

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

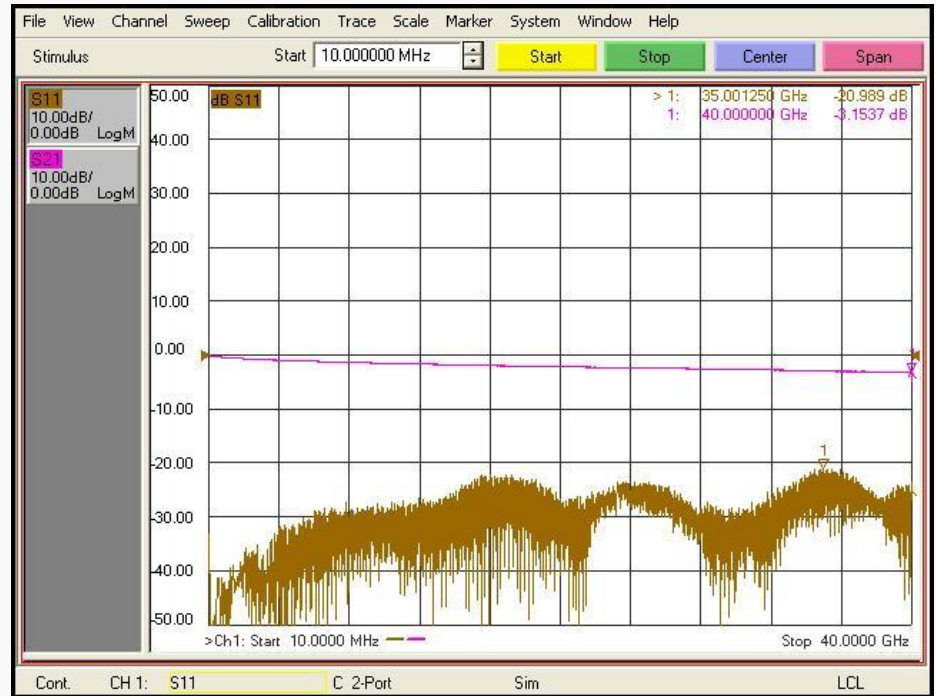
Scope	Specification	WT100	WT200	WT300
Electrical	Impedance(Ohm)		50	
	Operation Freq.(GHz)	40	50	67
	VSWR(Max)	1.3	1.3	1.3
	Amplitude stability (dB)*	<+/- 0.03	<+/- 0.05	<+/- 0.1
	Phase stability (degree)*	<+/- 3.0	<+/- 5.0	<+/- 5.0
	Attenuation (dB/M)	2.9 @ 40 GHz	3.6 @ 50 GHz	6.9 @ 67 GHz
	Velocity 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 +125	

