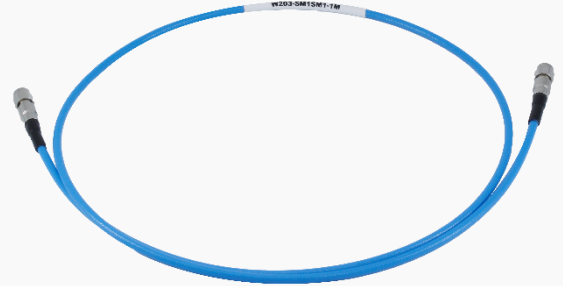


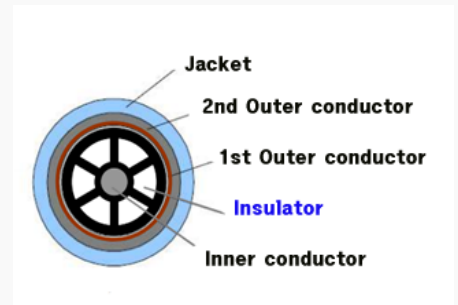
**W2 Series** are complete line of high performance flexible microwave cable assemblies. **The W202, W203 series** have porous Low density PFA structure to achieve velocity propagation of **77 %**.

They have excellent RF performance up to 40, 26.5 GHz respectively, specially **excellent phase stability** according to temperature change due to special insulator structure.



■ **Features**

- Center Conductor : Silver Plated Copper
- Insulator : LD PFA
- Outer Conductor 1 : Silver Plated Copper Tape
- Buffer Layer : Resinous Tape
- Outer Conductor 2 : Tin-Plated Copper Tape
- Jacket : FEP

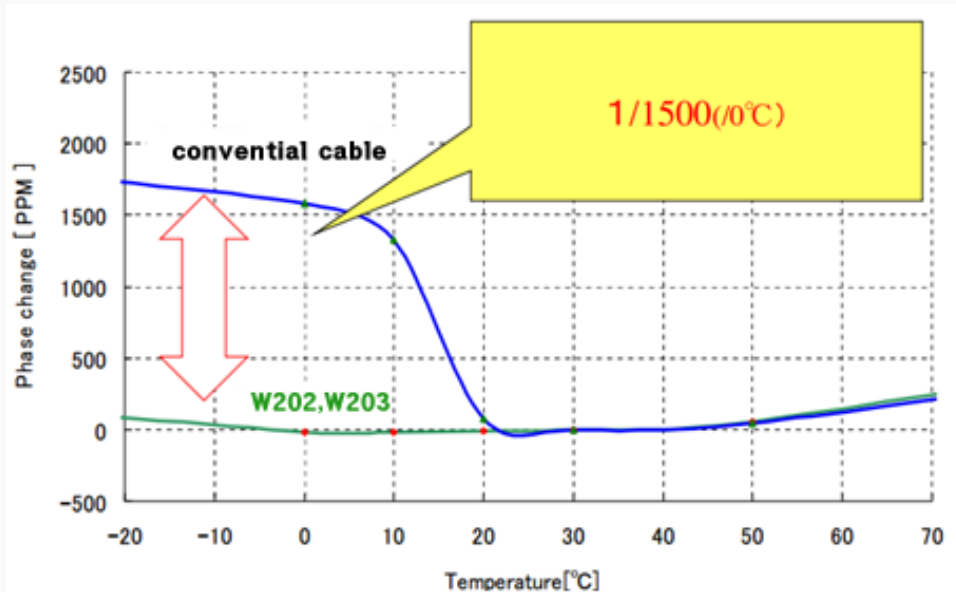


■ **Specification**

Scope	Specification	W202 (40 GHz)	W203 (26.5 GHz)	
Physical	Center Conductor (mm)	0.57	0.93	
	Insulator (mm)	1.64	2.65	
	Outer Conductor (mm)	2.20	3.30	
	Jacket (mm)	2.75	3.80	
Electrical	Impedance(Ohm)	50 ± 1	50 ± 1	
	Operation Freq.(GHz)	40.0	26.5	
	Velocity of Propagation (%)	77	77	
	Capacitance (Typical)	86 pF/m	86 pF/m	
	VSWR (Max)	<1.3		
	Attenuation at 20 °C (Typical)	at 5 GHz	1.5 dB/m	0.9 dB/m
		at 10 GHz	2.2 dB/m	1.3 dB/m
		at 18 GHz	3.0 dB/m	2.0 dB/m
at 20.0 GHz		3.2 dB /m	2.1 dB /m	
at 30.0 GHz		4.2dB/m	2.0 dB/m(@26.5 GHz)	
Mechanical & Environmental	Weight (g/M)	20	30	
	Min. bending radius	15	22	
	Temperature (Storage)	-40 ~+85 °C *	-40 ~+85 °C *	

