

# SPINNER 0.8 mm Coaxial Connector System

167 GHz



Enables Fully Traceable Measurements  
Up to 167 GHz



HIGH FREQUENCY PERFORMANCE WORLDWIDE  
[spinner-group.com](http://spinner-group.com)



# The SPINNER Group

For nearly 80 years, the SPINNER Group has been setting new standards worldwide in high-frequency technology. Based in Munich with production facilities in Germany, Hungary and China, SPINNER currently has over 900 employees. Our international network of subsidiaries and distributors supports customers in over 40 countries.



TEST &amp; MEASUREMENT



COMMUNICATION



BROADCAST



SATCOM/SPACE



DEFENSE



INDUSTRY



SUBSEA/OFFSHORE

## RF Measurement

These days, up-to-date measurement equipment is essential for all development, production, testing and quality control departments that deal with RF signals on coaxial lines. Particularly for vector network analyzers, high-precision connectors, terminations, and adapters are a must.

The same statement applies to calibration kits and mechanical accessories such as gauges for checking mating face dimensions or torque wrenches for tightening coupling nuts. In all of these cases, SPINNER has established new, extremely high standards of precision which most users would not want to do without.

Precisely measured values are especially important when transmitting high power levels. Other major applications

include extensive testing of mobile communications systems such as terahertz communication, terabyte ethernet high-speed data transmission, quantum research.

SPINNER supplies coaxial measurement equipment of outstanding electrical and mechanical quality for use at frequencies up to 250 GHz.

## Coaxial and Waveguide Measurement Devices

Coaxial & waveguide measurement devices made by SPINNER are needed for:

### VNA / S-Parameter Measurement

- Calibration and verification standards
- Air lines
- Rotary joints
- Articulated lines
- Adapters
- Connector gauges

### Millimeter Wave Measurement

- Ruggedized test port adapters
- mmWave waveguide-to-coaxial adapters
- 0.5 mm, 0.8 mm & 1.0 mm coaxial connector systems
- 1.35 mm E Connector
- EasyLaunch PCB connectors
- EasySnake flexible dielectric waveguides
- Connectivity solutions for RF anechoic chambers

### PIM Measurement and Test Automation

- EasyDock push-pull adapters
- Low PIM switches
- Low PIM test cables
- Low PIM rotary joints
- Low PIM loads
- Low PIM passive intermodulation standards



### Connectivity Solutions for RF Anechoic Chambers

- Ruggedized test port adapters
- mmWave waveguide-to-coaxial adapters
- Panel feedthroughs
- Articulated lines
- EasySnake flexible dielectric waveguides
- Rotary joints



## Need to Meet Requirements of 5G and Future 6G Technologies?



One of the great challenges in the development of new communication technologies like 6G in the sub-millimeter section such as the D-band frequency range is the flawless and reliable electrical interconnection technology.

Until recently, narrowband rectangular waveguide components were the only option available. Then, the coaxial 0.8 mm connector system (IEC 61169-64) emerged as a standardized solution, eliminating the need for costly plumbing and providing improved bandwidth and measurement capabilities. However, SPINNER goes a step further.

Introducing our revolutionary 0.8 mm coaxial connector system with strengthened outer conductor, offering unmatched precision and performance up to 167 GHz. Our advanced design features a durable solid 0.8 mm interface that ensures damage-free repeated connections while delivering superior electrical characteristics for maximum measurement accuracy.

Compared to standard 0.8 mm connectors, our connectors are highly reliable over extended use, maintaining quality, efficiency and full compatibility.

Our state-of-the-art technology features exceptional flexibility and is suitable for measurement applications in all industries. Our system is one of the most versatile options available, providing high-frequency measurement capabilities up to 167 GHz.

For unparalleled precision and performance, choose SPINNER's advanced **"strengthened 0.8 mm coaxial connector system"**. Experience reliable connectivity like never before.

## Design Goals

### 0.8 mm precision interface with:

- ✓ Accurate alignment of the outer conductor
- ✓ Well-defined reference plane
- ✓ Maximized return loss
- ✓ High connector repeatability
- ✓ Suitable for precision S-parameter measurements
- ✓ Operating frequency range: DC to 167 GHz
- ✓ Specially designed load element up to 167 GHz

## Special Design Features

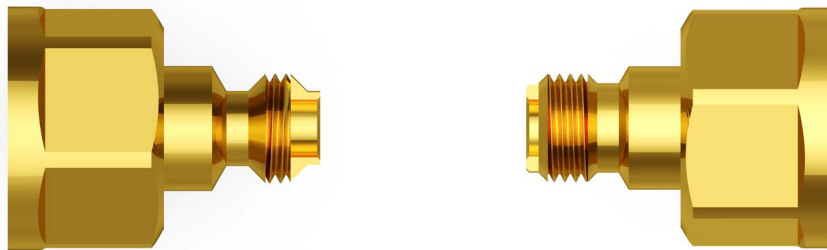
### Solid 0.8 mm Female - Highly Robust Mechanics

The outer conductor contour of the female connector has been designed with a thicker jacket.

