

# VIAMVINA TECHNOLOGY COMPANY LIMITED

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**Hotline** : 0969 095 867

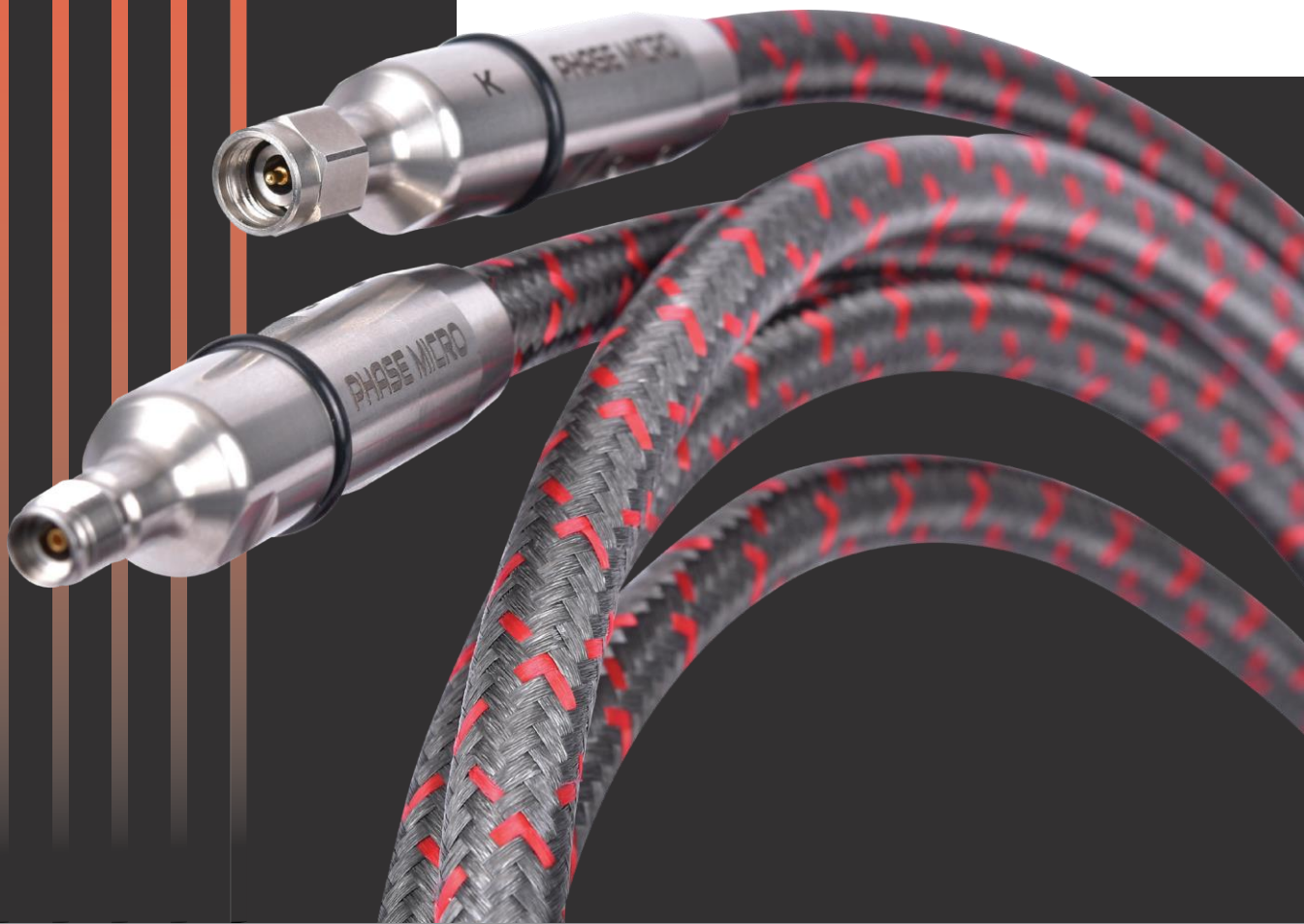
**Mail** : sales@viamvina.com.vn

**OSI** MICROWAVE  
TECHNOLOGY

## PHASE MICRO<sup>®</sup> TEST CORE<sup>®</sup>

Microwave Test Cable Assemblies  
Coaxial Adapters covering up to 67GHz

Lower Loss, Superior Stability  
[www.osinter.com](http://www.osinter.com)



