



## Precision Connector 测试级连接器

测试级连接器广泛用于各种高精度设备，其具有较高的电气性能和很高的可靠性。测试级连接器采用0级界面设计，运用低反射的绝缘支撑。

Test grade connectors are widely used in various pieces of high-precision high-end equipment, which has a high electrical performance and high reliability. Test grade connectors adopt 0-grade interface design, and uses low-reflection insulating support.

### B. Precision Connector 测试级连接器

B.1	71	N Precision Connector	N型测试级连接器
B.2	75	3.5mm Precision Connector	3.5mm型测试级连接器
B.3	79	2.92mm Precision Connector	2.92mm型测试级连接器
B.4	82	Adaptors	测试级转接器

N

# N Precision Connector

## 测试级连接器

N测试级连接器特性阻抗为50Ω，其外直径7毫米。其在18 GHz全频段内有良好的数据表现。N测试级连接器设计为半刚性电缆连接器,是高性能柔性微波电缆组件和微波组件。

The characteristic impedance of N test grade connectors is 50Ω, whose outer diameter is 7 mm. It has good data performance in 18 GHz full band. N test grade connectors are designed to be semi-rigid cable connector, and it is a high performance flexible microwave cable assemblies and microwave components.

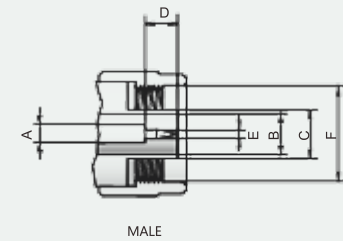
3.5mm

2.92mm

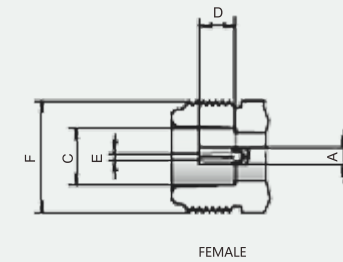
ADAPTORS

### 界面尺寸配合 Interface Mating Dimensions

插针连接器  
Pin Connector



插孔连接器  
Socket Connector



	MALE(stecker)		FEMALE(kuppler)	
	最小值	最大值	最小值	最大值
A	3.03	3.05	3.03	3.05
B	6.99	7.01	6.99	7.01
C	7.98	8.02	8.05	8.10
D	5.28	5.36	5.18	5.26
E	1.64	1.66	1.68	1.71
F	5/8-24UNEF-2B		5/8-24UNEF-2A	

### 技术参数

#### Technical Data

适用标准	Applicable Standards	
界面尺寸	Interface According To	IEC 60169-16
电气性能	Electrical Data	
阻抗	Impedance	50 Ω
频率范围	Frequency Range	DC to 18 GHz
回损	Return Loss	≥ 30 dB DC to 18 GHz
插入损耗	Insertion Loss	≤ 0.03 √f(GHz) dB
绝缘电阻	Insulation Resistance	≥ 5 GΩ
内导体接触电阻	Center Contact Resistance	≤ 1.0 mΩ
外导体接触电阻	Out Contact Resistance	≤ 1.0 mΩ
测试电压	Test Voltage	2500 V
射频泄露	Rf-leakage	≥ 90 dB DC to 1 GHz
机械性能	Mechanical Data	
插拔次数	Mating Cycles	≥ 500
结合扭矩	Coupling Torque	1.7 Nm
建议结合扭矩	Recommended Coupling Torque	0.7-1.10 Nm
内导体保持力	Center Contact Captivation	≥ 28 N
环境性能	Environmental Data	
温度范围	Temperature Range	-55 °C - +155 °C
盐雾	Salt Mist	IEC 61169 Clause 9.4.6
气候试验	Climatic Test	IEC 61169-1 55/155/21
冲击	Shock	IEC 61169 Clause 9.3.14
振动	Vibrations	IEC 61169 Clause 9.3.3
防护等级	Degree Of Protection	IEC 60529 IP68
材料	Materials	
外导体	Outer Contact	Stainless Steel Passivated
内导体	Center Contact	Brass Au Plating
弹性接触件	Spring Loaded Contact Parts	Bronze Au Plating
绝缘体	Dielectric	PTFE
垫片	Gasket	Rubber

