

DATA SHEET

Cable connector



Part Number

5102.MCX.JSC.07.111

Description

MCX, Jack, Straight,Cable

Interface Standard

IEC 169-36

Suitable Cable

RG316D/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	≤ 1.03	≤ 1.05	≤ 1.05
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		
RG316D/U	≥ 108.8	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

Piece Parts	Material	Surface Plating
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