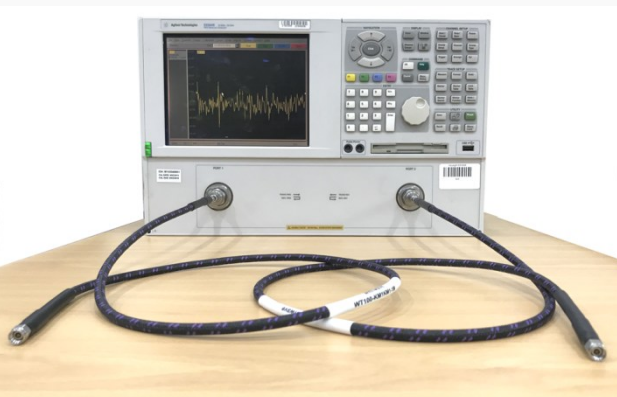


TM
W-Test Cable Assemblies are complete line of high precision flexible microwave cable assemblies, specially for stable phase testing. These **WT series** are designed by excellent microwave interconnection technologies and have **good phase and amplitude stability**.
The 18, 26.5, 34, 40, 50 & 67 GHz 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)	18	26.5	34	40	50		67
	VSWR(Max)	1.3	1.3	1.3	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)	1.8 @ 18 GHz 2.1 @ 25.5 GHz 2.8 @ 34 GHz 2.9 @ 40 GHz				3.6 @ 50 GHz		6.9 @ 67 GHz
Physical	Velocity of propagation(%)					76		
	Bending radius(Min)					20 mm		
	Connector	SMA				2.92 mm		1.85 mm
	Cable Diameter(mm)					6.4		
Environmental	Operating Temperature (degree)					- 40 to +85 °C **		

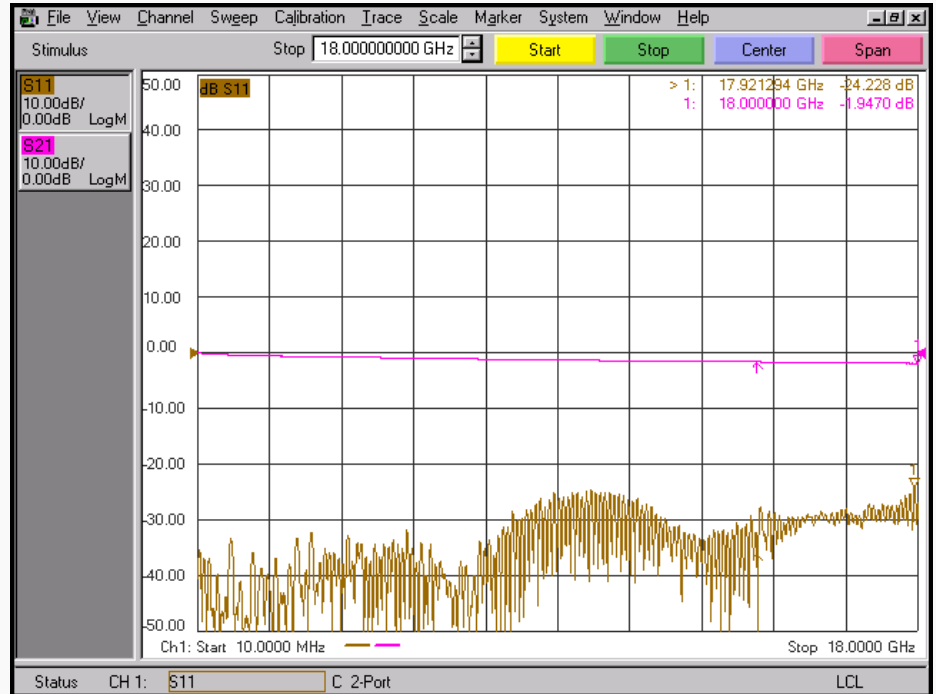
* Cable (length : 1 meter) was wrapped 360 degree around Φ 40 mm mandrel

