

SPINNER

0.5 mm Coaxial Connector System

Reaching New Heights!

250 GHz

167 GHz – 0.8 mm System

120 GHz – 1.0 mm System



DC to 250 GHz Testing – Now Possible



HIGH FREQUENCY PERFORMANCE WORLDWIDE
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 800 employees. Our international network of subsidiaries and distributors supports customers in over 40 countries.



TEST & 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

includes extensive testing of mobile communications systems, terahertz communication, terabit ethernet high-speed data transmission and 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 system
- Cable connectivity solutions
- 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

SPINNER 0.5 mm Portfolio Overview

Engineered for seamless integration with Keysight's new NA5305A and NA5307A frequency extenders (170/250 GHz)

Standard Coaxial Adapters

Part Number	Description	Frequency Range
BN 530865	Adapter; Precision, 0.8 mm male, 0.5 mm female	DC to 167 GHz
BN 530866	Adapter; Precision, 0.8 mm female, 0.5 mm female	
BN 530867	Adapter; Precision, 0.8 mm male, 0.5 mm male	
BN 530868	Adapter; Precision, 0.8 mm female, 0.5 mm male	
BN 535939	Adapter; 0.5 mm male, 0.5 mm male	DC to 250 GHz
BN 535940	Adapter; 0.5 mm female, 0.5 mm female	
BN 535941	Adapter; 0.5 mm male, 0.5 mm female	

Ruggedized Coaxial Adapters

BN 535161	Adapter; Precision, 0.8 mm male RUG, 0.5 mm female RUG	DC to 167 GHz
BN 535141	Adapter; Precision, 0.8 mm male, 0.5 mm male RUG	
BN 535142	Adapter; Precision, 0.8 mm female, 0.5 mm male RUG	
BN 535153	Adapter; Precision, 0.8 mm male, 0.5 mm female RUG	
BN 535154	Adapter; Precision, 0.8 mm female, 0.5 mm female RUG	

Waveguide-to-Coaxial-Adapters

BN 530502	Adapter; Precision, R 1.4k (WR 7 / WR 6.5), 0.5 mm female	110 to 170 GHz
BN 530503	Adapter; Precision, R 1.4k (WR 7 / WR 6.5), 0.5 mm male RUG	
BN 530520	Adapter; Precision, R 1.4k (WR 7 / WR 6.5), 0.5 mm female RUG	
BN 530506	Adapter; Precision, R 1.8k (WR 5.1), 0.5 mm female	140 to 220 GHz
BN 530507	Adapter; Precision, R 1.8k (WR 5.1), 0.5 mm male RUG	
BN 530521	Adapter; Precision, R 1.8k (WR 5.1), 0.5 mm female RUG	

Board Connectivity

BN 530504	Bord Launch Connector 0.5 mm-f	DC to 220 GHz
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Cable Connectors

BN 530510	Cable connector; 0.5 mm male, 0.031", e.g. UT-031-LA, EZ-031-LA	DC to 175 GHz
BN 530512	Cable connector; 0.5 mm female, 0.031", e.g. UT-031-LA, EZ-031-LA	
BN 530513	Cable connector; 0.5 mm male, 0.023", e.g. UT-020, EZ-20	DC to 250 GHz
BN 530514	Cable connector; 0.5 mm female, 0.023", e.g. UT-020, EZ-20	
BN 530517	Cable connector; 0.5 mm thru-male, 0.023", e.g. EZ-20-LA	
BN 530518	Cable connector; 0.5 mm male, 0.023", e.g. EZ-20-LA	
BN 530519	Cable connector; 0.5 mm female, 0.023", e.g. EZ-20-LA	
BN 530527	Cable connector; 0.5 mm female RUG, 0.023", e.g. EZ-20-LA	

Cable Assemblies

On request	Coaxial Cable Assembly; 0.5 mm male, 0.5 mm male, 0.023", 150 mm	DC to 250 GHz
On request	Coaxial Cable Assembly; 0.5 mm female, 0.5 mm female, 0.023", 150 mm	
On request	Coaxial Cable Assembly; 0.5 mm male, 0.5 mm female, 0.023", 150 mm	
On request	Coaxial Cable Assembly; 0.5 mm male RUG, 0.5 mm male RUG, 0.023", 150 mm	
On request	Coaxial Cable Assembly; 0.5 mm female RUG, 0.5 mm female RUG, 0.023", 150 mm	
On request	Coaxial Cable Assembly; 0.5 mm male RUG, 0.5 mm female RUG, 0.023", 150 mm	



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.

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