



All dimensions are in mm; tolerances according to ISO 2768 m-H

Interface

According to IEC 61169-35
Mechanically compatible with RPC-3.50 and SMA

Documents

Application note AN001 "Calibration Services"

Documentation

This Part is delivered with:

- **USB Stick**
with S2p data file of the reference measurement values. Calibration Certificate as PDF file.
- **Calibration Certificate**
Details see "Declaration of calibration" options.

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Material and plating

Connector parts

Center conductor
Outer conductor
Coupling nut

Material

CuBe
Brass
Stainless steel

Plating

Gold, min. 1.27 µm, over chemical nickel
Gold, min. 1.27 µm, over chemical nickel
Passivated

Mechanical data

Mating cycles	≥ 500
Maximum torque	1.70 Nm
Recommended torque	0.90 Nm
Nominal Airline dimensions at 23 °C:	
- Diameter outer conductor	2.9235 mm
- Diameter inner conductor 50 Ω section	1.270 mm
- Diameter inner conductor 25 Ω section	1.927 mm
- Length outer conductor	75.00 mm
- Length inner conductor	75.00 mm
- Length difference (outer conductor – inner conductor)	≤ 0.04 mm
- Length 25 Ω section	50.00 mm

Electrical verification standard

This Mismatch Airline is designed as an electrical verification standard. Reference measurement values (calibration results) for transmission and reflection are included. Connected to a calibrated VNA the actual measured transmission and reflection values can be compared to the reference measurement values and the quality of the VNA calibration can be evaluated.

Environmental data

Operating temperature range ¹	+20 °C to +26 °C
Storage temperature range	0 °C to +50 °C
RoHS	compliant

1. This range is a recommendation. However, the mismatch airline can be used in a wider range. Any temperature change from 23 °C results in dimensional changes.

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