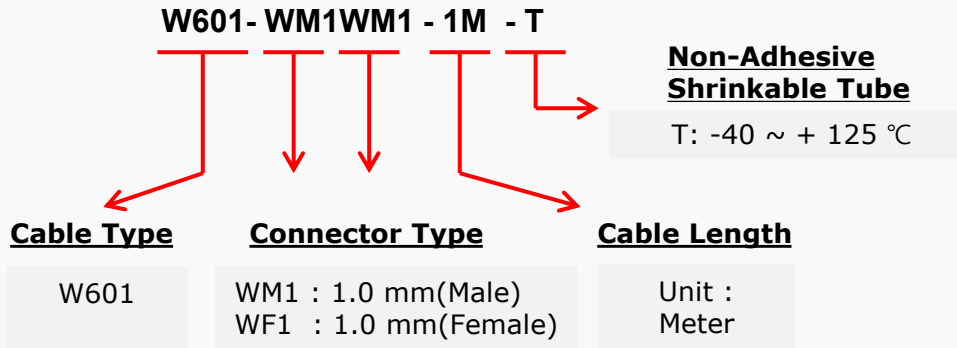
**W601 cable assembly**

**Part No. : W601-WF1WF1-1M**

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



■ **Selection Guide**



**1.0 mm(Male) Connector**



**1.0 mm(Female) Connector**



**O.D: 1.81 mm**

■ *Revision History*

<b>Revision</b>	<b>Date</b>	<b>Changes</b>
Ver 1.0	2019-11-01	Released W601 Series Cable Assembly
Ver.2.0	2020-02-10	Updated Test result
Ver 2.1	2020-05-20	Updated Cable Spec.
Ver 2.2	2020-11-24	Add Female type
Ver 2.3	2022-04-22	Updated Temperature Spec. according to tube