

SnapN GENERAL DATASHEET

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Applicable Standards

Interface according to

Similar: IEC 61169-16, MIL-C-39012

Electrical characteristics

Characteristic impedance		50	Ω
Frequency range		DC to 11	GHz
Return loss (typical)	DC - 3 GHz	≥ 32	dB
	1 - 6 GHz	≥ 25	dB
	6 - 11 GHz	≥ 11	dB
RF-Leakage	100 MHz - 3 GHz	-90	dB (typ.)
	3 - 6 GHz	-80	dB (typ.)
Insertion loss		$\leq 0.05 \times \sqrt{f}$ [GHz]	dB
Insulation resistance		≥ 5	$G\Omega$
Center contact resistance		≤ 1	$m\Omega$
Outer contact resistance		≤ 1	$m\Omega$
Test voltage		2500	V rms
Working voltage		1400	V rms
Intermodulation (typical)	with 2x 20 W @ 1,8 GHz	≥ 155	dBc static

Mechanical characteristics

Durability (matings)		≥ 200	
Center contact retention force (axial)		28	N
Center contact retention force (radial)		3	Ncm
Engagement force		30	N typ.
Disengagement force		30	N typ.

Materials

Outer contact	CuZn
Center contact	CuZn / CuSn / CuBe
Housing	CuZn
Unlooking sleeve	CuZn
Insulator	PTFE

Standard plating

Outer contact	Ag /CuZnSn
Centre contact	Au / Ag
Housing	Ag / CuZnSn
Unlooking sleeve	CuZnSn

Environmental influences

Temperature range	-40°C up to +125°C
Climatic sequence	IEC 60169-1 16.2 (-40°C / + 125°C)
Relative humidity	IEC 60169-1 16.3
Thermal shock	IEC 60169-1 16.4 (-40°C / + 125°C)
Shock	MIL-STD-202, Method 213, Cond. J
Vibration	MIL-STD-202, Method 204, Cond. A (10 to 500Hz. 5g)
Mixed flowing gas	DIN EN 60068-2-60 Method 4

RoHS

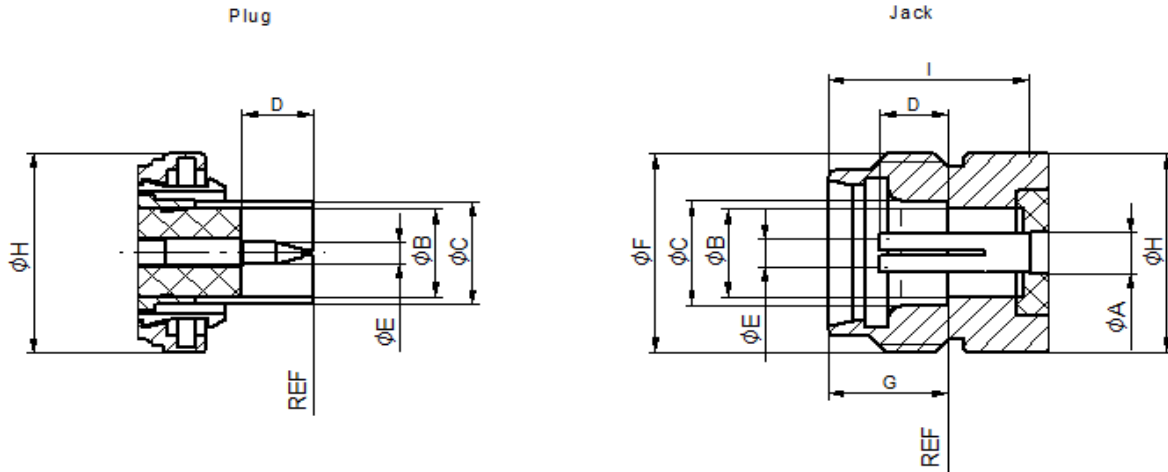
compliant

Date: 09.12.2019 R. Schwär

Revision:

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	Male		Female	
	mm		mm	
	min.	max.	min.	max.
A	n/a		3,04 nom.	
B	7 nom.			7,06
C		8,027	8,03	8,13
D	5,33	5,84	4,75	5,26
E	1,6	1,676		1)
F	n/a		5/8"-24UNEF-2A	
G	n/a		9,04	9,19
H	16 nom.			15,93
I	n/a			10,72

1) Resilient dimension to meet electrical and mechanical requirements.

Some connectors may have a specification that differs from the above mentioned data.

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.

Date	Alteration	Signature		

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