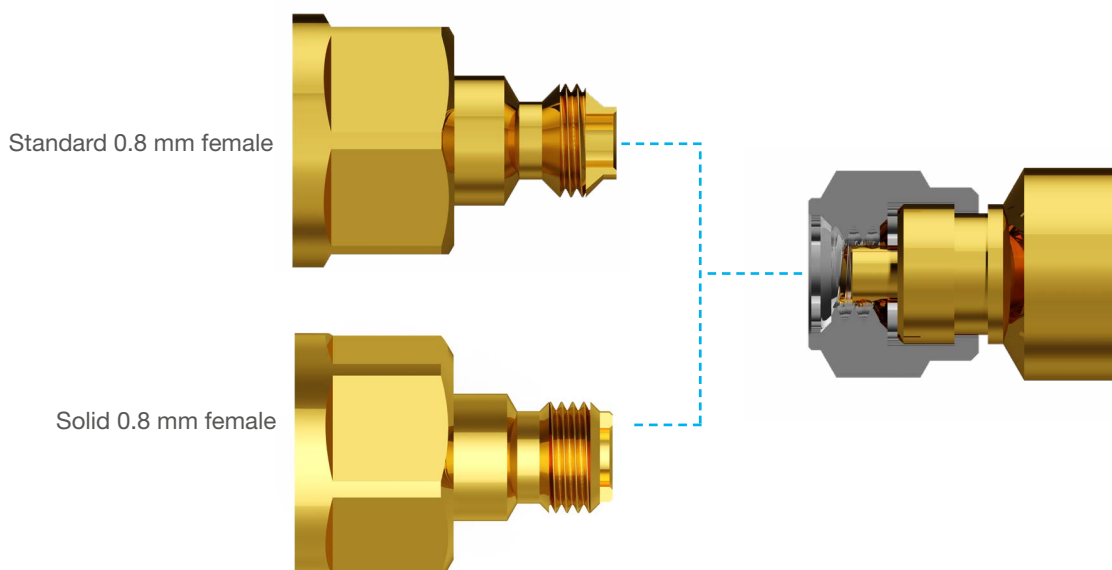
**Benefit:** Eliminates the risk of damaging the standard 0.8 mm female interface.

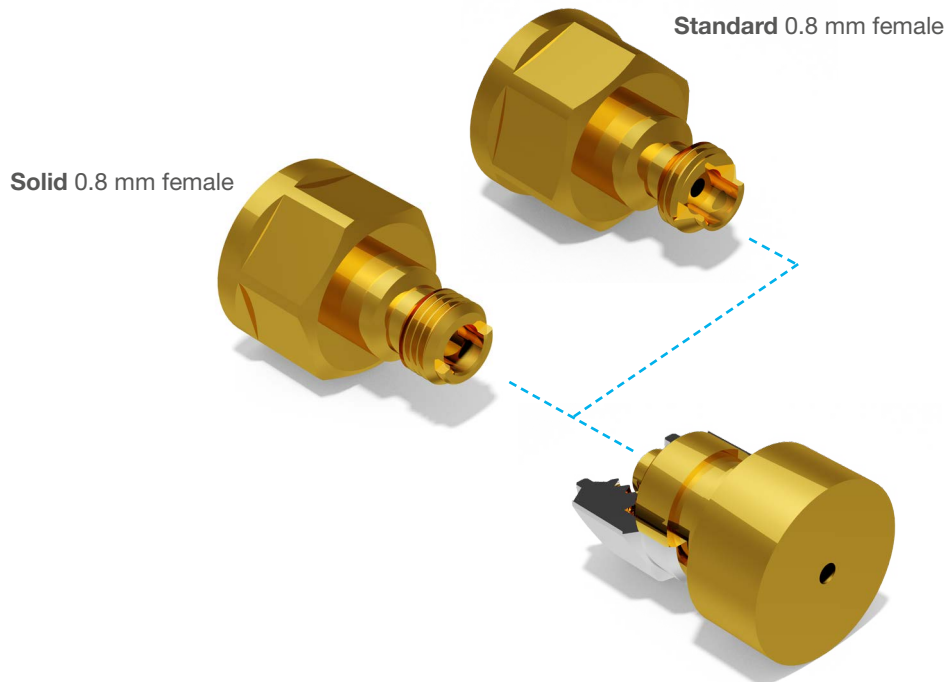
### Comparison of Wall Thicknesses

- Left: Standard 0.8 mm female with delicate outer contour
- Right: Solid 0.8 mm female version with reinforced design



