

Microwave Semi-Rigid & Flexible Cable Assembly

DC to 40 & 50 GHz



Microwave Farm provides **Microwave Semi-rigid & flexible cable assemblies** with 0.047", 0.085" diameter for various kinds of microwave interconnection applications **up to 40 & 50 GHz**. These cable assemblies are suitable for Telecommunication Systems, Module to Module interconnections.

■ Features

- DC to 40 & 50 GHz
- Cable : Semi-Rigid & Flexible (0.047" , 0.085")
- Connector: 2.92 mm & 2.4 mm (Male, Female type)
- VSWR(Max): 1.30 : 1 (up 40 GHz)
1.40 : 1 (up 50 GHz)



■ Application

- Telecommunication Systems
- RF & Microwave Interconnection
- Module to Module Systems

■ Specification

Scope	Specification m	MFSR047	MFSF047	MFSR085	MFSF085
Physical (Cable)	Center Conductor	0.29	0.29	0.51	0.54
	Dielectric	0.92	0.92	1.68	1.68
	Jacket	1.19	1.19	2.20	2.18
Electrical	Impedance (Ohm)	50			
	Operation Freq.(GHz)	40, 50 GHz			
	Velocity of propagation(%)	69.5			
	VSWR (Max)	1.30 : 1 (to up 40 GHz) 1.40 : 1 (up to 50 GHz)			
	Shielding Effectiveness (dB)	100			
Mechanical & Environmental	Weight (g/M)	5.7	5.7	20.2	16.0
	Operation Temperature	-40~ +125℃			

* ROHS Compliant

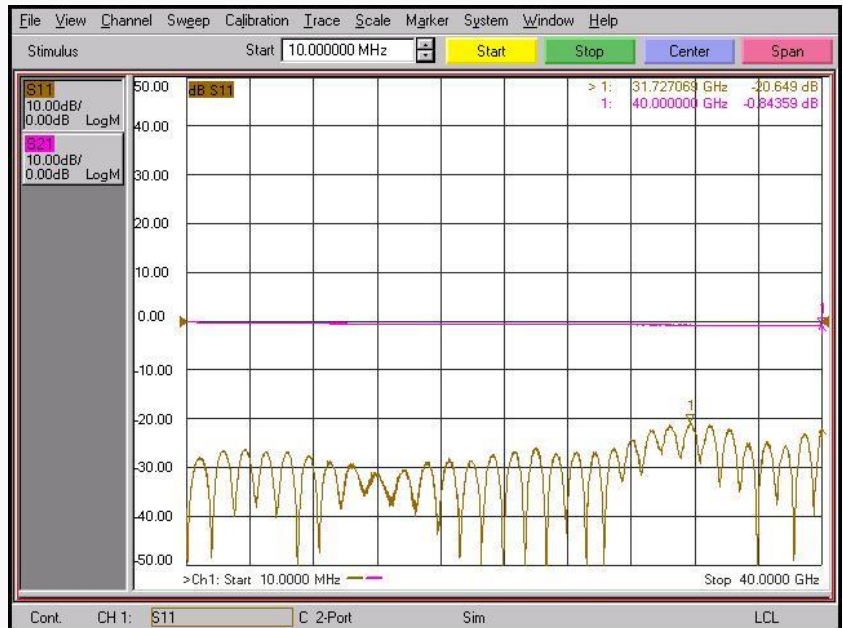
■ Test Results (Semi-Rigid Type)

