

W7 Series are complete line of high performance flexible microwave cable assemblies.

Specially, **Flexible Armored W701 Series** have low density PTFE structure to achieve velocity propagation of 76 % and good phase and amplitude stability performance.

They have excellent RF performance up to 26.5, 40 GHz with SMA, 2.92 mm connectors, respectively.

■ Features

- Center Conductor : Silver Plated Copper
- Insulator : Low Density PTFE
- Outer Conductor 1 : Silver Plated Copper Foil
- Outer Conductor 2 : Silver Plated Copper Wire
- Jacket : FEP
- Winding Layer : Waterproof tape
- Braided Layer : PTFE (Black and Yellow)



■ Specification

Scope	Specification	W701 (26.5, 40 GHz)
Physical	Center Conductor (mm): Stranded type	0.72
	Insulator (mm)	2.10
	Outer Conductor 1 (mm)	2.30
	Outer Conductor 2 (mm)	2.75
	Jacket (mm)	3.60
	Winding Layer (mm)	3.80
Electrical	Braided Layer (mm)	4.40
	Characteristic Impedance (Ohm)	50 ± 1 Ohm
	Velocity of Propagation (%)	Typical 76
	Shielding Effectiveness(dB)	-90
	VSWR (Max)	< 1.3
	Amplitude Stability (dB)*	<±0.1 (up to 40 GHz)
Mechanical & Environmental	Phase Stability (degree)*	<±3.0 (up to 26.5 GHz) <±5.5 (up to 40 GHz)
	Attenuation (at 25 °C)	2.44 dB/m @ 18.0 GHz 3.05 dB/m @ 26.5 GHz 3.88 dB/m @ 40.0 GHz
	Weight (g/M)	45
	Min. bending radius (mm)	18 (Installation) 44 (Repeated)
	Operating Temperature	-40~+85 °C **

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

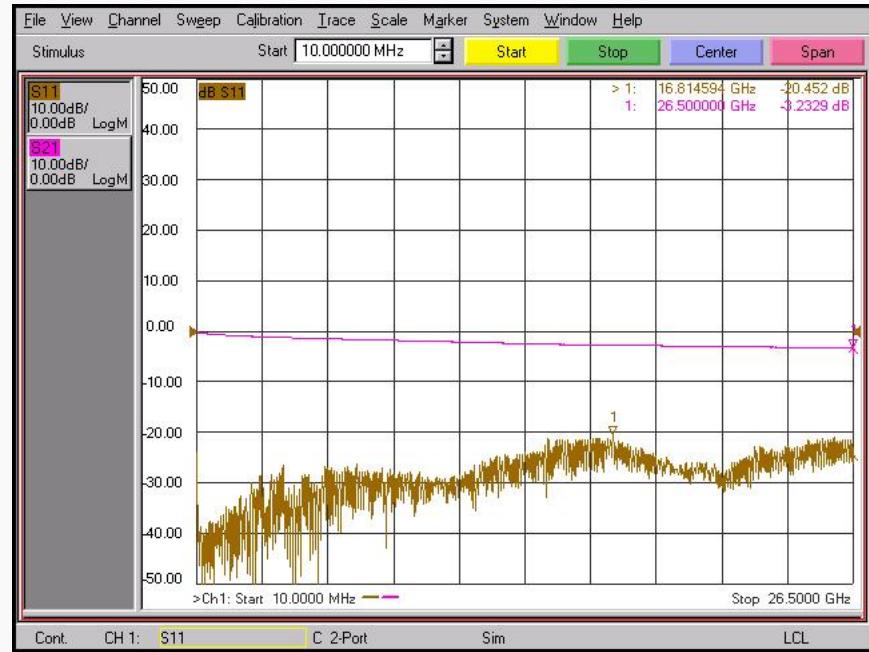
** Adhesive type shrinkable tube: -40 ~ +85 °C / Non-adhesive type shrinkable tube: -40 ~ +125 °C

■ Test Result

W701 cable assembly

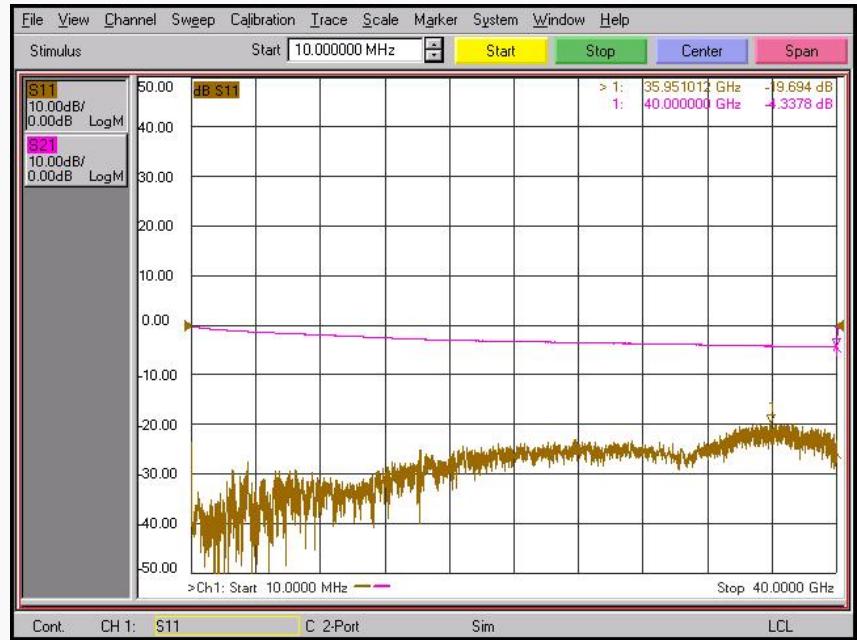
Part No. : W701-SM1SM1-1M

- Frequency : 10 MHz to 26.5 GHz
- Connector : SMA (Male)
- Cable Length : 1 meter



Part No. : W701-KM1KM1-1M

- Frequency : 10 MHz to 40 GHz
- Connector : 2.92 mm (Male)
- Cable Length : 1 meter



■ Selection Guide

W701-KM1KM1 - 1M - T

Cable Type

W701

Connector Type

SM1: SMA Male
KM1: 2.92 mm Male

**Non-Adhesive
Shrinkable Tube**

T: -40 ~ + 125 °C

Cable Length

Unit : Meter

W701(26.5G)

SMA



W701(40G)

2.92 mm



O.D : 4.4 mm



■ Revision History

Revision	Date	Changes
Ver 1.0	2021-02-25	Released W701 Cable Assembly
Ver 1.1	2022- 07-21	Updated Temperature Spec. according to tube