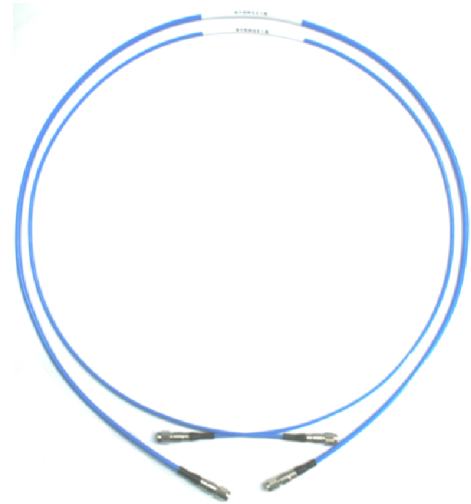


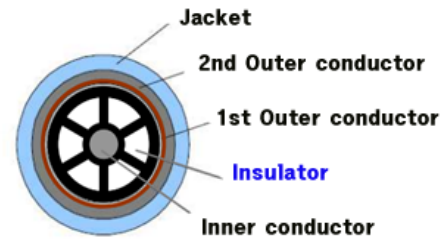
Microwave Farm's MFW2 Series are complete line of high performance flexible microwave cable assemblies. The W2 series have porous Low density PFA(W202, 203) & LD-PTFE(W205) structure to achieve velocity propagation of 77 %.

MFW202, MFW203 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

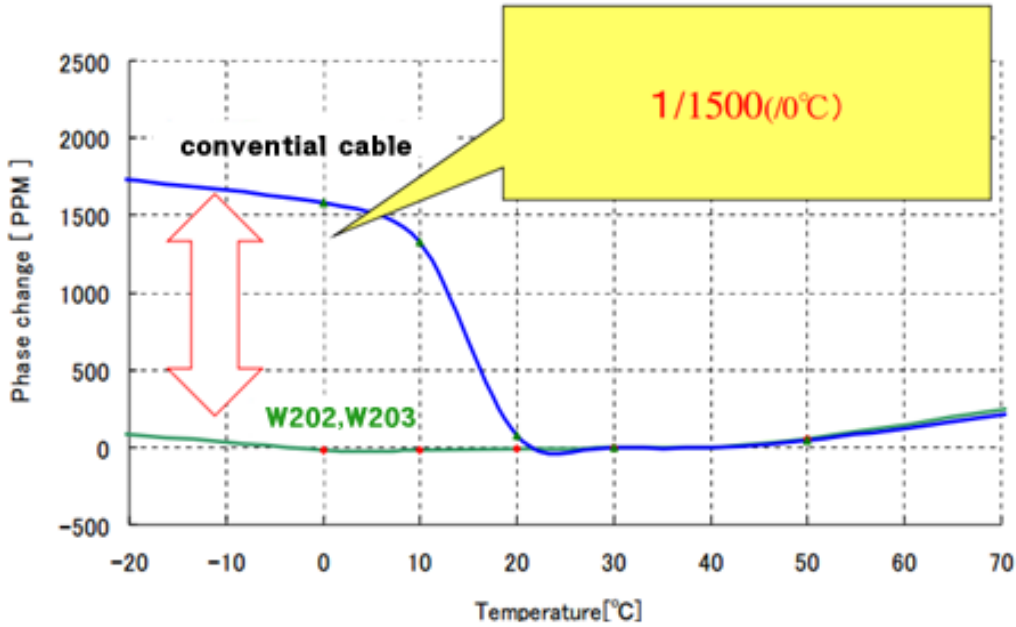
- Center Conductor : Silver Plated Copper
- Insulator : LD PFA
- Outer Conductor 1 : Silver Plated Copper Tape
- Buffer Layer : Resinous Tape
- Outer Conductor 2 : Tin-Plated Copper Tape
- Jacket : FEP



Specification

Scope	Specification	MFW202 (40 GHz)	MFW203 (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	
	Impedance(Ohm)	50 ± 1	50 ± 1	
Electrical	Operation Freq.(GHz)	40.0	26.5	
	Velocity of Propagation (%)	77	77	
	Capacitance (Typical)	86 pF/m	86 pF/m	
	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)	
Mechanica l & Environmental	Weight (g/M)	20	30	
	Min. bending radius	15	22	
	Temperature (Storage)	-40 ~+125°C	-40 ~+125°C	

■ Phase Change vs Temperature



■ Comparison table (MFW202 ,203 vs RG 402,405)