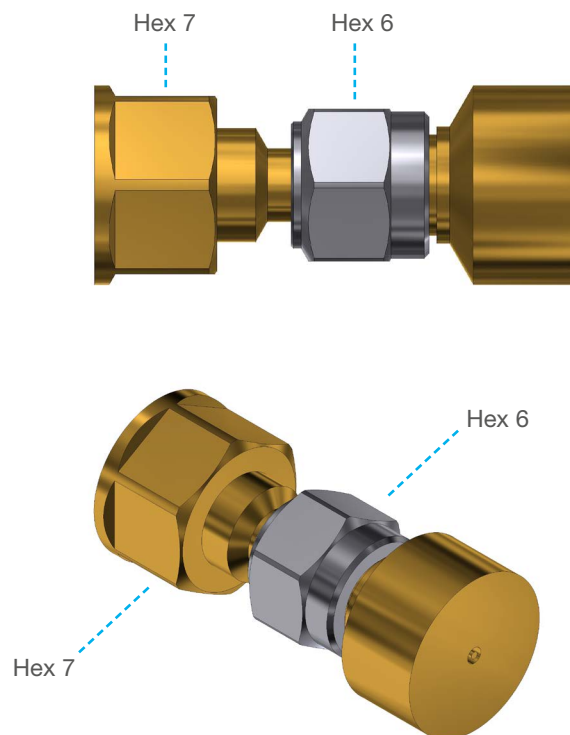
### The Solid 0.8 mm Female Connector is Fully Compatible with the Standard 0.8 mm Male Connector





#### Wrench Size to Prevent Accidental Use

In contrast to the coupling nut of the 0.8 mm interface, which uses a 6 mm wrench size, the wrench flats for counter-holding have been designed with a 7 mm size. This prevents accidental use of the counter-holding wrench on the coupling nut, which should be tightened with a torque wrench.



# 0.8 mm SOLR High Precision Calibration Kit

## Overview, DC to 150 GHz, Model Parameters



### Use Cases

- SOLR Calibration from DC to 150 GHz (Short-Open-Load-Reciprocal VNA two port calibration, also known as unknown thru calibration\*)
- Calibration verification from DC to 150 GHz
- Measurement of connector pin depths
- Model parameters

Description	Qty	Part Number	Use Case	BN 530850	BN 530851
Frequency range				DC to 150 GHz SOLR calibration	DC to 150 GHz SOLR calibration verification
Calibration data type				Model parameters	
Traceability				✓	
Calibration document				Factory calibration certificate per ISO 9001	
Short circuit termination, female, offset 3.890 mm	1	BN 530836	SOLR		●
Short circuit termination, male, offset 3.890 mm	1	BN 530833	SOLR		●
Open circuit termination, female, offset 3.890 mm	1	BN 530832	SOLR		●
Open circuit termination, male, offset 3.890 mm	1	BN 530831	SOLR		●
Thru, female / female	1	BN 530842	SOLR		●
Thru, male / male	1	BN 530841	SOLR		●
Thru, male / female	1	BN 530843	SOLR		●
Matched load, female	1	BN 530840	SOLR		●
Matched load, male	1	BN 530839	SOLR		●
Torque wrench 6 mm / 45 N·cm	1	BN 238748C0001	Tightening		●
Torque wrench 6 mm / 34 N·cm	1	BN 238749C0001	Tightening		●
Double open-ended spanner 7 mm <sup>(1)</sup>	1	BN 238750	Counteracting		●

● Included ○ Optional

<sup>1</sup> In opposite to the coupling nut of the 0.8 mm interface with 6 mm wrench size, the wrench flats for counter holding have been designed in 7 mm. This prevents the accidental use of the counter holding wrench on the coupling nut, which should be tightened with a torque wrench.

