

## Microwave Cable Assemblies



# WT Series

**W-Test Cable Assemblies** are complete line of high precision flexible microwave cable assemblies, specially for stable phase testing.

These WT series are designed by excellent microwave interconnection technologies and have good phase and amplitude stability.

**The 26.5, 40, 50, 67, 110, & 145 GHz** cable assemblies are claimed to have excellent insertion loss, high phase amplitude stability in relation to temperature.



## Cable Specification

Max.Freq	Cable Type	Max.Insertion Loss [dB/m] * Including connectors	Max. VSWR	Cable O.D (mm)	Bending Radius(mm) * Static	Temperature
18 GHz	WT100	2.1	1.3	6.4	20 mm	-40~+85°C
26.5 GHz	WT100	2.6	1.3			
40 GHz	WT100	3.5	1.3			
	WT400	3	1.3			
50 GHz	WT200	4	1.3			
	WT500	5.5	1.3			
67 GHz	WT300	6.4	1.4			
	WT670	6.4	1.4			
110 GHz	WT110	14.5	1.4			
145 GHz	WT145					

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

## Available Connector Type

Max. Freq	Cable Type	Connector							
		18 GHz	26.5 GHz	35 GHz	40 GHz	50 GHz	67 GHz	110 GHz	145 GHz
		N-type	SMA	3.5 mm	2.92 mm	2.4 mm	1.85 mm	1.0 mm	0.8 mm
40 GHz	WT100	●	●	●	●				
	WT400				●				
50 GHz	WT200					●			
	WT500					●			
67 GHz	WT300						●		
	WT670						●		
110 GHz	WT110							●	
145 GHz	WT145								●
Part Number (Connector)	Male Type	NM1	SM1	3M1	KM1	2M1	VM1	WM1	DM1
	Female Type	NF1	SF1	3F1	KF1	2F1	VF1	WF1	DF1

## Selection Guide

ex)

Part No. : **WT100-KM1KF1-1M-T**

①    ②    ③    ④    ⑤



①	Cable Type	WT100
②	Connector type 1	2.92 mm(Male)
③	Connector type 2	2.92 mm(Female)
④	Cable length	1 meter
⑤	Shrink Tube type	Non-Adhesive (Temp: -40 to 125)

Scan the QR code  
WT110



Scan the QR code  
WT100,200,300



Scan the QR code  
WT400,500,670



# W1 Series

**W1 Series** are complete line of high performance flexible microwave cable assemblies.

The W1 have extruded **Low density PTFE** dielectric structure to allow low dielectric constant as close as air up to 1.3 and achieve fast velocity propagation of **83 %**.

W1 Series have the lowest insertion loss available to **18, 26.5, 35 & 40 GHz**

These low loss cable assemblies are extremely versatile, moderately priced and fit a variety of applications.



## Cable Specification

Max.Freq	Cable Type	Max.Insertion Loss [dB/m] * Including connectors	Max. VSWR	Cable O.D (mm)	Bending Radius(mm) * Static	Temperature
18 GHz	W102	0.75 (SMA Type) 0.82 (N-type)	1.3	7.8	39	-40~+85°C
26.5 GHz	W101	1.4	1.3	5.1	25.5	
40 GHz	W100	3	1.3	3.6	18	
67 GHz	W103	6.4	1.4	2.48	10	

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

## Available Connector Type

Max. Freq	Cable Type	Connector					
		18 GHz	26.5 GHz	35 GHz	40 GHz	50 GHz	67 GHz
		N-type	SMA	3.5 mm	2.92 mm	2.4 mm	1.85 mm
18 GHz	W102	●	●				
26.5 GHz	W101	●	●				
40 GHz	W100		●	●	●		
67 GHz	W103				●	●	●
Part Number (Connector)	Male Type	NM1	SM1	3M1	KM1	2M1	VM1
	Female Type	NF1	SF1	3F1	KF1	2F1	VF1

## Selection Guide

ex)

Part No. : **W100-KM1KF1-1M-T**

①    ②    ③    ④    ⑤



①	Cable Type	W100
②	Connector type 1	2.92 mm(Male)
③	Connector type 2	2.92 mm(Female)
④	Cable length	1 meter
⑤	Shrink Tube type	Non-Adhesive (Temp: -40 to 125)

Scan the QR code  
W1 Series



# W2 Series

W2 Series are complete line of high performance flexible microwave cable assemblies.

They have excellent RF performance up to **26.5, 40, 50 & 67 GHz** respectively, specially excellent phase stability according to temperature change due to special insulator structure.



