

DATA SHEET

Cable connector



Part Number

5104.MCX.JRC.05.111

Description

MCX, Jack, Right Angle, Cable

Interface Standard

IEC 169-36

Suitable Cable

RG178B/U , RG196A/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	≤ 1.05	≤ 1.07	≤ 1.08
Insertion loss	$0.07\sqrt{f(\text{GHz})}$	dB	
Insulation resistance	≥ 1000	M Ω	
Center contact resistance	≤ 5	m Ω	
Outer contact resistance	≤ 2.5	m Ω	
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	≥ 0.02	Nm
Center contact	solder	
Outer contact	crimp	
Cable retention force		
RG178B/U	≥ 32.7	N
RG196A/U	≥ 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

Piece Parts	Material	Surface Plating
center contact	Beryllium copper	Au
outer contact	Brass	Au
insulator	PTFE	
ferrule	Brass	Au
lid	Brass	Au