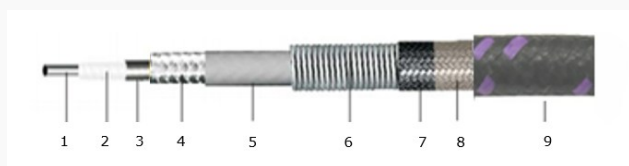


W-Test Cable Assemblies are complete line of high precision flexible microwave cable assemblies, specially for stable phase testing. These **WT145 Cable Assemblies** are designed by excellent microwave interconnection technologies and have **good phase and amplitude stability up to 145 GHz**. It is claimed to have excellent insertion loss, high phase/amplitude stability in relation to temperature.



Features



1. **Center Conductor** : Silver Plated Copper
2. **Dielectric core** : Solid PTFE
3. **Outer Conductor 1** : Silver Plated Copper Tape
4. **Outer Conductor 2** : Silver Plated Copper
5. **Jacket** : FEP
6. **Crush Protection Layer**
7. **Braiding**
8. **PTFE Stable Gum**
9. **Braided Outer Jacket**

Specification

Scope	Specification	WT145 (145 GHz)
Electrical	Impedance(Ohm)	50
	Operation Freq.(GHz)	145
	VSWR(Max)	< 1.65 to 145 GHz
	Amplitude stability (dB) *	< +/- 0.6
	Phase stability (degree) *	< +/- 23
	Velocity of propagation(%)	70
	Voltage Withstand (V, DC)	350
	Shielding Effectiveness (dB)	< -90
Physical	Bending radius(Min)	20 mm
	Cable Diameter(mm)	6.4
Environmental	Operating Temperature (degree)	- 40 to +85 **

* Cable (length : 1 meter) was wrapped 360 degree around Φ 30 mm mandrel

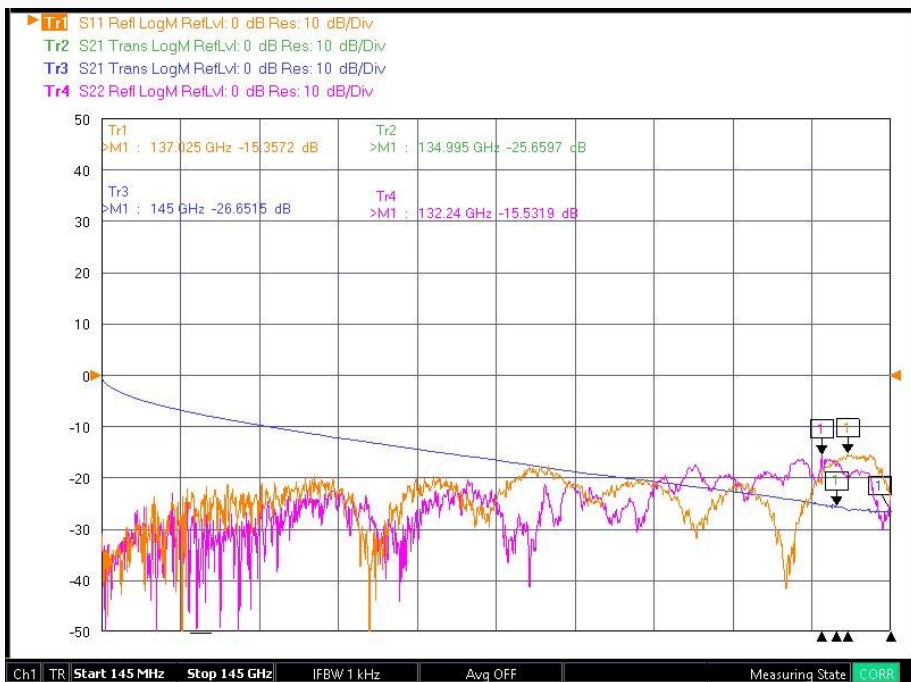
** Adhesive type shrinkable tube: - 40 ~ +85 °C / Non-adhesive type shrinkable tube: - 40 ~ + 125 °C