DC to 40 GHz

Semi-Rigid 047

Part No: MFSR047-KF1KF1-95mm

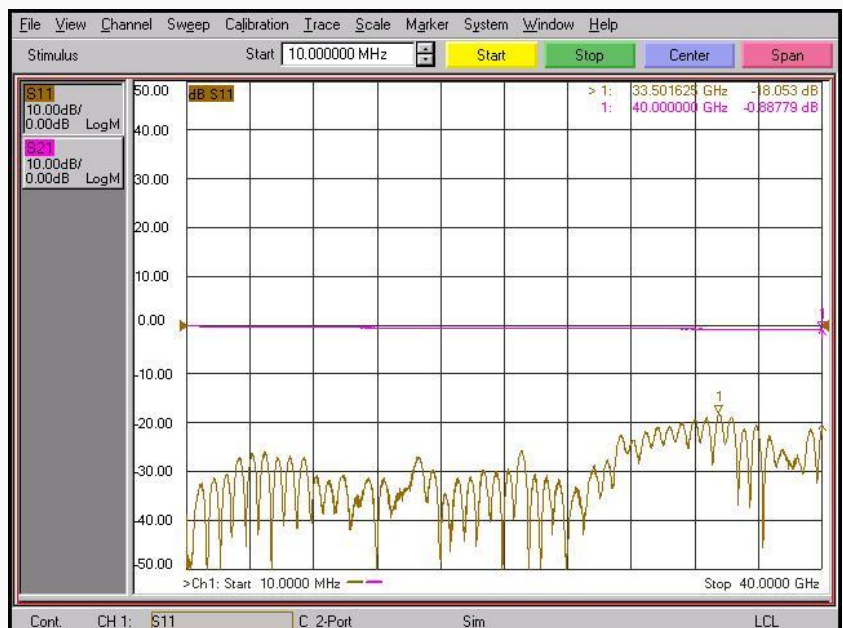
- Frequency : DC to 40 GHz
- Connector : 2.92 mm(Female)
- Cable Length : 95 mm



Semi-Rigid 085

Part No: MFSR085-KF1KF1-0.15M

- Frequency : DC to 40 GHz
- Connector : 2.92 mm(Female)
- Cable Length : 0.15 meter



■ Test Results (Semi-Rigid Type)

DC to 40 GHz

Semi-Rigid 047

Part No: MFSR047-KM1KM1-0.1M

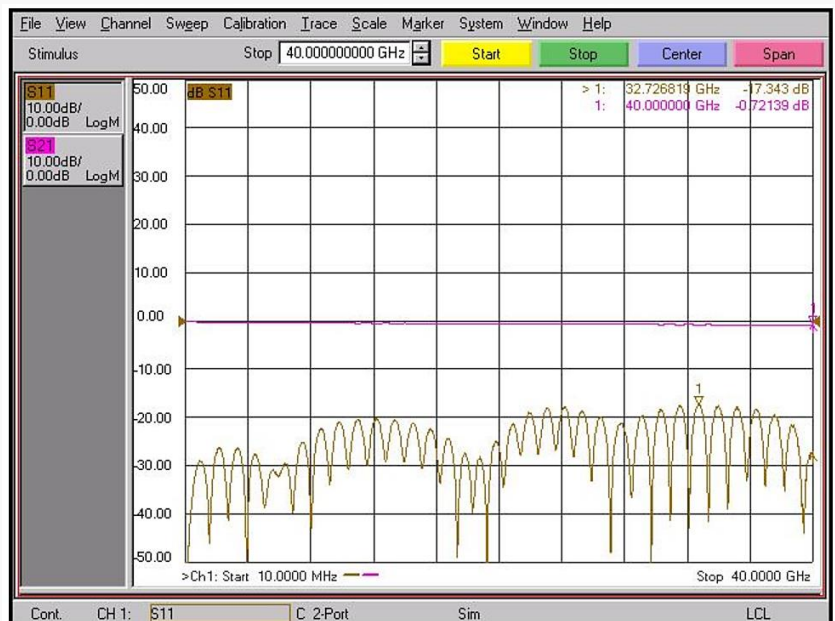
- Frequency : DC to 40 GHz
- Connector : 2.92 mm(Male)
- Cable Length : 0.1 meter



Semi-Rigid 085

Part No: MFSR085-KM1KM1-0.1M

- Frequency : DC to 40 GHz
- Connector : 2.92 mm(Male)
- Cable Length : 0.1 meter



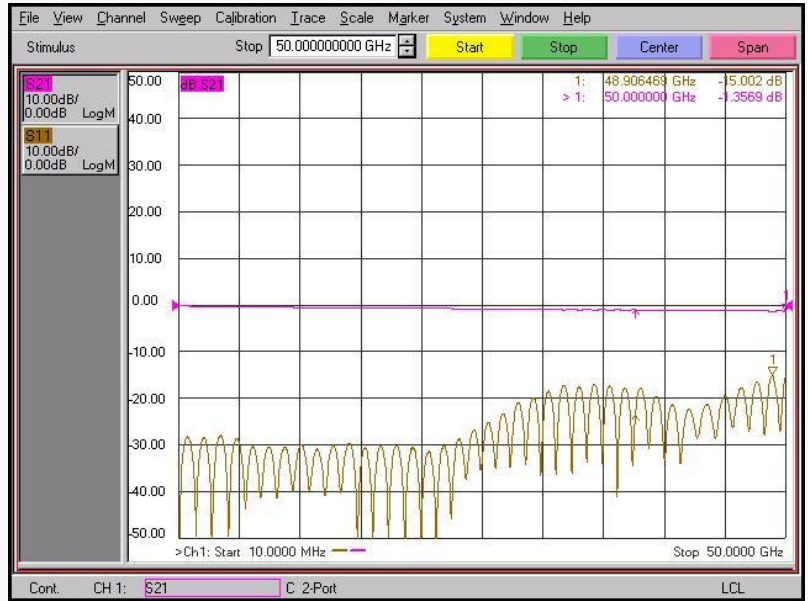
■ Test Results (Semi-Rigid Type)

