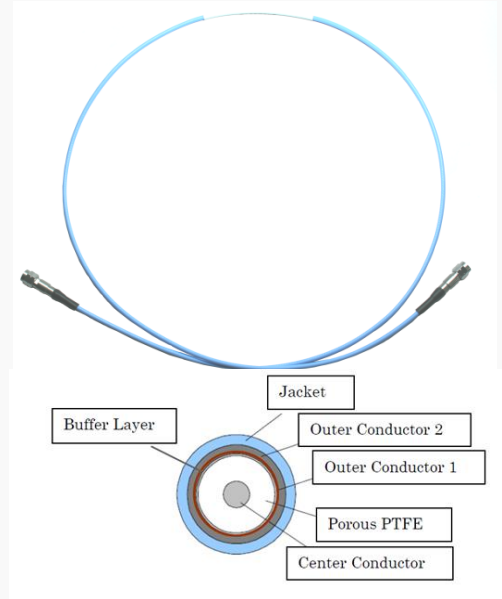


W2 Series are complete line of high performance flexible microwave cable assemblies. Specially, **W201 Series** have low density PTFE structure to achieve velocity propagation of **78 %**.

W201 series have excellent RF performance up to 50, 67 GHz with 2.4 mm & 1.85 mm connectors, respectively.

■ Features

- Center Conductor : Silver Plated Copper
- Insulator : Low Density PTFE
- Outer Conductor 1 : Silver Plated Copper Tape
- Buffer Layer : Resinous Tape
- Outer Conductor 2 : Silver Plated Copper Tape
- Jacket : FEP (Sky-Blue)



■ Specification

Scope	Specification	W201 (50,67 GHz)	
Physical	Center Conductor (mm)	0.51	
	Insulator (mm)	1.53	
	Outer Conductor 1 (mm)	1.64	
	Buffer layer	Resinous tape	
	Outer Conductor 2 (mm)	2.16	
	Jacket	2.70 ± 0.05	
Electrical	Characteristic Impedance	50 ± 1 Ohm	
	Velocity of Propagation (%)	Typical 78	
	Capacitance	85 pF/m	
	VSWR (based on connector selection)	< 1.3 to 50 GHz < 1.4 to 67 GHz	
	Attenuation at 20 °C (Typical)	at 26.5 GHz	3.5 dB/m
		at 40 GHz	4.4 dB/m
		at 50 GHz	5.0 dB/m
at 67 GHz		5.9 dB /m	
Mechanical & Environmental	Weight (g/M)	20	
	Min. bending radius	15	
	Operating Temperature	-40 ~+85 °C *	

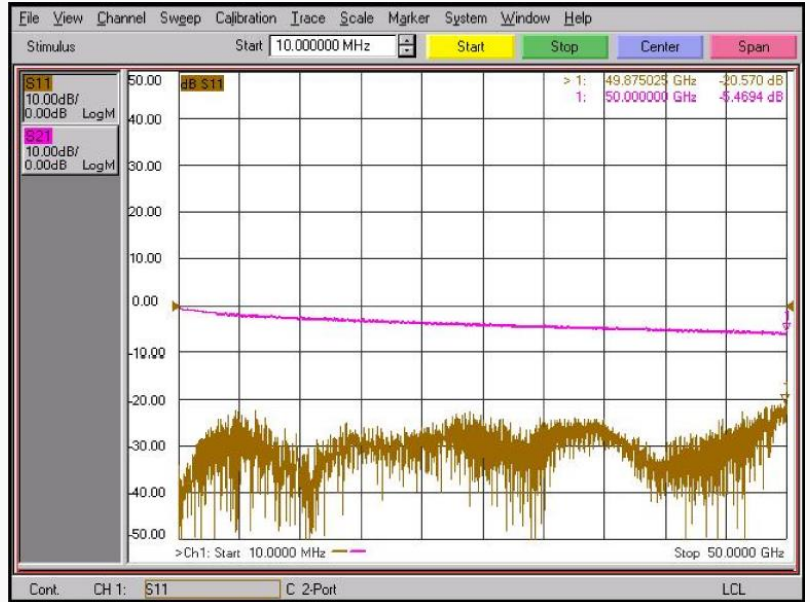
* Adhesive type shrinkable tube: - -40 ~+85 °C / Non-adhesive type shrinkable tube: - -40 ~ + 125 °C

