IMS CONNECTOR SYSTEMS GmbH
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MedEasyLock GENERAL DATASHEET

Applicable Standards

	Interface according to			

Electrical characteristics

	Characteristic impedance	50 / 60	Ω	
	Frequency range (straight connectors)	DC to 10	GHz	
	Return loss (typical)	DC - 0,5 GHz	≥ 30	dB (typ.)
		0,5 - 4 GHz	≥ 23	dB (typ.)
		4 - 8,3 GHz	≥ 20	dB (typ.)
	Insulation resistance	≥ 10	GOhm	
	Center contact resistance	≤ 0,4	mOhm	
	Outer contact resistance	≤ 1,5	mOhm	
	Test voltage	≤ 3000	V rms	
	Working voltage	≤ 500	V rms	
	Current carrying capacity	≤ 1	KW	2GHz typ. / VSWR 1.0

Mechanical characteristics

	Durability (matings)	≥ 200	
	Engagement force	30	N typ.
	Disengagement force	10	N typ.
	Retention force for interface	800	N

Materials

	Outer contact	CuZn / CuBe
	Center contact	CuZn / CuBe
	Other metal parts	CuZn
	Crimp ferrule	CuZn / Cu
	Insulator	PTFE

Standard plating

	Outer contact	CuZnSn
	Centre contact	Au
	Other metal parts	CuZnSn
	Crimp ferrule	CuZnSn

Environmental influences

	Temperature range	-40°C up to +85°C
	Vibration	IEC 68-2-64 random.
		5-20 Hz; 1.29(m/s²)² 20-500 Hz; -3dB (octave)
	Corrosion	IEC 60169-1 16.7 (48h)
	Humidity	IEC 60169-1 16.3 (96h)
	Thermal shock	IEC 60169-1 16.4 (-40°C / + 85°C)
	RoHS	compliant

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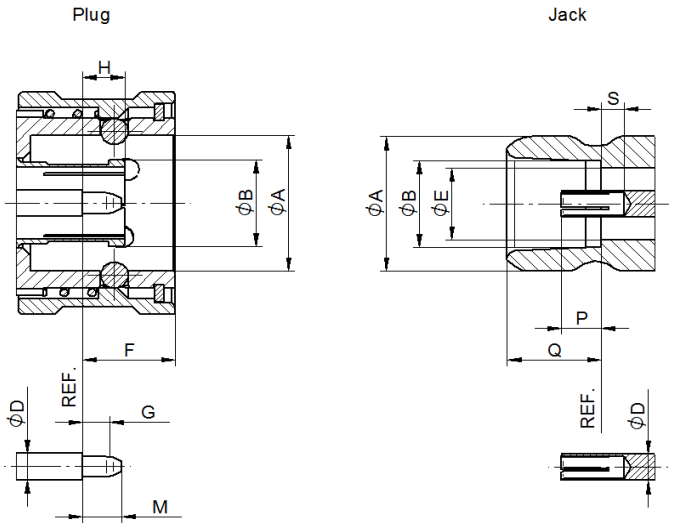
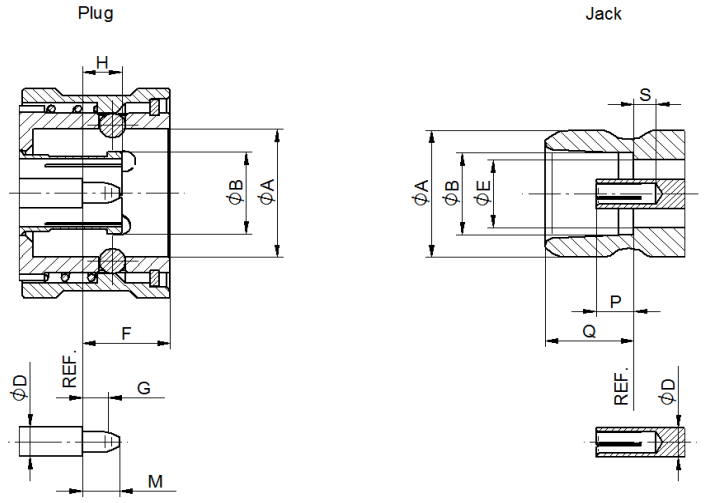
DNS interface dimension

	Male		Female	
	mm		mm	
	min.	max.	min.	max.
A	18		17,9	18
B		15,25	11,45	7,06
C	2,73	2,83		
D	3,5 nom.		3,5 nom.	
E			9,4	9,6
F	11,7	12,2		
G	2,8	3,2		
H	5,25	5,55		
M	4,75	5,25		
P			4,9	5,2
Q				12,1
S			0,3	



VNS interface dimension

	Male		Female	
	mm		mm	
	min.	max.	min.	max.
A	18		17,9	18
B		12,25	11,45	11,65
C	2,86	2,94		
D	4,13 nom.		4,13 nom.	
E			9,4	9,6
F	11,7	12,2		
G	3,6	4,0		
H	5,3	5,6		
M	4,73	5,03		
P			4,73	5,03
Q				12,1
S			0,3	



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			

Date: 17.12.2019 R. Schwär Revision:
Approved: 18.12.2019 P. Schuh