DC to 40 GHz

Semi-Rigid 047

Part No: MFSR047-2F12F1-0.1M

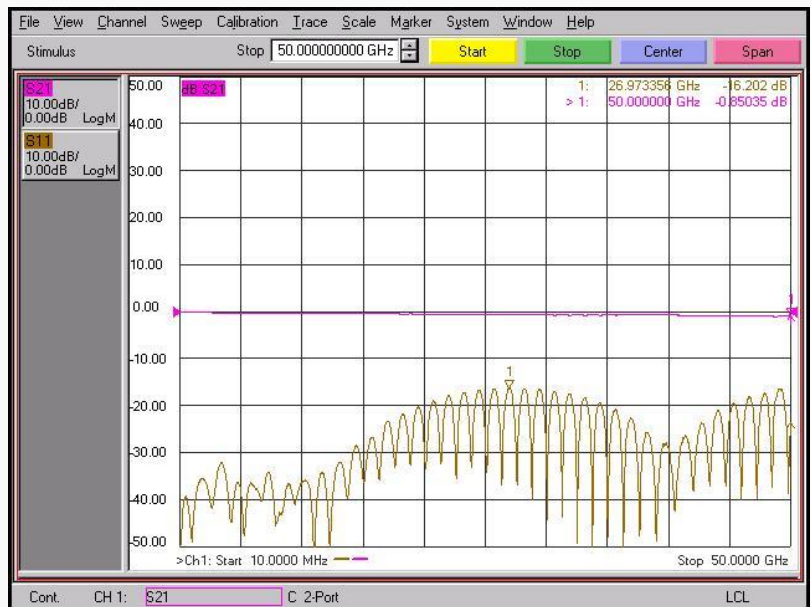
- Frequency : DC to 50 GHz
- Connector : 2.4 mm(Female)
- Cable Length : 0.1 meter



Semi-Rigid 085

Part No: MFSR085-2F12F1-0.1M

- Frequency : DC to 50 GHz
- Connector : 2.4 mm(Female)
- Cable Length : 0.1 meter



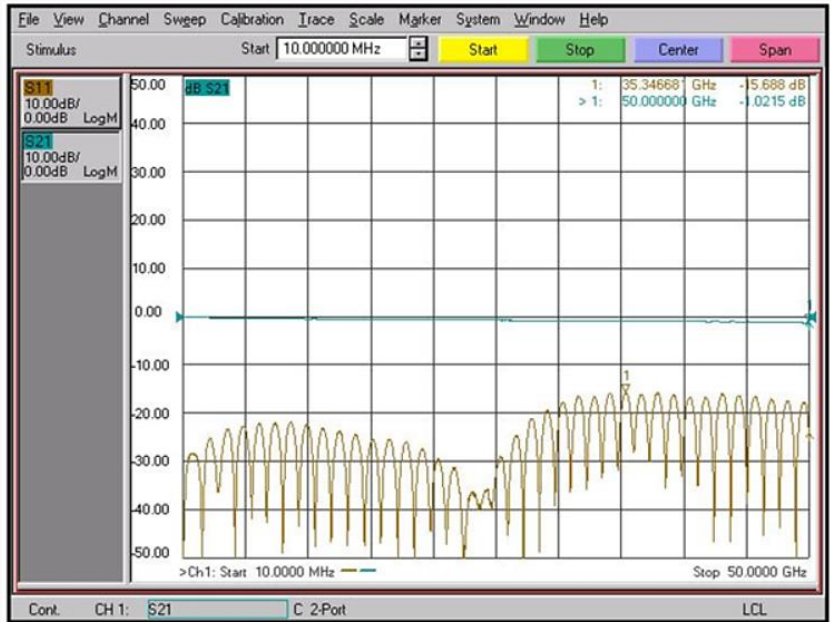
■ Test Results (Semi-Rigid Type)

