

Description

MCX connectors are intended for applications that require the smallest possible coaxial interface to be used with standard miniature single and double shielded flexible, and semi-rigid cables. The MMCX series is a scaled-down version of the MCX series. It features the same reliable Snap-On mating and performance to 6 GHz, but is smaller.

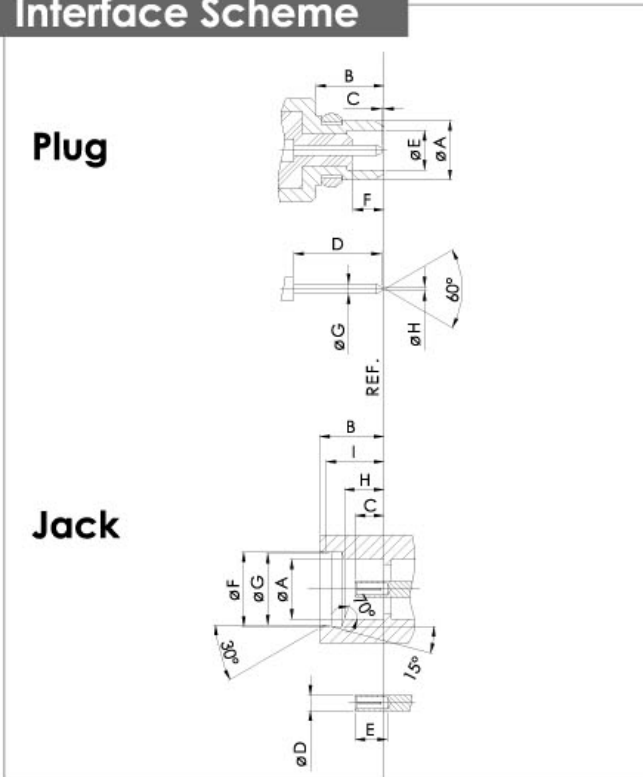
Its low profile makes the series the best choice for cellular phones, GPS, and other size-critical applications.

Zeeteq MCX connectors comply with CECC 22340.

Configuration

plug straight cable connector.....	27
plug right angle cable connector.....	28
jack receptacle.....	29
plug receptacle.....	30

Interface Scheme



Interface Dimensions

	Plug		Jack		
	min.	max.	min.	max.	
A	-	2.40	2.41	-	A
B	2.70	-	-	2.65	B
C	0.00	0.25	0.90	1.20	C
D	1.23	-	0.70 nom.		D
E	1.58	1.62	1.40	-	E
F	1.23	-	3.00	3.04	F
G	0.38	0.42	2.88	2.92	G
H	-	0.20	1.57	1.63	H
I			2.26	2.34	I

SPECIFICATION

ELECTRICAL DATA

Impedance	50Ω
Frequency range	DC-6GHz
VSWR(typical values)	
-up to 4 GHz	≤ 1.15
-4 up to 6 GHz	≤ 1.40
RF leakage @ 1GHz	
-flexible cable	≥ 60dB
-semi-rigid cable	≥ 70dB
Dielectric withstanding voltage(sea level, in Vrms,50Hz)	≥ 500
Working voltage(at sea level, in Vrms,50Hz)	≤ 170
Insulation resistance	≥ 1000MΩ
Contact resistance	
-center contact	≤ 5.0mΩ
-outer contact	≤ 2.5mΩ

MECHANICAL DATA

Engagement force	≤ 15N
Disengagement force	6-15N
Contact captivation	≥ 10N
Durability(matings)	≥ 500

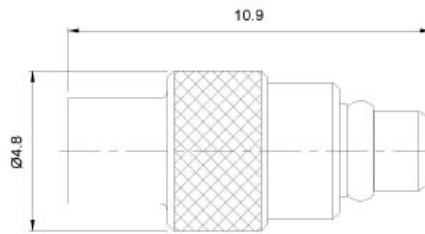
ENVIRONMENTAL DATA

Temperature range	-55°C- +155°C
Climatic category	IEC 55/155/21
Thermal shock	MIL-STD-202,Method 107, Condition B
Moisture resistance	MIL-STD-202,Method 106
Corrosion	MIL-STD-202,Method 101, Condition B
Vibration	MIL-STD-202,Method 204, Condition D

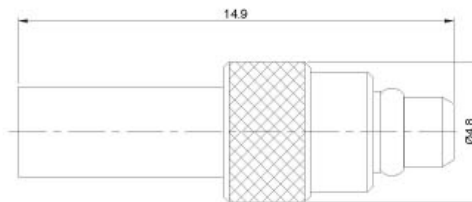
MATERIAL DATA

PART	MATERIAL	PLATING
Body, pin contact	Brass	Gold
Socket contact	Beryllium copper	Gold
Ferrule	Brass	Gold
Lock ring	Beryllium copper	Gold
Insulator	PTFE	

