

SMPM Cable Assemblies

Φ.047 Cable types (Flexible, Semi-Rigid, Semi-Flexible)

Withwave offers **SMPM Cable Assemblies** with 0.047” cable diameter (Flexible, Semi-Rigid & Semi-Flexible) for various kinds of interconnection solutions such as High Speed Testing, Surface Mount Interconnection and Telecommunication applications.



■ Features

- DC to 26.5,40,50 & 67 GHz
- Push-On and Snap-On for Quick Installation
- High Speed Interconnection Test
- Available with SMA, 2.92 mm, 2.4 mm & 1.85 mm Connectors (Male, Female type)

■ Application

- Telecommunication
- High Speed Applications
- Surface Mount Connection
- Broadband



■ Cable Specification

Scope	Specification	SR047	SF047	FX047
Physical	Center Conductor (mm)	0.29	0.29	0.29
	Dielectric (mm)	0.92	0.92	0.92
	Jacket (mm)	1.19	1.19	1.53
Electrical	Impedance (Ohm)		50	
	Operation Freq.(GHz)		40	
	Velocity of propagation(%)	69.5		70
	Shielding Effectiveness (dB)	100		90
Mechanical & Environmental	Weight (g/M)	5.7	5.7	7.2
	Operation Temperature	-40~ +125°C		-55~ +125°C

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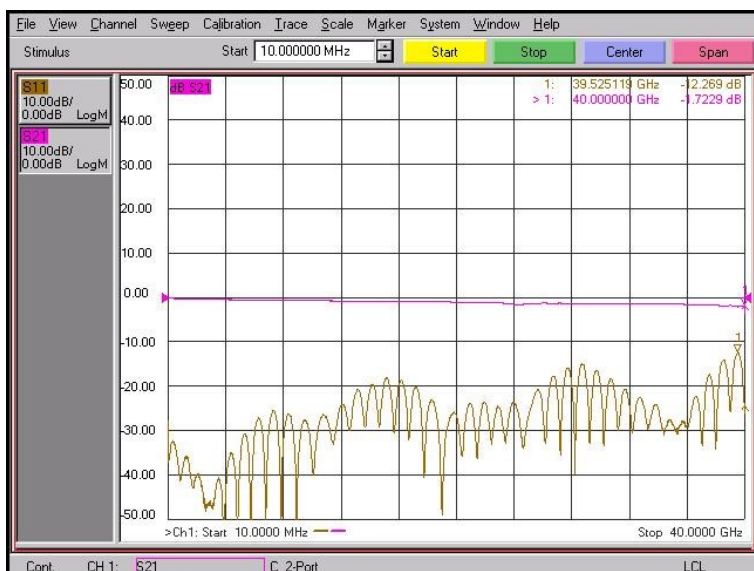
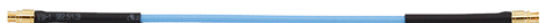
Versatile RF & MW Test Solutions

■ Test Results

Flexible .047

Part No: FX047-PF1PF1-100mm

- Frequency : DC to 40 GHz
- Connector : SMPM(Female)
- Cable Length : 100 mm



Flexible .047

Part No: FX047-PF1KF1-100mm

- Frequency : DC to 40 GHz
- Connector : SMPM(Female)
2.92 mm(Female)
- Cable Length : 100 mm



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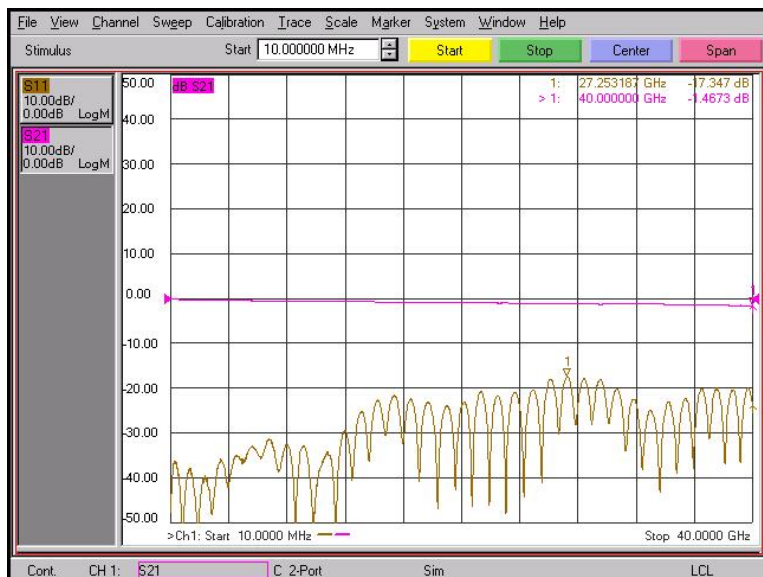
Versatile RF & MW Test Solutions