DC to 50 GHz

Semi-Rigid 047

Part No: MFSR047-2M12M1-0.1M

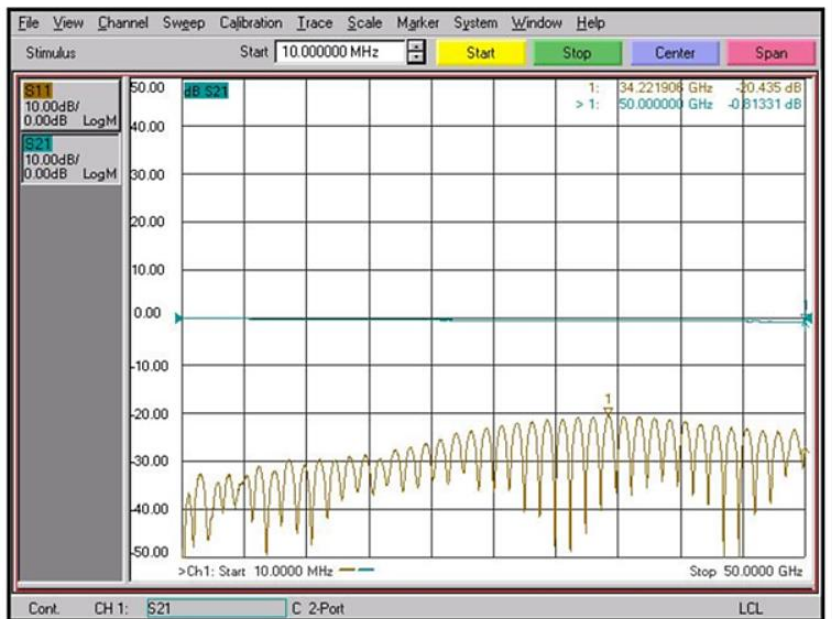
- Frequency : DC to 50 GHz
- Connector : 2.4 mm(Female)
- Cable Length : 0.1 meter



Semi-Rigid 085

Part No: MFSR085-2M12M1-0.1M

- Frequency : DC to 50 GHz
- Connector : 2.4 mm(Female)
- Cable Length : 0.1 meter



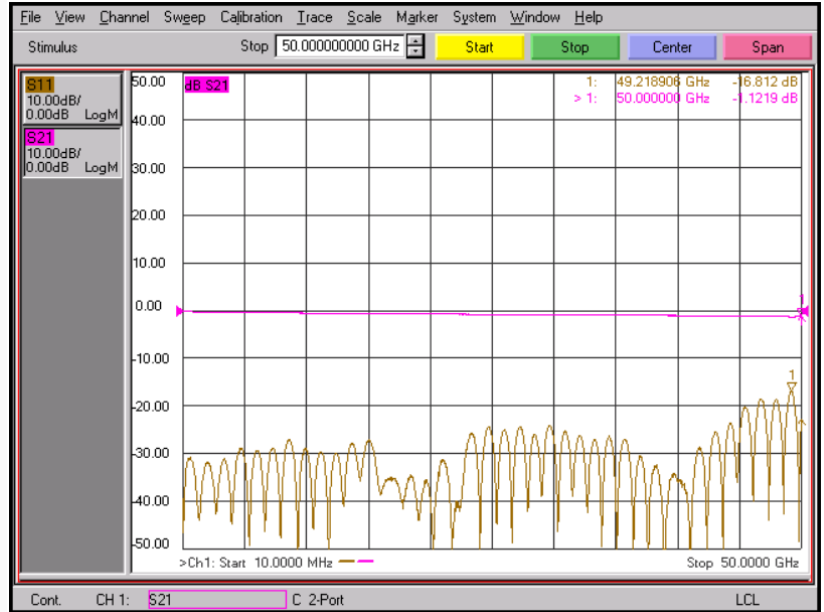
■ Test Results (Semi-Flexible Type)

