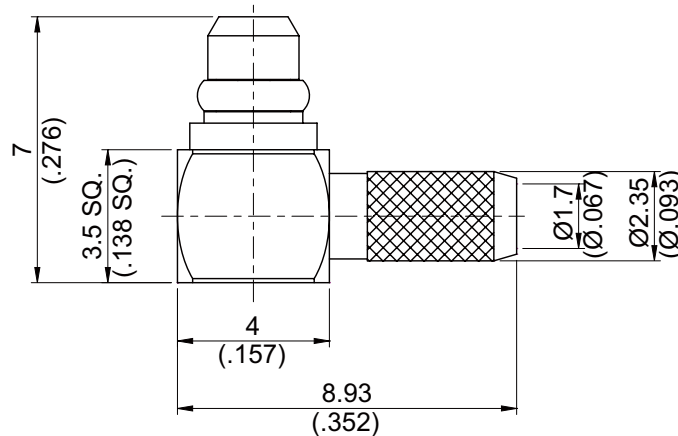


MMCX3100-9L100

**MMCX Plug Crimp Right Angle**  
For JBY100,LMR100; 5GHz VSWR 1.25

**50Ω**



| Parts         | Material         | Plating(Micro-inch)                                    |
|---------------|------------------|--------------------------------------------------------|
| Ferrule       | Brass            | Gold 4 Over Nickel Phosphorous Alloy 80 Over Copper 20 |
| Cover         | Brass            | Gold 4 Over Nickel Phosphorous Alloy 80 Over Copper 20 |
| Insulator     | Teflon           |                                                        |
| Retainer Ring | Beryllium Copper | Gold 4 Over Nickel Phosphorous Alloy 80 Over Copper 20 |
| Contact Pin   | Brass            | Gold 4 Over Nickel Phosphorous Alloy 80 Over Copper 20 |
| Body          | Brass            | Gold 4 Over Nickel Phosphorous Alloy 80 Over Copper 20 |

Suitable Cables:JBY100,LMR100

**This part number complies with RoHS.**

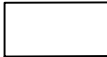
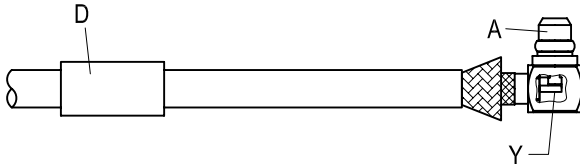
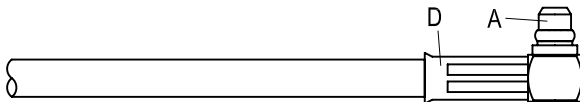
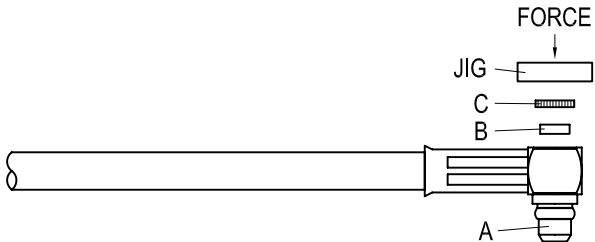
**Notice: JYEBAO reserves the right to make modifications deemed appropriate.**

