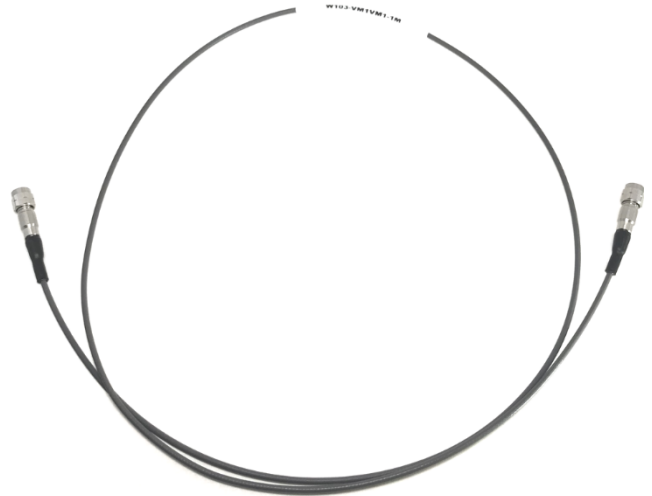


**W1 Series** are complete line of high performance flexible microwave cable assemblies.

**The W103 Series** have **Low density PTFE dielectric** structure and achieve fast velocity propagation of **81 %**. W103 Series have excellent RF performance up to 40,50 & 67 GHz with 2.92 mm, 2.4 mm & 1.85 mm connectors, respectively.

**■ Features**

- Center Conductor : Silver Plated Copper
- Dielectric core : LD PTFE
- Outer Conductor : Silver Plated Copper Ribbon
- Outer Shield : Silver Plated Copper



**■ Specification**

Scope	Specification	W103 (40,50 & 67 GHz)
Physical	Center Conductor	0.51
	Dielectric	1.38
	Outer Conductor	1.58
	Inner Tape	1.86
	Outer Shield	2.18
	Jacket	2.48
Electrical	Impedance(Ohm)	50
	Operation Freq.(GHz)	40,50 & 67 GHz
	Velocity of Propagation(%)	81
	Shielding Effectiveness(dB)	<-90
	VSWR	<1.3
	Amplitude Stability (dB) *	<± 0.05 (up to 67 GHz)
Mechanical & Environmental	Phase Stability (dB) *	<± 5.0 (up to 67 GHz)
	Weight (g/M)	17
	Bending Radius (mm)	10 (Installation) 25 (Repeated)
	Temperature (Storage)	-55 ~+165°C

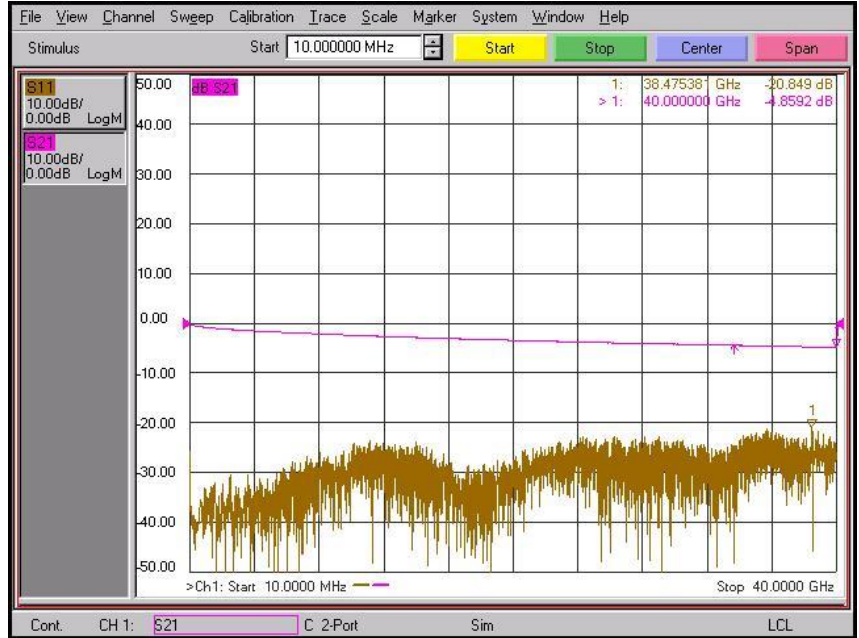
\* Cable(length : 1 meter) was wrapped 360 degree around Φ 40 mm mandrel

