

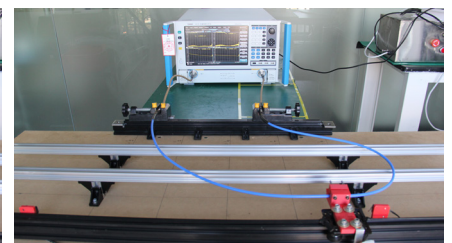
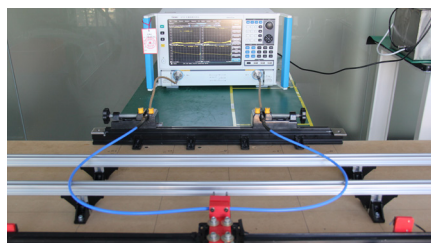
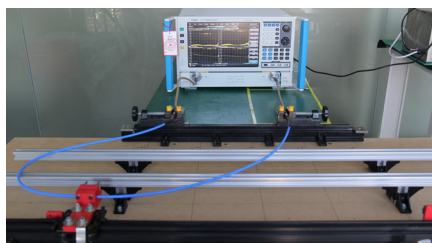
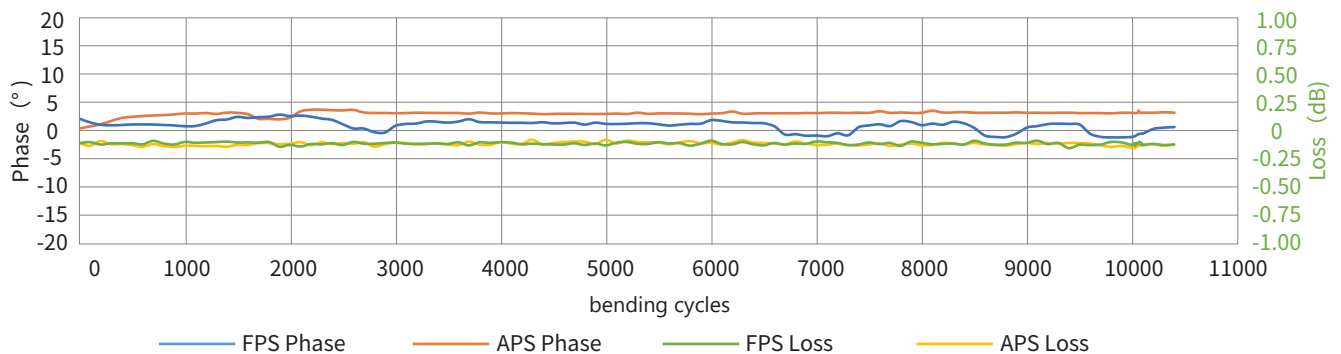
### Typical Applications

- High accuracy probe station
- Millimeter wave test measurement
- Semiconductor R & D and production testing
- Optical module & high-speed digital circuit test
- High-density testing and interconnection

### Features & Benefits

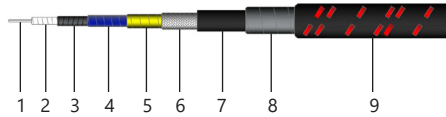
- Low loss and phase stable precision solution
- Highly-reliable performance
- Light weight and flexible configuration
- Operation frequency DC-67GHz
- Armor option available
- RoHS Compliant

### Dynamic Phase Stability



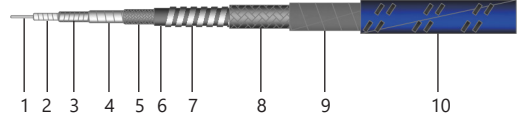
## Construction

### FPS



- |                    |                        |
|--------------------|------------------------|
| 1 Center Conductor | 6 Outer Shield         |
| 2 Dielectric       | 7 Cable Jacket         |
| 3 Outer Conductor  | 8 Shake Layer          |
| 4 Inner Tape       | 9 Braiding( Black-Red) |
| 5 Protective Layer |                        |

### APS



- |                    |                          |
|--------------------|--------------------------|
| 1 Center Conductor | 6 Cable Jacket           |
| 2 Dielectric       | 7 Armor Spring           |
| 3 Outer Conductor  | 8 Anti-twist Layer       |
| 4 Protective Layer | 9 Water Proof Layer      |
| 5 Outer Shield     | 10 Braiding( Blue-Black) |

## Specification

### Physical & Mechanical Specification

	FPS	APS
Armor (mm)	3.15	5.00
Weight (g/m)	20	61
Min bend, one-time (mm)	16	13
Min. Bending R:Repeated (mm)	32	28