| MMCX                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | MMCX3100-9L100                       |                   |                 |                     |                                      |                           |                         |                     |                                      |                       |           |                                    |       |                                    |         |                                                |           |                                |           |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------|-------------------|-----------------|---------------------|--------------------------------------|---------------------------|-------------------------|---------------------|--------------------------------------|-----------------------|-----------|------------------------------------|-------|------------------------------------|---------|------------------------------------------------|-----------|--------------------------------|-----------|
| <div>Interface</div> <p>IEC 61169-52</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                      |                   |                 |                     |                                      |                           |                         |                     |                                      |                       |           |                                    |       |                                    |         |                                                |           |                                |           |
| <div>Electrical Data</div> <table> <tr> <td>Impedance</td><td>50Ω</td></tr> <tr> <td>Frequency range</td><td>DC to 5GHz</td></tr> <tr> <td>VSWR</td><td>≤ 1.25 (5GHz)</td></tr> <tr> <td>Insertion loss</td><td>≤ 0.05 x √f(GHz) dB</td></tr> <tr> <td>Insulation resistance</td><td>≥ 10000MΩ</td></tr> <tr> <td>Contact resistance inner conductor</td><td>≤ 5mΩ</td></tr> <tr> <td>Contact resistance outer conductor</td><td>≤ 2.5mΩ</td></tr> <tr> <td>Dielectric withstanding voltage (at sea level)</td><td>500 V rms</td></tr> <tr> <td>Working Voltage (at sea level)</td><td>170 V rms</td></tr> </table> |                                      | Impedance         | 50Ω             | Frequency range     | DC to 5GHz                           | VSWR                      | ≤ 1.25 (5GHz)           | Insertion loss      | ≤ 0.05 x √f(GHz) dB                  | Insulation resistance | ≥ 10000MΩ | Contact resistance inner conductor | ≤ 5mΩ | Contact resistance outer conductor | ≤ 2.5mΩ | Dielectric withstanding voltage (at sea level) | 500 V rms | Working Voltage (at sea level) | 170 V rms |
| Impedance                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 50Ω                                  |                   |                 |                     |                                      |                           |                         |                     |                                      |                       |           |                                    |       |                                    |         |                                                |           |                                |           |
| Frequency range                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | DC to 5GHz                           |                   |                 |                     |                                      |                           |                         |                     |                                      |                       |           |                                    |       |                                    |         |                                                |           |                                |           |
| VSWR                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | ≤ 1.25 (5GHz)                        |                   |                 |                     |                                      |                           |                         |                     |                                      |                       |           |                                    |       |                                    |         |                                                |           |                                |           |
| Insertion loss                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | ≤ 0.05 x √f(GHz) dB                  |                   |                 |                     |                                      |                           |                         |                     |                                      |                       |           |                                    |       |                                    |         |                                                |           |                                |           |
| Insulation resistance                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | ≥ 10000MΩ                            |                   |                 |                     |                                      |                           |                         |                     |                                      |                       |           |                                    |       |                                    |         |                                                |           |                                |           |
| Contact resistance inner conductor                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | ≤ 5mΩ                                |                   |                 |                     |                                      |                           |                         |                     |                                      |                       |           |                                    |       |                                    |         |                                                |           |                                |           |
| Contact resistance outer conductor                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | ≤ 2.5mΩ                              |                   |                 |                     |                                      |                           |                         |                     |                                      |                       |           |                                    |       |                                    |         |                                                |           |                                |           |
| Dielectric withstanding voltage (at sea level)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 500 V rms                            |                   |                 |                     |                                      |                           |                         |                     |                                      |                       |           |                                    |       |                                    |         |                                                |           |                                |           |
| Working Voltage (at sea level)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 170 V rms                            |                   |                 |                     |                                      |                           |                         |                     |                                      |                       |           |                                    |       |                                    |         |                                                |           |                                |           |
| <div>Mechanical Data</div> <table> <tr> <td>Engagement force</td><td>≤ 3.4 lbs</td></tr> <tr> <td>Disengagement force</td><td>1.4 to 3.4 lbs</td></tr> <tr> <td>Contact captivation-axial</td><td>≥ 2.3 lbs</td></tr> <tr> <td>Durability (mating)</td><td>≥ 500</td></tr> </table>                                                                                                                                                                                                                                                                                                                                 |                                      | Engagement force  | ≤ 3.4 lbs       | Disengagement force | 1.4 to 3.4 lbs                       | Contact captivation-axial | ≥ 2.3 lbs               | Durability (mating) | ≥ 500                                |                       |           |                                    |       |                                    |         |                                                |           |                                |           |
| Engagement force                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | ≤ 3.4 lbs                            |                   |                 |                     |                                      |                           |                         |                     |                                      |                       |           |                                    |       |                                    |         |                                                |           |                                |           |
| Disengagement force                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 1.4 to 3.4 lbs                       |                   |                 |                     |                                      |                           |                         |                     |                                      |                       |           |                                    |       |                                    |         |                                                |           |                                |           |
| Contact captivation-axial                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | ≥ 2.3 lbs                            |                   |                 |                     |                                      |                           |                         |                     |                                      |                       |           |                                    |       |                                    |         |                                                |           |                                |           |
| Durability (mating)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | ≥ 500                                |                   |                 |                     |                                      |                           |                         |                     |                                      |                       |           |                                    |       |                                    |         |                                                |           |                                |           |
| <div>Environmental Data</div> <table> <tr> <td>Temperature range</td><td>-65°C to +165°C</td></tr> <tr> <td>Thermal shock</td><td>MIL-STD-202, Method 107, Condition F</td></tr> <tr> <td>Moisture resistance</td><td>MIL-STD-202, Method 106</td></tr> <tr> <td>Corrosion</td><td>MIL-STD-202, Method 101, Condition B</td></tr> <tr> <td>RoHS</td><td>Compliant</td></tr> </table>                                                                                                                                                                                                                                |                                      | Temperature range | -65°C to +165°C | Thermal shock       | MIL-STD-202, Method 107, Condition F | Moisture resistance       | MIL-STD-202, Method 106 | Corrosion           | MIL-STD-202, Method 101, Condition B | RoHS                  | Compliant |                                    |       |                                    |         |                                                |           |                                |           |
| Temperature range                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | -65°C to +165°C                      |                   |                 |                     |                                      |                           |                         |                     |                                      |                       |           |                                    |       |                                    |         |                                                |           |                                |           |
| Thermal shock                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | MIL-STD-202, Method 107, Condition F |                   |                 |                     |                                      |                           |                         |                     |                                      |                       |           |                                    |       |                                    |         |                                                |           |                                |           |
| Moisture resistance                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | MIL-STD-202, Method 106              |                   |                 |                     |                                      |                           |                         |                     |                                      |                       |           |                                    |       |                                    |         |                                                |           |                                |           |
| Corrosion                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | MIL-STD-202, Method 101, Condition B |                   |                 |                     |                                      |                           |                         |                     |                                      |                       |           |                                    |       |                                    |         |                                                |           |                                |           |
| RoHS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Compliant                            |                   |                 |                     |                                      |                           |                         |                     |                                      |                       |           |                                    |       |                                    |         |                                                |           |                                |           |
| <div>Tooling</div> <table> <tr> <td>Crimping tool</td><td>CRT-1 or CRT-2</td></tr> <tr> <td>Crimp insert</td><td>INSERT-A</td></tr> </table>                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                      | Crimping tool     | CRT-1 or CRT-2  | Crimp insert        | INSERT-A                             |                           |                         |                     |                                      |                       |           |                                    |       |                                    |         |                                                |           |                                |           |
| Crimping tool                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | CRT-1 or CRT-2                       |                   |                 |                     |                                      |                           |                         |                     |                                      |                       |           |                                    |       |                                    |         |                                                |           |                                |           |
| Crimp insert                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | INSERT-A                             |                   |                 |                     |                                      |                           |                         |                     |                                      |                       |           |                                    |       |                                    |         |                                                |           |                                |           |