**Test Result**

**W103 cable Assembly**

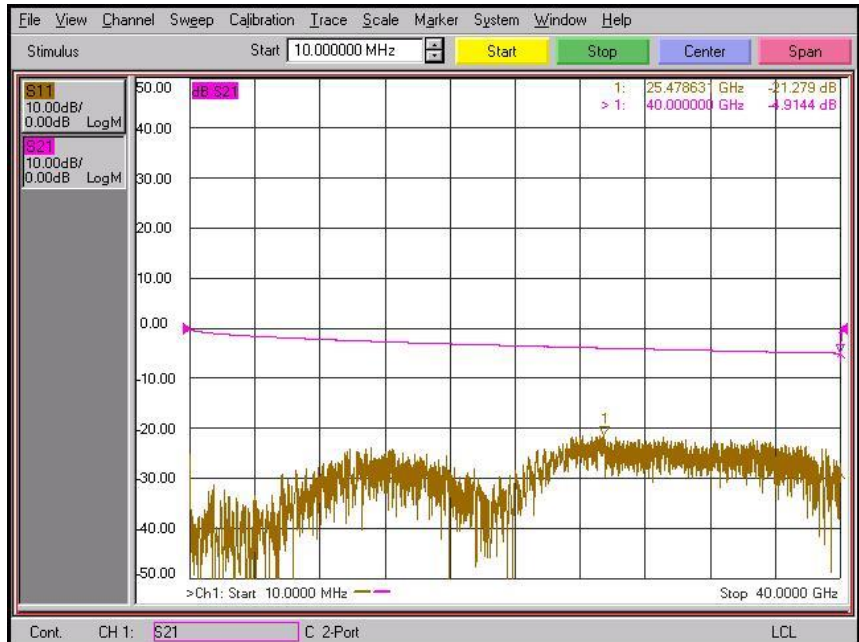
**Part No: W103-KM1KM1-1M**

- Frequency : DC to 40 GHz
- Connector : 2.92 mm(Male)
- Cable Length : 1 meter



**Part No: W103-KF1KF1-1M**

- Frequency : DC to 40 GHz
- Connector : 2.92mm (Female)
- Cable Length : 1 meter

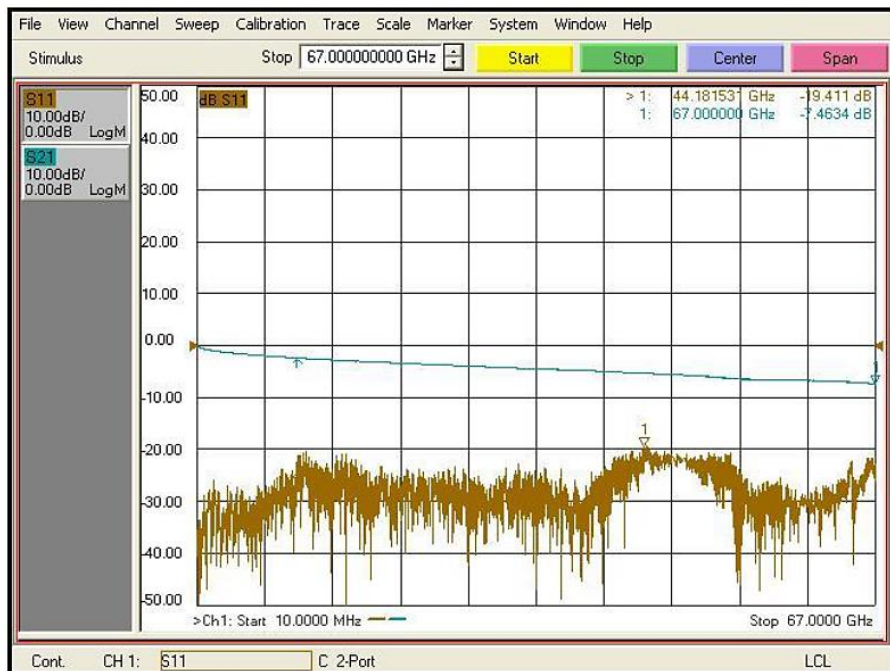


## ■ Test Result

### W103 cable Assembly

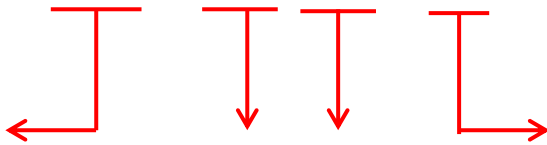
#### Part No: W103-VM1VM1-1M

- Frequency : DC to 67 GHz
- Connector : 1.85 mm (Male)
- Cable Length : 1 meter



■ **Selection Guide**

**W103 – VM1VM1 – 1M**



**Cable Type**

**Connector Type**

**Cable Length**

W103

KM1: 2.92 mm Male  
KF1 : 2.92 mm Female  
2M1: 2.4 mm Male  
2F1 : 2.4 mm Female  
VM1: 1.85 mm Male  
VF1 : 1.85 mm Female

Unit : Meter



2.92 mm(Male)



2.92 mm(Female)



1.85 mm(Male)

■ **Revision History**

<b>Revision</b>	<b>Date</b>	<b>Changes</b>
Ver 1.0	2019-08-01	Released W103 Series Cable Assembly
Ver 1.1	2019-11-01	Updated Spec,
Ver 1.2	2020-03-01	Updated Spec.
Ver 1.3	2020-06-04	Add test result for 2.92 mm type
Ver 1.4	2020-07-10	Updated Spec.