## PHASE MICRO®

### MICROWAVE TEST CABLE ASSEMBLIES

PHASE MICRO is designed to offer a precision test & measurement solution where in application requires lower loss, reliability and electrical stability are key factors. Longer life time with consistency of measurement, which results in more return in total cost of ownership, most of users indicate.

Excellent electrical performance comes from Phase Micro's unique cable construction with 2.92mm, 2.4mm and 1.85mm interfaces.

Application: Thermal Vacuum Chamber test, Phase Array Antenna Gain measurement test and Shielded Chamber and etc.

#### Advantage of PHASE MICRO®



Ruggedized cable construction maximizes physical protection where crushing, compression, kinking and repeatable flex cycles are frequently required.

Guaranteed dependable electrical stability.

Lower insertion loss and VSWR guarantee dependable performance.

Enhanced Delay and Phase stability in frequent flexures and lower PPM over broad range of temperature offer precision test & measurement.

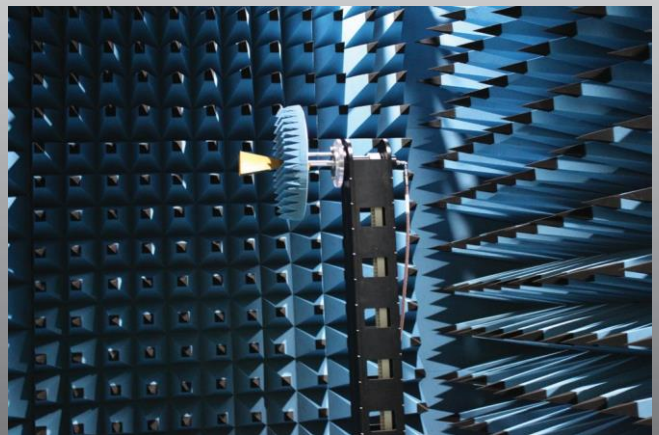
Enhanced Amplitude Stability in insertion loss provides even longer calibration interval.

#### Your Guaranteed Quality

All **PHASE MICRO** test cable assemblies are fully tested in the quality program.

**OSI** offers a warranty program within range of warranty policy for guaranteed quality.

**ROHS** compliant.



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## PHASE MICRO® covers up to 67GHz

Specification	DC ~ 67GHz	DC ~ 50GHz	DC ~ 40GHz
	E10	E13M	E14M
Minimum Insertion Loss	-5.7dB / meter	-3.7dB / meter	-2.6dB / meter
VSWR(Typical)	1.35:1	1.30:1	1.30:1
Phase Stability VS Temperature	10°	8°	6°
Phase Stability VS Flexure	±6°	±4°	±3°
Insertion Loss Stability VS Flexure	Below -0.3dB	Below -0.2dB	Below -0.05dB
Minimum Bending Radius	25mm		
Shielding Effectiveness (18GHz)	< -100dB		
Temperature Range (°C)	-40° ~ +110°		
Crush Resistance (Kg-F/cm)	41.2		
Jacket Size	Ø9mm Stainless Steel 303 Armor with PTFE Braided		

※ Data sheet for further technical information is available upon request.

