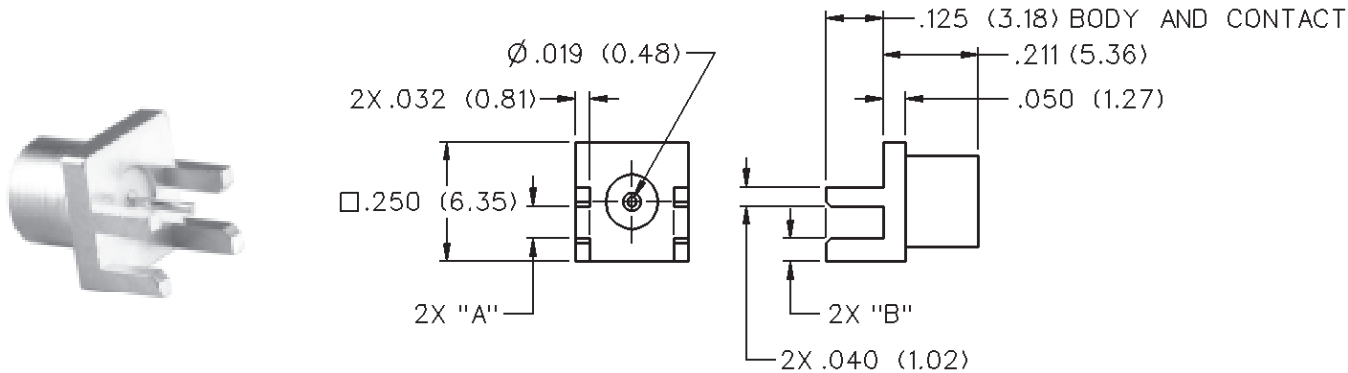


MCX 50 Ohm End Launch Jack Receptacle - Round Contact



BOARD THICKNESS	GOLD PLATED	NICKEL PLATED	"A"	"B"
.042 (1.07)	133-3701-811	133-3701-816	.048 (1.22)	.068 (1.73)

MCX - 50 Ohm Connectors

Specifications



cinch
CONNECTIVITY SOLUTIONS
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INCHES (MILLIMETERS)
CUSTOMER DRAWINGS AVAILABLE UPON REQUEST

ELECTRICAL RATINGS

Impedance: 50 Ohms

Frequency Range: Connectors 0-6 GHz
Dummy loads 0-1 GHz

VSWR: (f = GHz)

Straight Cabled Right Angle
Connectors Cabled Connectors

RG-178 cable 1.17 + .04f 1.07 + .06f
RG-316 and .086 semi-rigid cable ... 1.13 + .04f 1.07 + .04f
Adapters 1.13 + .04f
Uncabled receptacles, Dummy loads N/A

Working Voltage: (Vrms maximum)†

Connectors for Cable Type	Sea Level	70K Feet
RG-178	250	65
RG-316, .086 semi-rigid uncabled uncabled receptacles, adapters	335	85
Dummy loads	N/A	N/A

Dielectric Withstanding Voltage: (VRMS minimum at sea level)

Connectors for RG-178	750
Connectors for RG-316, .086 semi-rigid, uncabled receptacles, adapters	1000
Dummy loads	N/A

Corona Level: (Volts minimum at 70,000 feet)

Connectors for RG-178	190
Connectors for RG-316, .086 semi-rigid uncabled receptacles, adapters	250
Dummy loads	N/A

Insertion Loss: (dB maximum, tested at 1 GHz)

Straight cable connectors and adapters	0.1 dB
Right angle cable connectors	0.2 dB
Uncabled receptacles, dummy loads	N/A

Insulation Resistance: 10,000 megohms minimum

Contact Resistance: (milliohms maximum)

	Initial	After Environmental
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Center contact (straight cabled connectors, uncabled receptacles and adapters)	5.0	8.0
Center contact (right angle cabled connectors)	5.0	15.0
Outer contact	1.0	1.5
Braid to body (gold plated connectors)	1.0	N/A
Braid to body (nickel plated connectors)	2.5	N/A

RF Leakage: (dB typical tested at 2.5 GHz)

Cable connectors	-55 dB
Uncabled receptacles and adapters, dummy loads	N/A

RF High Potential Withstanding Voltage: (Vrms minimum, tested at 4 and 7 MHz)

Connectors for RG178	500
Connectors for RG316 and adapters	700
.086 semi-rigid	670
Uncabled receptacles	600
Dummy loads	N/A

Power Rating (Dummy Load): 0.5 watt @ +25°C, derated to 0.25 watt @ +125°C

MECHANICAL RATINGS

Engagement Design: Compatible with CECC 22220, Series MCX

Engagement Force: 5.6 pounds maximum axial force

Disengagement Force: 8 pounds maximum axial force, 1 pound min.