# 0.8 mm SOLR High Precision Calibration Kit

## Overview, DC to 150 GHz, Model Parameters

Description	Qty	Part Number	Use Case	BN 530850	BN 530851
Connector gauge for female mating face	1	BN 530816	Pin depth measurement	○	●
Connector gauge for male mating face	1	BN 530815	Pin depth measurement	○	●
Short circuit termination, female, offset 3.090 mm	1	BN 530845	Verification	○	●
Short circuit termination, male, offset 3.090 mm	1	BN 530844	Verification	○	●
Mismatched load, female	1	BN 530847	Verification	○	●
Mismatched load, male	1	BN 530846	Verification	○	●
Short circuit termination, female, offset 5.179 mm	1	BN 530838	Verification	○	●
Short circuit termination, male, offset 5.179 mm	1	BN 530835	Verification	○	●
Adapter, R 1.4k to 0.8 mm female	2	BN 533192	Adaption	○	○
Adapter, R 1.4k to 0.8 mm male	2	BN 533193	Adaption	○	○

● Included ○ Optional

## Calibration Standards – Glossary

[Technical Document TD-00247](#)

[https://www.spinner-group.com/images/download/technical\\_documents/SPINNER\\_TD00247.pdf](https://www.spinner-group.com/images/download/technical_documents/SPINNER_TD00247.pdf)

# 0.8 mm SOLR High Precision Calibration Kit

## Overview, DC to 167 GHz, Model Parameters



### Use Cases

- SOLR Calibration from DC to 167 GHz (Short-Open-Load-Reciprocal VNA two port calibration, also known as unknown thru calibration\*)
- Calibration verification from DC to 167 GHz
- Measurement of connector pin depths
- Model parameters

Description	Qty	Part Number	Use Case	BN 530890	BN 530891	BN 530892
<b>Frequency range</b>				DC to 167 GHz SOLR calibration	DC to 167 GHz SOLR calibration measurement of connector pin depths	DC to 167 GHz SOLR calibration calibration verification measurement of connector pin depths
<b>Calibration data type</b>				Model parameters		
<b>Traceability</b>				✓		
<b>Calibration document</b>				Factory calibration certificate per ISO 9001		
Short circuit termination, female, offset 3.890 mm	1	BN 530836	SOLR		●	
Short circuit termination, male, offset 3.890 mm	1	BN 530833	SOLR		●	
Open circuit termination, female, offset 3.890 mm	1	BN 530872	SOLR		●	
Open circuit termination, male, offset 3.890 mm	1	BN 530871	SOLR		●	
Matched load, female	1	BN 530876	SOLR		●	
Matched load, male	1	BN 530875	SOLR		●	
Thru, female / female	1	BN 530879	SOLR		●	
Thru, male / male	1	BN 530878	SOLR		●	
Thru, male / female	1	BN 530880	SOLR		●	
Torque wrench 6 mm / 45 N·cm	1	BN 238748C0001	Tightening		●	
Torque wrench 6 mm / 34 N·cm	1	BN 238749C0001	Tightening		●	
Double open-ended spanner 7 mm <sup>(2)</sup>	1	BN 238750	Counteracting		●	

● Included ○ Optional

<sup>2</sup> In opposite to the coupling nut of the 0.8 mm interface with 6 mm wrench size, the wrench flats for counter holding have been designed in 7 mm. This prevents the accidental use of the counter holding wrench on the coupling nut, which should be tightened with a torque wrench.



# 0.8 mm SOLR High Precision Calibration Kit

## Overview, DC to 167 GHz, Model Parameters

Description	Qty	Part Number	Use Case	BN 530890	BN 530891	BN 530892
Connector gauge for female mating face	1	BN 530816	Pin depth measurement	○	●	
Connector gauge for male mating face	1	BN 530815	Pin depth measurement	○	●	
Short circuit termination, female, offset 3.090 mm	1	BN 530845	Verification	○		●
Short circuit termination, male, offset 3.090 mm	1	BN 530844	Verification	○		●
Short circuit termination, female, offset 5.179 mm	1	BN 530838	Verification	○		●
Short circuit termination, male, offset 5.179 mm	1	BN 530835	Verification	○		●
Mismatched load, female	1	BN 530847	Verification	○		●
Mismatched load, male	1	BN 530846	Verification	○		●

● Included ○ Optional

## Calibration Standards – Glossary

[Technical Document TD-00247](#)

[https://www.spinner-group.com/images/download/technical\\_documents/SPINNER\\_TD00247.pdf](https://www.spinner-group.com/images/download/technical_documents/SPINNER_TD00247.pdf)

# 0.8 mm SOLR High Precision Calibration Kit

## Overview, DC to 167 GHz, Model and S Parameters



### Use Cases

- SOLR Calibration from DC to 167 GHz (Short-Open-Load-Reciprocal VNA two port calibration, also known as unknown thru calibration\*)
- Calibration verification from DC to 167 GHz
- Measurement of connector pin depths
- Model and S parameters
- Works perfectly with the new Keysight Frequency Extenders NA5305A (170 GHz) and NA5307A (250 GHz) when used with the appropriate SPINNER inter-series adapters