### Available Connector Interface Table

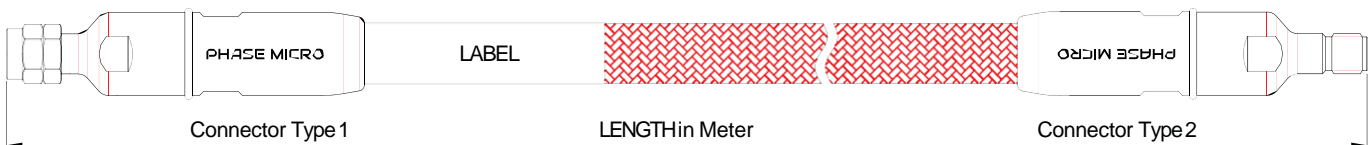
CABLE TYPE	1.85mm Male	2.4mm Male	2.4mm Female	2.92mm Male	2.92mm Female
E10 (DC-67GHz)	VM	-	-	-	-
PHASEMICRO E13M (DC-50GHz)	-	2M	2F	-	-
E14M (DC-40GHz)	-	2M	2F	KM	KF

※ Each cell shows connector part number.

※ The Insert Loss does not include connector loss.

### How to build your PHASE MICRO® test cable assemblies?

1. Start designate with PHASE MICRO as 'P35'
2. Select cable type per your test frequency range.
3. Choose connector type and gender for both ends.
4. Specify length in meter.



#### Example

**P35 E14M - 2M - KF - 1.0M**

Cable Type      Connector Type1      Connector Type2      Length



40GHz PHASE MICRO Test Cable Assembly with 2.4mm Male to 2.92mm Female in 1.0 meter Long

## PHASE MICRO<sup>®</sup> Lite

### MICROWAVE TEST CABLE ASSEMBLIES

PHASE MICRO Lite is designed to offer a precision test & measurement economical solution where in flexibility and electrical stability are key factors.

Maximized flexibility will provide enhanced productivity in manufacturing environment either in engineering lab.

Attractive electrical performance comes from Phase Micro Lite's unique cable construction with SMA, N, 2.92mm, 2.4mm interfaces.

#### Advantage of PHASE MICRO<sup>®</sup> Lite



PTFE yarn braided TPU double jacket construction provides physical protection with maximized flexibility where repeatable flexure cycles are frequently required.

Dependable electrical stability.

Increased phase stability in frequent flexure cycles offer precision test & measurement.

Enhanced productivity comes from flexibility and slimmer construction will meet multi port requirements.

#### Your Guaranteed Quality

All **PHASE MICRO Lite** test cable assemblies are fully tested in the quality program.

**OSI** offers a warranty program within range of warranty policy for guaranteed quality.

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## PHASE MICRO® Lite covers up to 50GHz

Specification	DC ~ 50GHz	DC ~ 40GHz	DC ~ 26.5GHz
	LH13D	LH16D	LH21D
Minimum Insertion Loss	-3.8dB / meter	-2.9dB / meter	-1.7dB / meter
VSWR(Typical)	1.30:1	1.25:1	1.25:1
Phase Stability VS Temperature	10°	8°	6°
Phase Stability VS Flexure	±5°	±4°	±2°
Insertion Loss Stability VS Flexure	20mm	20mm	20mm
Minimum Bending Radius	Ø4.5	Ø5.5	Ø7.0
Shielding Effectiveness (18GHz)		< -90dB	
Temperature Range (°C)		-40° ~ +85°	

※ Data sheet for further technical information is available upon request.

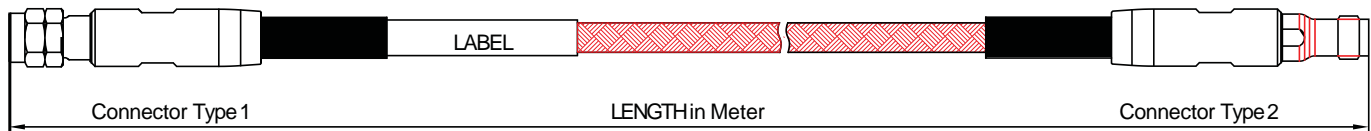
### Available Connector Interface Table

CABLETYPE	2.4mm Male	2.4mm Female	2.92mm Male	2.92mm Female	SMA Male	SMA Female	N Male	N Female
LH13D (DC~50GHz)	2M	2F	-	-	-	-	-	-
LH16D (DC~40GHz)	2M	2F	KM	KF	SM	SF	-	-
LH21D (DC~26.5GHz)	-	-	-	-	SM	SF	NM	NF

※ Each cell shows connector part number.