## N Precision Connector

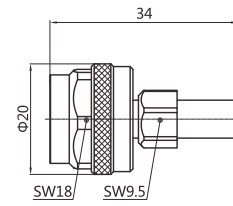
测试级连接器

3.5mm

2.92mm

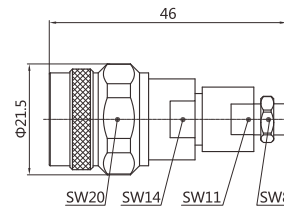
ADAPTORS

Product No.	Imp
产品型号	阻抗
N	50Ω



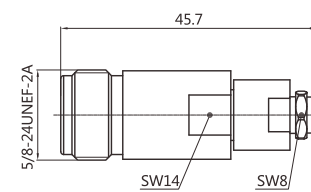
B.1-1

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产品型号	阻抗
N-01	50Ω



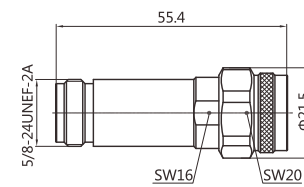
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产品型号	阻抗
N-02	50Ω



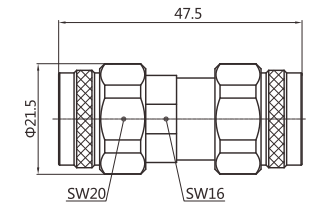
B.1-3

Product No.	Imp
产品型号	阻抗
N-03	50Ω



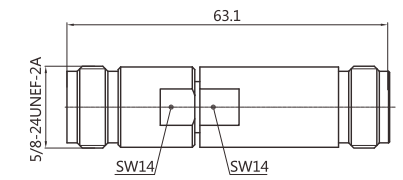
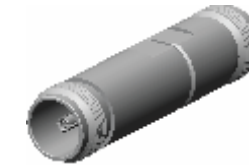
B.1-4

Product No.	Imp
产品型号	阻抗
N-04	50Ω



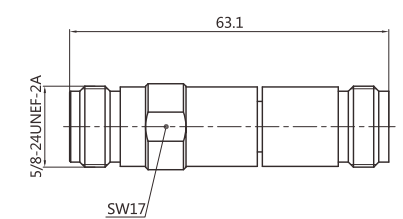
B.1-5

Product No.	Imp
产品型号	阻抗
N-05	50Ω



B.1-6

Product No.	Imp
产品型号	阻抗
N-06	50Ω



B.1-7

N

3.5mm

# 3.5mm Precision Connector

## 测试级连接器

3.5mm 测试级连接器频率可达26.5GHz。这种连接器适用于半刚半柔性电缆和微波组件。3.5mm与SMA、2.92mm连接器相互匹配。由于空气介质的接口、耐用的结构和很好的重复性，使连接器的性能进一步增强。

3.5mm test grade connectors have frequencies up to 26.5GHz. This connector is suitable for semi-rigid cables and microwave components. 3.5mm matches SMA, 2.92mm connector. Because of the air medium interface, durable construction and good reproducibility, the performance of the connector is further enhanced.

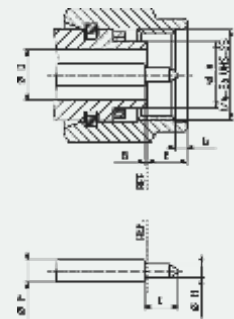
2.92mm

ADAPTORS

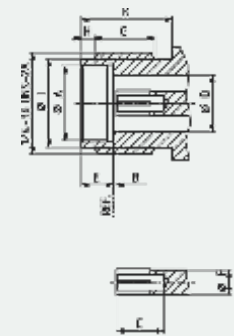
### 界面尺寸配合

#### Interface Mating Dimensions

插针连接器  
Pin Connector



插孔连接器  
Socket Connector



	PLUG(mm/inch)		JACK(mm/inch)	
	最小值	最大值	最小值	最大值
A	4.55/.179	4.58/.180	4.60/.181	4.63/.182
B	0.00/.000	0.08/.003	0.00/.000	0.08/.003
C	2.03/.080	2.29/.090	2.79/.110	3.18/.125
D	3.49/.138	3.51/.138	3.49/.138	3.51/.138
E	2.36/.093	3.56/.135	1.88/.074	1.98/.078
F	1.51/.060	1.52/.060	1.51/.060	1.52/.060
G	0.38/.015	1.14/.045	3.35/.132	4.62/.182
H	0.92/.036	0.93/.037	0.38/.015	1.14/.045
I	—	—	5.30/.209	5.40/.213
K	—	—	5.54/.218	—

