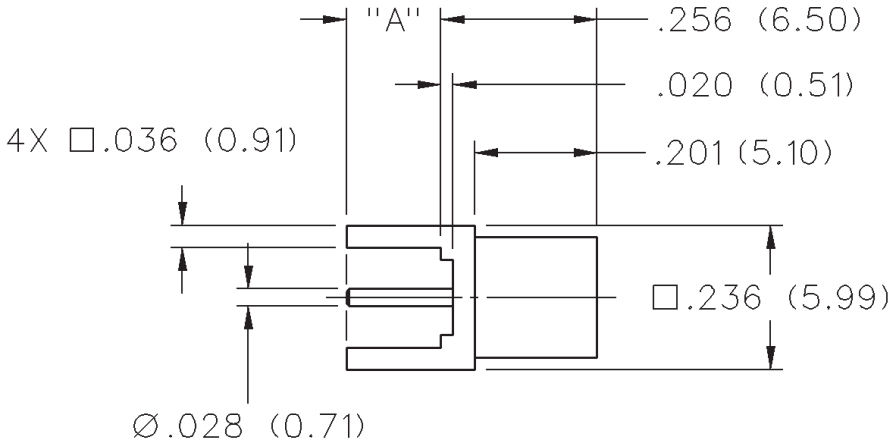
MCX 75 Ohm Straight
PC Mount Jack Receptacle

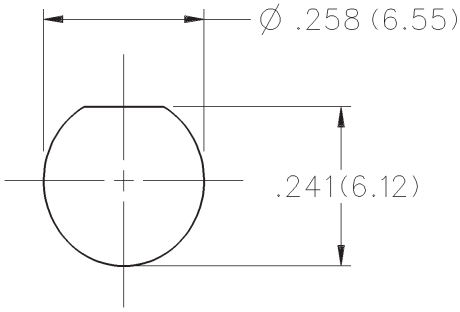
INCHES (MILLIMETERS)
CUSTOMER DRAWINGS AVAILABLE UPON REQUEST





"A"	GOLD PLATED
.110 (2.70)	133-8701-211

Mounting hole layout



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

MCX - 75 Ohm Connectors

Specifications

INCHES (MILLIMETERS)
CUSTOMER DRAWINGS AVAILABLE UPON REQUEST

ELECTRICAL RATINGS

Impedance: 75 Ohms
Frequency Range: 0-6 GHz
VSWR: (f = GHz)

	Straight Cabled Connectors	Right Angle Cabled Connectors
RG-179 cable	1.13 + .04f	1.07 + .04f
In-series adapters	1.07 + .03f	
Between series adapters, loads	1.05 + .01f	
Matching pad	1.05 + .05f	
Uncabled receptacles		N/A

Working Voltage: (Vrms maximum)†

Connectors for Cable Type	Sea Level	70K Feet
RG-179	335	85
Uncabled receptacles, adapters	335	85
Loads, matching pad	N/A	

Dielectric Withstanding Voltage: (VRMS minimum at sea level)
- Connectors for RG-179 1000
- Uncabled receptacles, adapters 1000
- Loads, matching pad ..... N/A

Corona Level: (Volts minimum at 70,000 feet)†
- Connectors for RG-179 250
- Uncabled receptacles, adapters 250
- Loads, matching pad ..... N/A

Insertion Loss: (dB maximum, tested at 1 GHz)
- Straight cable connectors ..... 0.1 dB
- Right angle cable connectors ..... 0.2 dB
- Uncabled receptacles, adapters, matching pad ..... N/A

Insulation Resistance: 10,000 megohms minimum

Contact Resistance: (milliohms maximum)

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

RF Leakage: (dB typical tested at 2.5 GHz)
- Cable connectors ..... -55 dB typical
- Uncabled receptacles, adapters, loads, matching pads ..... N/A

RF High Potential Withstanding Voltage: (Vrms minimum, tested at 4 and 7 MHz)†
- Connectors for RG-179 700
- Uncabled receptacles, adapters 600
- Loads, matching pad ..... N/A

Power Rating: (Loads and matching pad only) 1.0 watt at +25°C derated linearly to 0.5 watt at +125°C

MECHANICAL RATINGS

Engagement Design: Compatible with CECC 22220, Series MCX 50 Ohm
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)**
Connectors for RG-179	20	N/A
Connectors for RG179 DS	25	N/A

*or cable breaking strength whichever is less

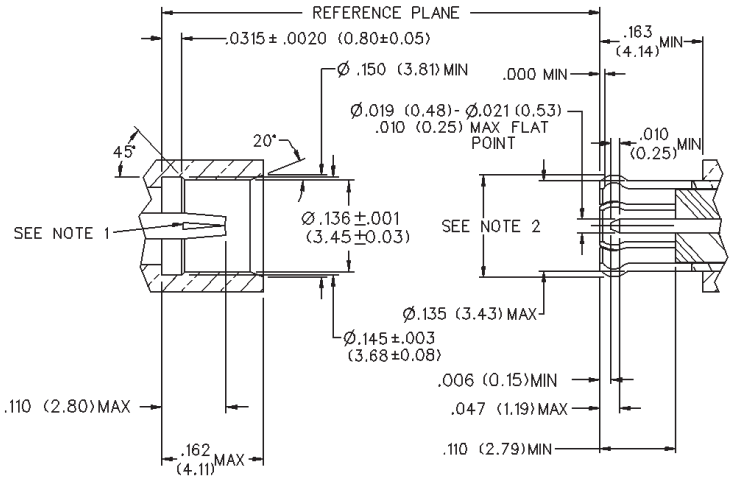
ENVIRONMENTAL RATINGS (Meets or exceed the applicable paragraph of MIL-C-39012)
Durability: 500 cycles minimum
Temperature Range: All connectors: - 65°C to + 165°C
Loads and matching pads: - 65°C to + 125°C
Thermal Shock: MIL-STD-202, Method 107, Condition F
Temperature Coefficient: Loads and matching pad: +/- 300ppm/°C
Corrosion: MIL-STD-202, Method 101, Condition B
Shock: MIL-STD-202, Method 213, Condition B
Vibration: MIL-STD-202, Method 204, Condition B
Moisture Resistance: MIL-STD-202, Method 106

MATERIAL SPECIFICATIONS

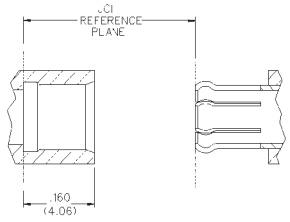
Bodies: Brass per QQ-B-626, gold plated** per MIL-G-45204 .00001" min. Interface spring - beryllium copper per QQ-C-530, gold plated per MIL-G-45204 .00003" min.
Contacts: Male - brass per QQ-B-626 or beryllium copper per QQ-C-530, gold plated per MIL-G-45204 .00003" min.
Female - beryllium copper per 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.
Crimp Sleeves: Copper per WW-T-799, gold plated per MIL-G-45204 .00001" min.
Mounting Hardware: Brass (nuts) per QQ-B-626 or phosphor bronze (lockwashers) QQ-B-750, gold plated per MIL-G-45204 .00001" min.

†Avoid user injury due to misapplication.
See safety advisory definitions inside front cover.
** All gold plated parts include a .00005" min. nickel underplate barrier layer.

MATING ENGAGEMENT FOR 75 OHM MCX SERIES (INTERMATABLE WITH CECC 22220 50 OHM MCX)



JACK PLUG



JACK PLUG

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.
3. Interface shall intermate with MCX 50 Ohm interface per CECC 22220.

Cinch Connectivity Solutions
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