

# 1200 Series MCX

50 Ohm Cable and PCB Connectors



Bomar products, like the 1200 Series MCX 50 Ohm Cable and PCB Connectors, are now sold under the Win™ brand from Winchester Interconnect™.

## Product Description

Winchester Interconnect's 1200 Series MCX 50 Ohm Cable and PCB Connectors can be used in a wide range of applications including Test and Measurement, Mil-Aero, Satellite Communication, Wireless Communication, and Medical Equipment.

Our 1200 Series MCX Connectors are designed in accordance with European Specification CECC 22220 and feature a "Snap-On" interface designed for a frequency range of DC to 6 GHz.

Male cable plug connectors are available in straight and right-angle designs for popular flexible and semi-rigid cables.

Printed circuit board (PCB) connectors are available in straight and right-angle through-hole solder, and also in our unique E-Snap® Edge-Mount design.



- Quick connect disconnect snap-on mating reduces installation time.



- Miniature design MCX Connectors offer 30% reduction in size compared to SMB connectors.



- E-Snap® Edge-Mount connectors provide superior RF performance versus traditional right-angle connects, as straight contact provides the best transmission path.



**Winchester**  
Interconnect™

*We Energize Innovation.*

## Specifications

|                                                                                                        |                                                                              |                                                |                                                           |                                                          |
|--------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------|------------------------------------------------|-----------------------------------------------------------|----------------------------------------------------------|
| <b>Electrical Impedance</b><br>50 Ohms                                                                 | <b>Contact Resistance</b><br>Center<br>≤ 5 Megohms<br>Outer<br>≤ 2.5 Megohms | <b>Engagement Force</b><br>≤ 5.6 lbs. (25N)    | <b>Contact Finish</b><br>Gold                             | <b>Moisture Resistance</b><br>MIL-STS-202,<br>Method 105 |
| <b>Frequency</b><br>DC to 6 GHz                                                                        | <b>Insulation Resistance</b><br>1000 Megohms Min                             | <b>Disengagement Force</b><br>≥ 2.3 lbs. (10N) | <b>Insulator</b><br>PTFE                                  | <b>Corrosion</b><br>MIL-STD-202,<br>Method 101           |
| <b>RF-Leakage</b><br>60 dB Min at 1 GHz                                                                | <b>Mechanical Mating</b><br>Snap-On Coupling                                 | <b>Durability</b><br>500 Cycles Min            | <b>Crimp Ferrule</b><br>Copper or Brass<br>Nickel Plated  | <b>Mechanical Shock</b><br>MIL-STD-202,<br>Method 101    |
| <b>Dielectric Withstanding Voltage</b><br>500 VRMS at sea level                                        | <b>Contact Captivation</b><br>2.3 lbs. (10N)                                 | <b>Material Body</b><br>Brass                  | <b>Environmental Temperature Range</b><br>-55°C to +155°C | <b>Humidity</b><br>MIL-STD-202,<br>Method 101            |
| <b>VSWR</b><br><i>Straight</i><br>1.06 Max DC – 2.5 GHz<br><i>Right-Angle</i><br>1.10 Max DC – 2.5 GHz |                                                                              | <b>Body Finish</b><br>Nickel                   | <b>Thermal Shock</b><br>MIL-STD-202,<br>Method 107        |                                                          |
|                                                                                                        |                                                                              | <b>Contact</b><br>Male Brass<br>Female BECU    |                                                           |                                                          |

## Part Numbers

| Part Number  | Straight and Right-Angle Cable Plugs            | Crimp Tool | Hex Size       |
|--------------|-------------------------------------------------|------------|----------------|
| 1210A204M    | Straight Cable Plug for RG174, RG316, LMR100    | BDHD200    | Solder / 0.128 |
| 1210A204MS   | Straight Cable Plug for RD316                   | BDHD200    | Solder / 0.151 |
| 1213A204M    | Right-Angle Cable Plug for RG174, RG316, LMR100 | BDHD200    | Solder / 0.129 |
| 1213A204MS   | Right-Angle Cable Plug for RD316                | BDHD200    | Solder / 0.151 |
| 1213A204-402 | Right-Angle Cable Plug for RG402 Semi-Rigid     | Solder     | Solder         |
| 1213A204-405 | Right-Angle Cable Plug for RG405 Semi-Rigid     | Solder     | Solder         |

| Part Number | Bulkhead Cable Jack                                   | Crimp Tool | Hex Size       |
|-------------|-------------------------------------------------------|------------|----------------|
| 1220A204M   | Straight Bulkhead Cable Jack for RG174, RG316, LMR100 | BDHD200    | Solder / 0.128 |

| Part Number | Printed Circuit Board Connectors           | PCB Thickness | Packaging |
|-------------|--------------------------------------------|---------------|-----------|
| 1261A514    | Vertical, MCX, Jack, 0.155" Solder Tail    | 0.062"        | Single    |
| 1264A514RT  | Right-Angle, MCX, Jack, 0.155" Solder Tail | 0.062"        | Single    |
| 1261A541SM  | Vertical, MCX, Jack, Surface Mount         | 0.062"        | Single    |
| 1261E504    | E-Snap® Edge-Mount, MCX, Jack              | 0.062"        | Single    |
| 1261E504L   | E-Snap® Edge-Mount, MCX, Jack, Low-Profile | 0.062"        | Single    |

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