

Amphenol

NEW PRODUCT RELEASE NEW PRODUCT RELEASE NEW PRODUCT RELEASE NEW PRODUCT RELEASE

75 OHM MCX



75 ohm MCX Coaxial Connectors

There is a growing demand for a 75 ohm connector that offers an excellent blend of reduced size, weight, and durability in the telecommunications and networking marketplace. Our new line of 75 ohm MCX snap-on connectors meet this need and offers performance up to 6 GHz with low reflection.

A 75 ohm MCX connector system is not just a reduced version of an existing subminiature connector system such as SMB. While both series uses identical inner contacts and insulator dimensions, the 75 ohm MCX requires less space than the SMB series. By reducing the

outer diameter by 30% the 75 ohm MCX achieves a lower profile and saves the customer valuable board space.

The product line consists of straight and right angle cable plugs for single and double braided RG-179. The printed circuit board connector is a surface mount design available on tape and reel to allow automatic placement onto the board. All components are machined, which provides an extremely durable and reliable interconnect system.

Applications:

- Antenna
- Automotive
- Base Station
- Components
- GPS
- Head End Equipment
- Instrumentation
- PC/LAN
- Radios
- Telecom
- WLAN

Features	Benefits
Broadband performance with low reflection DC to 6 GHz.	Low cost combined with high quality.
Quick connect/disconnect snap-on mating.	Reduces installation time.
Surface mount PCB.	Allows customers to automatically place connectors on printed circuit board.
30% reduction in size over SMB.	Saves valuable board space.

75 OHM MCX CONNECTOR

Specifications:

Electrical:

Impedance	75 ohms
Frequency range	0-6 GHz
Voltage rating	170 Volts
Dielectric withstanding voltage	500 Volts
VSWR	1.06 @ 2.5 GHz (straight) 1.08 @ 2.5 GHz (rt. angle)
Contact Resistance	Center contact 5 milliohms; Outer contact 2.5 milliohms
Insulation resistance	10,000 megaohms min.
Insertion loss	0.10 dB @ 1 GHz

Material:

Body, Metal Parts Finish	Brass per QQB-626 Nickel or gold
Center contacts	Male: Brass or beryllium Female: Beryllium copper, per QQC 530 heat treated per MIL H-7199
Insulators	PTFE
Gasket	Silicone rubber
Crimp ferrules	Seamless copper tubing alloy
Finish	Nickel or gold

Mechanical:

Mating	75 ohm snap-on couplings, per CECC 22220
Engagement forces	engagement 5.6 lbs. (20N) max. disengagement 2.3 lbs. (10N) min.
Connector affixment to cable	Braid and jacket: hex crimp.
Cable affixment to center contact	Solder
Contact captivation	2.3 lbs.
Connector durability	500 mating and unmating cycles min.

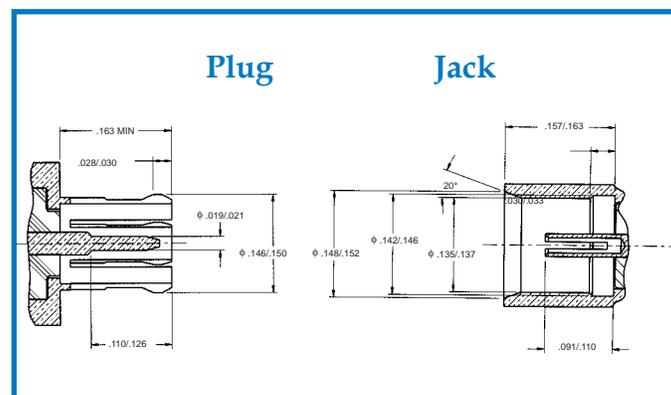
Environmental:

Temperature range	-65°C to +165°C
Thermal shock	MIL-STD-202 method 107 (test cond. C) except high temperatures @ 200°C
Vibration	MIL-STD-202 method 204, snap-on (test cond. D)
Shock	MIL-STD-202 method 107, snap-on (test cond. C)
Corrosion	MIL-STD-202 method 101 (test cond. D) 5% salt solution.

Ordering Information

Part No.	Cable Size	Description
919-137P-71SX	RG-179	Straight Crimp Plug
919-137P-71S2X	RD-179	Straight Crimp Plug
919-136P-71AX	RG-179	Right Angle Crimp Plug
919-136P-71A2X	RD-179	Right Angle Crimp Plug
919-132J-71P	N/A	Surface Mount Jack
919-124J-71P	N/A	Thru-Hole PCB Jack

75 Ohm MCX Interface Specifications



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