* cable was wrapped 360 degree around Φ 40 mm mandrel

■ Test Result

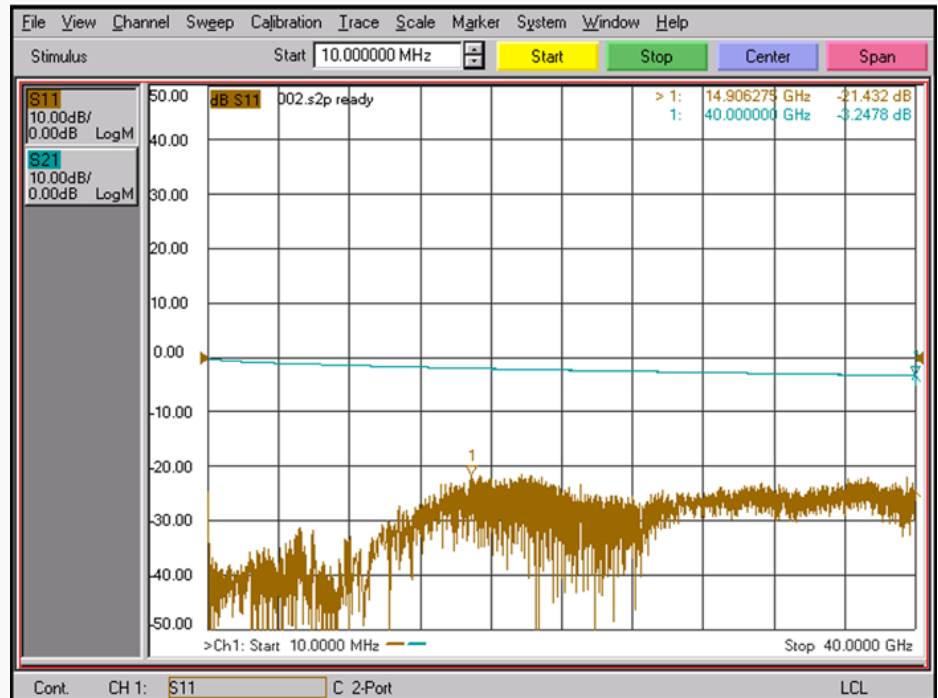
Part No. : WT100-KM1KM1-1M

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



Part No. : WT100-KF1KF1-1M

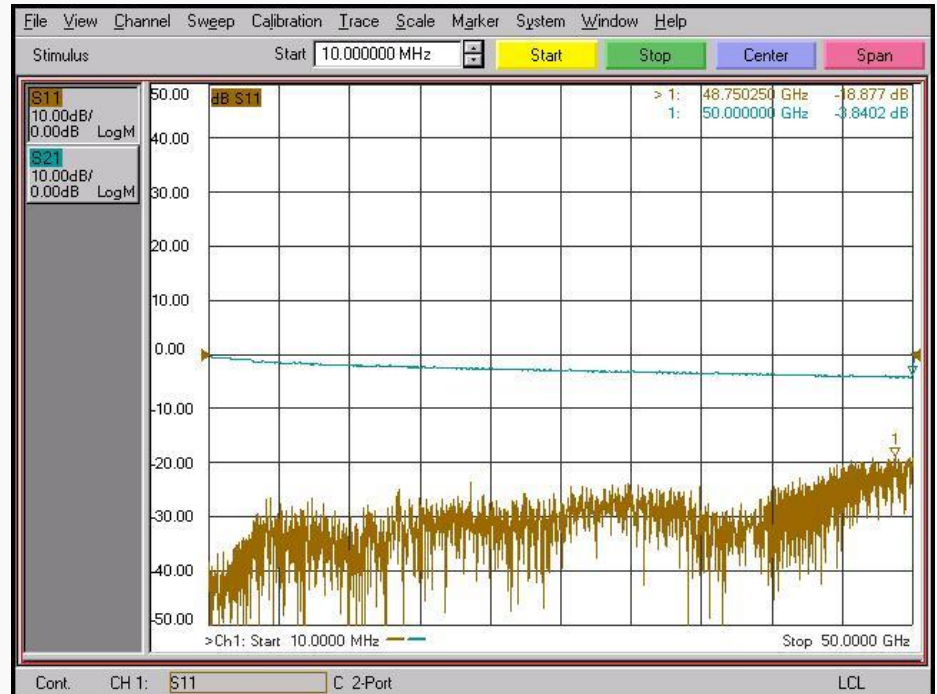
- Frequency : DC to 40 GHz
- Connector : 2.92 mm (Female)
- Cable Length : 1 meter