### 技术参数

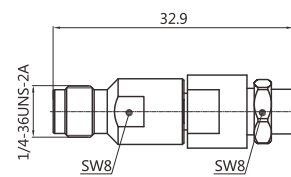
#### Technical Data

适用标准	Applicable Standards	
界面尺寸	Interface According To	IEC 60169-23
电气性能	Electrical Data	
阻抗	Impedance	50 Ω
频率范围	Frequency Range	DC to 26.5 GHz
驻波比	VSWR	1.07 ( DC to 26.5 GHz )
插入损耗	Insertion Loss	≤ 0.03 √f(GHz) dB
绝缘电阻	Insulation Resistance	≥ 5 GΩ
内导体接触电阻	Center Contact Resistance	≤ 3.0 mΩ
外导体接触电阻	Out Contact Resistance	≤ 2.0 mΩ
测试电压	Test Voltage	1000 V
机械性能	Mechanical Data	
插拔次数	Mating Cycles	≥ 500
结合扭矩	Coupling Test Torque	1.7 Nm
建议结合扭矩	Recommended Torque	0.80-1.10 Nm
内导体保持力	Center Contact Captivation	≥ 27 N
环境性能	Environmental Data	
温度范围	Temperature Range	-40 °C - +85 °C
盐雾	Salt Mist	IEC 61169 Clause 9.4.6
冲击	Shock	IEC 61169 Clause 9.3.14
振动	Vibrations	IEC 61169 Clause 9.3.3
材料	Materials	
外导体	Outer Contact	Stainless Steel Passivated
内导体	Center Contact	Brass Au Plating
弹性接触件	Spring Loaded Contact Parts	Bronze Au Plating
绝缘体	Dielectric	PTFE
垫片	Gasket	Rubber

# 3.5mm Precision Connector

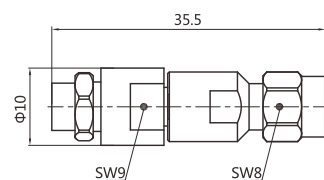
## 测试级连接器

Product No.	Imp
产品型号	阻抗
3.5	50Ω



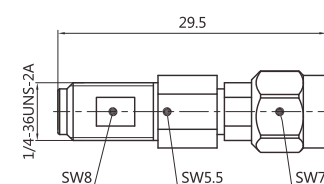
B.2-1

Product No.	Imp
产品型号	阻抗
3.5-01	50Ω



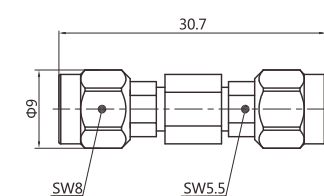
B.2-2

Product No.	Imp
产品型号	阻抗
3.5-02	50Ω



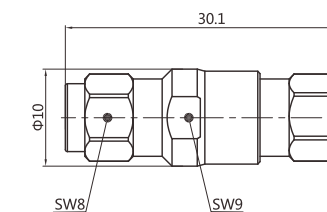
B.2-3

Product No.	Imp
产品型号	阻抗
3.5-03	50Ω



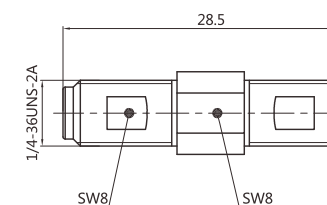
B.2-4

Product No.	Imp
产品型号	阻抗
3.5-04	50Ω



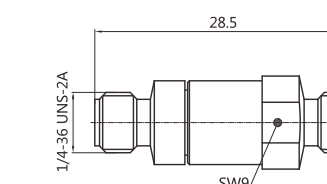
B.2-5

Product No.	Imp
产品型号	阻抗
3.5-05	50Ω



B.2-6

Product No.	Imp
产品型号	阻抗
3.5-06	50Ω



B.2-7

N

3.5mm

2.92mm

ADAPTORS

# 2.92mm Precision Connector

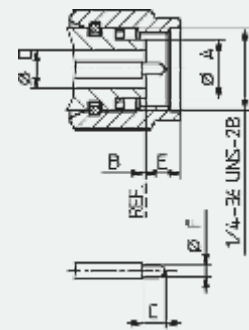
## 测试级连接器

2.92mm测试级连接器频率可达40GHz。它们可以与SMA和3.5mm系列产品匹配使用。具有高机械稳定性和出色的可重复性。缩短的凸形插针确保了非破坏性的组装过程。

