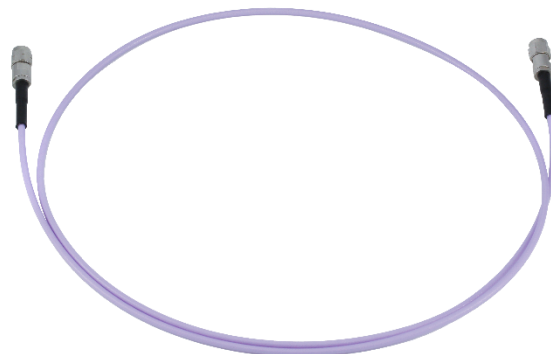


W2 Series are complete line of high performance flexible microwave cable assemblies. Specially, **W251** series have flexible cable characteristics and FEP Solid structure to achieve velocity propagation of **76 %**.

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
- 1st Outer Conductor : Flat Wire SPC
- 2nd Outer Conductor : Cooper Foil
- Outer Shields :44 AWG Braid
- Jacket : FEP



■ **Specification**

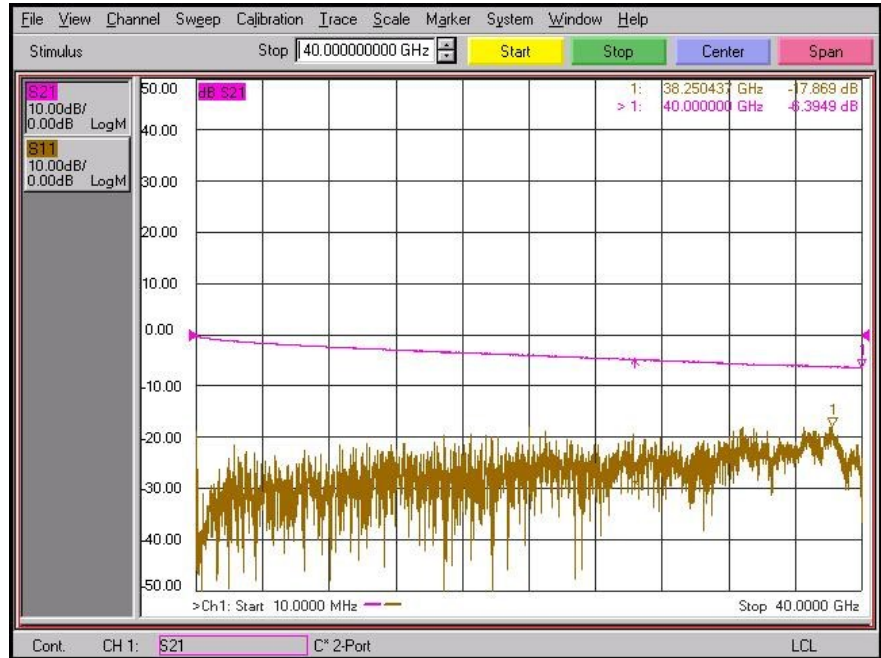
| Scope | Specification | W251 (40 & 50 GHz) | |
|----------------------------|---|--------------------|----------|
| Physical | Center Conductor (mm) | 0.57 | |
| | Insulator (mm) | 1.85 | |
| | 1 st Outer Conductor (mm) | 2.05 | |
| | 2 nd Outer Conductor (mm) | 2.10 | |
| | Shield (mm) | 2.29 | |
| | 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 | |
| | Min. Bend Radius (mm) | 6.0 | |
| | Temperature (Storage) | -65 ~+125°C | |

■ **Test Result**

W251 cable assembly

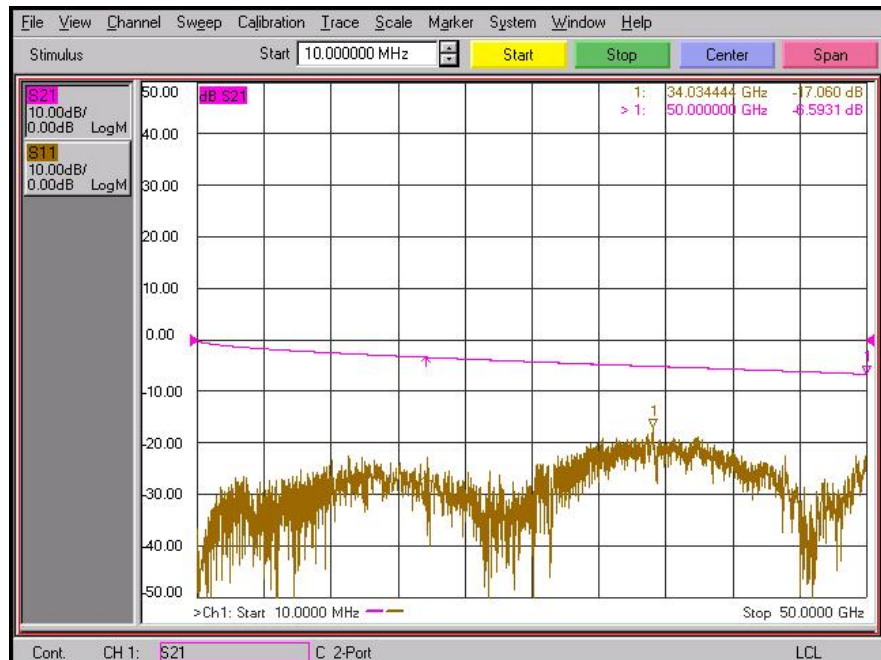
Part No. : W251-KM1KM1-1M

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



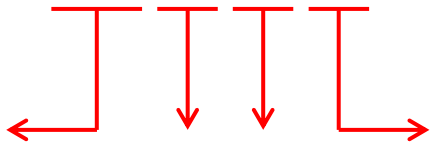
Part No. : W251-2M12M1-1M

- 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

