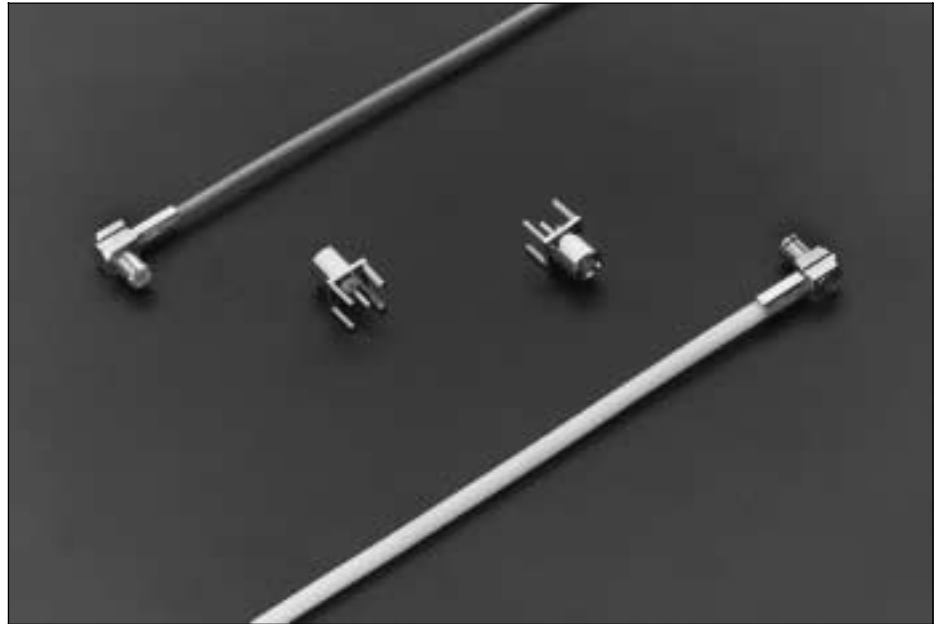
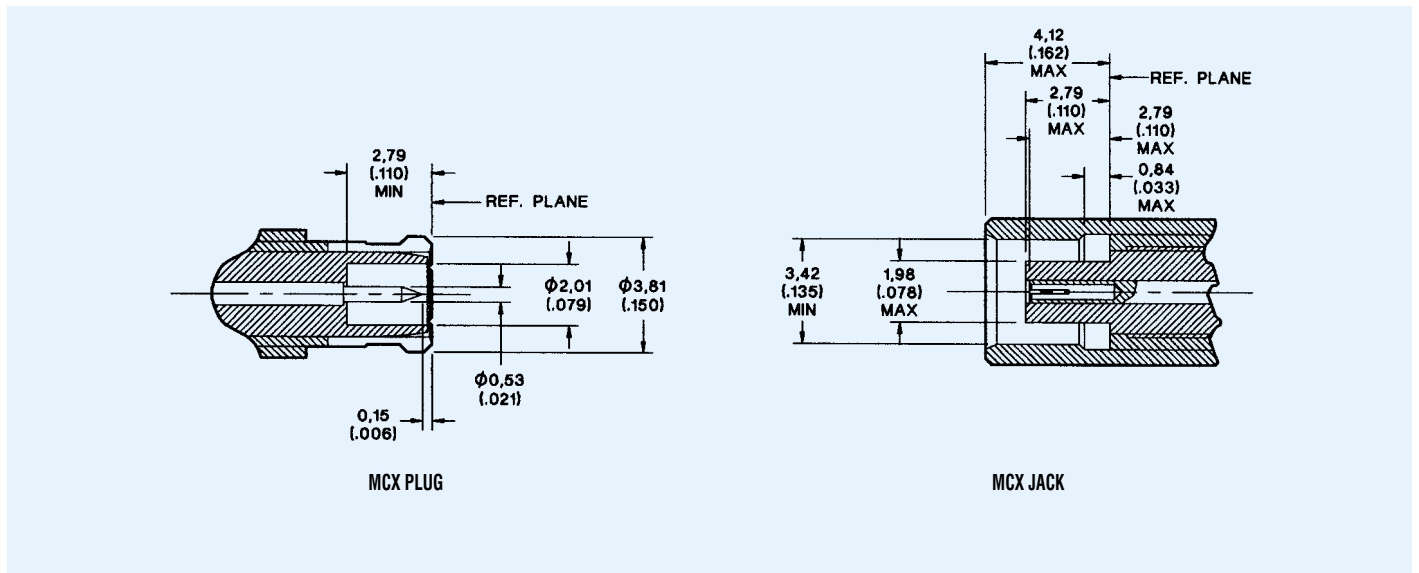