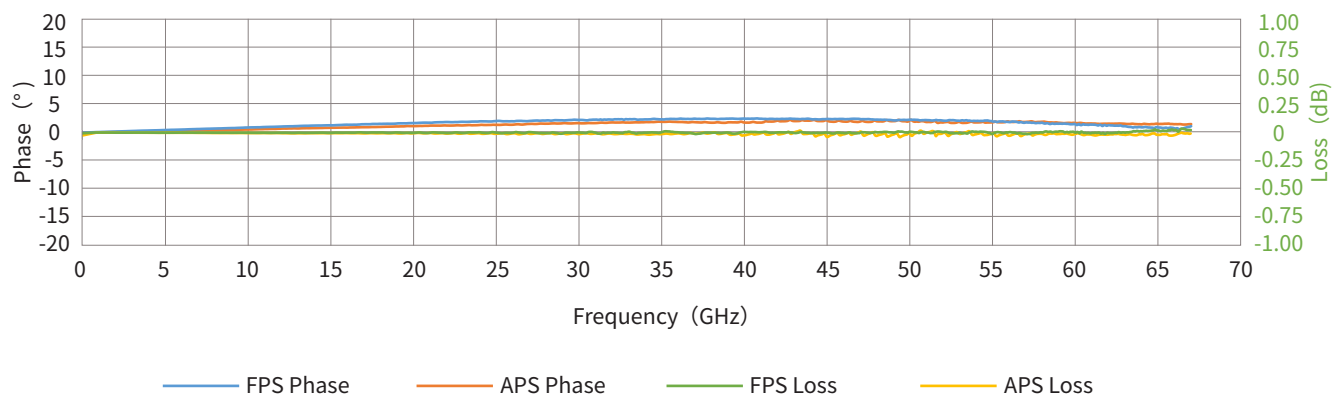
### Electrical Specification

Operation Frequency (GHz)	67			
Typical Phase Stability(° )	±10			
Typical Amplitude Stability(dB)	±0.15		±0.05	
Velocity of Propagation	74%			
Impedance (Ohms)	50			
Typical VSWR	1.3			
Maximum VSWR	1.4			
Shielding Effectiveness (dB)	≥ 90			
Voltage Withstand (DC)	500			
Peak Power(kW)	0.63			
Attenuation & Power Handling	Maximum Attenuation & Average Power Handling			
Frequency(MHz)	dB/m	kW	dB/m	kW
18000	2.877	0.059	2.840	0.060
26500	3.559	0.048	3.503	0.049
40000	4.480	0.038	4.394	0.039
50000	5.085	0.034	4.977	0.034
67000	6.019	0.028	5.873	0.029
Attenuation at Frequency	dB/m=(K1×sqrt(FMHz)+K2×FMHz)/100			
K1	1.9500000		1.9537172	
K2	0.0014500		0.0012174	

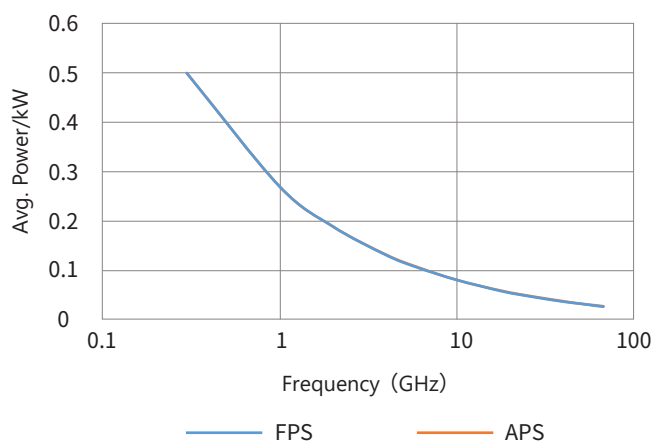
### Environmental Specification

Operating Temp Range	-55°C ~125°C
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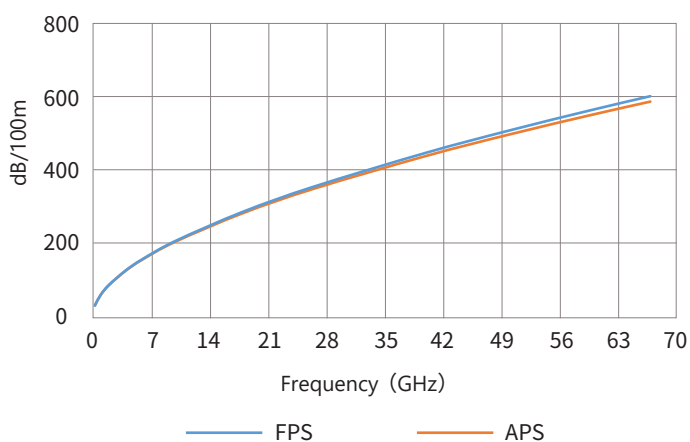
## Static Phase Stability Rotate 180° along the minimum repeated bending diameter



