



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

**Interface**

According to 4.3-10 side: IEC 61169-54  
N side: IEC 61169-16, MIL-PRF-39012, CECC 22210

**Documents**

N/A

**Material and plating**

**Connector parts**

Center contact  
Outer contact  
Body  
Dielectric  
Gasket

**Material**

CuBe  
Brass  
Brass  
PTFE  
Silicone

**Plating**

Silver, 3-6 μm  
Flash white bronze over silver(e.g. Optargen®)  
Flash white bronze over silver(e.g. Optargen®)

N 50 Ω

Adaptor  
N Jack – 4.3-10 Jack

**53K164-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	≤ 0.03 x √f [GHz] dB	
Insulation resistance	≥ 5 GΩ	
Center contact resistance	≤ 1.0 mΩ, 4.3-10 side	≤ 1.0 mΩ, N side
Outer contact resistance	≤ 1.0 mΩ, 4.3-10 side	≤ 0.25 mΩ, N side
Test voltage	2500 V rms	
Working voltage	500 V rms	
RF-leakage	≥ 128 dB @ DC to 1 GHz	
Power handling (at 20 °C, sea level, VSWR 1.0)	1000 W @ 1 GHz	
	700 W @ 2 GHz	
Intermodulation (3 <sup>rd</sup> order)	≥ 168 dBc (2 x 43 dBm)	

- RL values only valid for the interface -

**Mechanical data**

	4.3-10 side	N side
Mating cycles	≥ 100	min. 500
Center contact captivation: axial	≥ 30 N	≥ 28 N
radial	> 5 Ncm	≥ 3 Ncm
Center contact retention force	1.5 N – 20 N	
Recommended torque	5 Nm	0.7 to 1.1 Nm

**Environmental data**

Temperature range	-55 °C to +90 °C operating temperature
Thermal shock	IEC 60169-1, Sub-clause 16.4
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 52.9 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.



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Draft	Date	Approved	Date	Rev.	Engineering change number	Name	Date
Chr. Link	23.11.16	F. Fraunhofer	07.03.22	c00	22-0461	S. Huber-Siegl	07.03.22

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