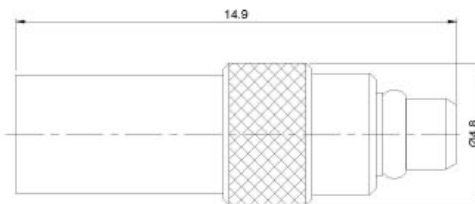
PLUG STRAIGHT CABLE CONNECTORS



Part number	Cable code	Cable	Center contact	Outer contact	Body plating
5118.MMCX.PSC.01.111	01	UT47	solder	solder	gold
5119.MMCX.PSC.02.111	02	UT85 RG405	solder	solder	gold

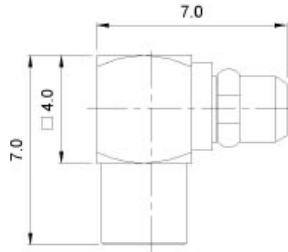


Part number	Cable code	Cable	Center contact	Outer contact	Body plating
5120.MMCX.PSC.05.111	05	RG178 RG196	solder	crimp	gold

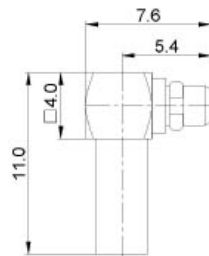


Part number	Cable code	Cable	Center contact	Outer contact	Body plating
5121.MMCX.PSC.06.111	06	RG174 RG188 RG316	solder	crimp	gold
5122.MMCX.PSC.07.111	07	RG316D	solder	crimp	gold

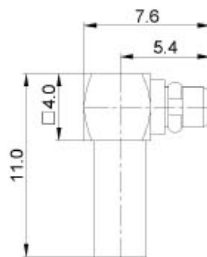
PLUG RIGHT ANGLE CABLE CONNECTORS



Part number	Cable code	Cable	Center contact	Outer contact	Body plating
5123.MMCX.PRC.01.111	01	UT47	solder	solder	gold
5124.MMCX.PRC.02.111	02	UT85 RG405	solder	solder	gold

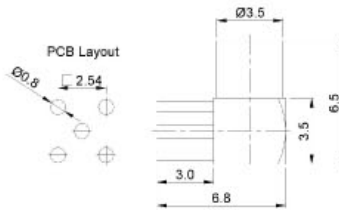


Part number	Cable code	Cable	Center contact	Outer contact	Body plating
5125.MMCX.PRC.05.111	05	RG178 RG196	solder	crimp	gold

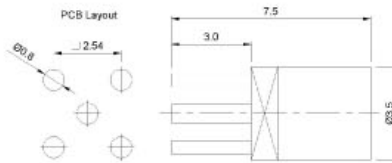


Part number	Cable code	Cable	Center contact	Outer contact	Body plating
5126.MMCX.PRC.06.111	06	RG174 RG188 RG316	solder	crimp	gold
5127.MMCX.PRC.07.111	07	RG316D	solder	crimp	gold

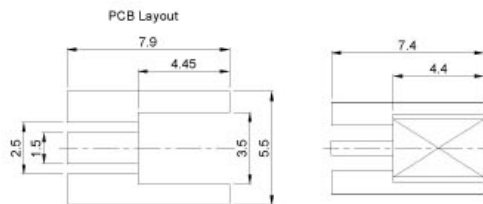
JACK RECEPTACLES



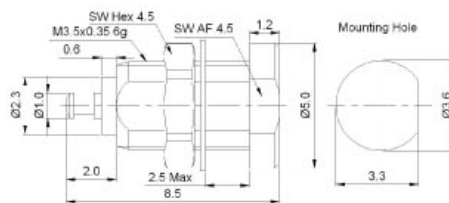
Part number	Center contact	Body plating	Notes
5982.MMCX.JRT.00.110	through hole	gold	PCB through hole mount



Part number	Center contact	Body plating	Notes
5983.MMCX.JST.00.110	through hole	gold	PCB through hole mount

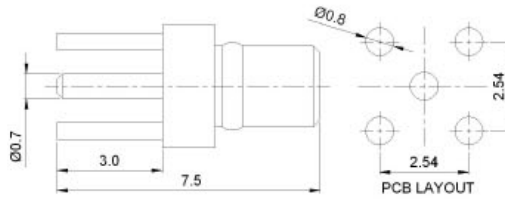


Part number	Center contact	Body plating	Notes
5984.MMCX.JSE.00.110	edge mount	gold	PCB edge mount

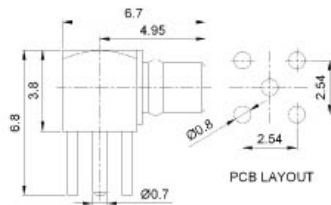


Part number	Center contact	Body plating	Notes
5981.MMCX.JSB.00.111	coaxial stub	gold	extended dielectric

PLUG RECEPTACLES



Part number	Center contact	Body plating	Notes
5979.MMCX.PST.00.110	through hole	gold	PCB through hole mount



Part number	Center contact	Body plating	Notes
5980.MMCX.PRT.00.110	through hole	gold	PCB through hole mount