



## EasySnake – Flexible Dielectric Waveguide for mm- and sub- mm-waves

The future market of industrial and consumer technology will include a rising number of products on ever increasing frequencies. Driver assistance systems in the automotive sector, such as long range radar systems for the detection of pedestrians or in combination with the cruise control system and the lane change assistant are presently already established technology. Short range environmental detection sensors give the driver appropriate support when getting in and out of parking spaces or when leaving the driveway. The high quality of products in the frequency range of around 78 GHz is ensured in the production through an elaborate testing process, which requires suitable and reliable precision RF measurement components.

We introduce a further new product line from our Test & Measurement Portfolio for millimeter- and sub-millimeter waves. The promise of this new product family is to offer the first truly flexible measurement waveguides with the lowest insertion loss compared to coaxial test leads and metallic waveguides for these high frequencies.

Data Sheet can be found in SPINNER Product Finder

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Certified according to DIN EN ISO 9001 / 14001



SPINNER'S MILLIMETER WAVE TECHNOLOGY  
Flexible dielectric waveguides: 75-110 GHz



# THE SPINNER EASYSNAKE

## Experience newfound flexibility in Your

mm-wave measurements

### Features

- dielectric waveguide supported by unique tubular segments (**Patent pending**)
- flexible, i.e. bendable and twistable
- flex-stable, i.e. keeps chosen bending geometry
- built-in transitions from dielectric to rectangular w/g
- insertion loss outperforms any coaxial cable and single-mode metallic waveguide
- excellent amplitude stability with flexure and temperature change
- length configurable in steps of 25 mm
- mechanically protected and electrically shielded

### Applications

- general test bench use
- network analysis (S-parameter measurement)
- near field scanning
- on-wafer probing

### Further developments

- extension of product family up to 600 GHz (nine sub-ranges, BN 533660 to 68)

Available product configurations, e.g.

Waveguides	Order number
1 x 30 cm	533660C0107
2 x 30 cm	533660C0207
1 x 60 cm	533660C0119
2 x 60 cm	533660C0219
1 x 90 cm	522660C0131

