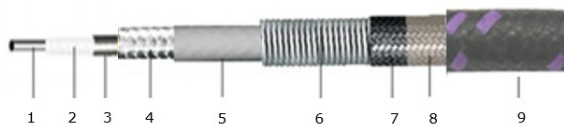


W-Test Cable Assemblies are complete line of high precision flexible microwave cable assemblies, specially for stable phase testing. These **WT110 Cable Assemblies** are designed by excellent microwave interconnection technologies and have **good phase and amplitude stability up to 110GHz**. It is claimed 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. Inner Braiding : SPC
5. Jacket : FEP
6. Crush Protection Layer
7. Braiding
8. PTFE Stable Gum.
9. Braided Outer Jacket

Specification

Scope	Specification	WT110 (110 GHz)
Electrical	Impedance(Ohm)	50
	Operation Freq.(GHz)	110
	VSWR(Max)	1.4
	Amplitude stability (dB) *	<+/- 0.2
	Phase stability (degree) *	<+/- 7.0
	Attenuation (dB/M)	10.0 @ 110 GHz
	Velocity of propagation(%)	80
Physical	Bending radius(Min)	20 mm
	Connector	1.0 mm
	Cable Diameter(mm)	6.4
Environmental	Operating Temperature (degree)	- 40 to +85 °C **

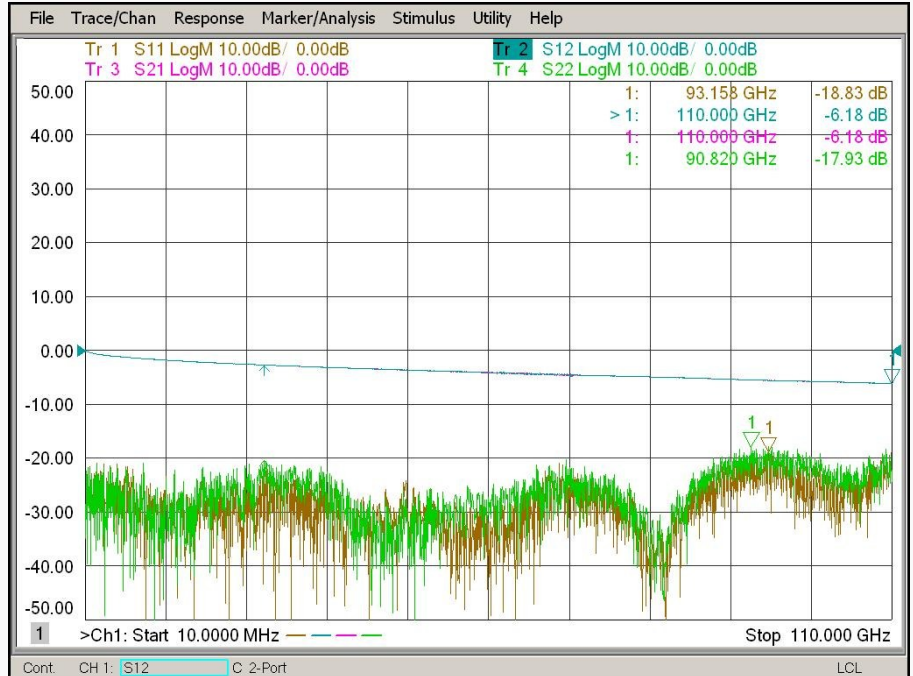
* Cable (length : 1 meter) was wrapped 360 degree around Φ 40 mm mandrel

