

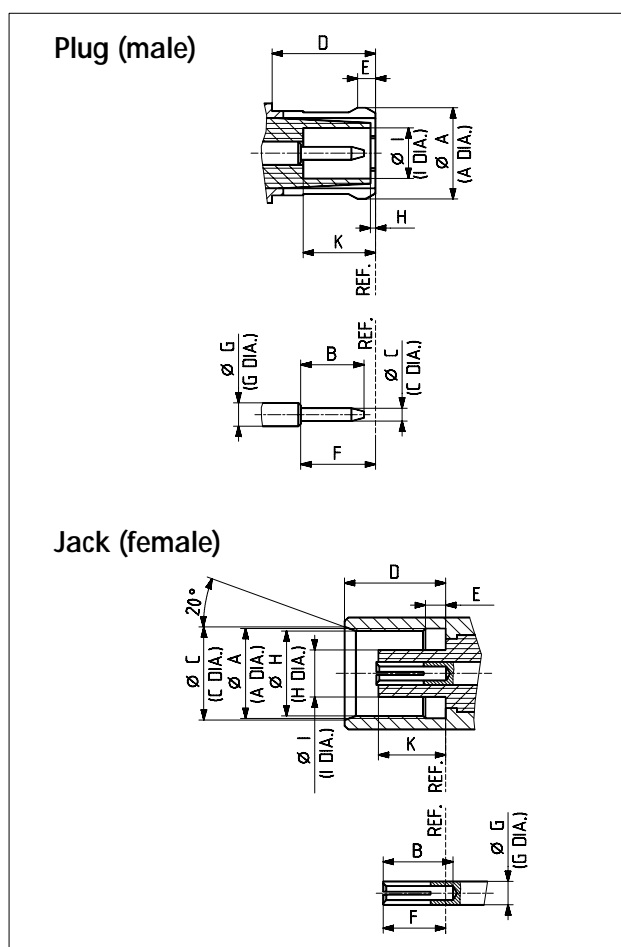


# SERIES MCX 50Ω MICROAX CONNECTORS

## Description

MCX 50 Ω miniature snap-on connectors from SUHNER offer you an excellent blend of size, weight, durability and performance for applications such as mobile and fixed telecommunications, in GPS applications and in Test+Measurement systems for testing instruments and apparatus. They are designed for frequencies up to 6 GHz and are tested according to the international standard CECC 22220. And they meet all the high requirements that micro coaxial connectors are expected to satisfy today.

## Interface Dimensions



## Interface Dimensions in mm / inches

	Plug		Jack	
	min.	max.	min.	max.
A	3.72/.146*	3.80/.150*	3.60/.142	3.70/.146
B	2.49/.098	2.59/.102	2.80/.110	---
C	0.48/.019	0.53/.021	3.75/.148	3.85/.152
D	4.15/.163	---	4.00/.157	4.12/.162
E	0.70/.028	0.75/.030	0.75/.030	0.85/.033
F	2.80/.110	3.20/.126	2.30/.091	2.80/.110
G	0.95/.037 nom.		0.95/.037 nom.	
H	---	0.30/.012	3.42/.135	3.48/.137
I	2.00/.079	2.07/.081	1.80/.071	1.98/.078
K	2.80/.110	3.20/.126	2.60/.102	2.80/.110

\* prior to slotting

Interface dimensions conformable to the Standards:

Europe: CECC 22220

## Technical Data

ELECTRICAL DATA	CECC 22000	REQUIREMENTS
Impedance		50 $\Omega$
Frequency range		DC ... 6 GHz
RF-leakage (measured at 1 GHz) - connectors for flexible cables - connectors for semi-rigid cables	4.4.8	$\geq 60$ dB $\geq 70$ dB
Dielectric withstanding voltage at sea level	4.4.5	$\geq 750$ V rms, 50 Hz (depending on cable)
Working voltage at sea level - unmated		$\geq 170$ V rms, 50 Hz (depending on cable)
Working voltage at 21 000 m / 70 000 ft. - unmated		$\geq 42$ V rms, 50 Hz (depending on cable)
Insulation resistance	4.4.4	$\geq 10^4$ M $\Omega$
Contact resistance - centre contact - outer contact	4.4.2 4.4.3	$\leq 5$ m $\Omega$ $\leq 1$ m $\Omega$

MECHANICAL DATA	CECC 22000	REQUIREMENTS
Engagement force	4.5.1	$\leq 25$ N / 5.6 lbs
Disengagement force	4.5.1	8 N ... 20 N / 1.8 lbs ... 4.5 lbs
Contact captivation	4.5.2	$\geq 10$ N / 2.3 lbs
Cable retention force <sup>1)</sup>		see pages 42 - 48
Durability (matings)	4.7.1	$\geq 500$

1) value considers maximum load of the cables without irreversible variations of specifications.

ENVIRONMENTAL DATA	CECC 22000	EQUIVALENT TEST CONDITIONS
Temperature range		- 55° C ... + 155° C / - 67° F ... + 311° F
Climatic category		IEC → 55 / 155 / 21
High temperature endurance test	4.7.2	MIL-STD-202, Method 108A, Condition D
Thermal shock	4.6.7	MIL-STD-202, Method 107, Condition F
Moisture resistance	4.6.6	MIL-STD-202, Method 203, Condition C
Corrosion	4.6.10	Saltspray test acc. to MIL-STD-202, Method 101, Condition B
Vibration	4.6.3	MIL-STD-202, Method 204, Condition D

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

## MATERIAL DATA

CONNECTOR PART	STANDARDS	MATERIAL	PLATING
Bodies	QQ-B-626	brass	gold or SUCOPLATE®
Pin contact	QQ-B-626	brass	gold
Socket contact	QQ-C-530	beryllium-copper, hardened	gold
Outer contacts plug	QQ-C-530	beryllium-copper, hardened	gold or SUCOPLATE®
jack	ISO CuNi1Pb1P QQ-B-626	copper (spring) brass	
Crimp ferrules	SUHNER® specification QQ-B-626	copper brass	gold or SUCOPLATE®
Insulators		PTFE or PFA	

Other materials and platings on request.

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