■ Test Results

Flexible .047

Part No: FX047-PF1KM1-100mm

- Frequency : DC to 40 GHz
- Connector : SMPM(Female)
2.92 mm(Male)
- Cable Length : 100 mm

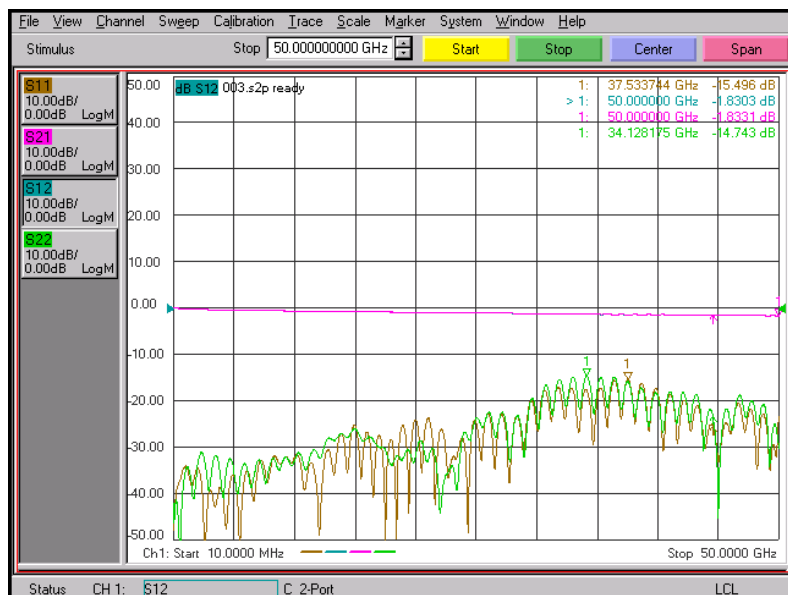


■ Test Results

Flexible .047

Part No: FX047-PF22F1-100mm

- Frequency : DC to 50 GHz
- Connector : SMPM(Female)
2.4 mm(Female)
- Cable Length : 100 mm