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

■ Test Result

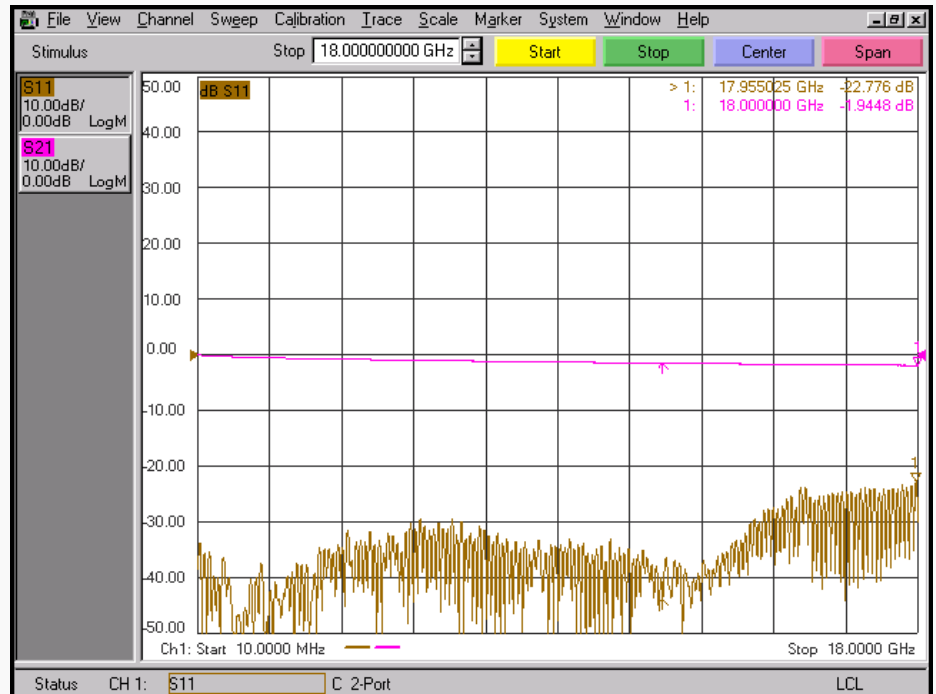
Part No. : WT100-NM1NM1-1M

- Frequency : DC to 18 GHz
- Connector : N (Male)
- Cable Length : 1 meter



Part No. : WT100-NF1NF1-1M

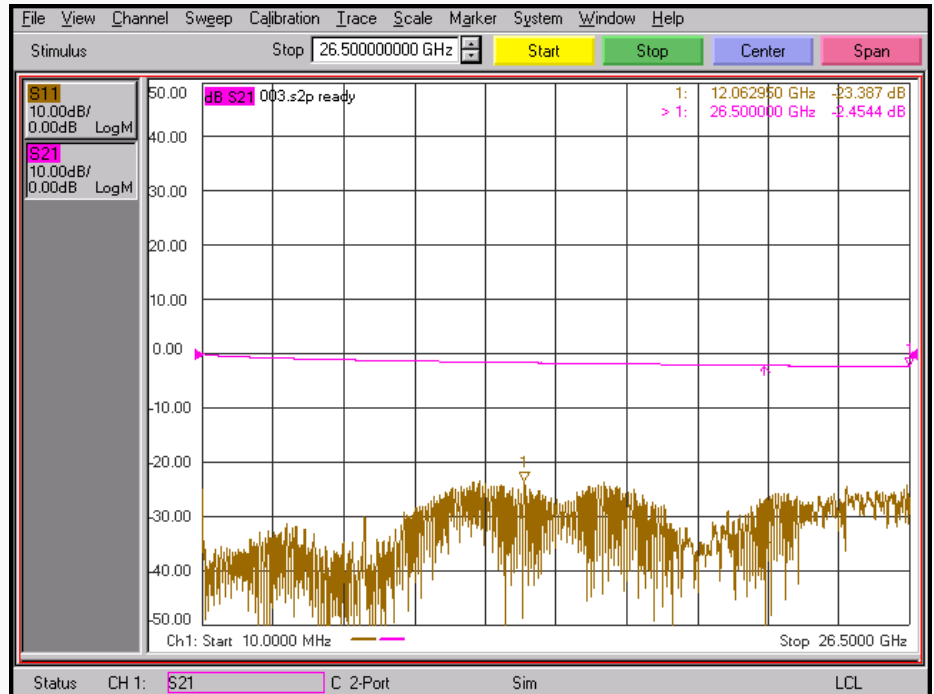
- Frequency : DC to 18 GHz
- Connector : N (Female)
- Cable Length : 1 meter