### How to build your PHASE MICRO® Lite test cable assemblies?

1. Start designate with PHASE MICRO Lite as 'P'
2. Select cable type per your test frequency range.
3. Choose connector type with gender for both ends.
4. Specify length in meter.



#### Example

**P LH13D - 2M - 2F - 2.0M**

Cable Type      Connector Type1      Connector Type2      Length



50GHz PHASE MICRO Lite Test Cable Assembly with 2.4mm Male to 2.4mm Female in 2.0 meter Long

## TEST CORE®

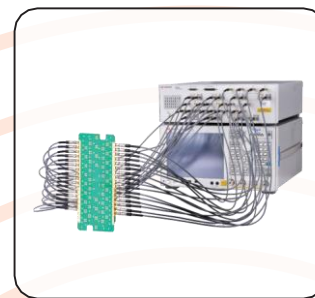
### MICROWAVE TEST CABLE ASSEMBLIES

TEST CORE is designed to offer a precision test & measurement where in tighter space constraint and electrical stability are key factors. Maximized electrical performance will provide enhanced productivity in manufacturing test environment and RF System integration.

Specification	DC ~ 67GHz	DC ~ 40GHz
	E10	E14
Minimum Insertion Loss	-5.7dB / meter	-2.9dB / meter
Max VSWR (Typical)	1.35:1	1.25:1
Phase Stability VS Flexure	±6°	±3°
Velocity of Propagation	80%	83%
Insertion Loss Stability VS Flexure	Below -0.3dB	Below -0.2dB
Minimum Bending Radius	20mm	20mm
Jacket Size	FEP Ø2.4	FEP Ø3.8
Shielding Effectiveness (18GHz)		
Temperature Range (°C)		-40° ~

#### Available Connector Interface Table

CABLE TYPE	1.85mm Male	2.4mm Male	2.4mm Female	2.92mm Male	2.92mm Female
E10 (DC~50GHz)	VM	-	-	-	-
E14 (DC~40GHz)	-	2M	2F	KM	KF
E20 (DC~26.5GHz)	-	-	-	-	-
E31 (DC~18GHz)	-	-	-	-	-
LH18 (DC~8.5GHz)	-	-	-	-	-
LH14 (DC~8.5GHz)	-	-	-	-	-



### Your Guaranteed Quality

All **TEST CORE** cable assemblies are fully tested in the quality program. **OSI** offers a warranty program within range of warranty policy for guaranteed quality. **ROHS** compliant.

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## TEST CORE® covers up to 67GHz

Various of TEST CORE cable assembly interfaces are available with SMA, N, 3.5, 2.92mm, 2.4mm, 1.85mm connections. Right Angle connections are available up to 18GHz. Contact sales for further details.

DC ~ 26.5GHz	DC ~ 18GHz	DC ~ 8.5GHz	DC ~ 8.5GHz
<b>E20</b>	<b>E31</b>	<b>LH18</b>	<b>LH14</b>
-1.6dB / meter	-0.7dB / meter	Minimum Insertion Loss	Minimum Insertion Loss
1.25	1.25:1	1.25:1	1.25:1
±3°	±2°	±2°	±2°
83%	83%	77%	77%
Below -0.2dB	Below -0.1dB	Below -0.2dB	Below -0.2dB
25mm	25mm	25mm	20mm
FEPØ4.7	FEPØ8.0	TPUØ6.0 (Very Flexible)	TPUØ5.0 (Very Flexible)
< -90dB		-40° ~ +85°	
+110°			

※ Data sheet for further technical information is available upon request.

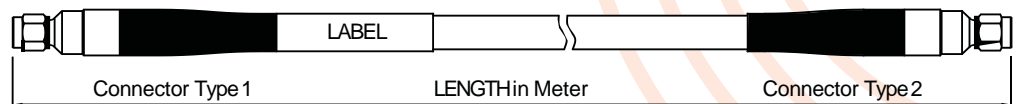
※ The Insert Loss does not include connector loss.