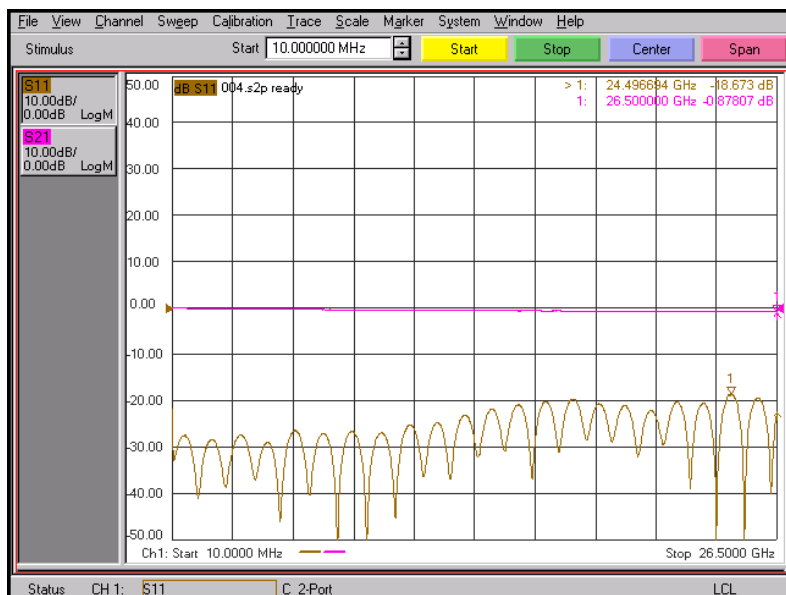


■ Test Results

Semi-Flexible .047

Part No: SF047-PF1SF2-100mm

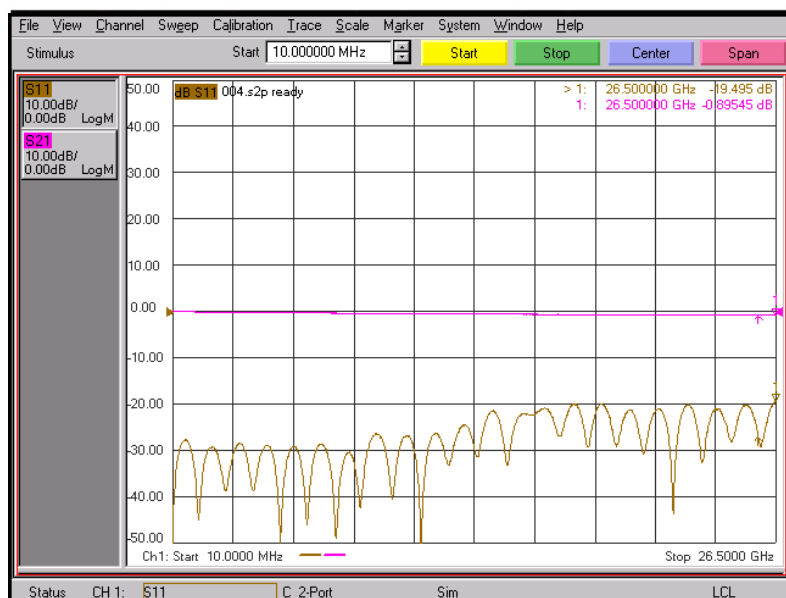
- Frequency : DC to 26.5 GHz
- Connector : SMPM(Female)
SMA(Female)
- Cable Length : 100 mm



Semi-Flexible .047

Part No: SF047-PF1SM2-100mm

- Frequency : DC to 26.5 GHz
- Connector : SMPM(Female)
SMA(Male)
- Cable Length : 100 mm