■ Test Result

Part No. : WT100-SM1SM1-1M

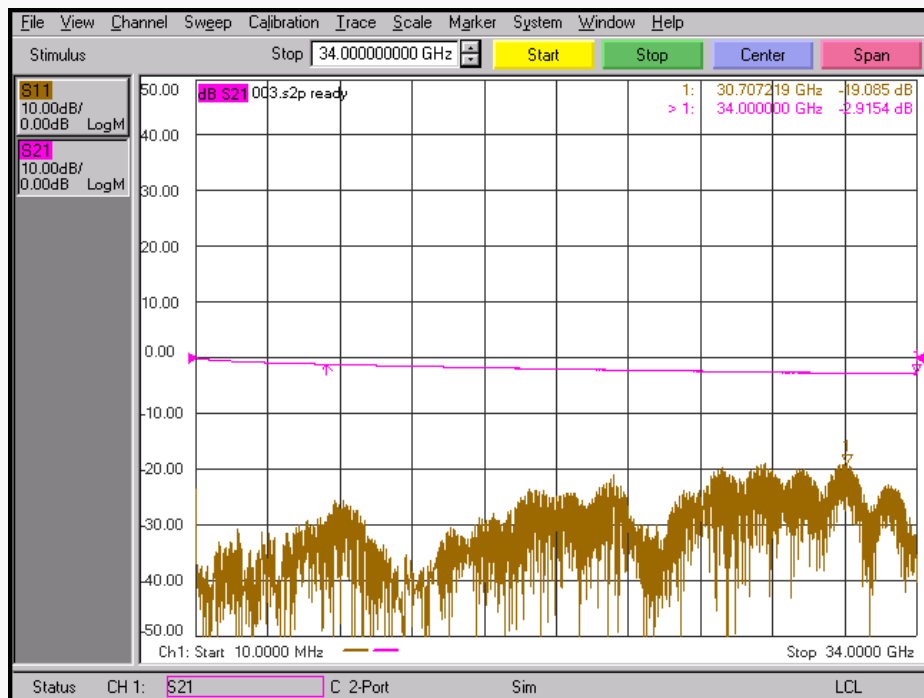
- Frequency : DC to 26.5 GHz
- Connector : SMA (Male)
- Cable Length : 1 meter