Description	Qty	Part Number	Use Case	BN 530890C0001	BN 530891C0001	BN 530892C0001
<b>Frequency range</b>				DC to 167 GHz SOLR calibration	DC to 167 GHz SOLR calibration measurement of connector pin depths	DC to 167 GHz SOLR calibration calibration verification measurement of connector pin depths
<b>Calibration data type</b>				Model and S parameters		
<b>Traceability</b>				✓		
<b>Calibration document</b>				Factory calibration certificate per ISO 9001		
Short circuit termination, female, offset 3.890 mm	1	BN 530836C0001	SOLR		●	
Short circuit termination, male, offset 3.890 mm	1	BN 530833C0001	SOLR		●	
Open circuit termination, female, offset 3.890 mm	1	BN 530872C0001	SOLR		●	
Open circuit termination, male, offset 3.890 mm	1	BN 530871C0001	SOLR		●	
Matched load, female	1	BN 530876C0001	SOLR		●	
Matched load, male	1	BN 530875C0001	SOLR		●	
Thru, female / female	1	BN 530879C0001	SOLR		●	
Thru, male / male	1	BN 530878C0001	SOLR		●	
Thru, male / female	1	BN 530880C0001	SOLR		●	
Torque wrench 6 mm / 45 N·cm	1	BN 238748C0001	Tightening		●	
Torque wrench 6 mm / 34 N·cm	1	BN 238749C0001	Tightening		●	
Double open-ended spanner 7 mm <sup>(3)</sup>	1	BN 238750	Counteracting		●	

● Included ○ Optional

<sup>3</sup> In opposite to the coupling nut of the 0.8 mm interface with 6 mm wrench size, the wrench flats for counter holding have been designed in 7 mm. This prevents the accidental use of the counter holding wrench on the coupling nut, which should be tightened with a torque wrench.

# 0.8 mm SOLR High Precision Calibration Kit

## Overview, DC to 167 GHz, Model and S Parameters

Description	Qty	Part Number	Use Case	BN 530890	BN 530891	BN 530892
Connector gauge for female mating face	1	BN 530816	Pin depth measurement	○	●	
Connector gauge for male mating face	1	BN 530815	Pin depth measurement	○	●	
Short circuit termination, female, offset 3.090 mm	1	BN 530845C0001	Verification	○		●
Short circuit termination, male, offset 3.090 mm	1	BN 530844C0001	Verification	○		●
Short circuit termination, female, offset 5.179 mm	1	BN 530838C0001	Verification	○		●
Short circuit termination, male, offset 5.179 mm	1	BN 530835C0001	Verification	○		●
Mismatched load, female	1	BN 530847C0001	Verification	○		●
Mismatched load, male	1	BN 530846C0001	Verification	○		●

● Included ○ Optional

## Calibration Standards – Glossary

[Technical Document TD-00247](#)

[https://www.spinner-group.com/images/download/technical\\_documents/SPINNER\\_TD00247.pdf](https://www.spinner-group.com/images/download/technical_documents/SPINNER_TD00247.pdf)

# Calibration Standards

## Verification Standards

Part Number	Description	Frequency Range
<b>BN 530844</b>	Short circuit termination, 0.8 mm male (Offset length 3.09 mm), model parameter	DC to 167 GHz
<b>BN 530844C0001</b>	Short circuit termination, 0.8 mm male (Offset length 3.09 mm), model and S parameter	
<b>BN 530845</b>	Short circuit termination, 0.8 mm female (Offset length 3.09 mm) model parameter	
<b>BN 530845C0001</b>	Short circuit termination, 0.8 mm female (Offset length 3.09 mm), model and S parameter	
<b>BN 530835</b>	Short circuit termination, 0.8 mm male (Offset length 5.179 mm), model parameter	
<b>BN 530835C0001</b>	Short circuit termination, 0.8 mm male (Offset length 5.179 mm), model and S parameter	
<b>BN 530838</b>	Short circuit termination, 0.8 mm female (Offset length 5.179 mm), model parameter	
<b>BN 530838C0001</b>	Short circuit termination, 0.8 mm female (Offset length 5.179 mm), model and S parameter	
<b>BN 530846</b>	Load, mismatched, 0.8 mm, male, 14 to 40 Ohms	DC to 150 GHz
<b>BN 530847</b>	Load, mismatched, 0.8 mm, female, 14 to 40 Ohms	
<b>BN 530848</b>	Load, mismatched, 0.8 mm, male, 14 to 40 Ohms, model parameter	DC to 167 GHz
<b>BN 530848C0001</b>	Load, mismatched, 0.8 mm, male, 14 to 40 Ohms, model and S parameter	
<b>BN 530849</b>	Load, mismatched, 0.8 mm, female, 14 to 40 Ohms, model parameter	
<b>BN 530849C0001</b>	Load, mismatched, 0.8 mm, female, 14 to 40 Ohms, model and parameter	

