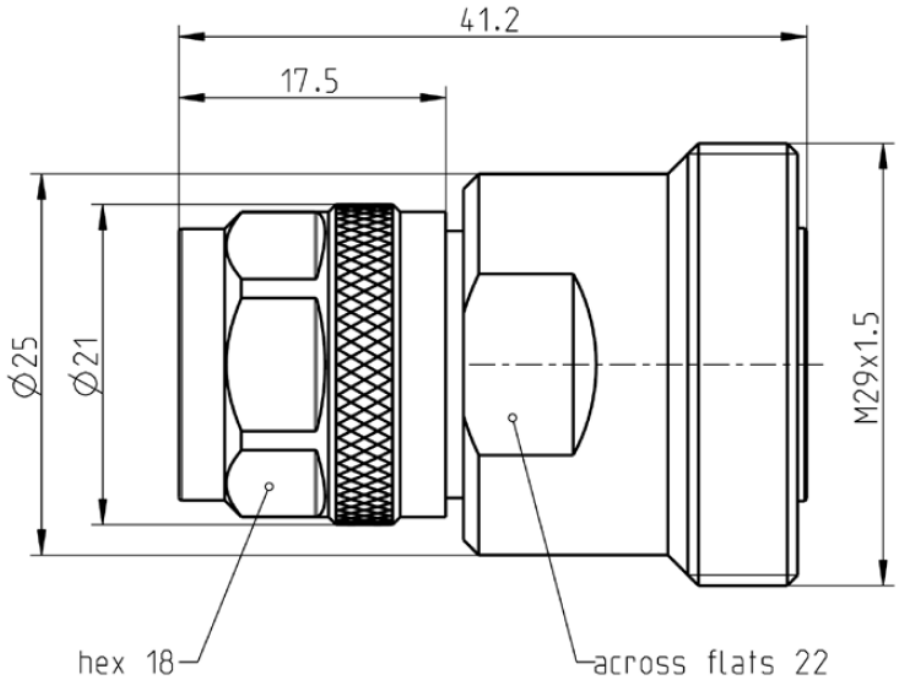
Technical Data Sheet

7-16/N	Adaptor 7/16 Jack – N Plug	www.pewtronic.cz **PLU010547**



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

Interface

According to	N side:	IEC 61169-16, MIL-PRF-39012, CECC 22210
	7/16 side:	IEC 61169-4, EN 122190, DIN 47223

Material and plating

Connector parts	**Material**	**Plating**
Center contact	Spring bronze	Silver, 3-6 µm
Outer contact	Brass	Flash white bronze over silver(e.g. Optargen®)
Dielectric	PTFE	
Gasket	Silicone	

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Electrical data

Impedance	50
Frequency	DC to 8.3 GHz
Return loss	30 dB @ DC to 3 GHz 27 dB @ 3 GHz to 7 GHz 23 dB @ 7 GHz to 8.3 GHz
Insertion loss	0.05 x $\sqrt{f\ [GHz]}$ dB
Insulation resistance	10 G
Center contact resistance	0.4 m
Outer contact resistance	1.5 m
Test voltage (at sea level)	2500 V rms
Working voltage (at sea level)	1400 V rms
Power handling (at 20 °C, sea level, VSWR 1.0)	1400 W @ 1 GHz 700 W @ 2 GHz
RF-leakage	128 dB @ DC to 1 GHz
Intermodulation (3rd order)	-128 dBm @ 2 x 20 W

Mechanical data

	N side	7/16 side
Mating cycles	500	500
Coupling nut retention	450	N/A
Center contact captivation: axial	200 N	200 N
radial	2 Ncm	2 Ncm
Coupling torque (recommended)	0.7 to 1.1 Nm	25 to 30 Nm
Proof torque	1.7 Nm	35 Nm

Environmental data

Temperature range	-55 °C to +155 °C
Thermal shock	MIL-STD-202, Method 107, Condition B
Corrosion resistance	MIL-STD-202, Method 101, Condition B
Vibration	MIL-STD-202, Method 204, Condition B
Shock	MIL-STD-202, Method 213, Condition I
Moisture resistance	MIL-STD-202, Method 106
Degree of protection (mated pair)	IEC 60529, IP68 2.5 bar 1 h
RoHS	compliant

Weight

Weight	80.3 g/pce

Draft	Date	Approved	Date
Benjamin Kaindl	15.03.12	Sa. Krautenbacher	19.03.14

Rev.	Engineering change number	Name	Date
600	14-0352	T. Krojer	19.03.14

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