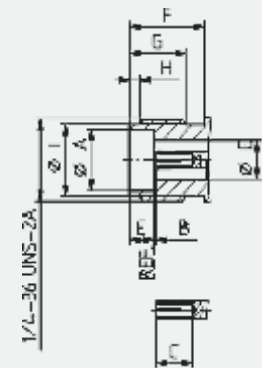
2.92mm test grade connectors have frequencies up to 40GHz. They can be used with SMA and 3.5mm series products. It has a high mechanical stability and excellent repeatability. Male pins shortened ensure nondestructive assembly process.

### 界面尺寸配合 Interface Mating Dimensions

插针连接器  
Pin Connector



插孔连接器  
Socket Connector



	PLUG(mm/inch)		JACK(mm/inch)	
	最小值	最大值	最小值	最大值
A	4.53/.178	4.57/.180	4.60/.181	4.64/.183
B	0.00/.000	0.13/.005	0.00/.000	0.13/.005
C	1.55/.061	1.65/.065	2.80/.110	—
D	2.89/.114	2.95/.116	2.89/.114	2.95/.116
E	—	3.28/.129	1.88/.074	1.98/.078
F	0.91/.036	0.94/.037	5.90/.232	—
G	—	—	4.40/.173	—
H	—	—	0.70/.028	0.90/.036
I	—	—	5.30/.208	5.40/.213

### 技术参数

#### Technical Data

通用标准	Applicable Standards	
界面尺寸	Interface According To	IEC 61169-35 GB/T 11313.35
电气性能	Electrical Data	
阻抗	Impedance	50 Ω
频率范围	Frequency Range	DC to 40 GHz
回损	Return Loss	≥ 23 dB (DC-40 GHz)
插入损耗	Insertion Loss	≤ 0.04 √f(GHz) dB
绝缘电阻	Insulation Resistance	≥ 5 GΩ
内导体接触电阻	Center Contact Resistance	≤ 3.0 mΩ
外导体接触电阻	Out Contact Resistance	≤ 2.0 mΩ
测试电压	Test Voltage	750 V
射频泄露	Rf-leakage	≥ 100 dB up to 1 GHz
机械性能	Mechanical Data	
插拔次数	Mating Cycles	≥ 500
结合扭矩	Coupling Torque	1.7 Nm
建议结合扭矩	Recommended Coupling Torque	0.80-1.10 Nm
内导体保持力	Center Contact Captivation	≥ 22 N
环境性能	Environmental Data	
温度范围	Temperature Range	-40 °C - +85 °C
盐雾	Salt Mist	IEC 61169 Clause 9.4.6
冲击	Shock	IEC 61169 Clause 9.3.14
振动	Vibrations	IEC 61169 Clause 9.3.3
材料	Materials	
外导体	Outer Contact	Stainless Steel Passivated
内导体	Center Contact	Brass Au Plating
弹性接触件	Spring Loaded Contact Parts	Bronze Au Plating
绝缘体	Dielectric	PTFE
垫片	Gasket	Rubber



