



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

Interface
According to NEX10®

Documents
Panel piercing B 714a

Material and Plating

Connector parts	Material	Plating
Center contact	CuBe	Silver, 3-6 µm
Outer contact	Brass	White bronze(e.g. Optalloy®)
Body	Brass	White bronze(e.g. Optalloy®)
Dielectric	PTFE	

Electrical Data

Impedance	50 Ω
Frequency	DC to 20 GHz
Return loss	≥ 36 dB @ DC to 4 GHz ≥ 34 dB @ 4 GHz to 6 GHz ≥ 30 dB @ 6 GHz to 10 GHz ≥ 20 dB @ 10 GHz to 20 GHz
Insertion loss	≤ 0.05 x √ f [GHz] dB
Insulation resistance	≥ 5 GΩ
Center contact resistance	≤ 2.0 mΩ
Outer contact resistance	≤ 1.0 mΩ
Working voltage	500 V rms
RF-leakage	≥ 110 dB @ DC to 6 GHz (tool tightened)
Power handling	100 W @ 2.0 GHz and 85°C ambient temperature 50 W @ 2.0 GHz and 105°C ambient temperature
Intermodulation (3 rd order)	≥ 160 dBc (2 x 43 dBm) @ 0.4 – 6.0 GHz

RL values interface only

Mechanical Data

Mating cycles	≥ 100
Recommended torque	1.5 Nm

Environmental Data

Temperature range	-55 °C to +125 °C operating temperature
Thermal shock	IEC 61169-1 9.4.4
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 24h / 1m
RoHS	compliant

Tooling

N/A

Suitable Cables

N/A

Weight

9.5 g/pc

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	16.11.2016	Chr. Janßen	09.02.2021	b00	20-1927	B. Wollitzer	09.02.2021
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