■ Test Result

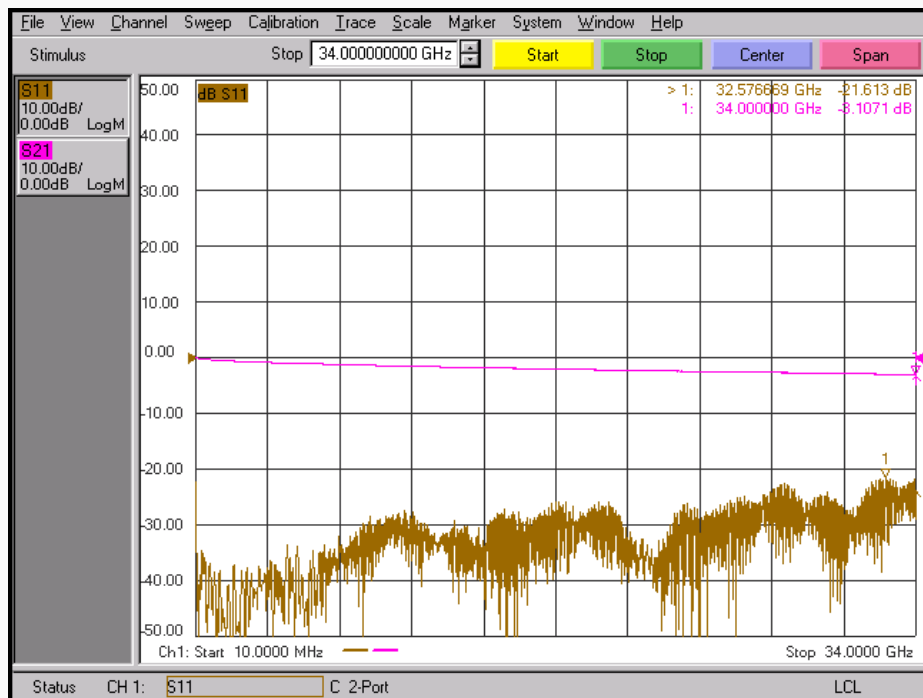
Part No. : WT100-3M13M1-1M

- Frequency : DC to 34 GHz
- Connector : 3.5 mm (Male)
- Cable Length : 1 meter



Part No. : WT100-3F13F1-1M

- Frequency : DC to 34 GHz
- Connector : 3.5 mm (Female)
- Cable Length : 1 meter