3.5mm Male	3.5mm Female	SMA Male	SMA Female	N Male	N Female
-	-	-	-	-	-
-	-	-	-	-	-
3M	3F	-	-	NM	NF
-	-	SM	SF	NM	-
-	-	SM	SF	NM	-
-	-	SM	-	NM	-

※ Each cell shows connector part number.

### How to build your TEST CORE® test cable assemblies?

1. Start designate with TEST CORE as 'TC'
2. Select cable type per your test frequency range.
3. Choose connector type with gender for both ends.
4. Specify length in meter.



#### Example

**TC E31 - SM - SM - 1.0M**

Cable Type      Connector Type1      Connector Type2      Length



18GHz TEST CORE Cable Assembly with SMA male to SMA male in 1.0 meter Long

# COAXIAL ADAPTERS

## MICROWAVE TEST COAXIAL ADAPTERS

OSI's Microwave Test Coaxial Adapters are designed to offer a precision test & measurement where in adaption change requires with lower loss and VSWR.

Frequency	Max VSWR	1.85mm Male	1.85mm Female	2.4mm Male	2.4mm Female	2.92mm Male
DC~67GHz	1.30	VM	VF	-	-	-
DC~50GHz	1.25	VM	VF	2M	2F	-
DC~40GHz	1.25	VM	VF	2M	2F	KM
DC~26.5GHz	1.25	-	-	-	-	KM
DC~18GHz	1.25	-	-	-	-	KM

- ※ Each cell shows connector part number.
- ※ Drawings for each adapter are available upon request.



## Your Guaranteed Quality

All **Coaxial Adapters** are manufactured and fully tested in the quality program.  
**OSI** offers a warranty program within range of warranty policy for guaranteed quality. **ROHS** compliant.



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## COAXIAL ADAPTERS covers up to 67GHz

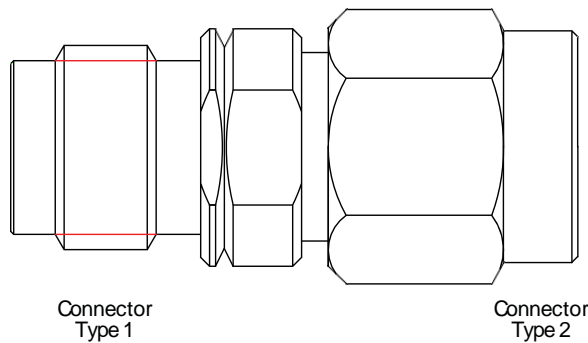
Various of other adapter type is available for different application and requirement.

Interface type and gender

2.92mm Female	3.5mm Male	3.5mm Female	SMA Male	SMA Female	N Male	N Female
-	-	-	-	-	-	-
-	-	-	-	-	-	-
KF	3M	3F	-	-	NM	NF
KF	-	-	SM	SF	NM	NF
KF	-	-	SM	SF	NM	NF

### How to build your OSI's Microwave COAXIAL TEST ADAPTER?

1. Start designate with Adapter as 'ADP'
2. Select test frequency range.
3. Choose connector type with gender for both ends.



