

DATA SHEET

Cable connector



Part Number

5101.MCX.JSC.06.111

Description

MCX, Jack, Straight,Cable

Interface Standard

IEC 169-36

Suitable Cable

RG174/U , RG316/U



Electrical Data

Impedance	50	Ω	
Max. operating frequency	3	GHz	cable limited
Frequency range	DC to 1GHz	1 to 2.2GHz	2.2 to 3GHz
VSWR	≤ 1.02	≤ 1.04	≤ 1.06
Insertion loss	$0.05\sqrt{f(\text{GHz})}$	dB	
Insulation resistance	≥ 1000	$M\Omega$	
Center contact resistance	≤ 5	$m\Omega$	
Outer contact resistance	≤ 2.5	$m\Omega$	
Dielectric withstanding voltage	≥ 500	Vrms @ 50Hz	cable limited
Working voltage	≤ 170	Vrms @ 50Hz	cable limited

Mechanical Data

Mating cycles	≥ 500	
Center contact axial force	≥ 10	N
Center contact axial torque	$\geq --$	Nm
Center contact	solder	
Outer contact	crimp	
Cable retention force		
RG174/U	≥ 43.5	N
RG316/U	≥ 54.4	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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