■ **Test Result**

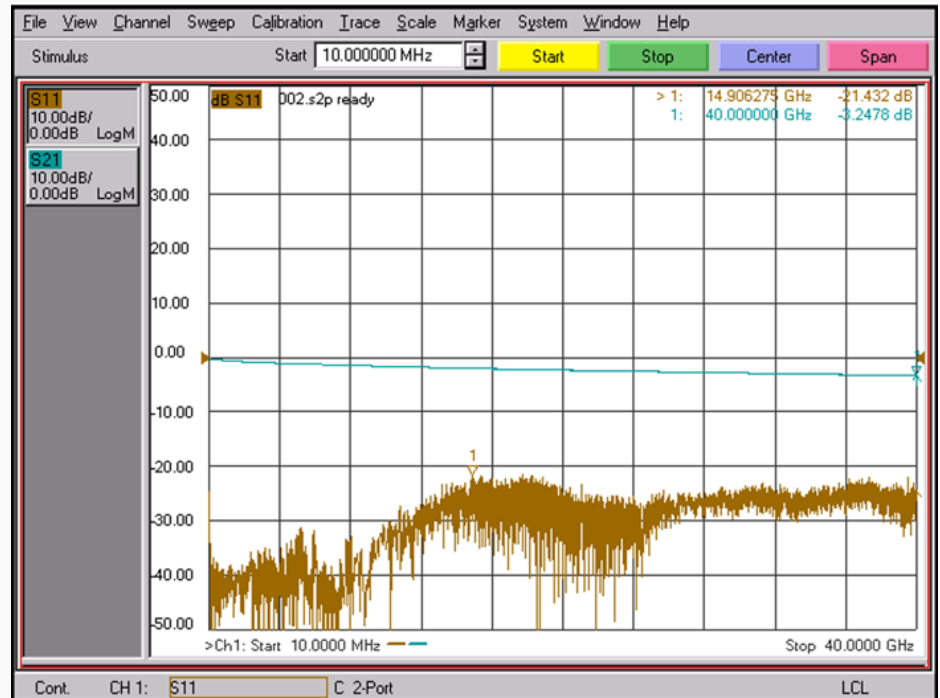
Part No. : WT100-KM1KM1-1M

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



Part No. : WT100-KF1KF1-1M

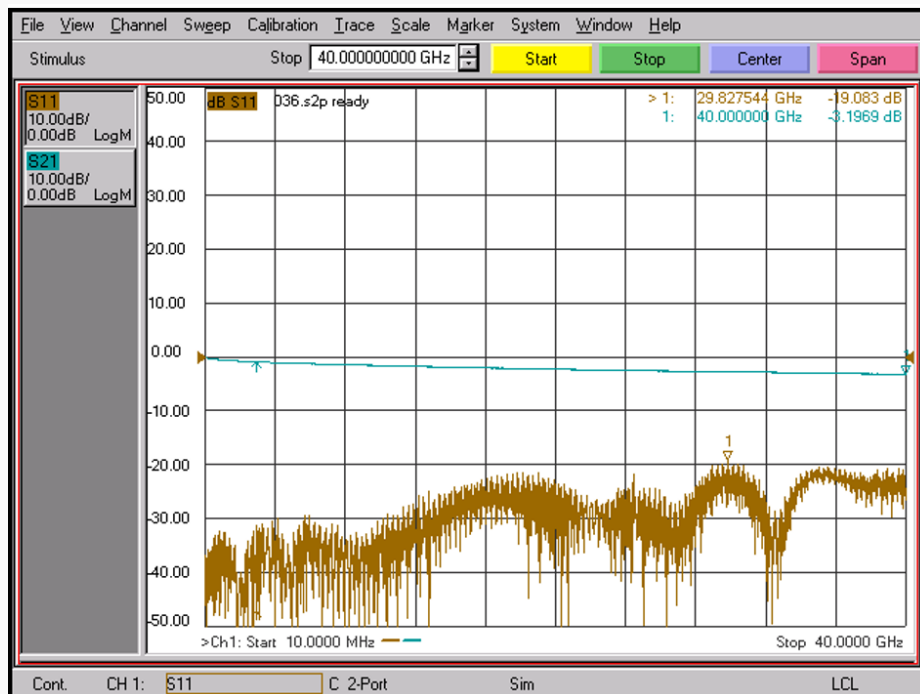
- Frequency : DC to 40 GHz
- Connector : 2.92 mm (Female)
- Cable Length : 1 meter



■ Test Result

Part No. : WT100-2M1KM1-1M

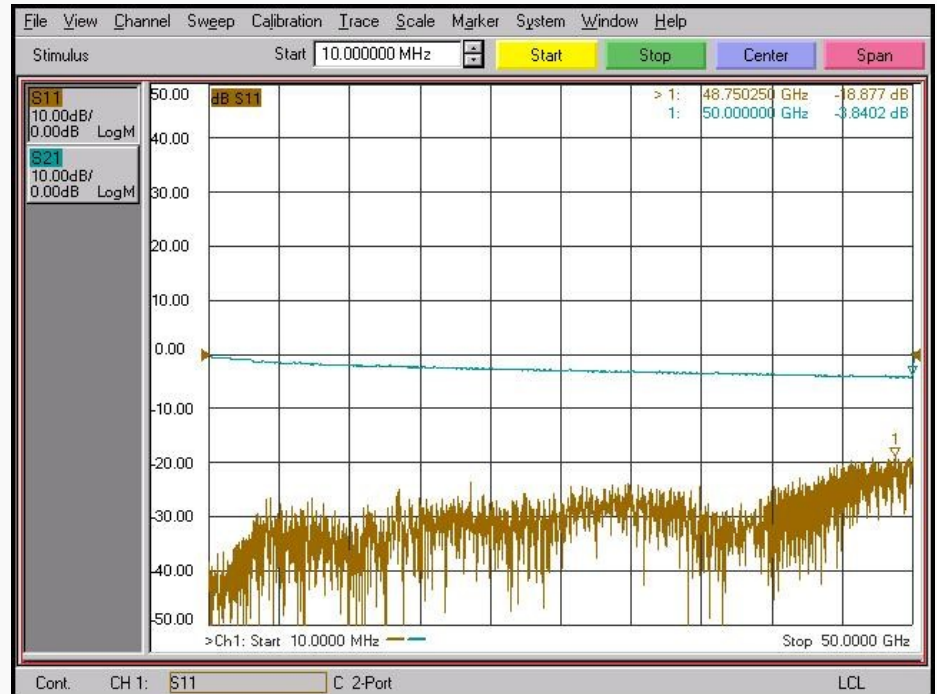
- Frequency : DC to 40 GHz
- Connector : 2.4 mm (Male),
2.92 mm (Male)
- Cable Length : 1 meter