Notice: JYEBAO reserves the right to make modifications deemed appropriate.

# JYE BAO CO., LTD.

## CABLE ASSEMBLY INSTRUCTION

|                                                                                                                     |  |                                                                                   |                                                                                                                                                                            |                                                                                   |                                                                                     |
|---------------------------------------------------------------------------------------------------------------------|--|-----------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| MMCX3100-9L100                                                                                                      |  | DATE                                                                              | 2017/03/27                                                                                                                                                                 | REV                                                                               | —                                                                                   |
| A                                                                                                                   |  | B                                                                                 |                                                                                                                                                                            | C                                                                                 | D                                                                                   |
|                                    |  |  |                                                                                                                                                                            |  |  |
| BODY                                                                                                                |  | INSULATOR                                                                         |                                                                                                                                                                            | COVER                                                                             | FERRULE                                                                             |
| DIAGRAM                                                                                                             |  |                                                                                   | ASSEMBLY INSTRUCTION                                                                                                                                                       |                                                                                   |                                                                                     |
|                                   |  |                                                                                   | Step 1: STRIP AS SHOWN.                                                                                                                                                    |                                                                                   |                                                                                     |
|                                  |  |                                                                                   | Step 2: SLIDE FERRULE " D " OVER CABLE.<br>Step 3: WRAP THE BRAIDING UPWARDS.<br>Step 4: SLIDE CENTER CONDUCTOR ON THE CONTACT PIN OF CONNECTOR " A " AND SOLDER IN " Y ". |                                                                                   |                                                                                     |
|                                  |  |                                                                                   | Step 5: SLIDE FERRULE " D " TOWARDS THE CONNECTOR " A " AND CRIMP.<br>(USE 3.3mm/0.130inch HEX SECTION OF INSERT-A)                                                        |                                                                                   |                                                                                     |
|                                  |  |                                                                                   | Step 6: PRESS ON THE TOP OF " C " AND " B " WITH JIGS.                                                                                                                     |                                                                                   |                                                                                     |
| This part number complies with RoHS.<br>Notice: JYEBAO reserves the right to make modifications deemed appropriate. |  |                                                                                   |                                                                                                                                                                            |                                                                                   |                                                                                     |
| APPROVED                                                                                                            |  | CHECKED                                                                           |                                                                                                                                                                            | DRAWING                                                                           |                                                                                     |
|                                                                                                                     |  |                                                                                   |                                                                                                                                                                            | Albert                                                                            |                                                                                     |

# MMCX3100-9L100

S11