DC to 40 GHz

Semi-Flex 047

Part No: MFSF047-KF1KF1-0.1M

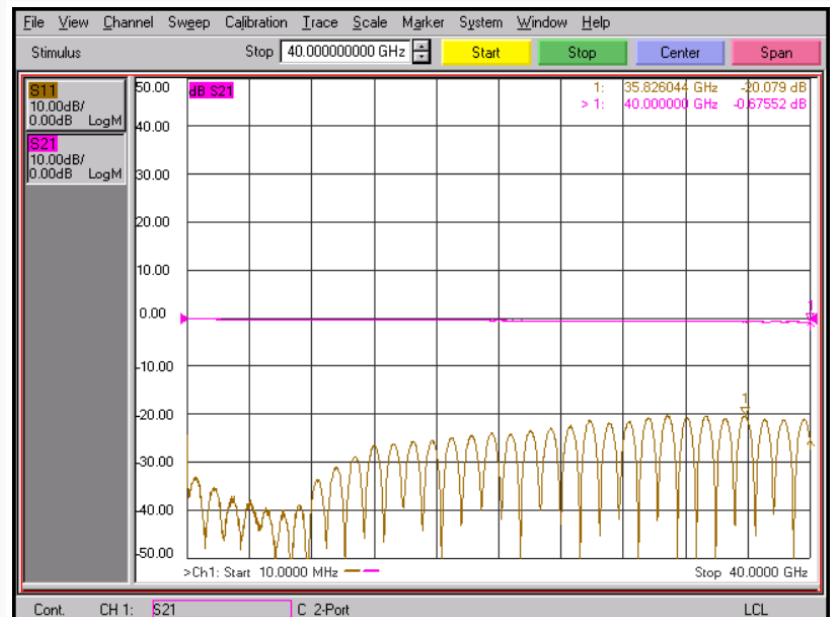
- Frequency : DC to 40 GHz
- Connector : 2.92 mm(Female)
- Cable Length : 0.1 meter



Semi-Flex 085

Part No: MFSF085-KF1KF1-0.1M

- Frequency : DC to 40 GHz
- Connector : 2.92 mm(Female)
- Cable Length : 0.1 meter



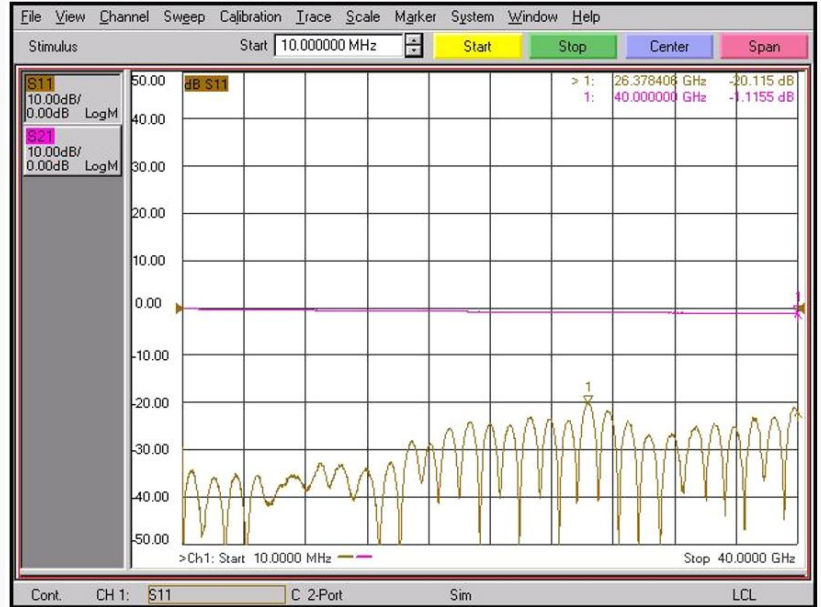
■ Test Results (Semi-Flexible Type)