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

■ Test Result

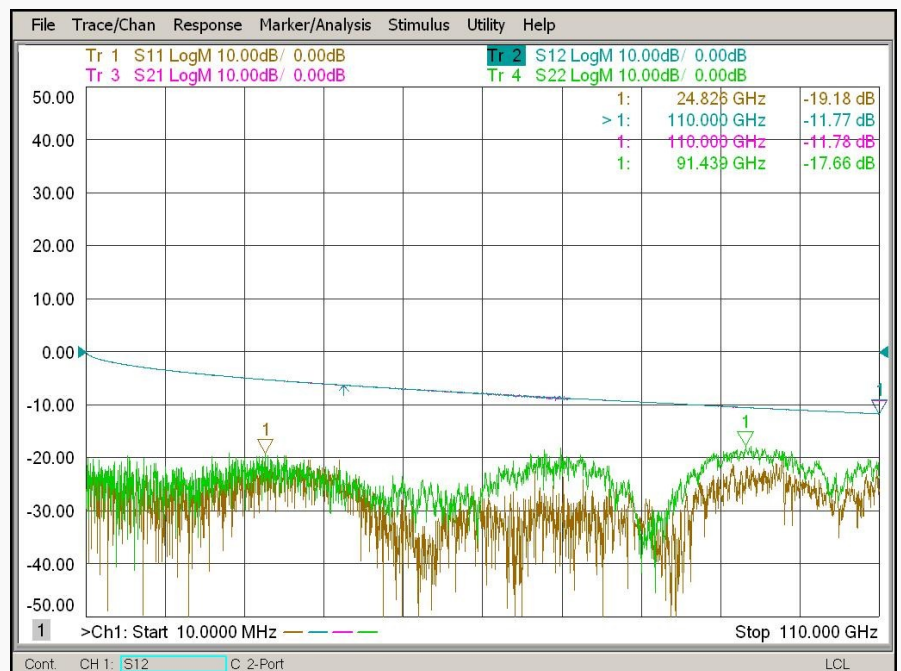
Part No. : WT110-WM1WM1-0.5M

- Frequency : DC to 110 GHz
- Connector : 1.0 mm (Male)
- Cable Length : 0.5 meter



Part No. : WT110-WM1WM1-1M

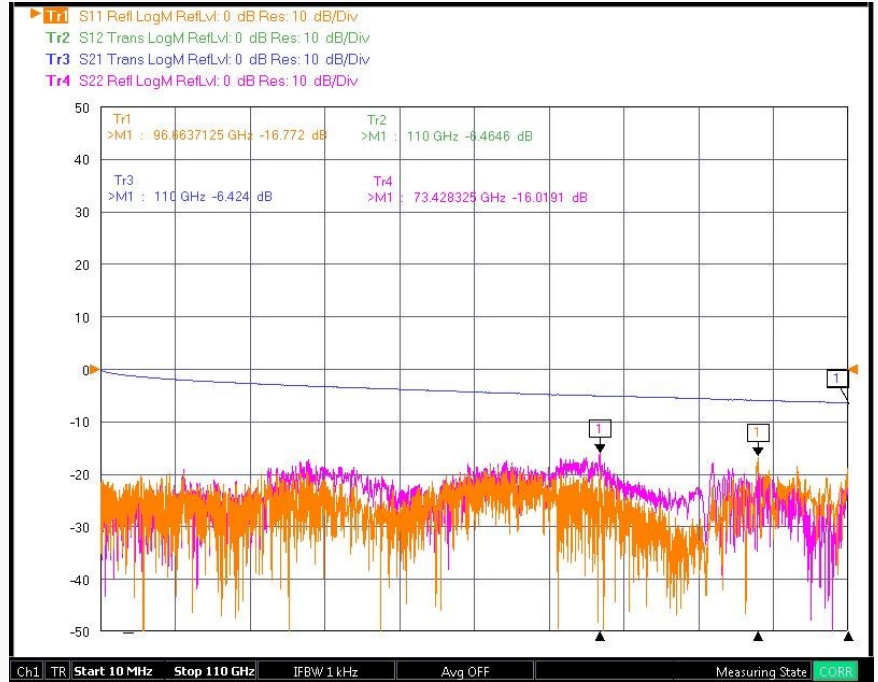
- Frequency : DC to 110 GHz
- Connector : 1.0 mm (Male)
- Cable Length : 1 meter



■ Test Result

Part No. : WT110-WM1WF1-0.5M

- Frequency : DC to 110 GHz
- Connector : 1.0 mm (Male),
1.0 mm(Female)
- Cable Length : 0.5 meter



■ Selection Guide

WT110 – WM1WM1 – 1M – 1PS – T

**Non-Adhesive
Shrinkable Tube**

T: -40 ~ + 125 °C

Cable Type

WT110 (110 GHz)

Connector Type

WM1: 1.0 mm Male
WF1 : 1.0 mm Female

Cable Length

Unit : Meter

Phase Matching

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



■ Revision History

Revision	Date	Changes
Ver 1.0	2019-10-21	Release New WT110 Cable Assembly (110 GHz)
Ver 1.1	2020-05-20	Updated Specfication
Ver 1.2	2021-05-01	Add 1.0 mm(Female) type
Ver 1.3	2022-04-22	Updated Temperature Spec. according to tube