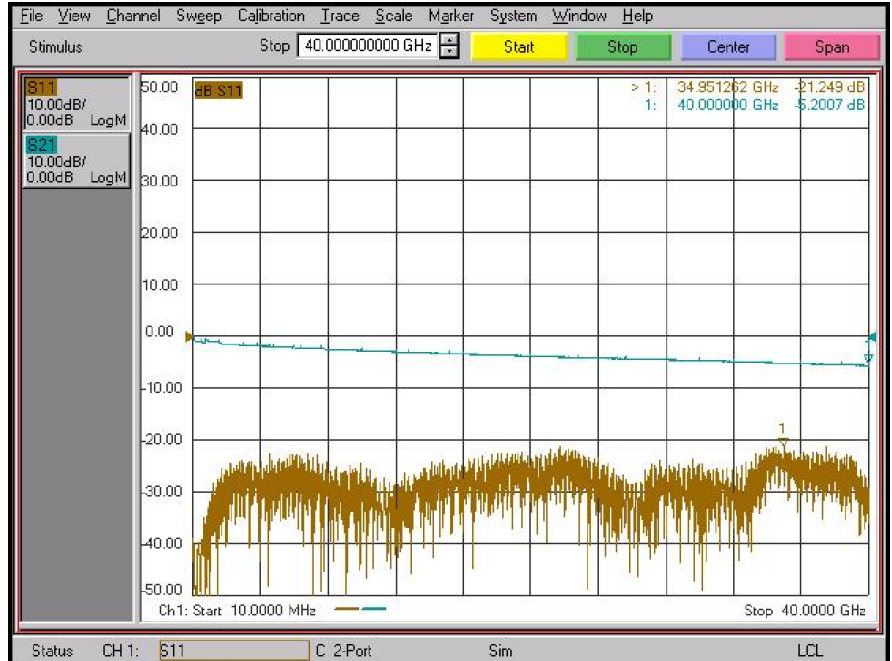
	MFW202 & 203	RG402 & 405 Equivalent
Attenuation	O	O
VSWR(S11)	O	O
Vibration resistance	O	X Instability and deterioration of attenuation
Phase(bending)	O Phase change 1 deg or over	△ Phase change 1 deg or over
Phase stability vs Temperature	O	X Greater fluctuation

■ **Test Result**

MFW202 cable assembly

Part No. : MFW202-KM1KM1-1M

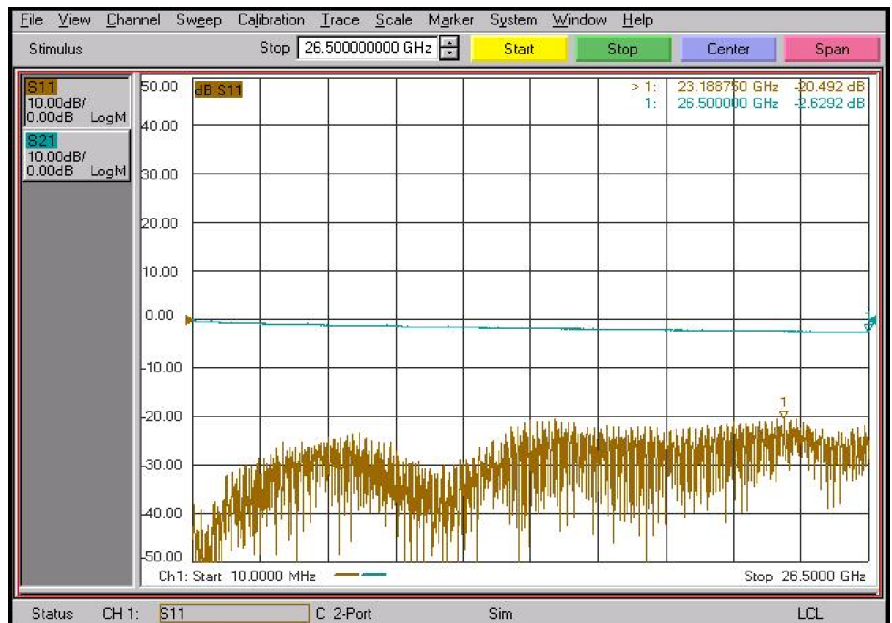
- Frequency : 10 MHz to 40 GHz
- Connector : 2.92 mm (Male)
- Cable Length :1 meter



MFW203 cable assembly

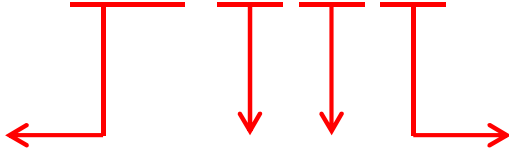
Part No. : MFW203-SM1SM1-1M

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



■ Selection Guide

MFW203 SM1SM1 - 1M



Cable Type

MFW202
MFW203

Connector Type

SM1 : SMA Male
KM1 : 2.92 mm Male

Cable Length

Unit : Meter



MFW202 (40 GHz)

O.D : 2.2 mm



MFW203 (26.5 GHz)

O.D : 3.3 mm

