

# Connector Gage Kits



## Function

This device is used to measure whether the size of inner conductor and outer conductor interface of RF coaxial connectors meet the standard.

In the connector standards, there are detail data for the connectors interface size to ensure the commonality and electrical performance. Significant reduction of electrical performance and even damage to the connectors could be caused if the interface size is beyond tolerance.

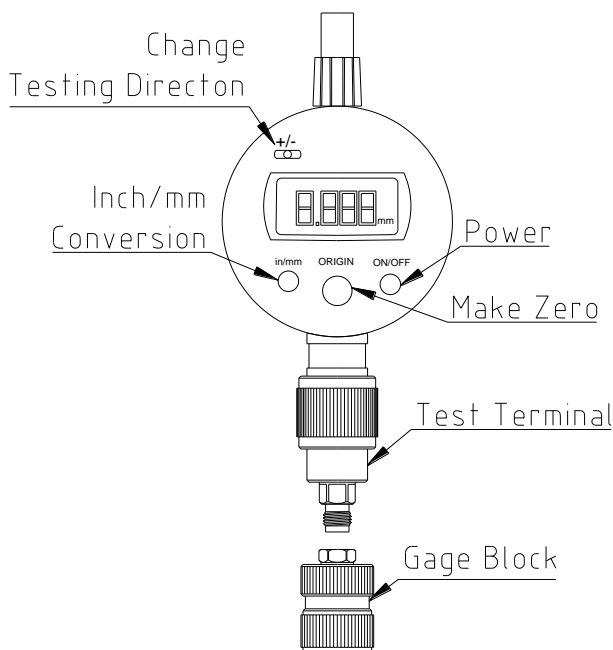
In this case, it is necessary to measure the interface size of the connector. This product can be used to solve the problem of interface measurement.

## Feature

- ◆ Easy to Use, Accurate
- ◆ Direct Reading
- ◆ Digital Indicator Styles
- ◆ Available for Most Coaxial Connectors

## Usage

Each kit includes at least one connector gage with the master gage block. Gage block is used to adjust the digital indicators to zero before checking the critical mechanical dimensions of your connectors.



P/N	Connector Type
MDK-65D	Type N
MDK-66D	3.5mm/2.92mm
MDK-68D	2.4mm/1.85mm

- Turn on on-off button
- Connect with gage block
- Push "ORIGIN" button return to zero
- Remove gage block then you could start testing.

*One button cell (SR44) could last about 20,000 hours*

# MDK-65D

## Type N Connector Gage Kits

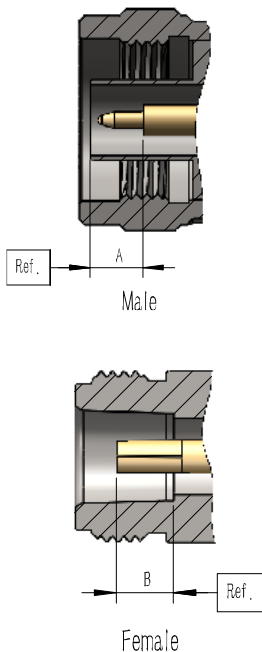
P/N	Indicator	Range	Resolution	Precision	Gage Repeatability
MDK-65D	Digital Style mm/inch	$(5.26) \pm 0.7\text{mm}$ $(0.207") \pm 0.0276"$	0.001mm 0.00005"	0.003mm 0.00012"	0.002mm 0.00008"



### • Component List

MDK-65D		
MDK-651D	Digital Connector Gage	Type N Male
MDK-650D	Digital Connector Gage	Type N Female
B19T135	Torque Wrench	Open Size 19mm Coupling Torque 1.35Nm
HW01C7	Box	Wood Box

### Interface Size



Standard	A ( mm / inch )		B ( mm / inch )	
	Minimum	Maximum	Minimum	Maximum
IEC 61169-16 Grade 2	5.33/0.210"	—	4.75/0.187"	5.26/0.207"
IEC 61169-16 Grade 0	5.28/0.208"	5.36/0.211"	5.18/0.204"	5.26/0.207"
MIL-STD-348A Figure 304	5.33/0.210"	—	4.75/0.187"	5.26/0.207"
MIL-STD-348A Figure 402 test conn.	5.28/0.208"	5.36/0.211"	5.18/0.204"	5.26/0.207"
IEEE 287 GPC/LPC	5.258/0.207"	5.360/0.211"	5.182/0.204"	5.258/0.207"
<b>Gage Block</b>	$5.26_{0}^{+0.013}$ mm / $0.207_{0}^{+0.0005}$ inch		$5.26_{-0.013}^{0}$ mm / $0.207_{-0.0005}^{0}$ inch	