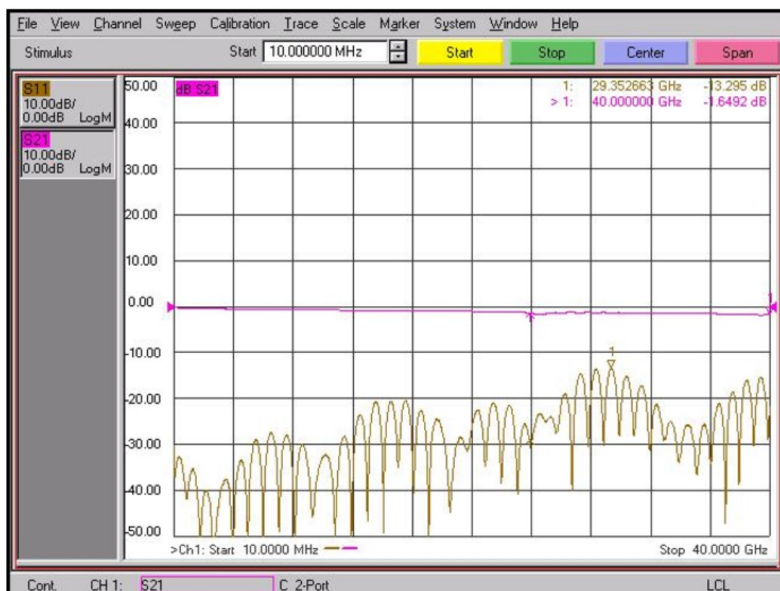


■ Test Results

Semi-Flexible .047

Part No: SF047-PF1PF1-100mm

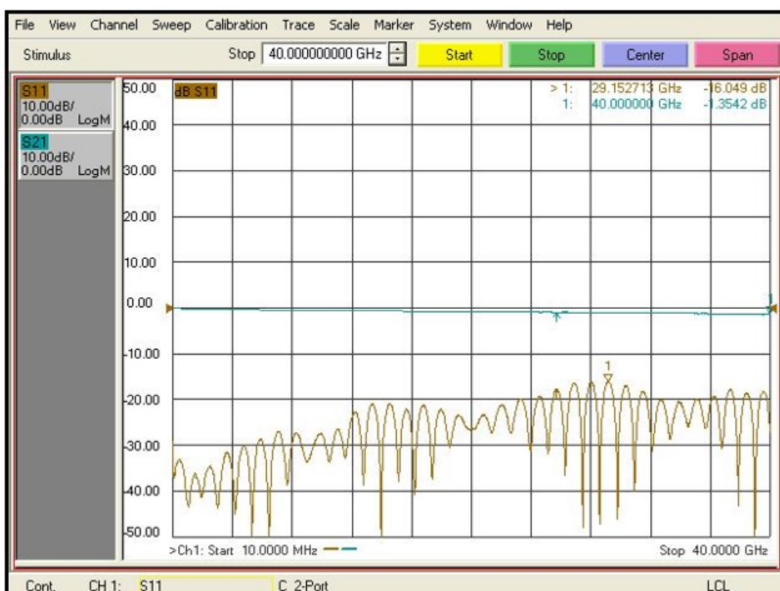
- Frequency : DC to 40 GHz
- Connector : SMPM(Female)
- Cable Length : 100 mm



Semi-Flexible .047

Part No: SF047-PF1KF1-100mm

- Frequency : DC to 40 GHz
- Connector : SMPM(Female)
2.92 mm(Female)
- Cable Length : 100 mm

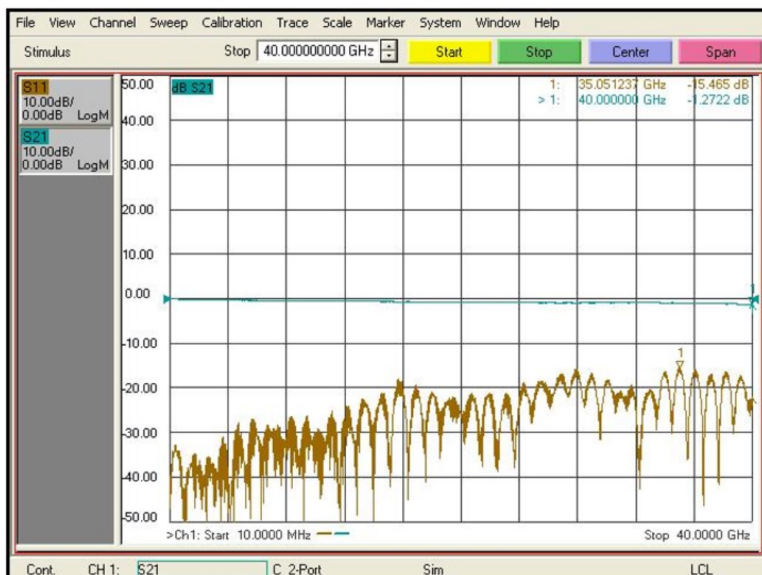


■ Test Results

Semi-Flexible .047

Part No: SF047-PF1KM1-100mm

- Frequency : DC to 40 GHz
- Connector : SMPM(Female)
2.92 mm(Male)
- Cable Length : 100 mm

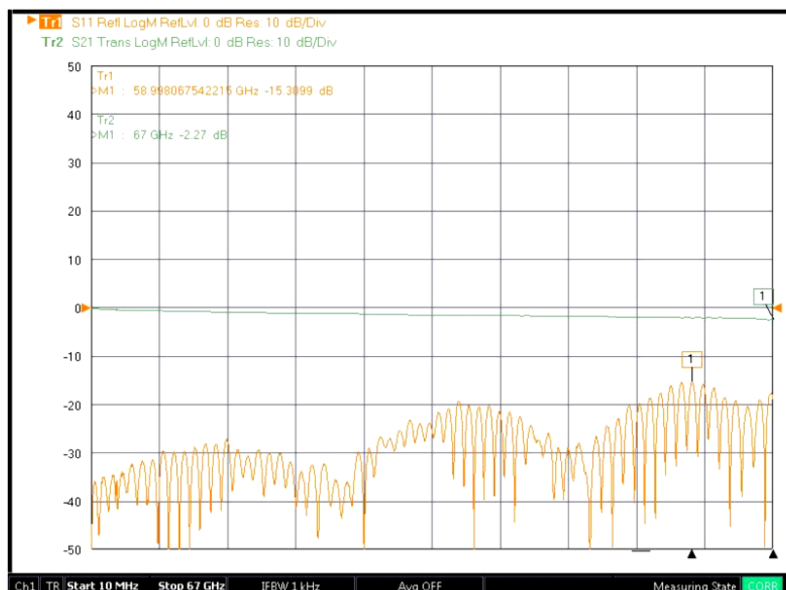


■ Test Results (67 GHz)