DC to 40 GHz

Semi-Flex 047

Part No: MFSF047-KM1KM1-0.1M

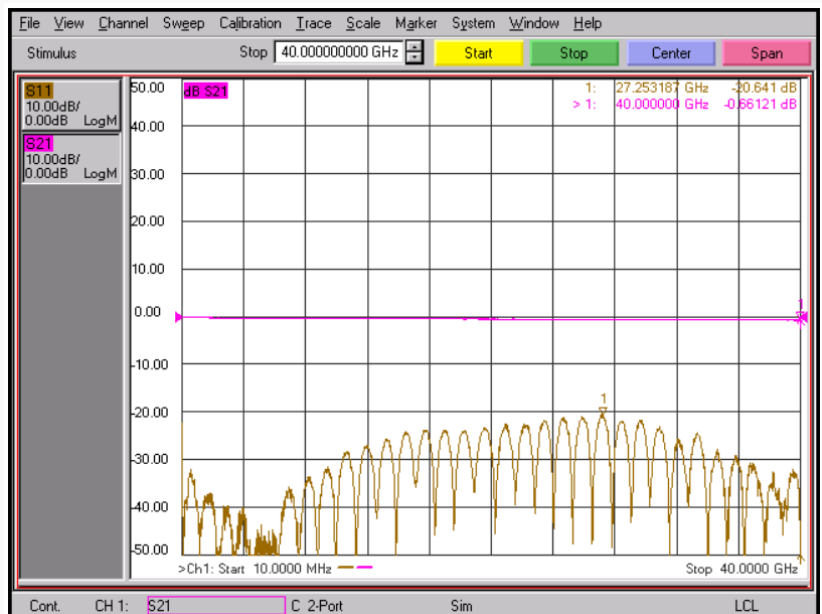
- Frequency : DC to 40 GHz
- Connector : 2.92 mm(Male)
- Cable Length : 0.1 meter



Semi-Flex 085

Part No: MFSF085-KM1KM1-0.1M

- Frequency : DC to 40 GHz
- Connector : 2.92 mm(Male)
- Cable Length : 0.1 meter



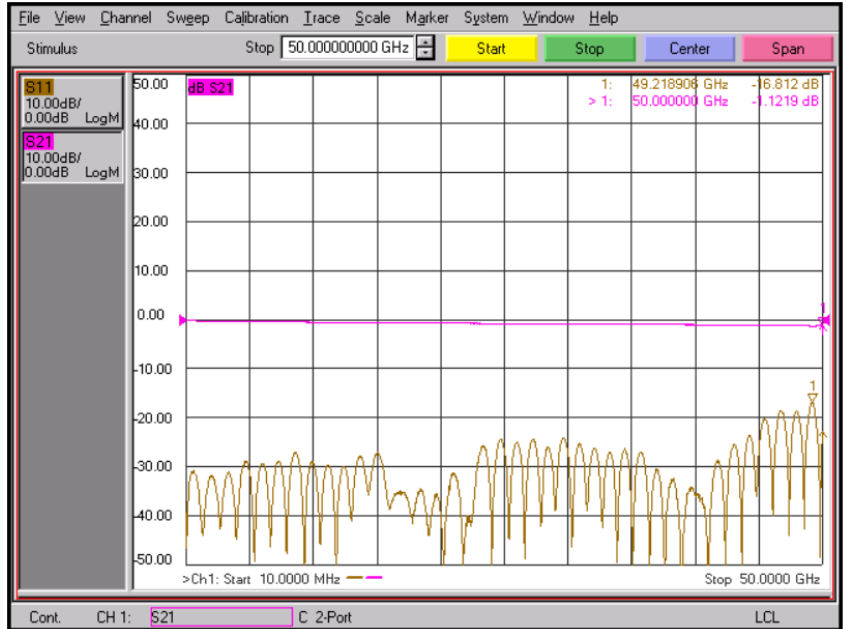
■ Test Results (Semi-Flexible Type)

DC to 50 GHz

Semi-Flex 047

Part No: MFSF047-2F12F1-0.1M

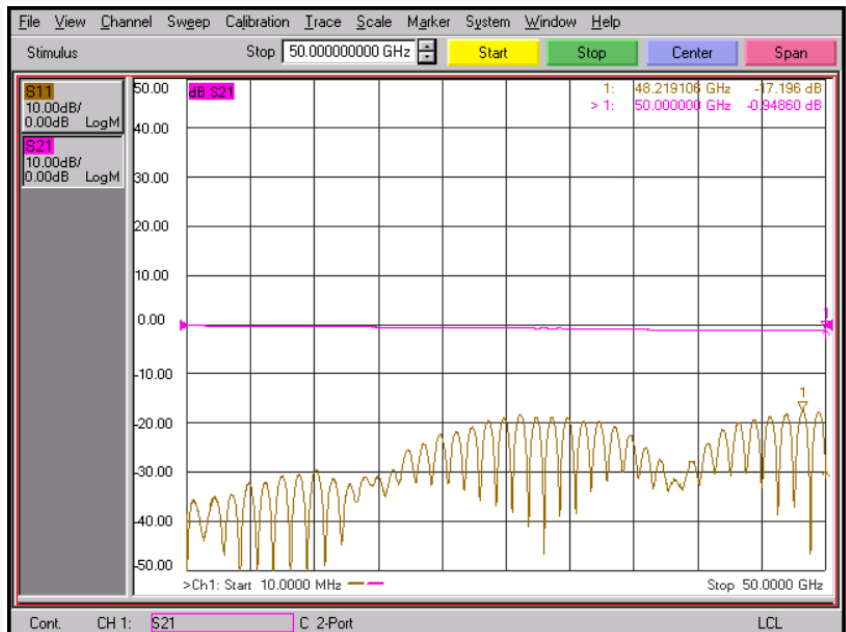
- Frequency : DC to 50 GHz
- Connector : 2.4 mm(Female)
- Cable Length : 0.1 meter