■ Test Result

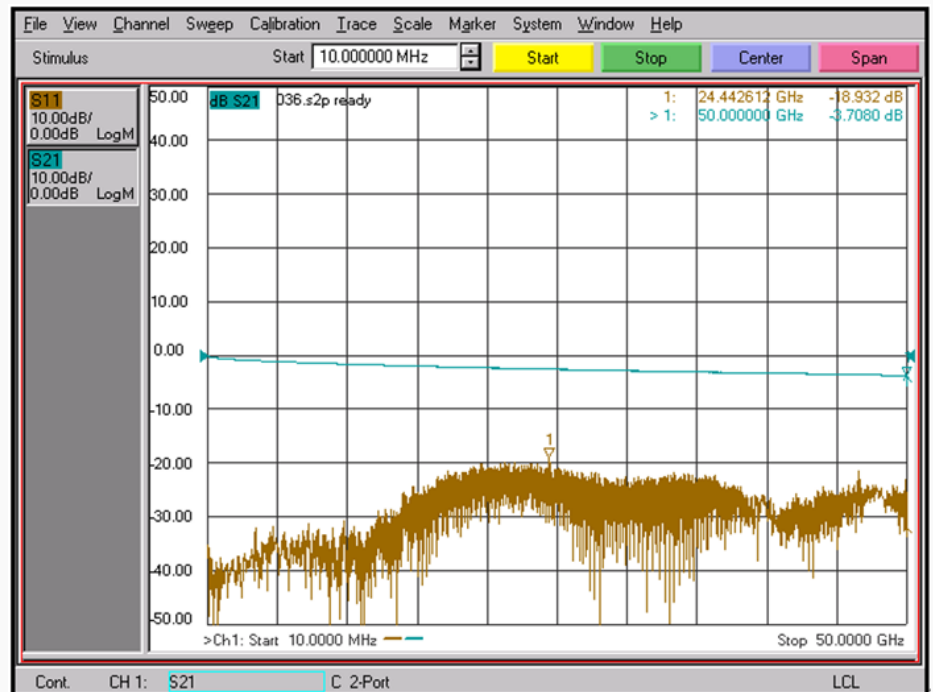
Part No. : WT200-2M12M1-1M

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



Part No. : WT200-2F12F1-1M

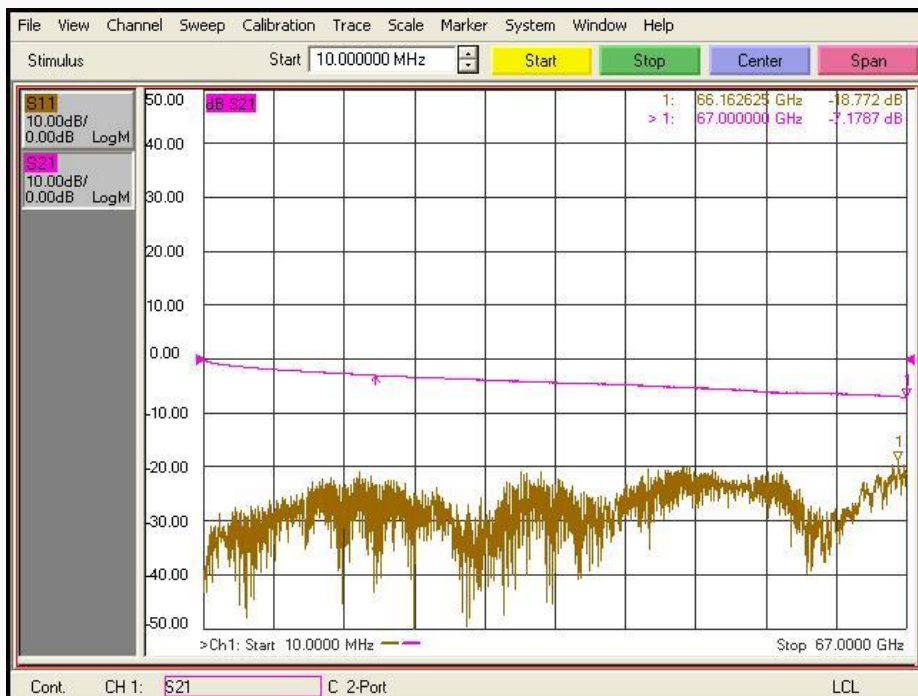
- Frequency : DC to 50 GHz
- Connector : 2.4 mm (Female)
- Cable Length : 1 meter



■ Test Result

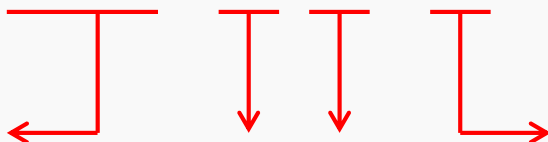
Part No. : WT300-VM1VM1-1M

- 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