Flexible .047

Part No: FX047-PF2PF2-100mm

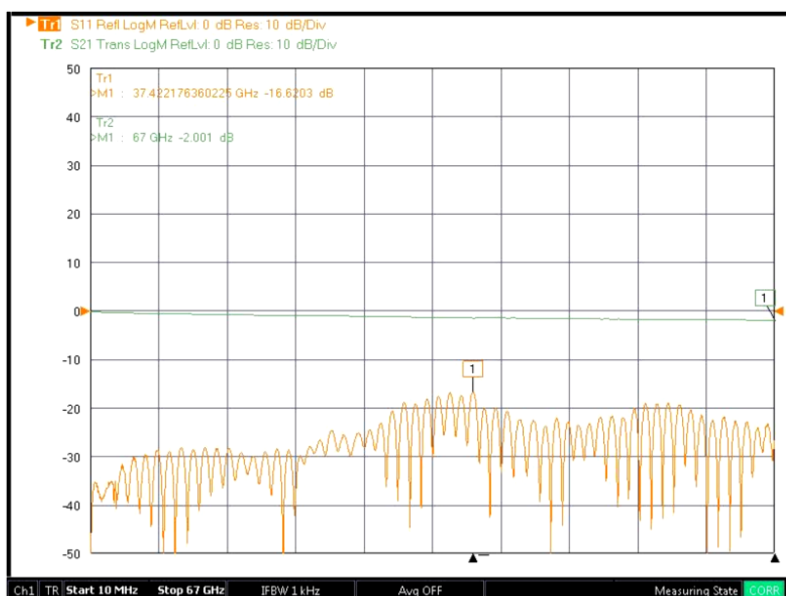
- Frequency : DC to 67 GHz
- Connector : SMPM(Female)
- Cable Length : 100 mm



Flexible .047

Part No: FX047-PF2VM1-100mm

- Frequency : DC to 67 GHz
- Connector : SMPM(Female)
1.85 mm(Female)
- Cable Length : 100 mm

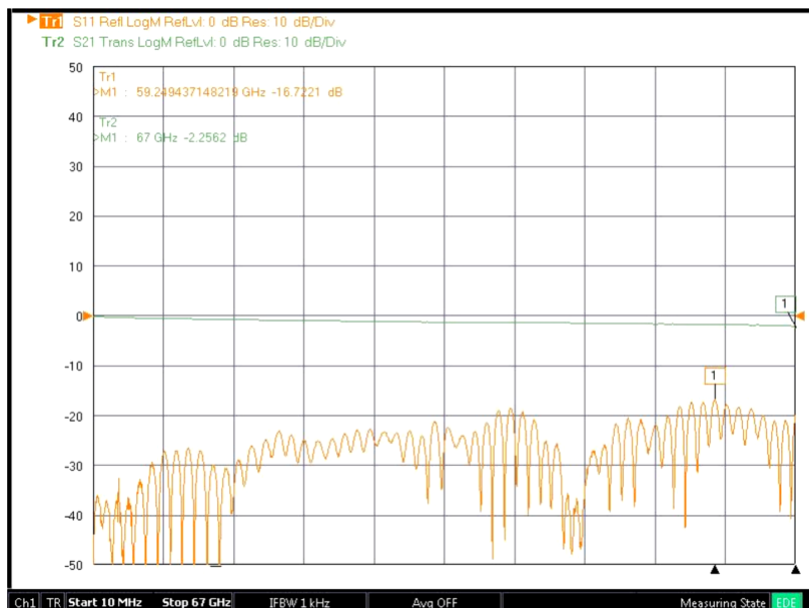


■ Test Results (67 GHz)