## Power handling & Attenuation

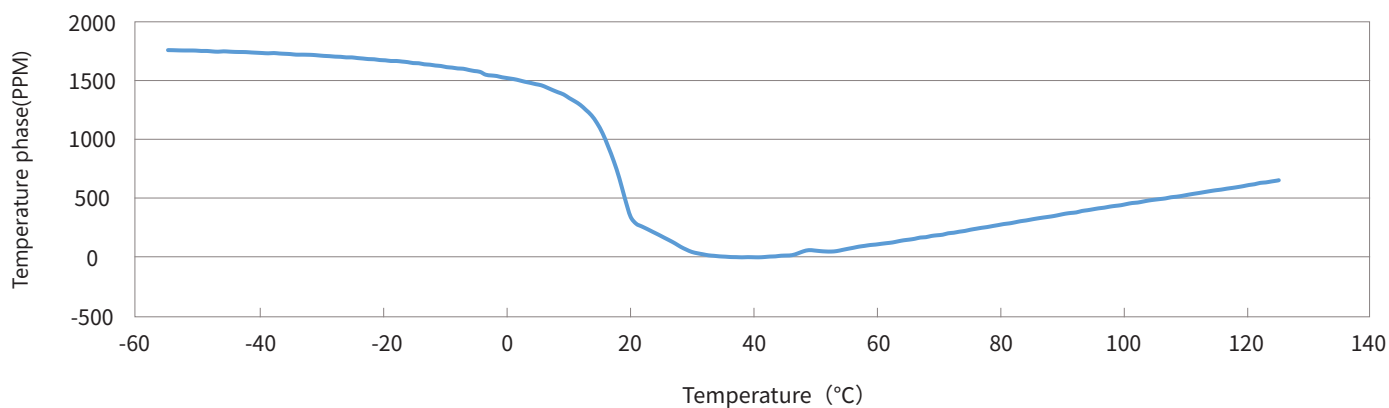


Note: nominal values at +25° C ambient temperature.



Note: average value at +40° C ambient temperature and sea level.

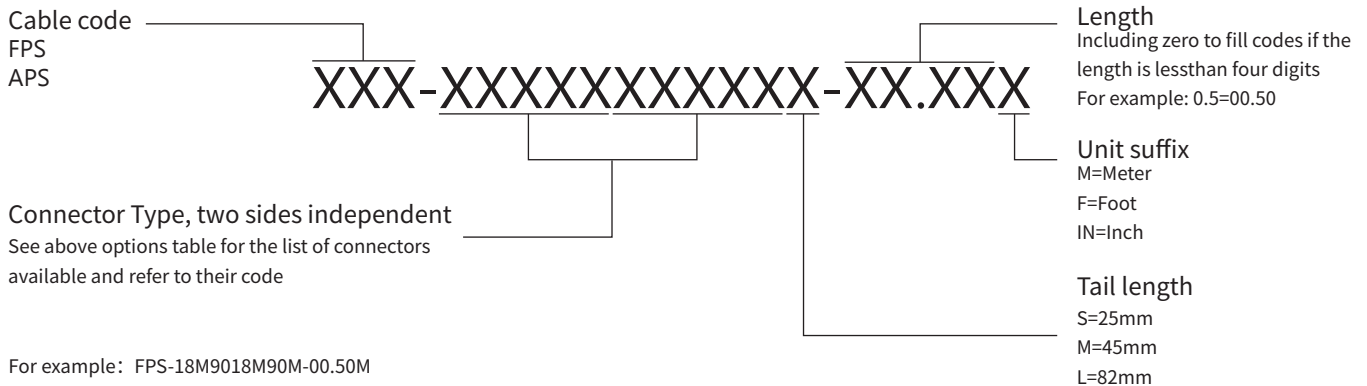
## Phase change with Temp



## Connectors Options

Type	Description	Code	FPS	APS	Operation Frequency (GHz)	Maximum VSWR
1.85mm	male straight	18M	●	●	67	1.35
	male 90°	18M90	●	●	67	1.40
	male 83°	VM83	●	●	67	1.40
	female	VF	●	●	67	1.35
2.4 mm	male straight	24M	●	●	50	1.30
	male 90°	24M90	●	●	50	1.35
	male 83°	24M83	●	●	50	1.35
	female	24F	●	●	50	1.30
2.92 mm	male straight	29M	●	●	40	1.25
	male 90°	29M90	●	●	40	1.30
	male 83°	29M83	●	●	40	1.30
	female	29F	●	●	40	1.25
3.5 mm	male straight	35M	●	●	26.5	1.20
	male 90°	35M90	●	●	26.5	1.25
	male 83°	35M83	●	●	26.5	1.25
	female	35F	●	●	26.5	1.20

## Ordering Information



## Contact us



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