## Offset Shorts

Part Number	Description	Frequency Range
<b>BN 530844</b>	Short circuit termination, 0.8 mm male (Offset length 3.09 mm), model parameter	DC to 167 GHz
<b>BN 530844C0001</b>	Short circuit termination, 0.8 mm female (Offset length 3.09 mm), model and S parameter	
<b>BN 530845</b>	Short circuit termination, 0.8 mm female (Offset length 3.09 mm), model parameter	
<b>BN 530845C0001</b>	Short circuit termination, 0.8 mm female (Offset length 3.09 mm), model and S parameter	
<b>BN 530837</b>	Short circuit termination, 0.8 mm female (Offset length 4.554 mm), model parameter	
<b>BN 530837C0001</b>	Short circuit termination, 0.8 mm female (Offset length 4.554 mm), model and S parameter	
<b>BN 530835</b>	Short circuit termination, 0.8 mm male (Offset length 5.179 mm), model parameter	
<b>BN 530835C0001</b>	Short circuit termination, 0.8 mm male (Offset length 5.179 mm), model and S parameter	
<b>BN 530838</b>	Short circuit termination, 0.8 mm female (Offset length 5.179 mm)	
<b>BN 530838C0001</b>	Short circuit termination, 0.8 mm female (Offset length 5.179 mm), model and S parameter	

## Calibration Standards

### Loads, mismatched, 14 to 40 Ohms

Part Number	Description	Frequency Range
BN 530846	Load, mismatched, 0.8 mm male, 14 to 40 Ohms	DC to 150 GHz
BN 530847	Load, mismatched, 0.8 mm female, 14 to 40 Ohms	
BN 530848	Load, mismatched, 0.8 mm male, 14 to 40 Ohms, model parameter	DC to 167 GHz
BN 530848C0001	Load, mismatched, 0.8 mm male, 14 to 40 Ohms, model and S parameter	
BN 530849	Load, mismatched, 0.8 mm female, 14 to 40 Ohms, model parameter	
BN 530849C0001	Load, mismatched, 0.8 mm female, 14 to 40 Ohms, model and S parameter	



## Connectivity

### Inter-Series Adapters

Part Number	Description	Frequency Range
<b>BN 534950</b>	Adapter, precision, 1.35 mm male, 0.8 mm female	DC to 90 GHz
<b>BN 534951</b>	Adapter, precision, 1.35 mm male, 0.8 mm male	
<b>BN 534954</b>	Adapter, precision, 1.35 mm female, 0.8 mm female	
<b>BN 534955</b>	Adapter, precision, 1.35 mm female, 0.8 mm male	
<b>BN 533164</b>	Adapter, precision, 1.0 mm female, 0.8 mm male	DC to 120 GHz
<b>BN 533165</b>	Adapter, precision, 1.0 mm male, 0.8 mm female	
<b>BN 533166</b>	Adapter, precision, 1.0 mm male, 0.8 mm male	
<b>BN 533167</b>	Adapter, precision, 1.0 mm female, 0.8 mm female	
<b>BN 530865</b>	Adapter, precision, 0.8 mm male, 0.5 mm female	DC to 167 GHz
<b>BN 530866</b>	Adapter, precision, 0.8 mm female, 0.5 mm female	
<b>BN 530867</b>	Adapter, precision, 0.8 mm male, 0.5 mm male	
<b>BN 530868</b>	Adapter, precision, 0.8 mm female, 0.5 mm male	

### Waveguide-to-Coaxial-Adapters

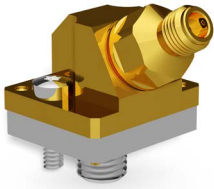
Part Number	Description	Frequency Range
<b>BN 533138</b>	Adapter, precision, R 900 (WR 10), 0.8 mm female	75 to 110 GHz
<b>BN 533139</b>	Adapter, precision, R 900 (WR 10), 0.8 mm male	
<b>BN 533156</b>	Adapter, precision, R 900 (WR 10), 0.8 mm male, with easy coupling nut	
<b>BN 530829</b>	Adapter, precision, R 1.2k (WR 8), 0.8 mm male RUG	90 to 140 GHz
<b>BN 533137</b>	Adapter, precision, R 1.2k (WR 8), 0.8 female	90 to 140 GHz
<b>BN 533150</b>	Adapter, precision, R 1.2k (WR 8), 0.8 female, right-angle	
<b>BN 533173</b>	Adapter, precision, R 1.4k (WR 7 / WR 6.5), 0.8 mm female, right-angle	110 to 150 GHz
<b>BN 533192</b>	Adapter, precision, R 1.4k (WR 7 / WR 6.5), 0.8 mm female	110 to 167 GHz
<b>BN 533193</b>	Adapter, precision, R 1.4k (WR 7 / WR 6.5), 0.8 mm male	

