

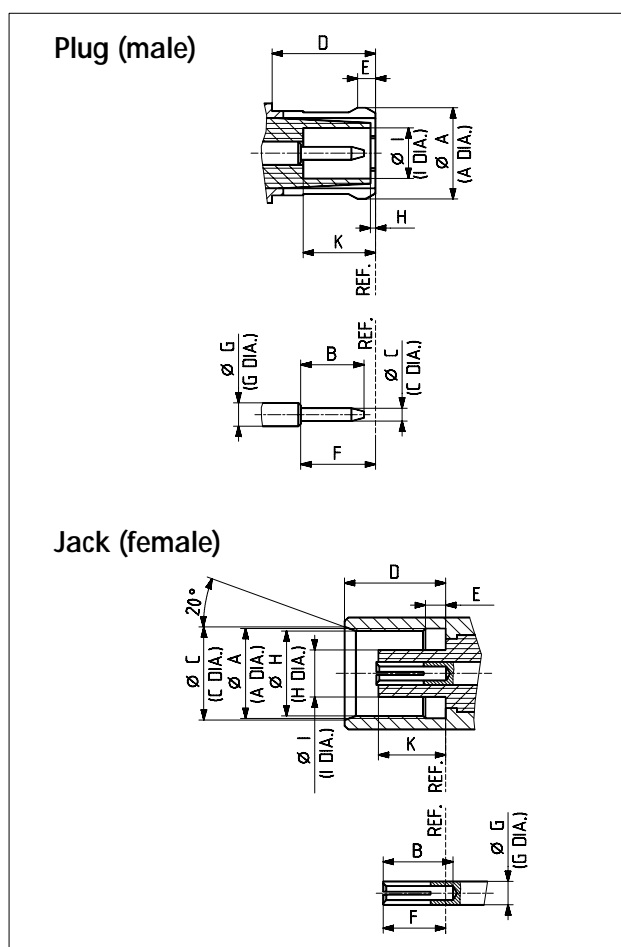


# SERIES MCX 50Ω MICROAX CONNECTORS

## 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 $\rightarrow$ 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 jack	QQ-C-530 ISO CuNi1Pb1P QQ-B-626	beryllium-copper, hardened copper (spring) brass	gold or SUCOPLATE®
Crimp ferrules	SUHNER® specification QQ-B-626	copper brass	gold or SUCOPLATE®
Insulators		PTFE or PFA	

Other materials and platings on request.

## X-ON Electronics

Largest Supplier of Electrical and Electronic Components

*Click to view similar products for [huber & suhner](#) manufacturer:*

Other Similar products are found below :

[31 MMBX-SMA-50-1/111\\_NE](#) [74Z-0-23-17](#) [32 MMBX-50-0-6 / 111\\_NE](#) [TL8A-11SMA-11SMA-03000-51](#) [TL8A-11SMA-11SMA-01500-51](#)  
[23\\_SMA-50-0-1/111\\_NE](#) [TL-8A-11N-11SMA-01500-51](#) [7404.17.0003](#) [24\\_BNT-50-2-1/103\\_NE](#) [5906.17.0005](#) [53\\_SMA-50-0-2/111\\_NE](#)  
[Microbend R-13](#) [5910\\_SMA-50-005/19-\\_NE](#) [16\\_SMA-50-2-55/199\\_NE](#) [16\\_SMA-50-2-43/133\\_NE](#) [11\\_716-50-7-31/033\\_-Y](#) [Minibend L-13](#)  
[6550.17.AA](#) [Microbend R-4.5](#) [74\\_Z-0-0-53](#) [6603\\_SMA-50-2/199\\_NE](#) [85\\_SMC-50-0-1/133\\_NE](#) [MF53/1x8A\\_21MXP/11SK/305](#)  
[1324.17.0114](#) [75\\_Z-0-0-51](#) [31\\_PC24-SK-50-1/199\\_NE](#) [65\\_BNC-50-0-2/133\\_NE](#) [76\\_Z-0-10-14](#) [11\\_N-50-4-19/12-\\_NE](#) [80346275](#) [23\\_SHV-](#)  
[50-0-2/133\\_NE](#) [33\\_SMA-QMA-50-1/133\\_NE](#) [11\\_C-50-7-6/133\\_NE](#) [6806.19.A](#) [33\\_716-N-50-51/-33\\_NE](#) [5930\\_N-50-050/19-\\_NE](#) [16\\_BNC-](#)  
[50-7-6/133\\_NE](#) [Mini141 K-8](#) [33\\_BNC-N-50-1/133\\_NE](#) [6701.01.B](#) [33\\_BNC-QLA-01-1/1--\\_NE](#) [25\\_N-50-7-8/133\\_NE](#) [22\\_BNC-50-0-](#)  
[5/133\\_NE](#) [6500\\_N-50-1/199\\_NE](#) [3401.17.0033](#) [6601\\_SMA-50-1/199\\_NE](#) [74\\_Z-0-0-56](#) [3401.00.0022](#) [MF53/1x8A\\_21MXP/21SK\\_erg/305](#)  
[3402.17.K](#)