Flexible .047

Part No: FX047-PF2VF1-100mm

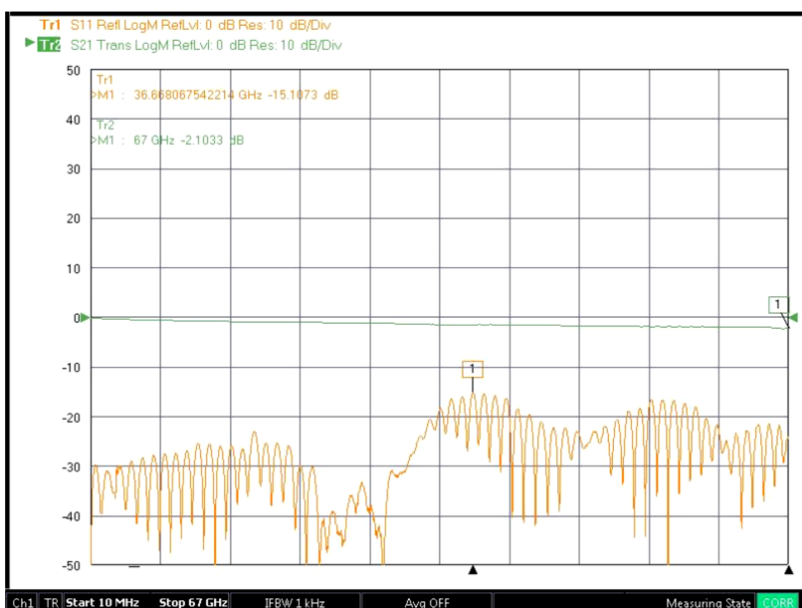
- Frequency : DC to 67 GHz
- Connector : SMPM(Female)
- Cable Length : 100 mm



Semi-Flexible .047

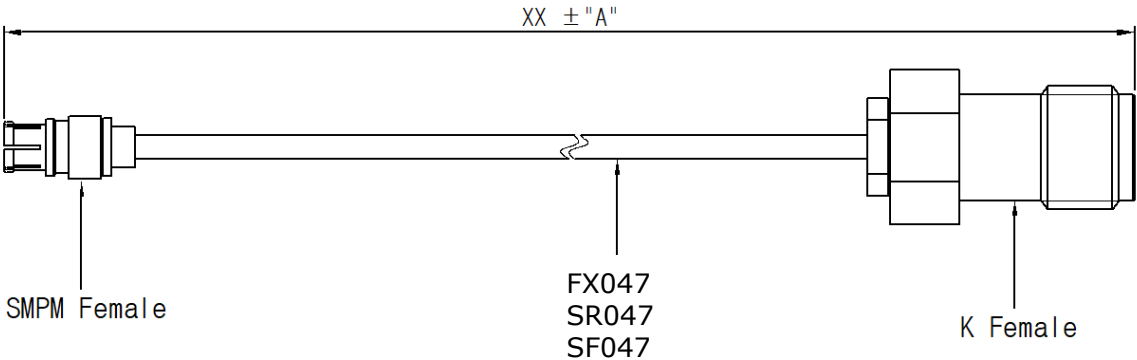
Part No: SF047-PF2PF2-100mm

- Frequency : DC to 67 GHz
- Connector : SMPM(Female)
- Cable Length : 100 mm

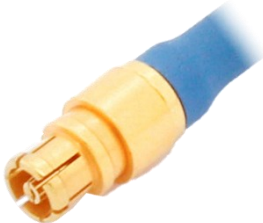


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Drawing



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

FX047 – PF1KF1 – 0.1M

Cable Type

- FX047 : Flexible
- SR047 : Semi-Rigid
- SF047 : Semi-Flexible

Connector Type

- PF1 : SMPM (Female) :40 GHz
- PF2 : SMPM (Female): 67 GHz
- SF2 : SMA(Female)
- SM2 : SMA(Male)
- KF1 : 2.92 mm (Female)
- KM1: 2.92 mm (Male)
- 2F1 : 2.4 mm (Female)
- 2M1: 2.4 mm (Male)
- VF1 : 1.85 mm (Female)
- VM1: 1.85 mm (Male)

Cable Length

Unit : Meter



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■ *Revision History*

Revision	Date	Changes
Ver 1.0	2019-09-01	Released SMPM Cable Assembly
Ver 1.1	2020-07-28	Add 67 GHz types
Ver 1.2	2022-04-29	Add 26.5 GHz types (Semi-Flexible 047 Cable)