■ Test Result

WT145 cable assembly

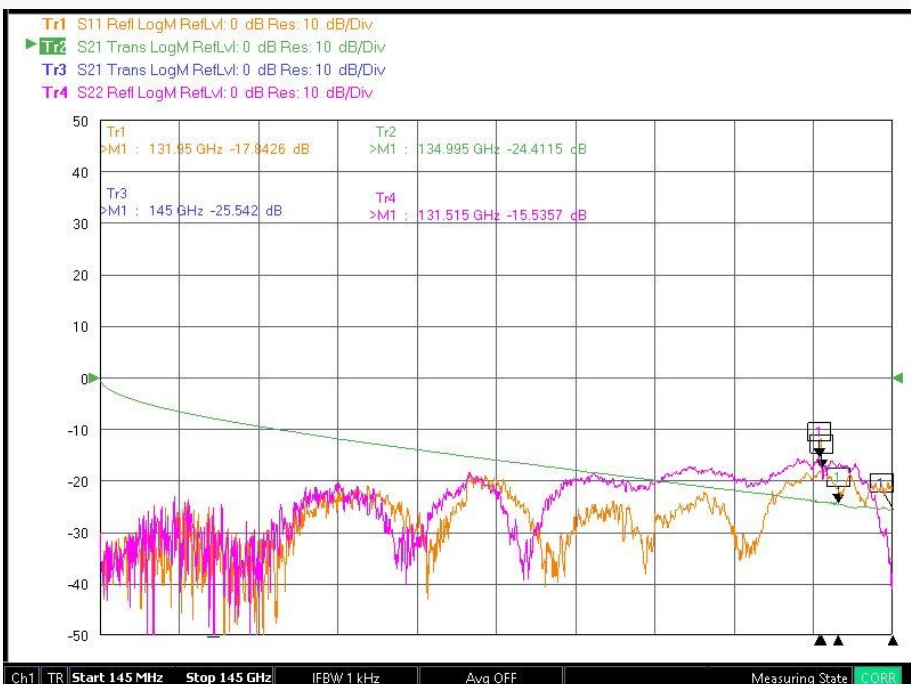
Part No. : WT145-DM1DM1-1M

- Frequency : DC to 145 GHz
- Connector : 0.8 mm (Male)
- Cable Length : 1.0 meter



Part No. : WT145-DF1DF1-1M

- Frequency : DC to 145 GHz
- Connector : 0.8 mm (Female)
- Cable Length : 1.0 meter

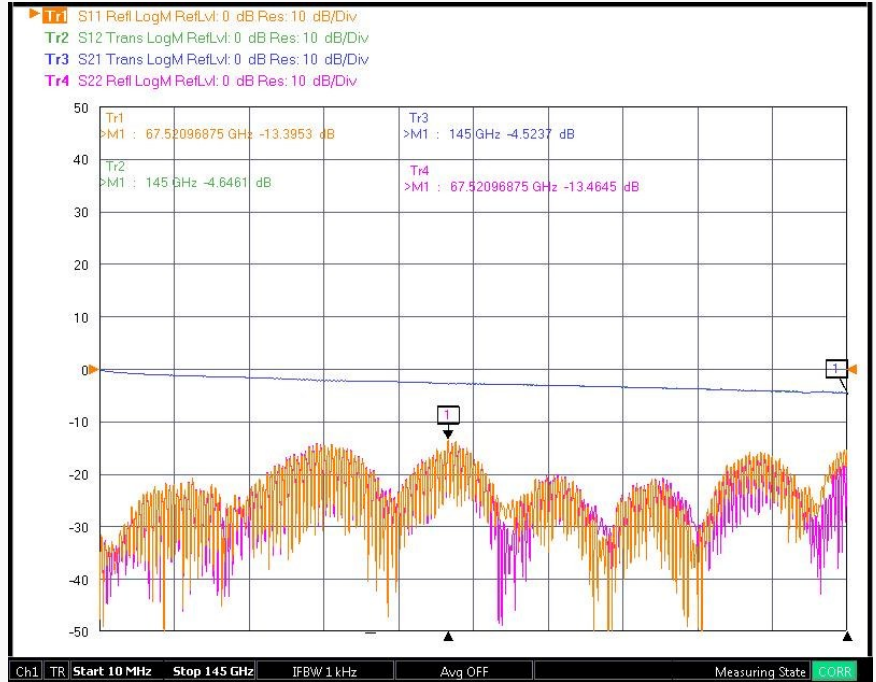


■ Test Result

WT145 cable assembly

Part No. : WT145-DM1DM1-0.15M

- Frequency : DC to 145 GHz
- Connector : 0.8 mm (Male)
- Cable Length : 0.15 meter



■ Selection Guide

WT145 - DM1DM1 - 1M - 1PS - T

**Non-Adhesive
Shrinkable Tube**

T: -40 ~ + 125 °C

Phase Matching

Cable Type

WT145 (145 GHz)

Connector Type

DM1: 0.8 mm Male
DF1 : 0.8 mm Female

Cable Length

Unit : Meter

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

0.8 mm(Male) Connector



0.8 mm(Fmale) Connector



■ Revision History

Revision	Date	Changes
Ver 1.0	2024-11-27	Release New WT145 Cable Assembly (145 GHz)
Ver 1.1	2025-01-16	Add WT145-DM1DM1-0.15M
Ver 2.0	2025-01-16	Add 0.8mm Female type Cable Assembly