



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

Interface

According to NEX10®

Documents

Assembly instruction 89 C2

Material and Plating

Connector parts

Center contact	Brass
Outer contact	Spring bronze
Body	Brass
Dielectric	PTFE
Gasket	Silicone

Plating

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

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RFB00035/12.20/6.4

Electrical Data

Impedance	50 Ω
Frequency	DC to 20 GHz
Return loss	≥ 32 dB @ DC to 4 GHz ≥ 30 dB @ 4 to 6 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	≥ 90 dB @ DC to 3 GHz ≥ 70 dB @ 3 to 6 GHz
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

- Limitations are possible due to the used cable type

Mechanical Data

Mating cycles	≥ 100
Retention force of coupling mechanism	> 150N
Engagement force	typ. 50N
Disengagement force	typ. 40N

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

Flexiform 380

Weight

16 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	17.01.2018	Chr. Janßen	22.02.2021	b00	20-1927	B. Wollitzer	22.02.2021

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