

# DATA SHEET

## Cable connector



### Part Number

5100.MCX.JSC.05.111

### Description

MCX, Jack, Straight, Cable

### Interface Standard

IEC 169-36

### Suitable Cable

RG178B/U , RG196A/U



### Electrical Data

Impedance	50	$\Omega$	
Max. operating frequency	3	GHz	cable limited
Frequency range	DC to 1GHz	1 to 2.2GHz	2.2 to 3GHz
VSWR	$\leq 1.06$	$\leq 1.10$	$\leq 1.14$
Insertion loss	$0.05\sqrt{f(\text{GHz})}$	dB	
Insulation resistance	$\geq 1000$	M $\Omega$	
Center contact resistance	$\leq 5$	m $\Omega$	
Outer contact resistance	$\leq 2.5$	m $\Omega$	
Dielectric withstanding voltage	$\geq 500$	Vrms @ 50Hz	cable limited
Working voltage	$\leq 170$	Vrms @ 50Hz	cable limited

### Mechanical Data

Mating cycles	$\geq 500$	
Center contact axial force	$\geq 10$	N
Center contact axial torque	$\geq --$	Nm
Center contact	solder	
Outer contact	crimp	
Cable retention force		
RG178B/U	$\geq 32.7$	N
RG196A/U	$\geq 32.7$	N

### Environmental Data

Operating temperature	restricted by cable and/or silicone used
2002/95/EC (ROHS)	compliant
Sealing	N/A
Thermal shock	MIL-STD-202 Method107, condition B
Moisture resistance	MIL-STD-202 Method106
Corrosion resistance	MIL-STD-202 Method101, condition B
Vibration	MIL-STD-202 Method204, condition D
Shock	MIL-STD-202 Method213, condition I

### Material Data

<u>Piece Parts</u>	<u>Material</u>	<u>Surface Plating</u>
center contact	Beryllium copper	Au
outer contact	Brass	Au
insulator	PTFE	
ferrule	Brass	Au
nut	Brass	Au
lock washer	Phosphor bronze	Au
spring ring	Beryllium copper	Au

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 page: 1 of 1