Semi-Flex 085

Part No: MFSF085-2F12F1-0.1M

- Frequency : DC to 50 GHz
- Connector : 2.4 mm(Female)
- Cable Length : 0.1 meter



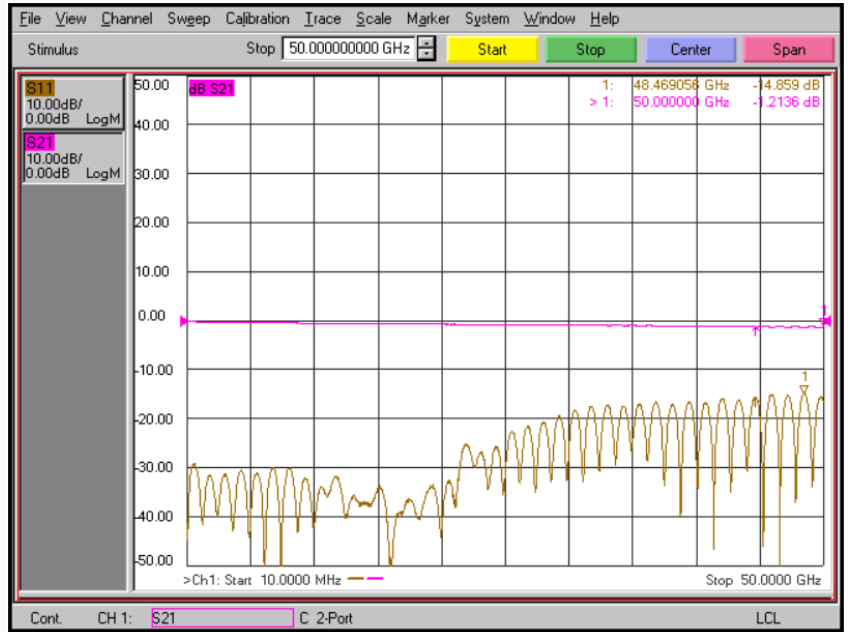
■ Test Results (Semi-Flexible Type)

DC to 50 GHz

Semi-Flex 047

Part No: MFSF047-2M12M1-0.1M

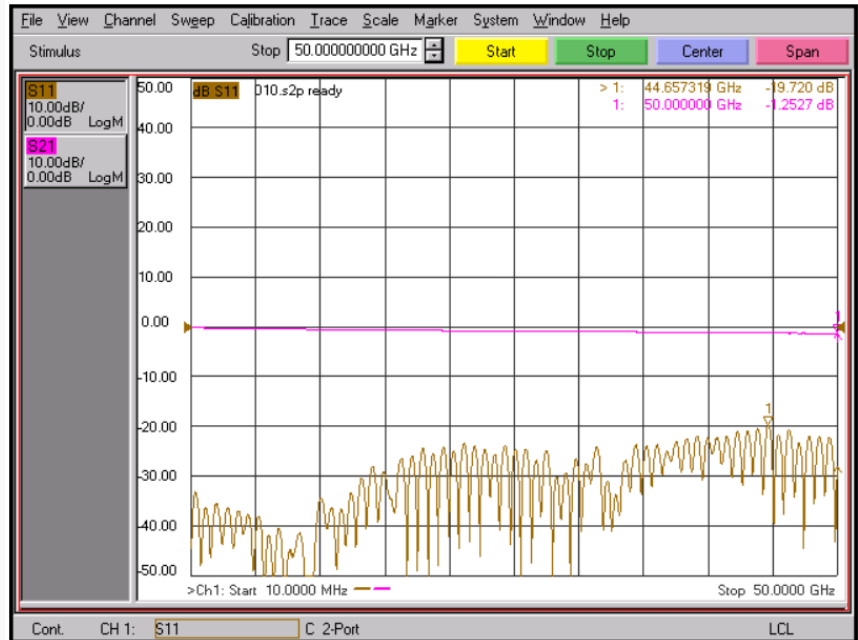
- Frequency : DC to 50 GHz
- Connector : 2.4 mm(Male)
- Cable Length : 0.1 meter