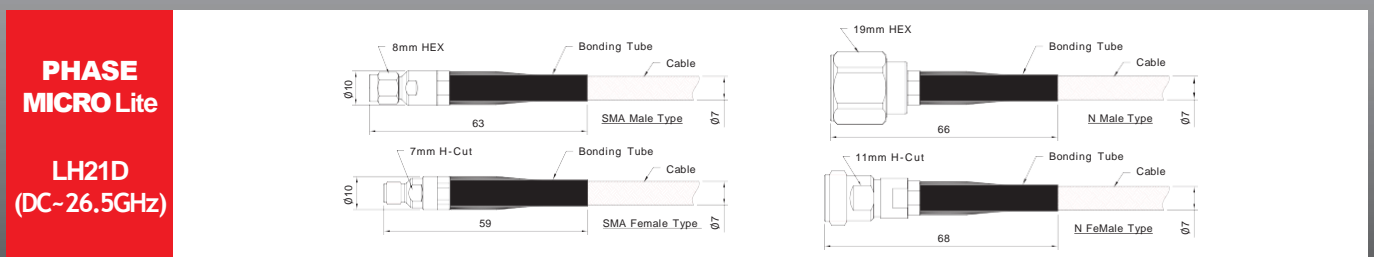
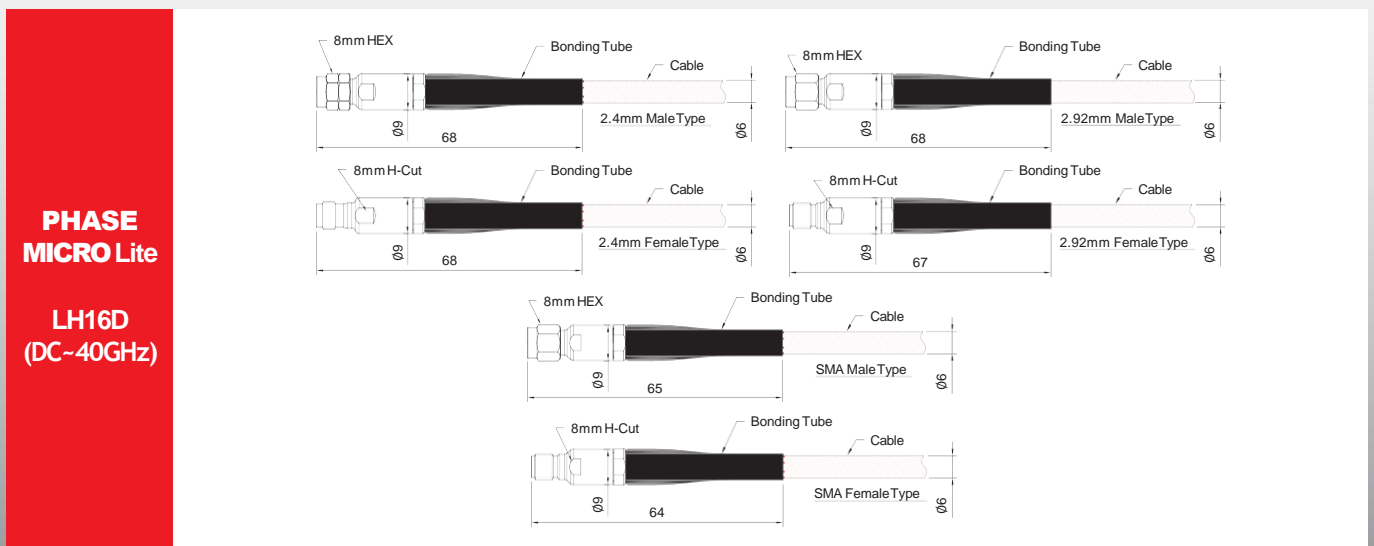
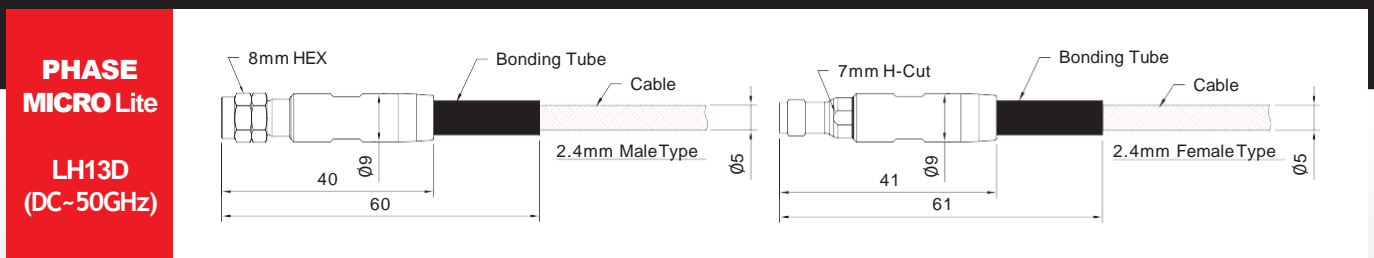
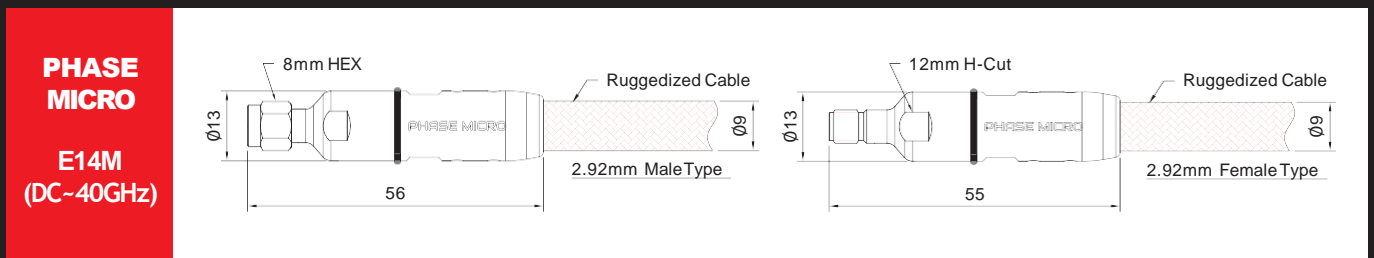
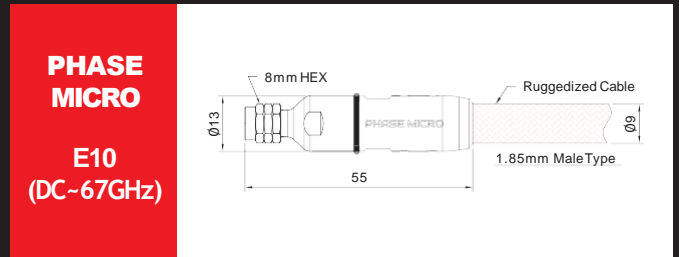
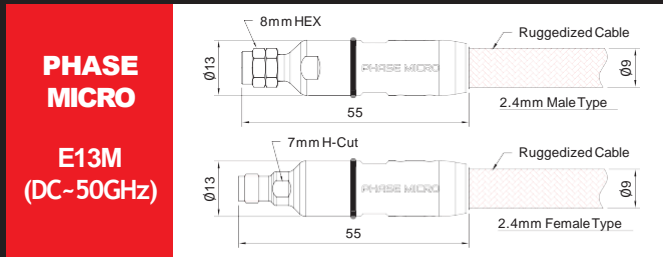
Example