N

3.5mm

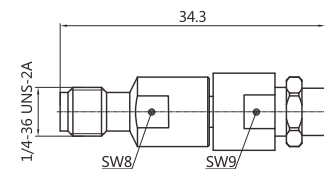
2.92mm

ADAPTORS

## 2.92mm Precision Connector

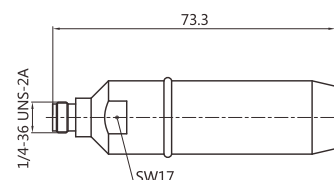
### 测试级连接器

Product No.	Imp
产品型号	阻抗
2.92	50Ω



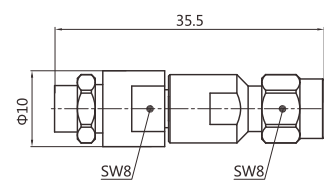
B.3-1

Product No.	Imp
产品型号	阻抗
2.92-01	50Ω



B.3-2

Product No.	Imp
产品型号	阻抗
2.92-02	50Ω



B.3-3

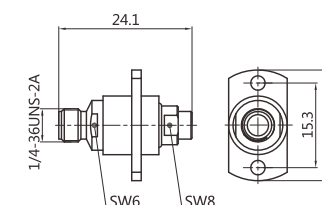
## Adaptors

### 测试级转接器

测试级转接器，具有高的机械稳定性和出色的可重复性，广泛的运用于各种测试器件。

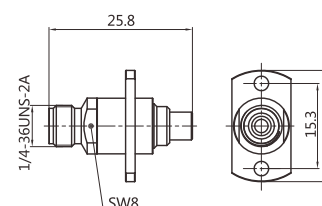
Test level adapter, having a high mechanical stability and excellent repeatability, is widely used in a variety of test devices.

Product No.	Imp
产品型号	阻抗
3.5-SMP	50Ω



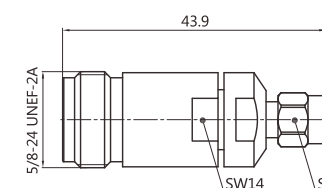
B.4-1

Product No.	Imp
产品型号	阻抗
3.5-SMP-01	50Ω



B.4-2

Product No.	Imp
产品型号	阻抗
3.5-N	50Ω



B.4-3

N

3.5mm

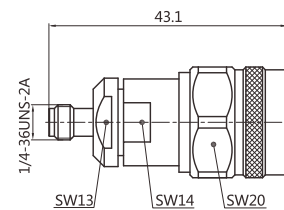
2.92mm

ADAPTORS

## Adaptors

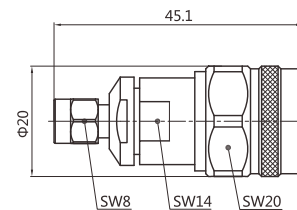
## 测试级转接器

Product No.	Imp
产品型号	阻抗
3.5-N-01	50Ω



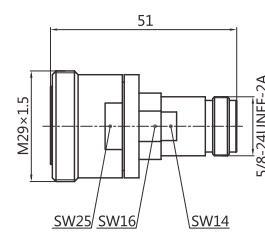
B.4-4

Product No.	Imp
产品型号	阻抗
3.5-N-02	50Ω



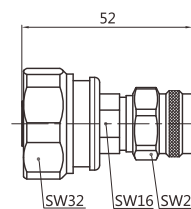
B.4-5

Product No.	Imp
产品型号	阻抗
N-7/16	50Ω



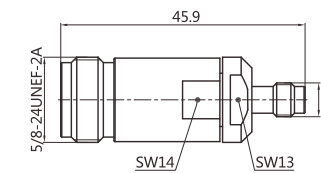
B.4-6

Product No.	Imp
产品型号	阻抗
N-7/16-01	50Ω



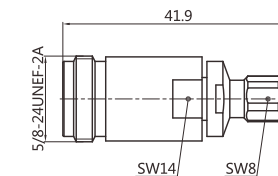
B.4-7

Product No.	Imp
产品型号	阻抗
N-SMA	50Ω



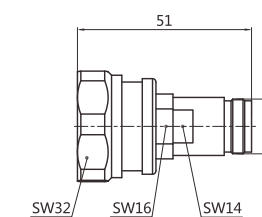
B.4-8

Product No.	Imp
产品型号	阻抗
N-SMA-01	50Ω



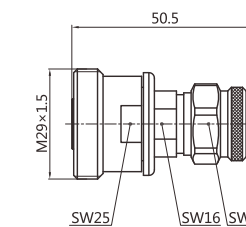
B.4-9

Product No.	Imp
产品型号	阻抗
N-7/16-02	50Ω



B.4-10

Product No.	Imp
产品型号	阻抗
N-7/16-03	50Ω



B.4-11