

W-Test Cable AssembliesTM 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 **40, 50 & 67 GHz** cable assemblies are claimed to have excellent insertion loss, high phase/amplitude stability in relation to temperature.



■ Features



1. Center Conductor : Silver Plated Copper
2. Dielectric core : LD PTFE
3. Outer Conductor : Silver Plated Copper Ribbon
4. Stable Layer : PTFE
5. Inner Braiding : SPC
6. Jacket : FEP
7. Crush Protection Layer
8. Braiding
9. PTFE Stable Gum.
10. Braided Outer Jacket

■ Specification

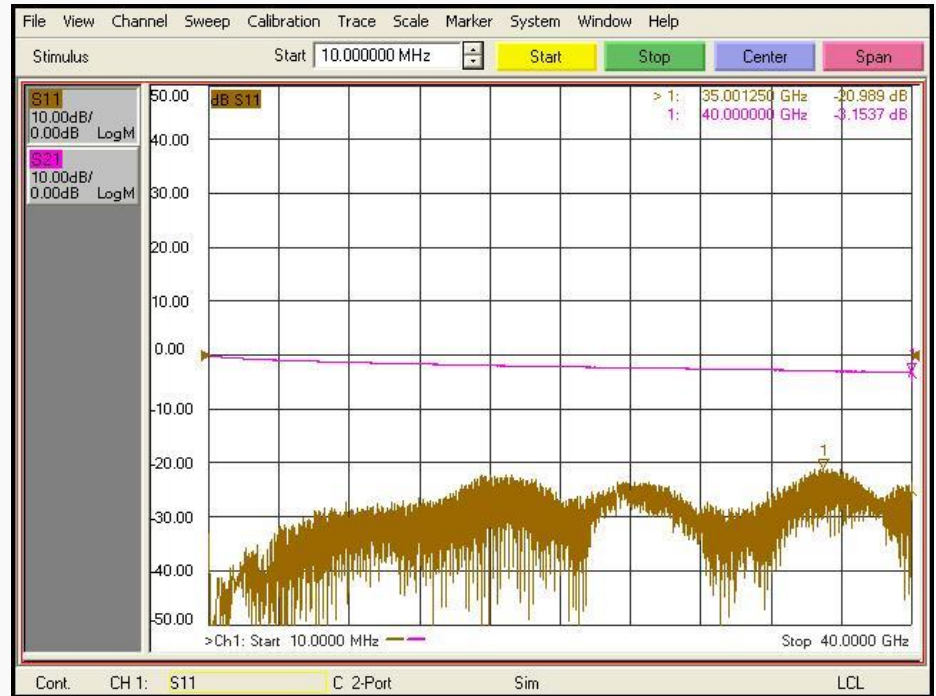
Scope	Specification	WT100	WT200	WT300
Electrical	Impedance(Ohm)		50	
	Operation Freq.(GHz)	40	50	67
	VSWR(Max)	1.3	1.3	1.3
	Amplitude stability (dB)*	<+/- 0.03	<+/- 0.05	<+/- 0.1
	Phase stability (degree)*	<+/- 3.0	<+/- 5.0	<+/- 5.0
	Attenuation (dB/M)	2.9 @ 40 GHz	3.6 @ 50 GHz	6.9 @ 67 GHz
	Velocity of propagation(%)		76	
Physical	Bending radius(Min)		20 mm	
	Connector	2.92 mm	2.4 mm	1.85 mm
	Cable Diameter(mm)		6.4	
Environmental	Operating Temperature (degree)		- 55 to +85	