Introduction

The microminiature MCX Connector has a simple but firm retention mechanism and operates in a frequency range up to 6 GHz. It is suitable for 50 Ω applications where RF screening is necessary. The small size of the MCX connector, between SMB and SSMB, allows a close packing of the components and the push-on/pull-off mating allows a rapid connect/disconnect facility. The MCX is particularly suited to applications in portable equipment or designs where space is a constraint. It is also popular in cellular telephony and information systems.



Mating Interfaces



Specification

ELECTRICAL	Impedance	50 Ω nominal	
	Frequency Range	0 to 6.0 GHz	
	Working Voltage	335 Vrms	
	Insulation Resistance	1000 M Ω	
	Contact Resistance	5.0 m Ω maximum	
	Voltage Standing Wave Ratio (VSWR)	1.28 maximum	
	Outer Conductor Continuity	2.5 m Ω	
	Insertion Loss	0.1 dB maximum @ 1 GHz	
	MECHANICAL	Engagement Force	15 N (3.4 lbs.) maximum
		Disengagement Force	20 N (4.5 lbs.) maximum. 10 N (2.25 lbs.) minimum
Cable Retention Force		>60 N (13.5 lbs.) maximum	
Termination		Outer conductor: Crimp. Inner conductor: Solder	
ENVIRONMENTAL	Materials	Bodies, Body Components and Male Contact: Brass. Tine Body and Female Contact: Beryllium copper. Insulator: PTFE. Ferrule: Annealed copper alloy.	
	Finish/Plating	Center Contact: Gold plated. Other metal parts gold or nickel plated (as specified)	
	Operating Temperature	-55° C to 155° C	
GENERAL	Connector Durability	500 matings minimum	

MCX

Body Plating Options

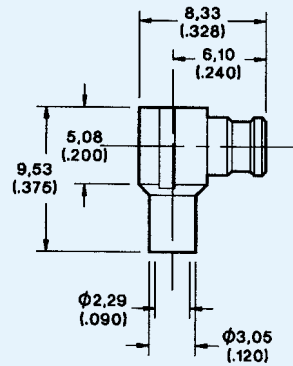
The following part number suffices can be specified for MCX connectors:

- ...T90 = gold plate
- ...220 = gold plate
- ...C90 = nickel plate

Plugs / Jacks

Right Angle Cable Plug

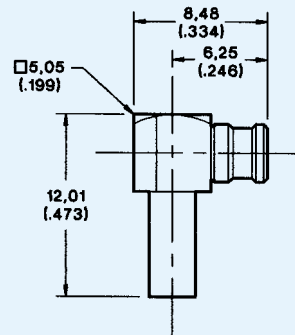
Part Number	Cable Number
051-C11-9072220	RG405/U



Assembly Instruction AI-755 (Page 126)

Right Angle Cable Plug

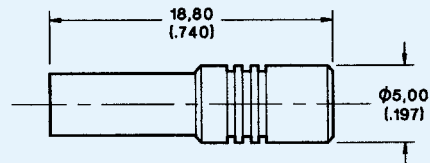
Part Number	Cable Numbers
051-C28-9019T90	RG178/U, 196/U
051-C28-9029T90	RG174/U, 316/U



Assembly Instruction BBAI-1212 (Page 110)

Straight Cable Jack

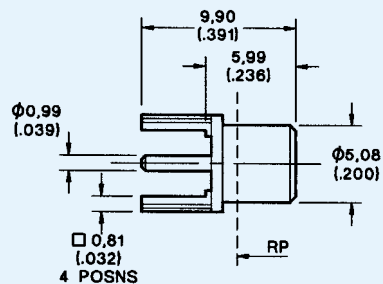
Part Number	Cable Numbers
051-C23-9188220	RG174/U, 316/U



Assembly Instruction AI-772 (Page 129)

Straight PCB Jack

Part Number
051-C51-9039T90



Mounting Plan B (Page 108)