■ **Test Result**

W201 cable assembly

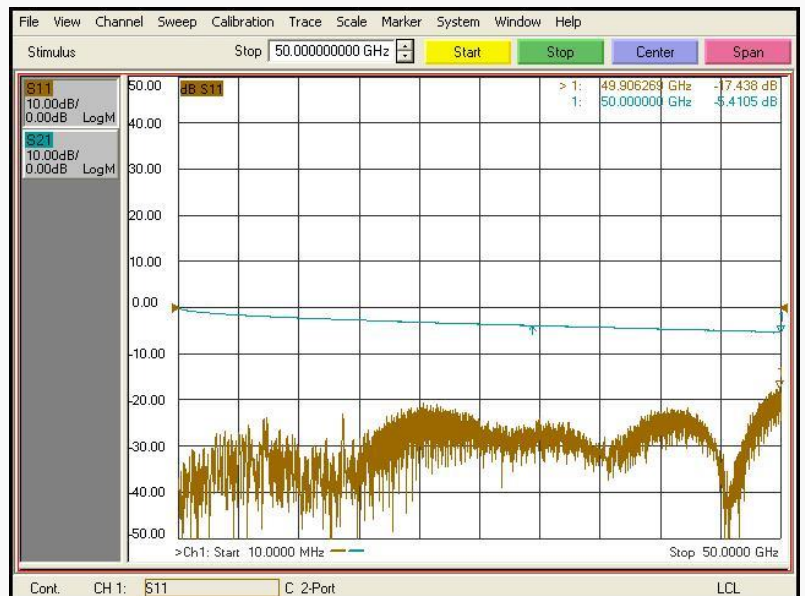
Part No. : W201-2M12M1-1M

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



Part No. : W201-2F12F1-1M

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

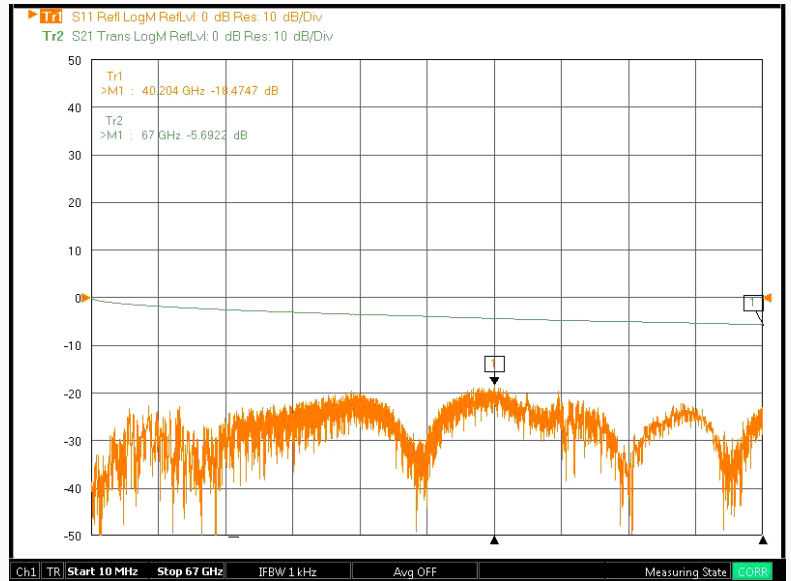


■ **Test Result**

W201 cable assembly

Part No. : W201-VM1VM1-1M

- Frequency : 10 MHz to 67 GHz
- Connector : 1.85 mm (Male)
- Cable Length : 1 meter

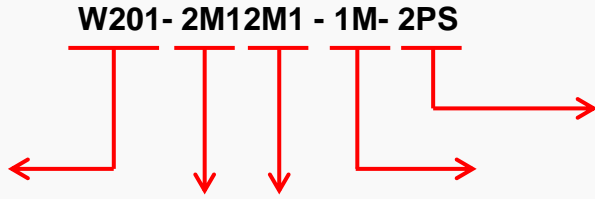


Part No. : W201-VF1VF1-1M

- Frequency : 10 MHz to 67 GHz
- Connector : 1.85 mm (Female)
- Cable Length : 1 meter



■ **Selection Guide**



Phase Matching

- 1PS: ± 1 pico-second
- 2PS: ± 2 pico-seconds
- 5PS: ± 5 pico-seconds

Cable Type

W201

Connector Type

- 2M1 : 2.4 mm Male
- 2F1 : 2.4 mm Female
- VM1 : 1.85 mm Male
- VF1 : 1.85 mm Female

Cable Length

Unit : Meter

W201(50 GHz) : 2.4 mm Connector



O.D: 2.7 mm

W201(67 GHz) : 1.85 mm Connector



O.D: 2.7 mm



■ **Revision History**

Revision	Date	Changes
Ver 1.0	2016-09-27	Released W201 Cable Assembly
Ver.1.4	2019-07-03	Add Female type
Ver 1.5	2020-04-08	Update specification
Ver 1.6	2021-06-22	Updated test result
Ver 1.7	2022-04-22	Updated Temperature spec. according to tube