



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

**Interface**

According to IEC 61169-54

**Documents**

N/A

**Material and plating**

**Connector parts**

Center contact  
Outer contact jack side  
Outer contact plug side  
Body  
Dielectric  
Gasket

**Material**

CuBe  
Brass  
Brass  
Brass  
PTFE  
Silicone

**Plating**

Silver, 3-6 µm  
Silver, 3-6 µm  
White bronze(e.g. Optalloy®)  
White bronze(e.g. Optalloy®)

4.3-10 Adaptor  
Plug screw type – Jack

**64S102-K00B1**

**Electrical data**

Impedance 50 Ω  
 Frequency DC to 12 GHz  
 Return loss ≥ 36 dB @ DC to 4 GHz  
 ≥ 32 dB @ 4 GHz to 6 GHz  
 Insertion loss ≤ 0.05 x √ f [GHz] dB  
 Insulation resistance ≥ 5 GΩ  
 Center contact resistance ≤ 1.0 mΩ  
 Outer contact resistance ≤ 1.0 mΩ  
 Working voltage 500 V rms  
 RF-leakage ≥ 110 dB @ DC to 6 GHz for tool tightened plugs  
 ≥ 90 dB @ DC to 3 GHz for tool-less plugs  
 ≥ 70 dB @ DC 3 to 6 GHz for tool-less plugs  
 Power handling (at 90 °C, altitude 3000m) 500 W @ 2.0 GHz  
 Intermodulation (3<sup>rd</sup> order) ≥ 160 dBc (2 x 46 dBm) @ 0.4 – 4.0 GHz  
 ≥ 166 dBc (2 x 43 dBm) @ 0.4 – 4.0 GHz

**Mechanical data**

Mating cycles ≥ 100  
 Engagement force typ. 100 N  
 Disengagement force typ. 80 N  
 Recommended torque 5 Nm

**Environmental data**

Temperature range -55 °C to +90 °C operating temperature  
 Thermal shock IEC 61169-1 9.4.4  
 Corrosion resistance ISO 21207 method B  
 Vibration IEC 61169-1 9.3.3 and IEC 60068-2-64  
 Shock IEC 61169-1 9.3.14  
 Degree of protection (mated pair) IEC 60529, IP68 1h / 25m  
 RoHS compliant

**Tooling**

N/A

**Suitable cables**

N/A

**Weight**

Weight 61.4 g/pce

While the information has been carefully compiled to the best of our knowledge, nothing is intended as representation or warranty on our part and no statement herein shall be construed as recommendation to infringe existing patents. In the effort to improve our products, we reserve the right to make changes judged to be necessary.

For the installation of the electrotechnical equipment, particular electrotechnical expertise is required.



Draft	Date	Approved	Date	Rev.	Engineering change number	Name	Date
F. Fraunhofer	19.09.18	Chr. Janßen	21.04.21	b00	20-1927	S. Huber-Siegl	21.04.21
Rosenberger Hochfrequenztechnik GmbH & Co. KG P.O.Box 1260 D-84526 Tittmoning Germany <a href="http://www.rosenberger.com">www.rosenberger.com</a>					Tel. : +49 8684 18-0 Email : <a href="mailto:info@rosenberger.com">info@rosenberger.com</a>		Page 2 / 2