

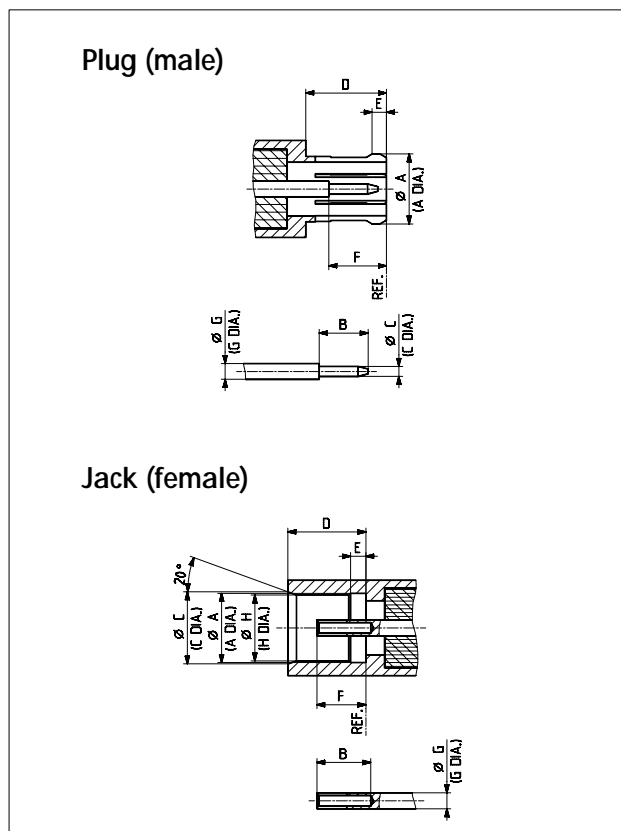


SERIES MCX 75 Ω MICROAX CONNECTORS

Description

SUHNER MCX 75 Ω connectors are derived from the MCX 50 Ω series but have a characteristic impedance of 75 Ω . They offer outstanding electrical properties up to 6 GHz and allow the transmission of digital signals with high bit rates.

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	0.83/.033 nom.		0.83/.033 nom.	
H			3.42/.135	3.48/.137

* prior to slotting

Interface dimensions conformable to the Standards:

Intermateable with MCX 50 Ω connectors acc. to CECC 22220.

Technical Data

ELECTRICAL DATA	REQUIREMENTS
Impedance	75 Ω
Frequency Range	DC ... 6 GHz
Dielectric withstanding voltage (at sea level)	500 V rms, 50 Hz (depending on cable)
Working voltage (at sea level) - unmated	\leq 170 V rms, 50 Hz (depending on cable)
Working voltage (at 21 000 m / 70 000 ft.) - unmated	\leq 45 V rms, 50 Hz (depending on cable)
Insulation resistance	\geq 10 ³ M Ω
Contact resistance - centre contact - outer contact	\leq 5.0 m Ω \leq 2.5 m Ω

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

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

ENVIRONMENTAL DATA	TEST CONDITIONS
Temperature range	- 65° C ... + 165° C / - 85° F ... + 329° F
Climatic category	IEC → 55 / 155 / 21
Thermal shock	MIL-STD-202, Method 107, Condition F
Moisture resistance	MIL-STD-202, Method 106
Corrosion	Saltspray test acc. to MIL-STD-202, Method 101, Condition B
Vibration	MIL-STD-202, Method 204, Condition D

MATERIAL DATA			
CONNECTOR PART	STANDARDS	MATERIAL	PLATING
Bodies Outer contacts Pin contact	QQ-B-626	brass	SUCOPLATE® gold gold
Outer contacts (resilient) Socket contact	QQ-C-530	beryllium-copper, hardened	gold
Crimp ferrules	SUHNER® specifications	copper	SUCOPLATE®
Insulators		PTFE or PFA	

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