* Cable (length : 1 meter) was wrapped 360 degree around Φ 40 mm mandrel

■ Test Result

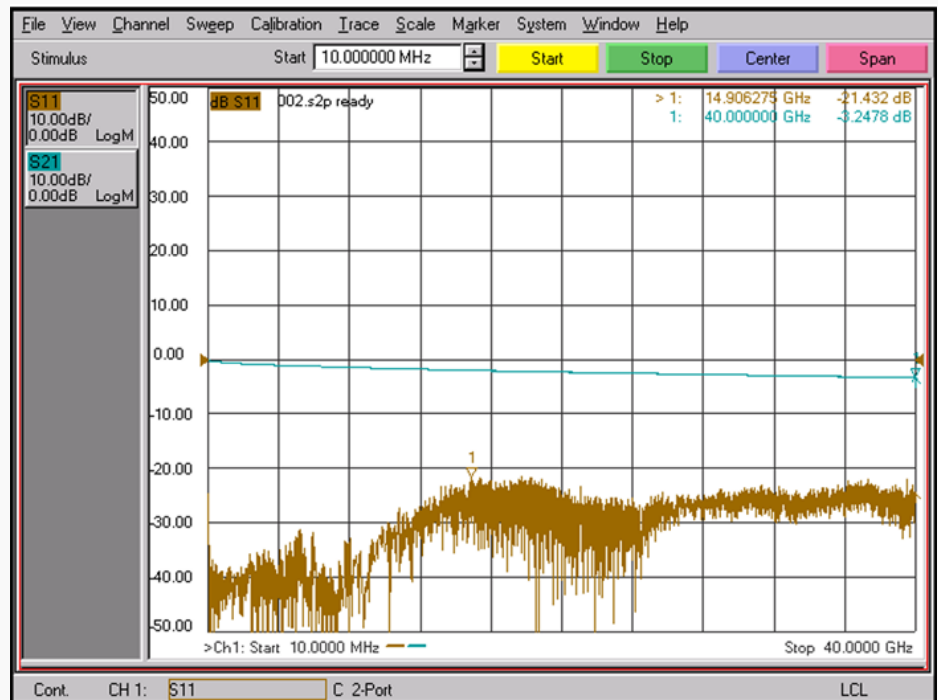
Part No. : WT100-KM1KM1-1M

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



Part No. : WT100-KF1KF1-1M

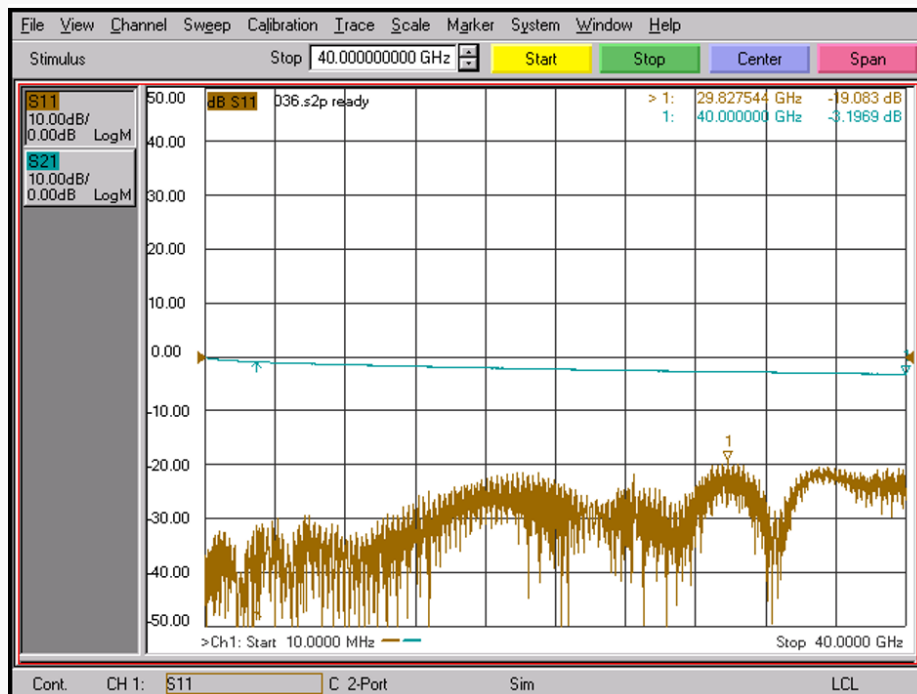
- Frequency : DC to 40 GHz
- Connector : 2.92 mm (Female)
- Cable Length : 1 meter



