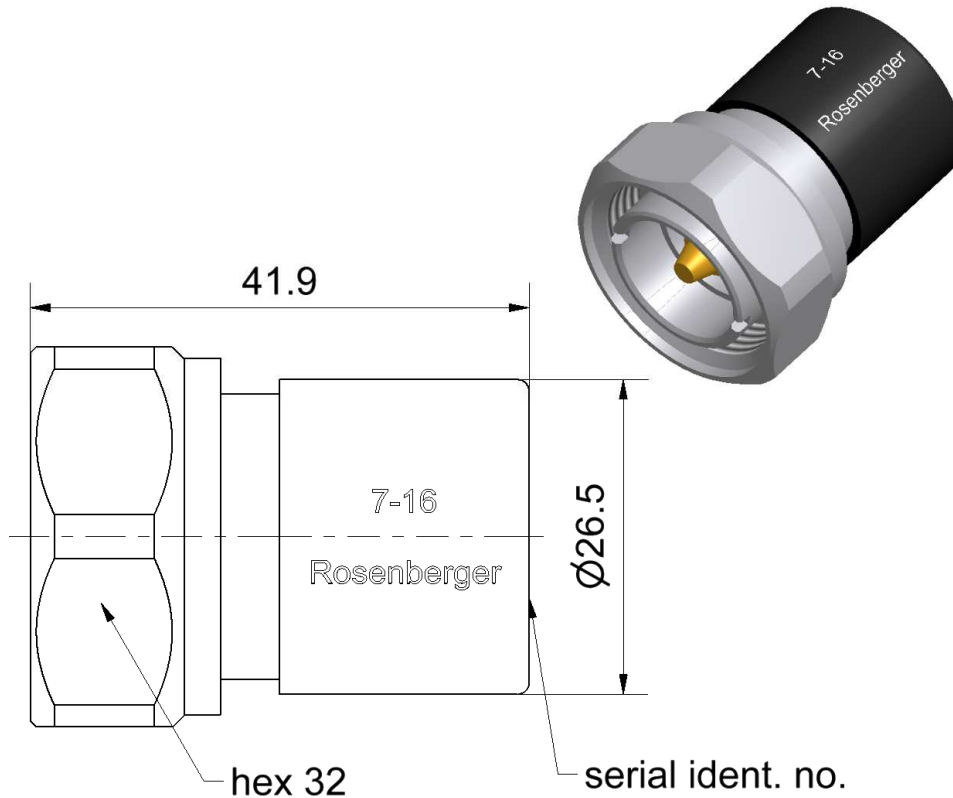


7-16

Open Circuit
Plug

60S12L-000S3



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

Interface

According to

IEC 61169-4, EN 122190, DIN 47223

Documents

Application note

AN001 "Calibration Services"

Material and plating

Connector parts

- Center conductor
- Outer conductor
- Coupling nut
- Dielectric

Material

- CuBe
- Stainless steel
- Stainless steel
- PPE

Plating

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

Dieses Dokument ist urheberrechtlich geschützt • This document is protected by copyright • Rosenberger Hochfrequenztechnik GmbH & Co. KG

RF_35/09;14/6.2

Electrical data

Frequency range	DC to 8 GHz
Return loss	≤ 0.10 dB, DC to 4 GHz ≤ 0.15 dB, 4 GHz to 8 GHz
Error from nominal phase ¹	≤ 1.0°, DC to 4 GHz ≤ 1.5°, 4 GHz to 8 GHz

¹ The nominal phase is defined by the Offset Delay, the Offset Loss and the Fringing Capacitances.

Mechanical data

Mating cycles	≥ 500
Maximum torque	35 Nm
Recommended torque	2.26 Nm
Gauge	1.72 mm to 1.76 mm

General standard definitions

For proper operation the vector network analyzer (VNA) needs a model describing the electrical behaviour of this calibration standard. The different models, units, and terms used will depend on the VNA type and they will have to be entered into the VNA. All values are based on typical geometry and plating.

Offset Z_o / Impedance / Z_o	50 Ω
Offset Delay	56.372 ps
Length (electrical) / Offset Length	16.90 mm
Offset Loss	0.50 G Ω /s
Loss	0.0049 dB/ $\sqrt{\text{GHz}}$
Fringing Capacitances ²	

² Fringing Capacitances are determined individually for each open circuit and are documented in a Calibration Certificate.

Environmental data

Operating temperature range ³	+20 °C to +26 °C
Rated temperature range of use ⁴	0 °C to +50 °C
Storage temperature range	- 40 °C to +85 °C

RoHS compliant

³ Temperature range over which these specification are valid.

⁴ This range is underneath and above the operating temperature range, within the calibration adaptor is fully functional and could be used without damage.