## Cable Specification

Max.Freq	Cable Type	Max.Insertion Loss [dB/m] * Including connectors	Max. VSWR	Cable O.D (mm)	Bending Radius(mm) * Static	Temperature
26.5 GHz	W203	1	1.3	3.8	22	-40~+85°C
40 GHz	W202	5.2	1.3	2.75	15	
50 GHz	W204	3.8	1.3	3.6	18	
67 GHz	W201	6.4	1.4	2.7	15	
	W205	6.5	1.3	2.4	12	

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

## Available Connector Type

Max. Freq	Cable Type	Connector					
		18 GHz	26.5 GHz	35 GHz	40 GHz	50 GHz	67 GHz
		N-type	SMA	3.5 mm	2.92 mm	2.4 mm	1.85 mm
26.5 GHz	W203		●				
40 GHz	W202				●		
50 GHz	W204	●	●	●	●	●	
67 GHz	W201				●	●	●
	W205				●	●	●
Part Number (Connector)	Male Type	NM1	SM1	3M1	KM1	2M1	VM1
	Female Type	NF1	SF1	3F1	KF1	2F1	VF1

## Selection Guide

ex)

Part No. : **W205-VM1VF1-1M-T**

①    ②    ③    ④    ⑤



①	Cable Type	W205
②	Connector type 1	1.85 mm(Male)
③	Connector type 2	1.85 mm(Female)
④	Cable length	1 meter
⑤	Shrink Tube type	Non-Adhesive (Temp: -40 to 125)

Scan the QR code  
W201



Scan the QR code  
W202,203



Scan the QR code  
W204



Scan the QR code  
W205



# W3 Series

**W3 Series** are flexible test cable assembly and velocity propagation is **73 %**. They have low insertion & Return loss performance up to **26.5 GHz**. They also have **good Phase and Amplitude stability** up to 26.5 GHz.



## Cable Specification

Max.Freq	Cable Type	Max.Insertion Loss [dB/m] * Including connectors	Max. VSWR	Cable O.D (mm)	Bending Radius(mm) * Static	Temperature
26.5 GHz	W300	3.1	1.3	4.95	20	-40~+85°C

## Available Connector Type

Max. Freq	Cable Type	Connector				
		18 GHz N-type	26.5 GHz SMA	35 GHz 3.5 mm	40 GHz 2.92 mm	50 GHz 2.4 mm
26.5 GHz	W300	●	●	●		
Part Number (Connector)	Male Type	NM1	SM1	3M1	KM1	2M1
	Female Type	NF1	SF1	3F1	KF1	2F1

## Selection Guide

ex)

Part No. : **W300-SM1SM1-1M**



①	Cable Type	W300
②	Connector type 1	SMA(Male)
③	Connector type 2	SMA(Male)
④	Cable length	1 meter

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W3 Series



# W4 Series

**W4 Series** are low cost flexible RF cable assemblies for commercial market. Velocity propagation of cable is **70 %** and They have good insertion & return loss up to **3, 6, 20 GHz** according to various types of connectors such as SMA, N-type and BNC, respectively.



## Cable Specification

Max.Freq	Cable Type	Max.Insertion Loss [dB/m] * Including connectors	Max. VSWR	Cable O.D (mm)	Bending Radius(mm) * Static	Temperature
6 GHz	W400	3.6	1.3	2.75		-50~+125°C
	W401	1.1	1.3	4.01		
20 GHz	W400(20G)	3.6	1.3	2.75		

## Available Connector Type

Max. Freq	Cable Type	Connector				
		3 GHz BNC	6 GHz N-type	6 GHz N-type(Right Angle)	20 GHz SMA	20 GHz SMA
6 GHz	W400		●		●	
	W401	●	●	●	●	
20 GHz	W400(20G)					●
Part Number (Connector)	Male Type	BM1	NM1	NMR1	SM1	SM2
	Female Type		NF1		SF1, SF2(Bulkhead)	SF2

## Selection Guide

ex)

Part No. : **W400-SM1SM1-1M**



①	Cable Type	W400
②	Connector type 1	SMA(Male)
③	Connector type 2	SMA(Male)
④	Cable length	1 meter

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W4 Series



# W5 Series

**W5 Series** are complete line of high performance flexible microwave cable assemblies.

Specially, **W503** series have low loss **flexible** cable due to **stranded center conductor structure** and low density PTFE structure to achieve velocity propagation of **81 %**.

**W503** series have excellent RF performance up to 18 GHz with N-type Connectors & 26.5 GHz with SMA connectors, respectively.



