



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

Interface

According to	NEX10 side:	NEX10®
	4.3-10 side:	IEC 61169-54

Material and Plating

Connector parts

Center contact		Material	Plating
Outer contact	NEX10 side:	Brass	Silver, 3-6 µm
Outer contact	4.3-10 side:	Spring bronze	Silver, 3-6 µm
Body		Brass	White bronze(e.g. Optalloy®)
Dielectric		Brass	White bronze(e.g. Optalloy®)
Gasket		PTFE	
		Silicone	

4.3-10 Adaptor
NEX10 4.3-10 Plug – NEX10® Plug

64S189-S01N1

Electrical Data

Impedance 50 Ω
 Frequency DC to 12 GHz
 Return loss ≥ 36 dB @ DC to 3 GHz
 ≥ 32 dB @ 3 GHz to 6 GHz
 Insertion loss ≤ 0.05 x √ f [GHz] dB
 Insulation resistance ≥ 5 GΩ
 Center contact resistance ≤ 2.0 mΩ, NEX10 side ≤ 1.0 mΩ, 4.3-10 side
 Outer contact resistance ≤ 1.0 mΩ, NEX10 side ≤ 1.0 mΩ, 4.3-10 side
 Working voltage 500 V rms
 RF-leakage ≥ 110 dB @ DC to 6 GHz
 Power handling 100 W @ 2.0 GHz and 85°C ambient temperature
 Intermodulation (3rd order) ≥ 166 dBc (2 x 43 dBm) @ 0.4 – 4.0 GHz

Mechanical Data

	NEX10 side	4.3-10 side
Mating cycles	≥ 100	≥ 100
Recommended torque	1.5 Nm	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

50 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	11.12.2018	Chr. Janßen	02.02.2021	b00	20-1927	B. Wollitzer	02.02.2021
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