■ Test Result

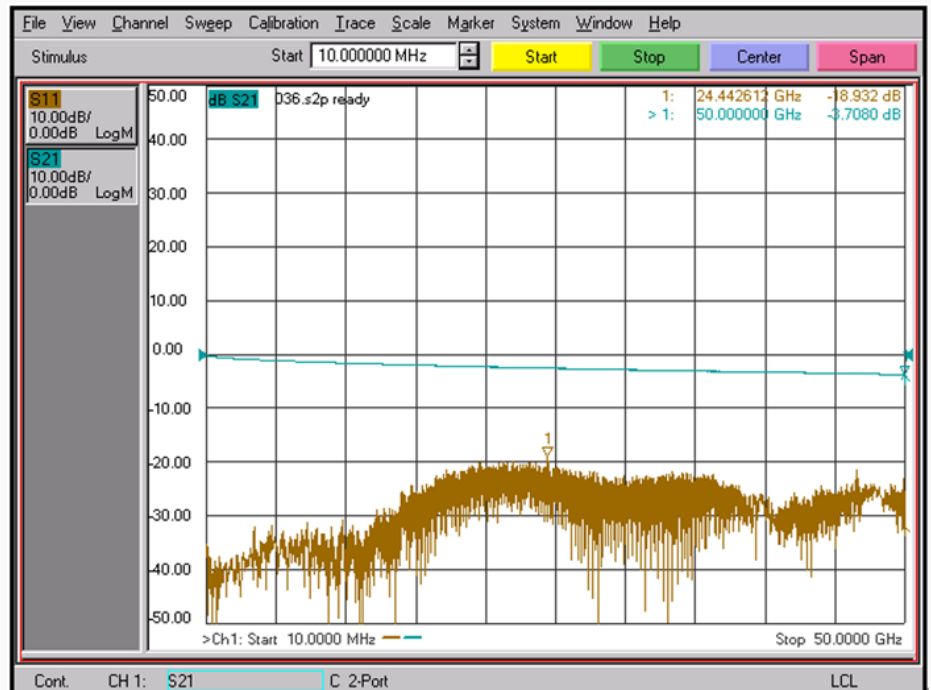
Part No. : WT200-2M12M1-1M

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



Part No. : WT200-2F12F1-1M

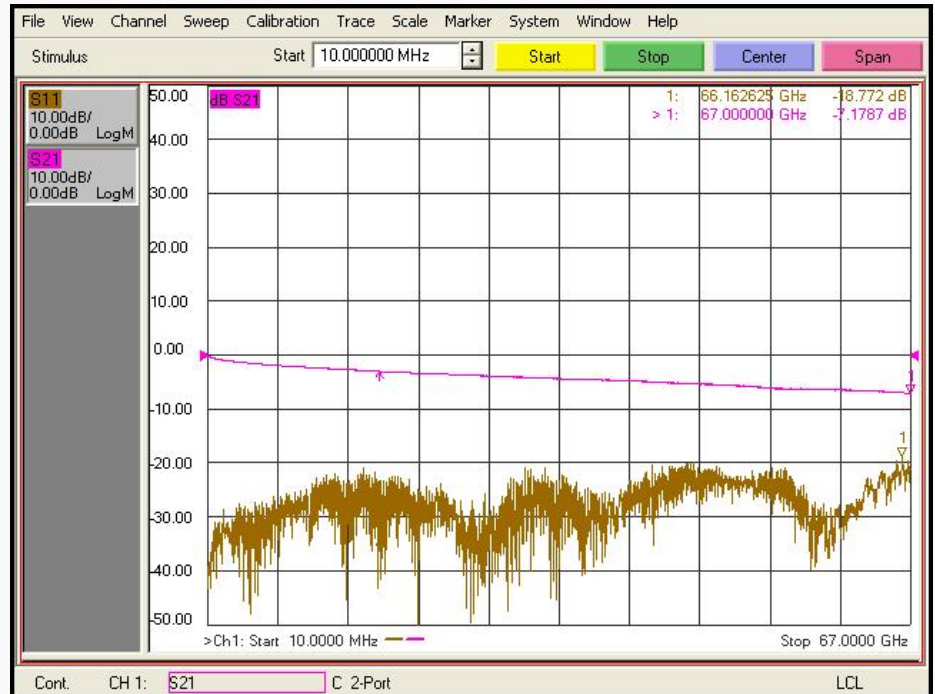
- Frequency : DC to 50 GHz
- Connector : 2.4 mm (Female)
- Cable Length : 1 meter