## Cable Specification

Max.Freq	Cable Type	Max.Insertion Loss [dB/m] * Including connectors	Max. VSWR	Cable O.D (mm)	Bending Radius(mm) * Static	Temperature
26.5 GHz	W503	2.6	1.3	5.9	25	-55~+85°C

## Available Connector Type

Max. Freq	Cable Type	Connector				
		18 GHz N-type	26.5 GHz SMA	35 GHz 3.5 mm	40 GHz 2.92 mm	50 GHz 2.4 mm
26.5 GHz	W503	●	●			
Part Number (Connector)	Male Type	NM1	SM1	3M1	KM1	2M1
	Female Type	NF1	SF1	3F1	KF1	2F1

## Selection Guide

ex)

Part No. : **W503-SM1SF1-1M**

① ② ③ ④

①	Cable Type	W503
②	Connector type 1	SMA(Male)
③	Connector type 2	SMA(Female)
④	Cable length	1 meter

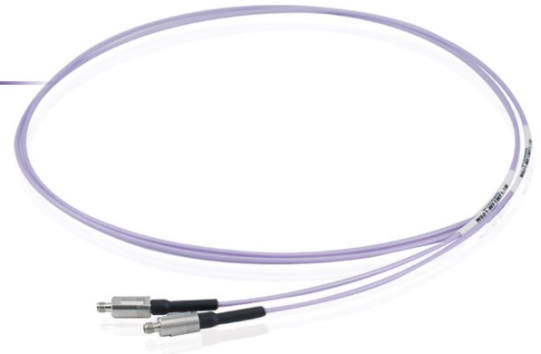
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W5 Series



# W6 Series

**W6 Series** are complete line of high performance flexible microwave cable assemblies. Specially, W601 Series have low density PTFE structure to achieve velocity propagation of 80 %.

These series have excellent RF performance up to **110 GHz with 1.0 mm Connectors.**



## Cable Specification

Max.Freq	Cable Type	Max.Insertion Loss [dB/m] * Including connectors	Max. VSWR	Cable O.D (mm)	Bending Radius(mm) * Static	Temperature
110 GHz	W601	12.6	1.4	1.81	7.0	-40~+85°C
145 GHz	W602		1.5	1.3	7	-40~+85°C

## Available Connector Type

Max. Freq	Cable Type	Connector							
		18 GHz	26.5 GHz	35 GHz	40 GHz	50 GHz	67 GHz	110 GHz	145 GHz
		N-type	SMA	3.5 mm	2.92 mm	2.4 mm	1.85 mm	1.0 mm	0.8 mm
110 GHz	W601							●	
145 GHz	W602								●
Part Number (Connector)	Male Type	NM1	SM1	3M1	KM1	2M1	VM1	VM1	DM1
	Female Type	NF1	SF1	3F1	KF1	2F1	VF1	VF1	DF1

## Selection Guide

ex)

Part No. : **W601-WM1WM1-1M-T**

①    ②    ③    ④    ⑤



①	Cable Type	W601
②	Connector type 1	1.0 mm (Male)
③	Connector type 2	1.0 mm (Male)
④	Cable length	1 meter
⑤	Shrink Tube type	Non-Adhesive (Temp: -40 to 125)

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W6 Series



# W7 Series



**W7 Series** are complete line of high performance flexible microwave cable assemblies.

Specially, **Flexible Armored W701 Series** have low density PTFE structure to achieve velocity propagation of 76 % and good phase and amplitude stability performance.

They have excellent RF performance up to 26.5, 40 GHz with SMA, 2.92 mm connectors, respectively.

## Cable Specification

Max.Freq	Cable Type	Max.Insertion Loss [dB/m] * Including connectors	Max. VSWR	Cable O.D (mm)	Bending Radius(mm) * Static	Temperature
40 GHz	W701	4.3	1.3	3.6	18.0	-40~+85°C

## Available Connector Type

Max. Freq	Cable Type	Connector				
		18 GHz N-type	26.5 GHz SMA	35 GHz 3.5 mm	40 GHz 2.92 mm	50 GHz 2.4 mm
26.5 GHz	W701		●		●	
Part Number (Connector)	Male Type	NM1	SM1	3M1	KM1	2M1
	Female Type	NF1	SF1	3F1	KF1	2F1

## Selection Guide

Part No. : **W701-SM1KM1-1M-T**

①      ②      ③      ④      ⑤



①	Cable Type	W701
②	Connector type 1	SMA(Male)
③	Connector type 2	2.92 mm (Male)
④	Cable length	1 meter
⑤	Shrink Tube type	Non-Adhesive (Temp: -40 to 125)

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W7 Series



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