# Connectivity

## Ruggedized Test Port Adapters

Part Number	Description	Frequency Range
BN 535156	Adapter, precision, 1.0 mm female RUG, 0.8 mm female	DC to 120 GHz
BN 535157	Adapter, precision, 1.0 mm female RUG, 0.8 mm male	
BN 535160	Adapter, precision, 1.0 mm female RUG, 0.8 mm male RUG	
BN 530829	Adapter, precision, R 1.2k (WR 8), 0.8 mm male RUG	DC to 140 GHz
BN 535147	Adapter, precision, 0.8 mm female RUG, 0.8 mm female RUG	DC to 150 GHz
BN 535148	Adapter, precision, 0.8 mm male RUG, 0.8 mm male, panel 4 hole	
BN 535161	Adapter, precision, 0.5 mm female RUG, 0.8 mm male RUG	DC to 167 GHz
BN 535141	Adapter, precision, 0.5 mm male RUG, 0.8 mm male	
BN 535142	Adapter, precision, 0.5 mm male RUG, 0.8 mm female	
BN 535153	Adapter, precision, 0.5 mm socke RUG, 0.8 mm male	
BN 535154	Adapter, precision, 0.5 mm female RUG, 0.8 mm female	

## Board Connectivity



Part Number	InterfaceType	Frequency Range	Return Loss, typ.
BN 533408	0.8 mm female	DC to 150 GHz	21 dB @ DC to 26.5 GHz 19 dB @ 26.5 to 40 GHz 14 dB @ 40 to 90 GHz 10 dB @ 90 to 110 GHz 8 dB @ 110 to 150 GHz
BN 530861	0.8 mm female	DC to 167 GHz	21 dB @ DC to 40 GHz 15 dB @ 40 to 90 GHz 10 dB @ 90 to 167 GHz

The PCB layout plays a decisive role in determining return loss in an application.

## Connectivity

### Cable Connectors (thru-male)

Part Number	Interface Type	Frequency Range	Return Loss, min./typ.
<b>BN 530825</b>	0.8 mm male, UT-034	DC to 150 GHz	15 dB/17 dB @ DC to 90 GHz 12 dB/15 dB @ 90 to 110 GHz 10 dB/12 dB @ 110 to 150 GHz
<b>BN 530826</b>	0.8 mm male, UT-031-LL	DC to 167 GHz	18 dB/22 dB @ DC to 40 GHz 15 dB/18 dB @ 40 to 90 GHz 12 dB/15 dB @ 90 to 110 GHz 10 dB/12 dB @ 150 to 167 GHz

### Cable Connectors (solder pin)

Part Number	Interface Type	Frequency Range	Return Loss, min./typ.
<b>BN 530827</b>	0.8 mm male, UT-034	DC to 150 GHz	20 dB/25 dB @ DC to 40 GHz 16 dB/20 dB @ 40 to 90 GHz 14 dB/18 dB @ 90 to 110 GHz 12 dB/15 dB @ 110 to 150 GHz
<b>BN 530828</b>	0.8 mm male, UT-031-LL		
<b>BN 530823</b>	0.8 mm male, UT-031-LL	DC to 167 GHz	20 dB/25 dB @ DC to 40 GHz 16 dB/20 dB @ 40 to 90 GHz 14 dB/18 dB @ 90 to 110 GHz 12 dB/15 dB @ 110 to 167 GHz
<b>BN 530824</b>	0.8 mm female, UT-031-LL		
<b>BN 530830</b>	0.8 mm female, EZ-20-LA		20 dB/25 dB @ DC to 40 GHz 16 dB/20 dB @ 40 to 90 GHz 14 dB/18 dB @ 90 to 110 GHz 12 dB/15 dB @ 110 to 150 GHz
<b>BN 530863</b>	0.8 mm male, EZ-20-LA		9 dB/12 dB @ 150 to 167 GHz

### Single Channel Coaxial Rotary Joint



Part Number	Interface Type A	Interface Type B	Frequency Range	VSWR, max.
<b>BN 8350BNE1</b>	0.8 mm female	0.8 mm female	DC to 150 GHz	1.2 @ DC to 26.5 GHz 1.4 @ 26.5 to 70 GHz 1.5 @ 70 to 120 GHz 1.6 @ 70 to 150 GHz

