

**W2 Series** are complete line of high performance flexible microwave cable assemblies. Specially, **W251** series have flexible cable characteristics and FEP Solid structure to achieve velocity propagation of **76 %**.

**W251** series have excellent RF performance up to 40 & 50 GHz with 2.92 mm & 2.4 mm connectors, respectively.

### ■ Features

- Center Conductor : Silver Plated Copper
- Insulator : FEP Solid
- 1<sup>st</sup> Outer Conductor : Flat Wire SPC
- 2<sup>nd</sup> Outer Conductor : Cooper Foil
- Outer Shields :44 AWG Braid
- Jacket : FEP

### ■ Specification



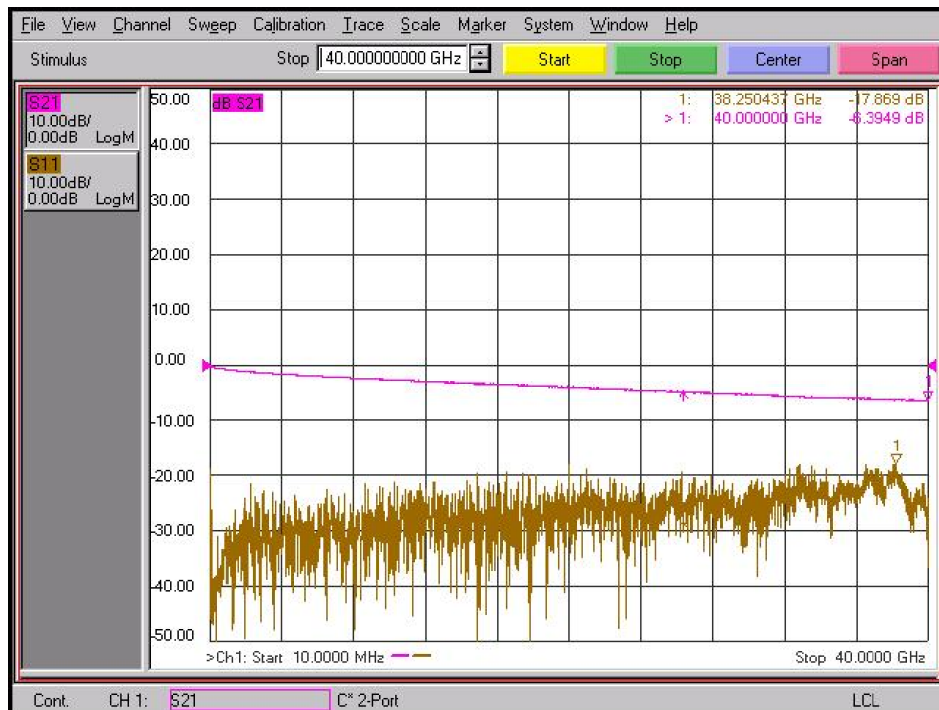
Scope	Specification	W251 (40 & 50 GHz)	
Physical	Center Conductor (mm)	0.57	
	Insulator (mm)	1.85	
	1 <sup>st</sup> Outer Conductor (mm)	2.05	
	2 <sup>nd</sup> Outer Conductor (mm)	2.10	
	Shield (mm)	2.29	
	Jacket	2.66	
Electrical	Impedance	50 ± 1 Ohm	
	Velocity of Propagation (%)	Typical 76	
	Capacitance	85 pF/m	
	VSWR (based on connector selection)	1.35 (40 & 50 GHz)	
	Attenuation at 20 °C (including connector loss)	at 6 GHz	1.8 dB/m
		at 10.0 GHz	2.4 dB/m
		at 18.0 GHz	3.4 dB/m
		at 26.5 GHz	4.3 dB /m
		at 40.0 GHz	5.6 dB /m
		at 50.0 GHz	6.5 dB /m
Mechanical & Environmental	Weight (g/M)	19	
	Temperature (Storage)	-55 ~+85°C	

## Test Result

### W251 cable assembly

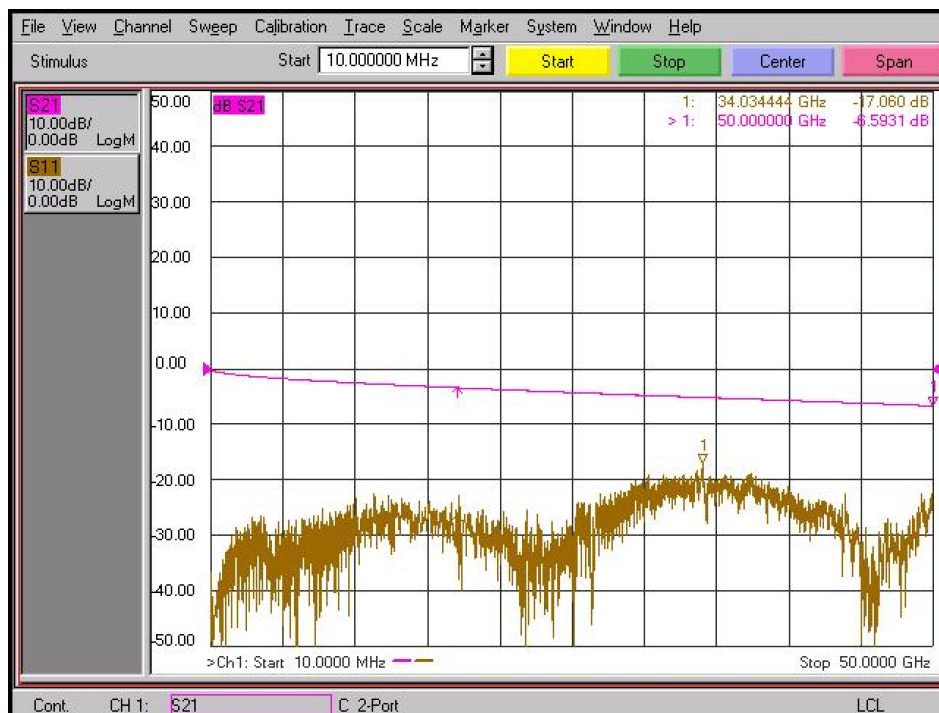
Part No. : W251-KM1KM1-1M

- Frequency : 10 MHz to 40 GHz
- Connector : 2.92 mm (Male)
- Cable Length :1 meter



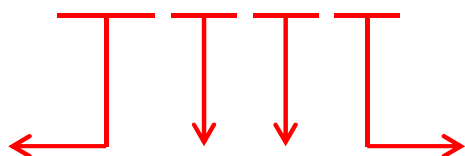
Part No. : W251-2M12M1-1M

- Frequency : 10 MHz to 50 GHz
- Connector : 2.4 mm(Male)
- Cable Length :1 meter



■ **Selection Guide**

W251- KM1KM1 - 1M



**Cable Type**

W251

**Connector Type**

KM1 : 2.92 mm Male  
KF1 : 2.92 mm Female  
2M1 : 2.4 mm Male  
2F1 : 2.4 mm Female

**Cable Length**

Unit : Meter

