



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

**Interface**

According to NEX10™

**Documents**

Assembly instruction 89B2

**Material and plating**

**Connector parts**

Center contact	<b>Material</b> Brass	<b>Plating</b> Silver, 3-6 µm
Outer contact	Spring bronze	Silver, 3-6 µm
Body	Brass	White bronze(e.g. Optalloy®)
Dielectric	PTFE	
Gasket	Silicone	

**Electrical data**

Impedance	50 Ω
Frequency	DC to 20 GHz
Return loss	≥ 32 dB @ DC to 6 GHz ≥ 26 dB @ 6 to 10 GHz
Insertion loss	≤ 0.05 x √ f [GHz] dB
Insulation resistance	≥ 5 GΩ
Center contact resistance	≤ 1.5 mΩ
Outer contact resistance	≤ 1.5 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 <sup>rd</sup> 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

**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**

Weight	14.3 g/pce
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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.

Draft	Date	Approved	Date	Rev.	Engineering change number	Name	Date
F. Fraunhofer	17.01.18	F. Fraunhofer	31.10.18	a00	18-s347	S. Huber-Siegl	31.10.18
Rosenberger Hochfrequenztechnik GmbH & Co. KG P.O.Box 1260 D-84526 Tittmoning Germany <a href="http://www.rosenberger.de">www.rosenberger.de</a>						Tel. : +49 8684 18-0 Email : <a href="mailto:info@rosenberger.de">info@rosenberger.de</a>	
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