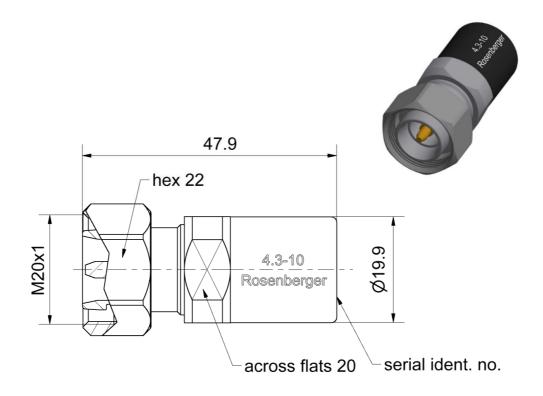
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4.3-10	Short Circuit Plug	64S12S-000S3



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

Interface	
According to	IEC 61169-54

Documents	
Application note	AN001 "Calibration Services"

Material and plating		
Connector parts	Material	Plating
Center conductor	Brass	Gold, min. 1.27 µm, over nickel
Outer conductor	Stainless steel	Passivated
Coupling nut	Stainless steel	Passivated

Tel. : +49 8684 18-0

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RF 35/09.14/6.2

Technical Data Sheet Rosenberger

4.3-10 Short Circuit

64S12S-000S3

Electrical data

Frequency range DC to 12 GHz

Return loss \leq 0.15 dB, DC to 12 GHz

Error from nominal phase¹ $\leq 2.0^{\circ}$, DC to 4 GHz

≤ 2.5°, 4 GHz to 6 GHz ≤ 3.0°, 6 GHz to 12 GHz

Mechanical data

 $\begin{array}{ll} \text{Mating cycles} & \geq 100 \\ \text{Maximum torque} & 5 \text{ Nm} \\ \text{Recommended torque} & 2 \text{ Nm} \\ \end{array}$

Gauge 2.80 mm to 2.90 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.

 $\begin{array}{lll} \mbox{Offset Z_{\circ} / Impedance / Z_{\circ}} & 50 \ \Omega \\ \mbox{Offset Delay} & 80.055 \ ps \\ \mbox{Length (electrical) / Offset Length} & 24.00 \ mm \\ \mbox{Offset Loss} & 0.70 \ G\Omega/s \\ \mbox{Loss} & 0.0097 \ dB/\sqrt{\mbox{GHz}} \end{array}$

Short Inductance²

Environmental data

Operating temperature range³ +20 °C to +26 °C Rated temperature range of use⁴ 0 °C to +50 °C Storage temperature range -40 °C to +85 °C

RoHS compliant

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¹ The nominal phase is defined by the Offset Delay, the Offset Loss and the Short Inductances.

² Short Inductances are determined individually for each short circuit and are documented in a Calibration Certificate.

³ Temperature range over which these specification are valid.

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