Test Result

Part No. : WT100-2M1KM1-1M

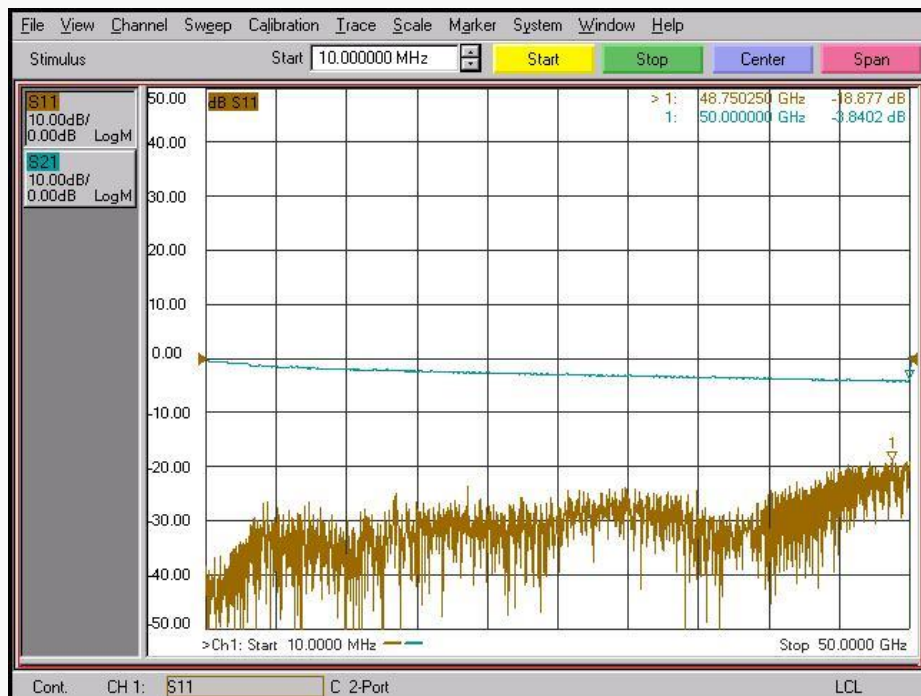
- Frequency : DC to 40 GHz
- Connector : 2.4 mm (Male),
2.92 mm (Male)
- Cable Length : 1 meter