# MDK-66D

## 3.5mm/2.92mm Connector Gage Kits

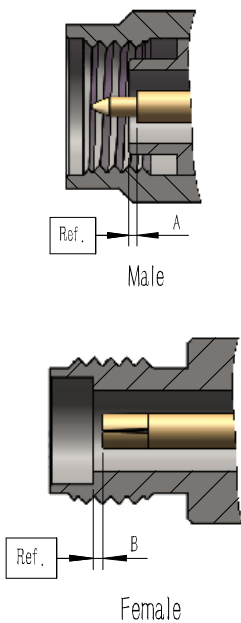
P/N	Indicator	Range	Resolution	Precision	Gage Repeatability
MDK-66D	Digital Style mm/inch	(0) ±0.4mm (0") ±0.0157"	0.001mm 0.00005"	0.003mm 0.00012"	0.002mm 0.00008"



### • Component List

MDK-66D		
MDK-661D	Digital Connector Gage	3.5mm/2.92mm Male
MDK-660D	Digital Connector Gage	3.5mm/2.92mm Female
B08T090	Torque Wrench	Open Size 8mm Coupling Torque 0.9Nm
HW01C7	Box	Wood Box

### Interface Size



	A ( mm / inch )		B ( mm / inch )	
<b>3.5mm</b>				
Standard	Minimum	Maximum	Minimum	Maximum
IEC 60169-23 GPC	0	0.076/0.0030"	0	0.076/0.0030"
IEC 60169-23 LPC	0	0.013/0.0005"	0	0.013/0.0005"
IEEE 287 GPC	0	0.05/0.002"	0	0.05/0.002"
IEEE 287 LPC	0	0.013/0.0005"	0	0.013/0.0005"
<b>2.92mm</b>				
Standard	Minimum	Maximum	Minimum	Maximum
IEC 61169-35 Grade 1	0.02/0.0008"	0.13/0.0051"	0.02/0.0008"	0.13/0.0051"
IEC 61169-35 Grade 0	0.02/0.0008"	0.076/0.003"	0.02/0.0008"	0.076/0.003"
MIL-STD-348A Figure 323	0	0.13/0.005"	0	0.13/0.005"
IEEE 287 GPC	0	0.05/0.002"	0	0.013/0.0005"
IEEE 287 LPC	0	0.013/0.0005"	0	0.013/0.0005"
<b>Gage Block</b>	<b>0 ± 0.001mm 0" ± 0.00004"</b>		<b>0 ± 0.001mm 0" ± 0.00004"</b>	

# MDK-68D

## 2.4mm/1.85mm Connector Gage Kits

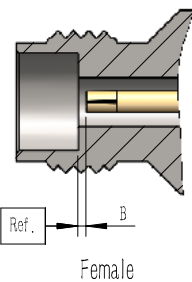
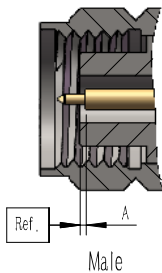
P/N	Indicator	Range	Resolution	Precision	Gage Repeatability
MDK-68D	Digital Style mm/inch	(0) ±0.4mm (0") ±0.0157"	0.001mm 0.00005"	0.003mm 0.00012"	0.002mm 0.00008"



### • Components List

MDK-68D		
MDK-681D	Digital Connector Gage	2.4mm/1.85mm Male
MDK-680D	Digital Connector Gage	2.4mm/1.85mm Female
B08T090	Torque Wrench	Open Size 8mm Coupling Torque 0.9Nm
HW01C7	Box	Wood Box

### • Interface Size



	A ( mm / inch )		B ( mm / inch )	
<b>2.4mm</b>				
Standard	Minimum	Maximum	Minimum	Maximum
IEC 60169-40 Grade 1	0	0.076/0.0030"	0	0.076/0.0030"
IEC 60169-40 Grade 0	0	0.02/0.0008"	0	0.02/0.0008"
MIL-STD-348B	0	0.08/0.003"	0	0.08/0.003"
IEEE 287 GPC	0	0.05/0.002"	0	0.013/0.0005"
IEEE 287 LPC	0	0.013/0.0005"	0	0.013/0.0005"
<b>1.85mm</b>				
Standard	Minimum	Maximum	Minimum	Maximum
IEC 61169-32 Grade 1	0	0.0762/0.003"	0	0.0762/0.003"
IEC 61169-32 Grade 0	0	0.0127/0.0005"	0	0.0127/0.0005"
IEEE 287 GPC	0	0.013/0.0005"	0	0.05/0.002"
IEEE 287 LPC	0	0.013/0.0005"	0	0.013/0.0005"
<b>Gage Block</b>	<b>0 ± 0.001mm 0" ± 0.00004"</b>		<b>0 ± 0.001mm 0" ± 0.00004"</b>	