■ Test Result

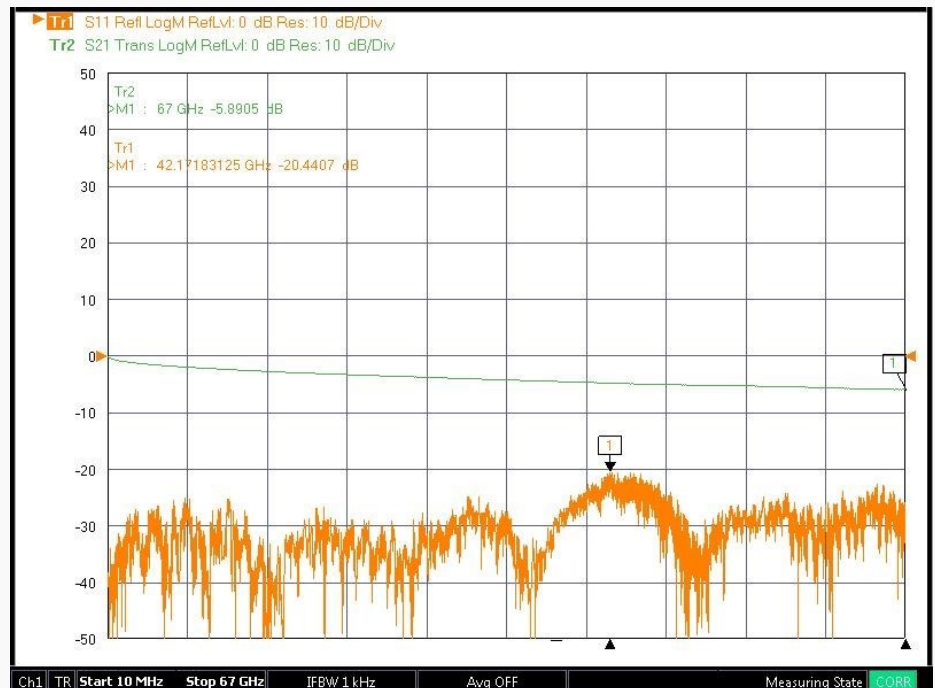
Part No. : WT300-VM1VM1-1M

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



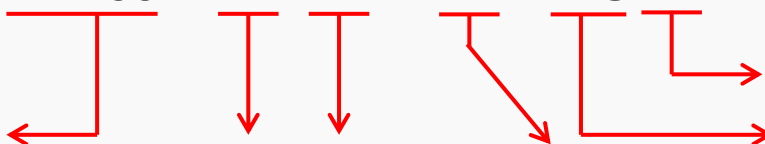
Part No. : WT300-VF1VF1-1M

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



■ Selection Guide

WT100 – KM1KM1 – 1M – 1PS – T



Cable Type

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

Connector Type

SM1: SMA Male
SF1: SMA Female
NM1: N-type Male
NF1: N-type Female
3M1: 3.5 mm Male
3F1: 3.5 mm Female
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

Non-Adhesive Shrinkable Tube

T: -40 ~ + 125 °C

Phase Matching

0.5 ps : ± 0.5 picosecond
1 ps : ± 1 picosecond
1 ps : ± 2 picosecond



■ 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.
Ver 3.3	2022-04-22	Updated Temperature Spec. according to tube
Ver 3.4	2022-12-15	Add SMA Male type
Ver 3.5	2023-01-06	Add N type, 3.5mm type