Semi-Flex 085

Part No: MFSF085-2M12M1-0.1M

- Frequency : DC to 50 GHz
- Connector : 2.4 mm(Male)
- Cable Length : 0.1 meter



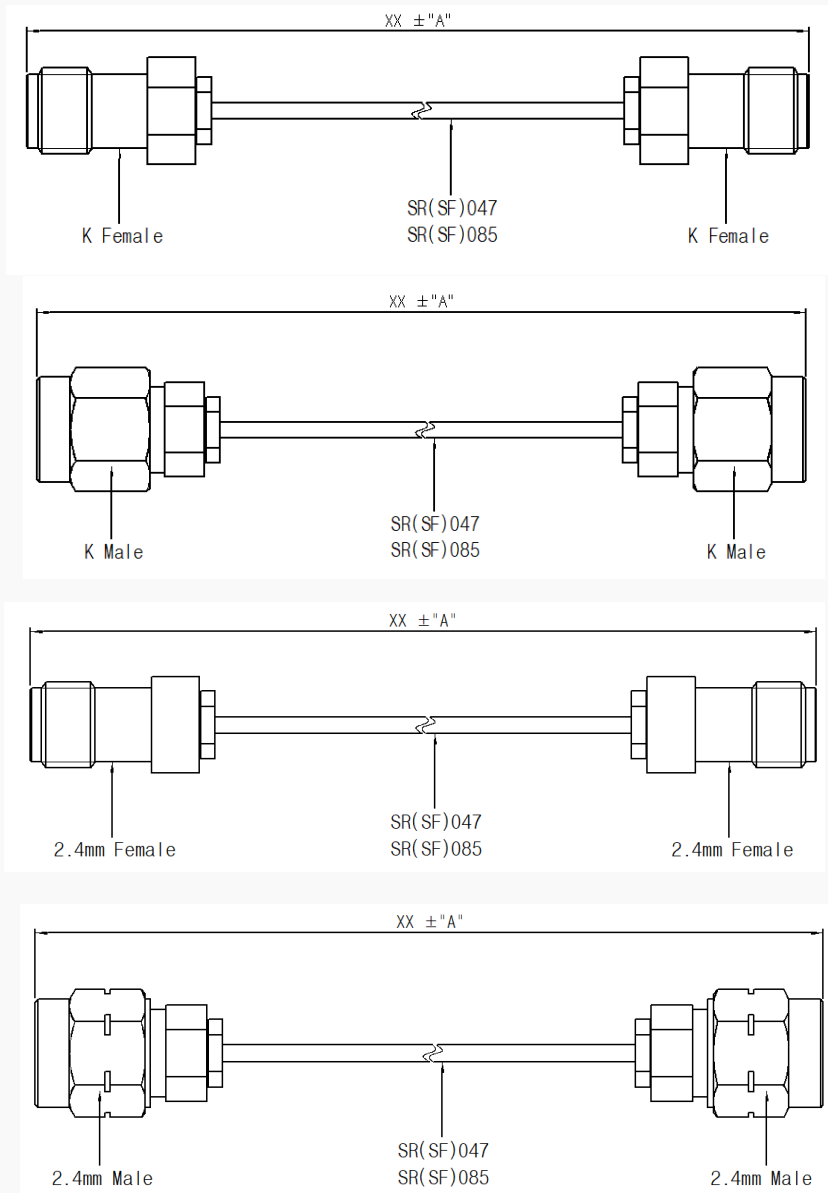
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■ Drawing

Unit : mm



XX (Cable length)	"A" (Tolerance)
0.1M ~ 0.29M	+5.0mm / -0.0
0.3M ~ 0.99M	+15.0mm / -0.0
1.0M ~ 2.99M	+30.0mm / -0.0
3.0M ~ 9.99M	+50.0mm / -0.0
10.0M ~ 100.0M	+100.0mm / -0.0

■ **Selection Guide**

MFSR085 - KF1KF1 - 0.1M

Cable Type

MFSR047
MFSR085
MFSF047
MFSF085

Connector Type

KF1 : 2.92 mm (Female)
KM1: 2.92 mm (Male)
2F1 : 2.4 mm (Female)
2M1: 2.4 mm (Male)

Cable Length

Unit : Meter