# Connectivity

## DC-Block, inner conductor separated



Part Number	Interface Type A	Interface Type B	Frequency Range	Return Loss, typ.
BN 530885	0.8 mm female	0.8 mm female	DC to 150 GHz	15 dB @ 160 kHz to 80 GHz 10 dB @ 80 GHz to 150 GHz
BN 530886	0.8 mm male	0.8 mm female		

## Matched Loads 0.8 mm



Part Number	Description	Frequency Range	Power Handling	Return Loss, typ.
BN 531716	Matched load 0.8 mm male	DC to 150 GHz	1 W	10 dB @ DC to 150 GHz
BN 531718	Matched load 0.8 mm female			

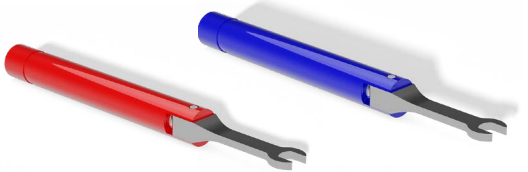
## Accessories

### Connector Gauges



Part Number	Description
BN 530815	Connector pin depth gauge for 0.8 mm male connectors
BN 530816	Connector pin depth gauge for 0.8 mm female connectors

### Torque Wrenches



Part Number	Description
BN 238748C0001	Torque wrench 6 mm, 0.45 N·m, break-over type
BN 238749C0001	Torque wrench 6 mm, 0.34 N·m, break-over type
BN 238750	Counter wrench 7 mm



Notes

Lined area for notes, consisting of multiple horizontal lines.



## HIGH FREQUENCY PERFORMANCE WORLDWIDE

SPINNER designs and builds cutting-edge radio frequency systems, setting performance and longevity standards for others to follow. The company's track record of innovation dates back to 1946, and many of today's mainstream products are rooted in SPINNER inventions.

Industry leaders continue to count on SPINNER's engineering excellence to drive down their costs of service and ownership with premium-quality, off-the-shelf products and custom solutions. Headquartered in Munich, Germany, the global frontrunner in RF components remains the first choice in simple-yet-smart RF solutions.

[spinner-group.com](http://spinner-group.com)

### **SPINNER GmbH**

#### **Headquarters**

Erzgiessereistr. 33  
80335 Munich

#### **GERMANY**

Phone: +49 89 12601-0  
[info@spinner-group.com](mailto:info@spinner-group.com)

### **SPINNER ANZ Pty. Ltd**

871 Dandenong Rd.  
Montrose VIC 3765

#### **AUSTRALIA**

Phone: +61 413 200677  
[info-anz@spinner-group.com](mailto:info-anz@spinner-group.com)

### **SPINNER Austria GmbH**

Modecenterstraße 22/C38  
1030 Vienna

#### **AUSTRIA**

Phone: +43 1 66277 51  
[info-austria@spinner-group.com](mailto:info-austria@spinner-group.com)

### **SPINNER Electrotécnica S.L.**

c/ Perú, 4 – Local n° 15  
28230 Las Rozas (Madrid)

#### **SPAIN**

Phone: +34 91 6305 842  
[info-iberia@spinner-group.com](mailto:info-iberia@spinner-group.com)

### **SPINNER France S.A.R.L.**

32-34 avenue Kléber  
75116 Paris

#### **FRANCE**

Phone: +33 6 32505210  
[info-france@spinner-group.com](mailto:info-france@spinner-group.com)

### **SPINNER ICT Inc.**

2220 Northmont Parkway, 250  
Duluth, GA 30096

#### **USA**

Phone: +1 770 2636 326  
[info@spinner-group.com](mailto:info@spinner-group.com)

### **SPINNER Nordic AB**

Kråketorpsgatan 20  
43153 Mölndal

#### **SWEDEN**

Phone: +46 31 7061670  
[info-nordic@spinner-group.com](mailto:info-nordic@spinner-group.com)

### **SPINNER Telecommunication**

Devices (Shanghai) Co., Ltd.  
351 Lian Yang Road  
Songjiang Industrial Zone  
Shanghai 201613

#### **P.R. CHINA**

Phone: +86 21 577 45377  
[info-china@spinner-group.com](mailto:info-china@spinner-group.com)

### **SPINNER UK Ltd.**

Suite 8 Phoenix House  
Golborne Enterprise Park,  
High Street  
Golborne, Warrington  
WA3 3DP

#### **UNITED KINGDOM**

Phone: +44 1942 275222  
[info-uk@spinner-group.com](mailto:info-uk@spinner-group.com)