Test Result

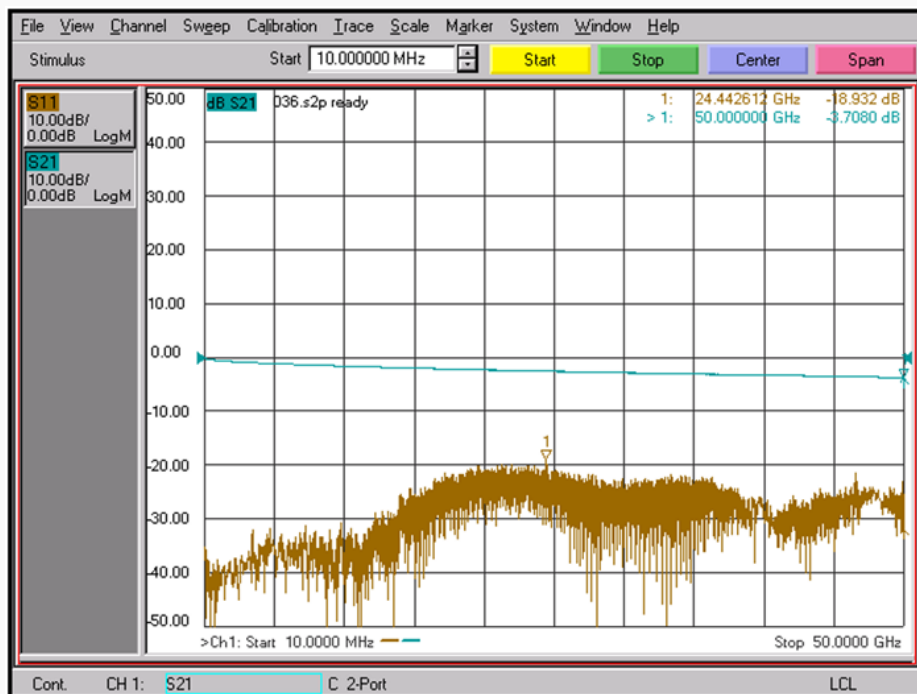
Part No. : WT200-2M12M1-1M

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



Part No. : WT200-2F12F1-1M

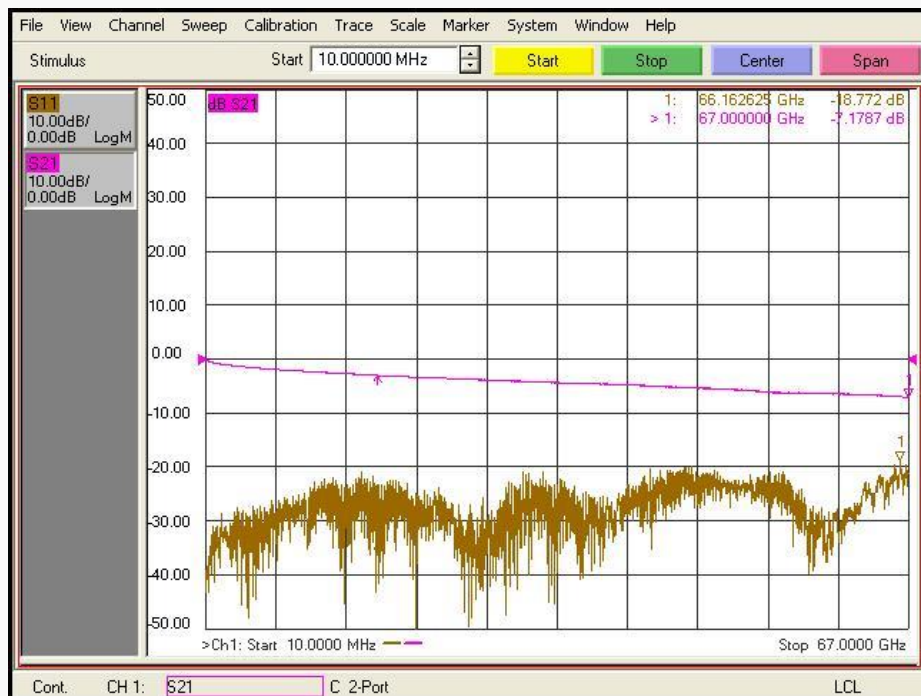
- Frequency : DC to 50 GHz
- Connector : 2.4 mm (Female)
- Cable Length : 1 meter



■ Test Result

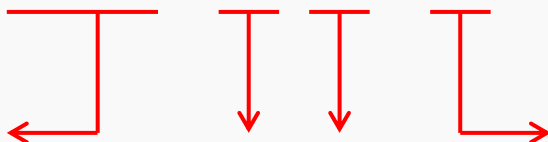
Part No. : WT300-VM1VM1-1M

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



■ Selection Guide

WT100 – KM1KM1 – 1M



Cable Type

WT100 (40 GHz)
WT200 (50 GHz)
WT300 (67 GHz)

Connector Type

KM1: 2.92 mm Male
KF1 : 2.92 mm Female
2M1: 2.4 mm Male
2F1 : 2.4 mm Female
VM1: 1.85 mm Male
VF1 : 1.85 mm Female

Cable Length

Unit : Meter



■ Revision History

Revision	Date	Changes
Ver 1.0	2015-11-10	Release New WT100 & WT200 Cable Assembly
Ver 2.0	2019-08-01	Change Connector shape for better reliability
Ver 3.0	2019-09-01	Release New WT300 Cable Assembly
Ver 3.1	2020-02-10	Add Female type
Ver 3.2	2021-09-24	Updated Spec.

