



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

Interface

According to	NEX10 side:	NEX10™
	7/16 side:	IEC 60169-4, VG 95250, EN 122190, DIN 47223

Documents

Assembly instruction	N/A
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Material and Plating

Connector parts

	NEX10 side:	Material	Plating
Center contact	NEX10 side:	CuBe	Silver, 3-6 µm
Center contact	7/16 side:	Brass	Silver, 3-6 µm
Outer contact		Brass	White bronze(e.g. Optalloy®)
Body		Brass	White bronze(e.g. Optalloy®)
Dielectric		PTFE	
Gasket		Silicone	

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RF_35/05.10/6.0

Electrical Data

Impedance	50 Ω
Frequency	DC to 8.3 GHz
Return loss	≥ 32 dB @ DC to 4 GHz ≥ 25 dB @ 4 GHz to 6 GHz
Insertion loss	≤ 0.05 x √ f [GHz] dB
Insulation resistance	≥ 5 GΩ
Center contact resistance	≤ 2.0 mΩ, NEX10 side ≤ 0.4 mΩ, 7/16 side
Outer contact resistance	≤ 1.0 mΩ, NEX10 side ≤ 1.5 mΩ, 7/16 side
Working voltage	500 V rms
RF-leakage	≥ 110 dB @ DC to 6 GHz for tool tightened plugs ≥ 90 dB @ DC to 3 GHz for tool-less plugs ≥ 70 dB @ 3 to 6 GHz for tool-less plugs
Power handling	100 W @ 2.0 GHz and 85°C ambient temperature
Intermodulation (3 rd order)	≥ 166 dBc (2 x 43 dBm) @ 0.4 – 6.0 GHz

Mechanical Data

	NEX10 side	7/16 side
Mating cycles	≥ 100	min. 500
Recommended torque	1.5 Nm	25 to 30 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

Weight	80.8 g/pc
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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	13.04.16	F. Fraunhofer	13.07.2018	a00	18-s246	Fl. Öllerer	13.07.2018
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