**ADP - 2F - KM**  
 Connector Type1    Connector Type2



40GHz Adapter with 2.4mm Female to 2.92mm Male.

## REFERENCE CABLE ASSEMBLY DIMENSION



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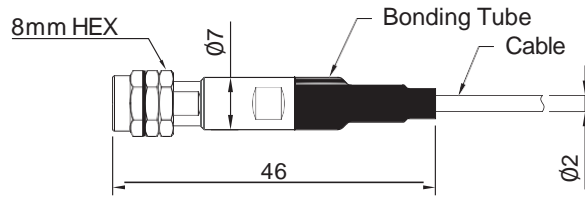
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## MICROWAVE TEST CABLE ASSEMBLIES covering up to 67GHz

### TEST CORE

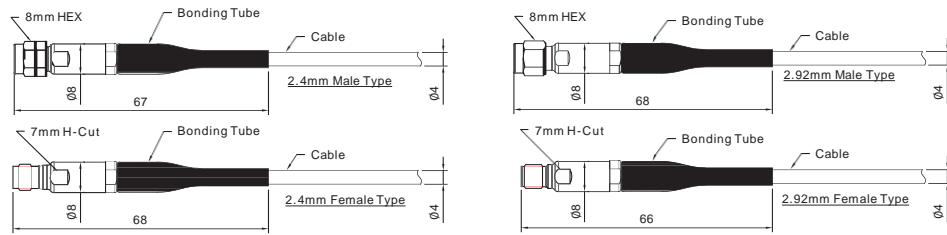
E10  
(DC-67GHz)



'Note:  
Design and Dimensions are  
subject to change.'