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

■ **Phase Change vs Temperature**



■ **Comparison table (W202 ,203 vs RG 402,405)**

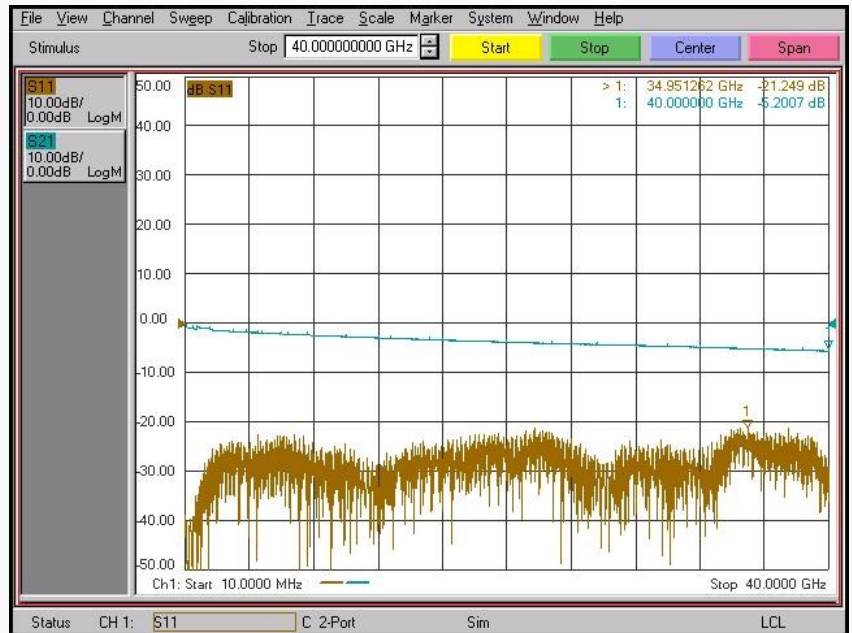
	<b>W202 &amp;203</b>	<b>RG402 &amp; 405 Equivalent</b>
Attenuation	<b>O</b>	<b>O</b>
VSWR(S11)	<b>O</b>	<b>O</b>
Vibration resistance	<b>O</b>	<b>X</b> Instability and deterioration of attenuation
Phase(bending)	<b>O</b> Phase change 1 deg or over	<b>△</b> Phase change 1 deg or over
Phase stability vs Temperature	<b>O</b>	<b>X</b> Greater fluctuation

■ **Test Result**

**W202 cable assembly**

**Part No. : W202-KM1KM1-1M**

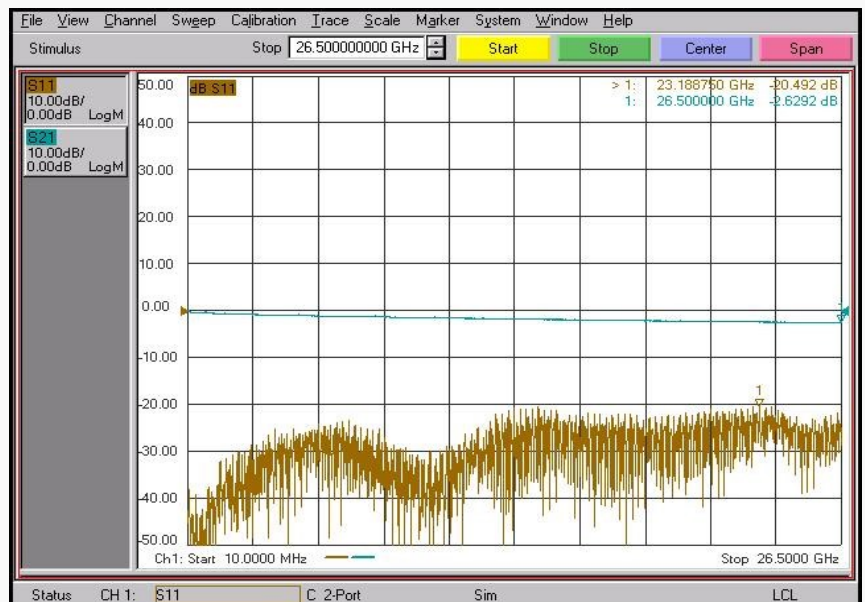
- Frequency : 10 MHz to 40 GHz
- Connector : 2.92 mm (Male)
- Cable Length :1 meter



**W203 cable assembly**

**Part No. : W203-SM1SM1-1M**

- Frequency : 10 MHz to 26.5 GHz
- Connector : SMA (Male)
- Cable Length :1 meter



■ **Selection Guide**

**W203- SM1SM1 - 1M - T**

**Non-Adhesive  
Shrinkable Tube**

T: -40 ~ + 125 °C

**Cable Type**

**Connector Type**

**Cable Length**

W202  
W203

SM1 : SMA Male  
KM1 : 2.92 mm Male

Unit : Meter



**W202 (40 GHz)**

O.D : 2.20 mm



**W203 (26.5 GHz)**

O.D : 3.30 mm

