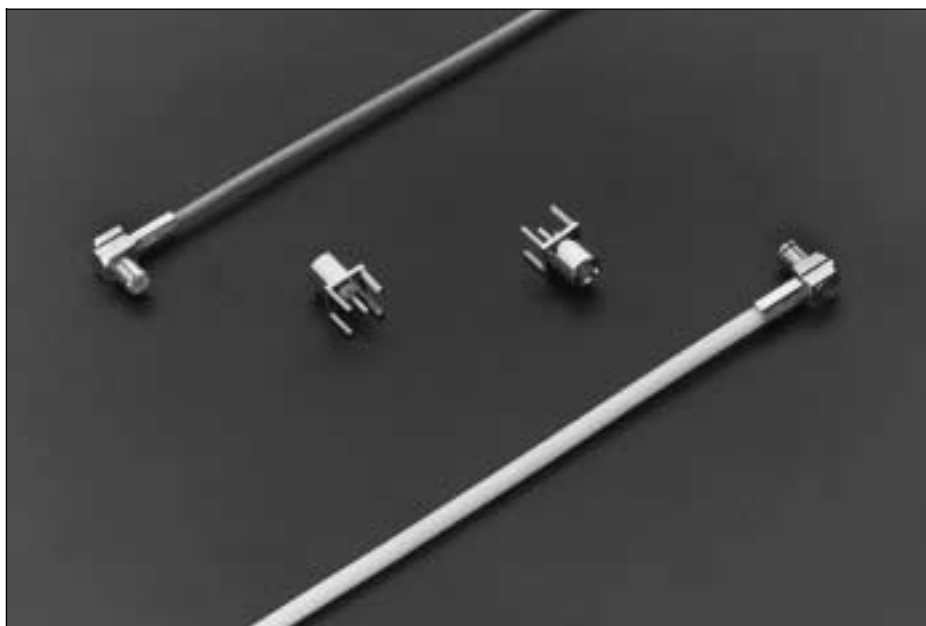
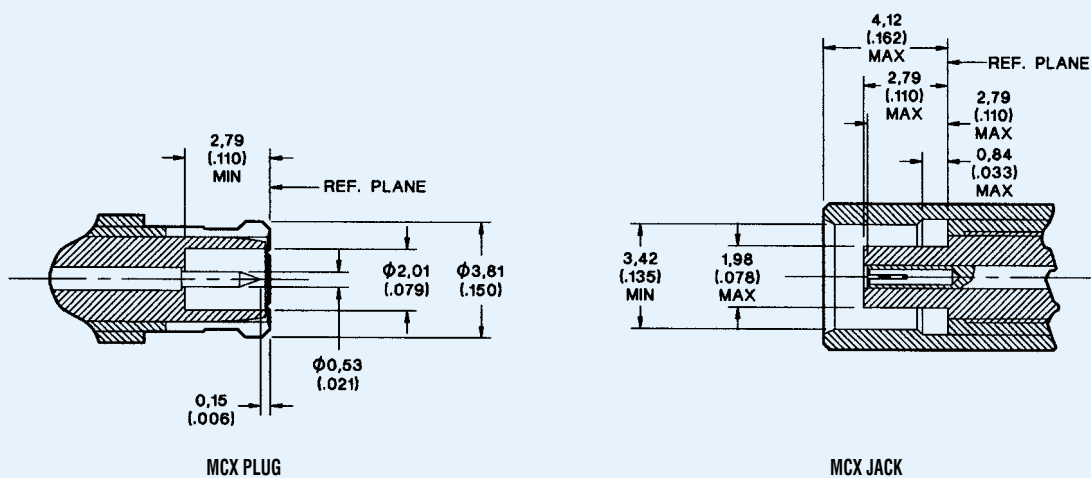


Introduction

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 MΩ
	Contact Resistance	5.0 mΩ maximum
	Voltage Standing Wave Ratio (VSWR)	1.28 maximum
	Outer Conductor Continuity	2.5 mΩ
	Insertion Loss	0.1 dB maximum @ 1 GHz
	Engagement Force	15 N (3.4 lbs.) maximum
	Disengagement Force	20 N (4.5 lbs.) maximum. 10 N (2.25 lbs.) minimum
MECHANICAL	Cable Retention Force	>60 N (13.5 lbs.) maximum
	Termination	Outer conductor: Crimp. Inner conductor: Solder
	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)
ENVIRONMENTAL	Operating Temperature	−55° C to 155° C
	Connector Durability	500 matings minimum
GENERAL		

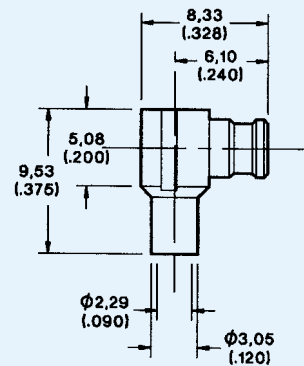
MCX

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

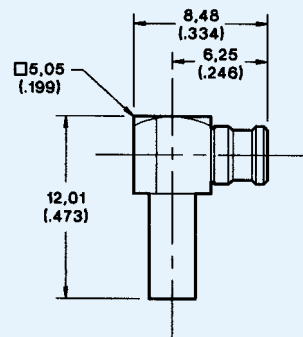
Part Number	Cable Number
051-C11-9072220	RG405/U



Assembly Instruction AI-755 (Page 126)

Right Angle Cable Plug

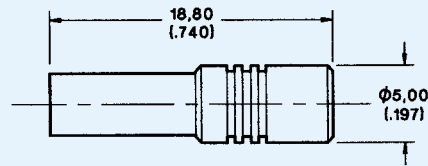
Part Number	Cable Numbers
051-C28-9019T90	RG178/U, 196/U
051-C28-9029T90	RG174/U, 316/U



Assembly Instruction BBAI-1212 (Page 110)

Straight Cable Jack

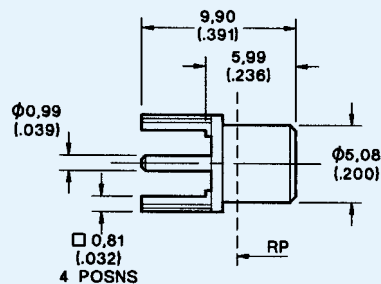
Part Number	Cable Numbers
051-C23-9188220	RG174/U, 316/U



Assembly Instruction AI-772 (Page 129)

Straight PCB Jack

Part Number
051-C51-9039T90



Mounting Plan B (Page 108)