Contact Retention: 2.3 pounds min. axial force (captivated contacts)
1 inch-ounce min. torque (uncabled receptacles)

Cable Retention:	Axial Force* (pounds)	Torque (in-oz)
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Connectors for RG178	10	N/A
Connectors for RG316	20	N/A
Connectors for RG316DS	25	N/A
Connectors for .086 semi-rigid	30	16

* or cable breaking strength whichever is less.

ENVIRONMENTAL RATINGS (Meets or exceeds the applicable paragraph of MIL-C-39012)

Durability: 500 cycles minimum

Temperature Range: Connectors - 65°C to + 165°C

Dummy loads - 65°C to + 125°C

Thermal Shock: MIL-STD-202, Method 107, Condition F (N/A dummy loads)

Corrosion: MIL-STD-202, Method 101, Condition B (N/A dummy loads)

Shock: MIL-STD-202, Method 213, Condition B (N/A dummy loads)

Vibration: MIL-STD-202, Method 204, Condition B (N/A dummy loads)

Moisture Resistance: MIL-STD-202, Method 106 (N/A dummy loads)

MATERIAL SPECIFICATIONS

Bodies: Brass per QQ-B-626 or zinc per ASTM B86-71, gold plated**
per MIL-G-45204 .00001" min or nickel plated per QQ-N-290 or
bright tin plated

Contacts: Male - brass per QQ-B-626, gold plated per MIL-G-45204
.00003" min.

Female - beryllium copper per QQ-C-530, gold plated per MIL-G-45204 .00003" min.

Insulators: PTFE fluorocarbon per ASTM D 1710 and ASTM D 1457

Expansion Caps: Brass per QQ-B-613, gold plated per MIL-G-45204
.00001" min. or nickel plated per QQ-N-290

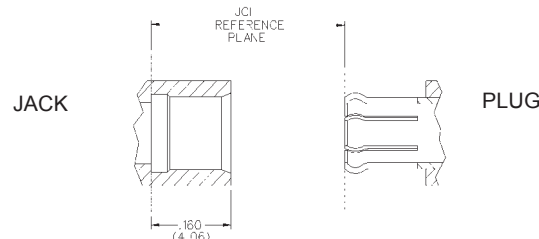
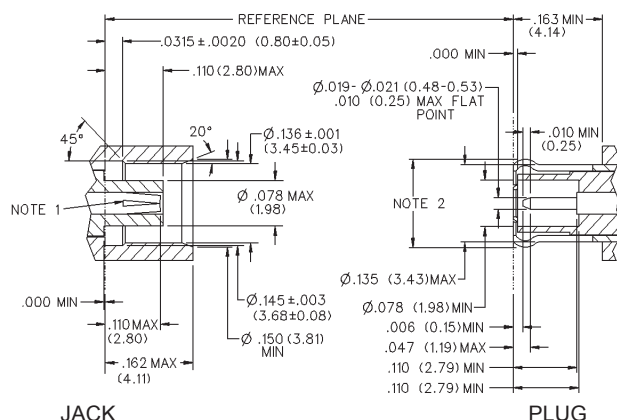
Crimp Sleeves: Copper per WW-T-799, gold plated per MIL-G-45204
.00001" min. or nickel plated per QQ-N-290

Mounting Hardware: Brass (nuts) per QQ-B-626 or phosphor bronze
(lockwashers) QQ-B-750, gold plated per MIL-G-45204 .00001" min.
or nickel plated per QQ-N-290

Avoid user injury due to misapplication. See safety advisory definitions on page 2.

** All gold plated parts include a .00005" min. nickel underplate barrier layer.

MATING ENGAGEMENT FOR MCX SERIES COMPATIBLE WITH CECC 22220



NOTES

1. ID of contact to meet VSWR mating characteristics and connector durability when mated with a dia. .019-.021 (0.48-0.53) male contact.
2. Must meet the force to engage and disengage when mated with mating part.

Cinch Connectivity Solutions

299 Johnson Avenue SW, Waseca, MN 56093 USA • 800.247.8256 • +1 507 833 8822 • cinchconnectivity.com

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Офис по работе с юридическими лицами:

105318, г.Москва, ул.Щербаковская д.3, офис 1107, 1118, ДЦ «Щербаковский»

Телефон: +7 495 668-12-70 (многоканальный)

Факс: +7 495 668-12-70 (доб.304)

E-mail: info@moschip.ru

Skype отдела продаж:

moschip.ru

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moschip.ru_9