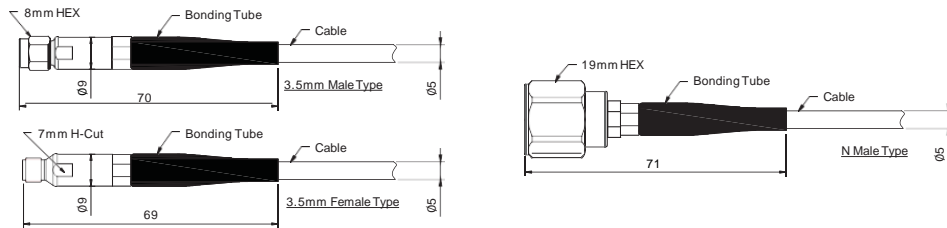
### TEST CORE

E14  
(DC-40GHz)



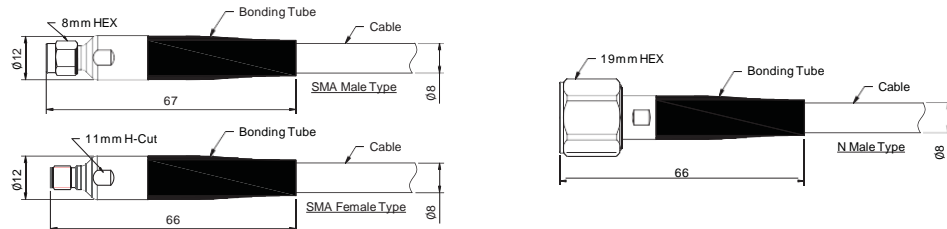
### TEST CORE

E20  
(DC-26.5GHz)



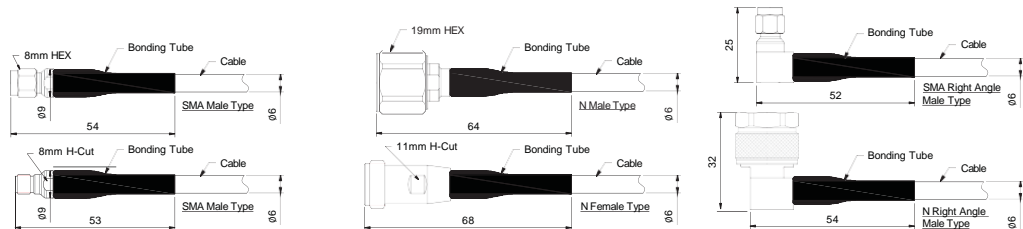
### TEST CORE

E31  
(DC-18GHz)



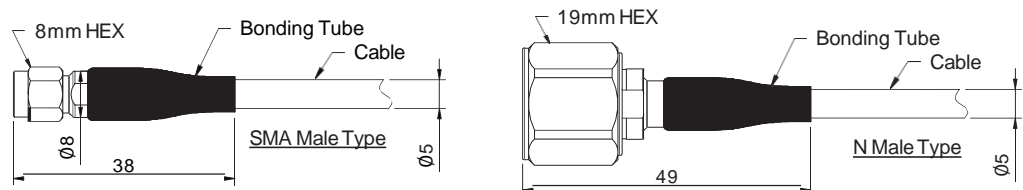
### TEST CORE

LH18  
(DC-8.5GHz)



### TEST CORE

LH14  
(DC-8.5GHz)



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## OSI MICROWAVE TECHNOLOGY

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