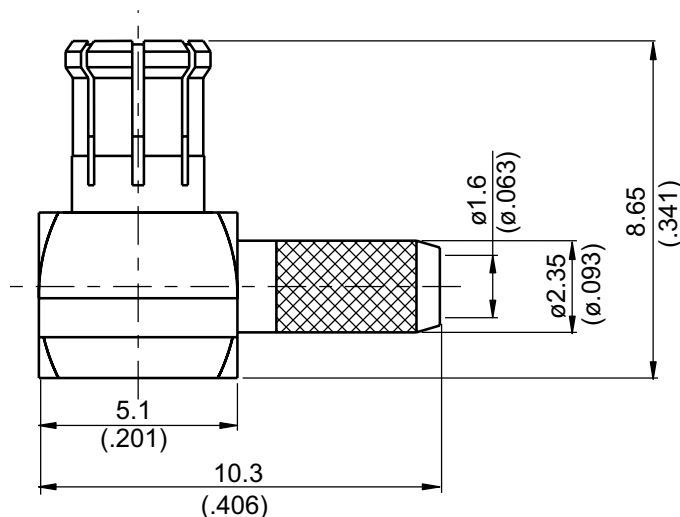


MCX3100-9316

**MCX Plug Crimp Right Angle**  
For RG174,RG188,RG316; 6GHz VSWR 1.2

50Ω



| Parts       | Material        | Plating (Micro-inch)                                  |
|-------------|-----------------|-------------------------------------------------------|
| Ferrule     | Brass           | Gold 4 Over Nickel-Phosphorus Alloy 80 Over Copper 20 |
| Cover       | Brass           | Gold 4 Over Nickel-Phosphorus Alloy 80 Over Copper 20 |
| Contact Pin | Brass           | Gold 4 Over Nickel-Phosphorus Alloy 80 Over Copper 20 |
| Insulator   | Teflon          |                                                       |
| Body        | Phosphor Bronze | Gold 4 Over Nickel-Phosphorus Alloy 80 Over Copper 20 |

Weight: 1.18 g

Suitable Cables: RG174, RG188, RG316

This part number complies with RoHS.

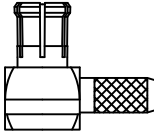
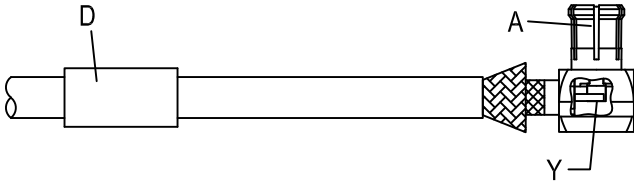
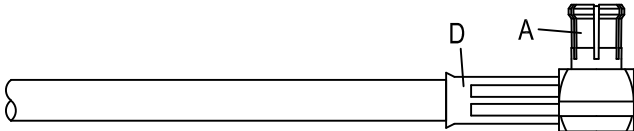
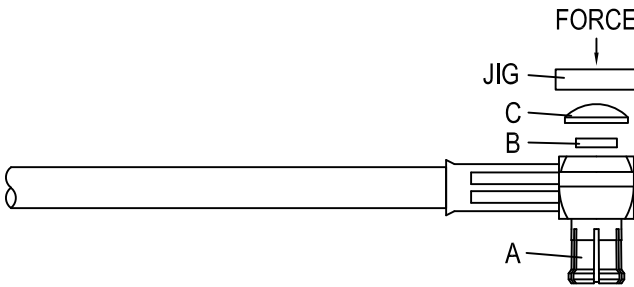
Notice: JYEBAO reserves the right to make modifications deemed appropriate.

| MCX                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | MCX3100-9316                         |                   |                 |                     |                                      |                           |                         |                     |                                      |                       |           |                                    |      |                                    |        |                                                |           |                                |           |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------|-------------------|-----------------|---------------------|--------------------------------------|---------------------------|-------------------------|---------------------|--------------------------------------|-----------------------|-----------|------------------------------------|------|------------------------------------|--------|------------------------------------------------|-----------|--------------------------------|-----------|
| <div>Interface</div> IEC 61169-36                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                      |                   |                 |                     |                                      |                           |                         |                     |                                      |                       |           |                                    |      |                                    |        |                                                |           |                                |           |
| <div>Electrical Data</div> <table> <tr> <td>Impedance</td><td>50Ω</td></tr> <tr> <td>Frequency range</td><td>DC to 6GHz</td></tr> <tr> <td>VSWR</td><td>≤1.2 (DC to 6GHz)</td></tr> <tr> <td>Insertion loss</td><td>≤0.1dB to 1GHz; ≤0.15 to 3GHz</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>750 V rms</td></tr> <tr> <td>Working voltage (at sea level)</td><td>250 V rms</td></tr> </table> |                                      | Impedance         | 50Ω             | Frequency range     | DC to 6GHz                           | VSWR                      | ≤1.2 (DC to 6GHz)       | Insertion loss      | ≤0.1dB to 1GHz; ≤0.15 to 3GHz        | Insulation resistance | ≥10000mΩ  | Contact resistance inner conductor | ≤5mΩ | Contact resistance outer conductor | ≤2.5mΩ | Dielectric withstanding voltage (at sea level) | 750 V rms | Working voltage (at sea level) | 250 V rms |
| Impedance                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 50Ω                                  |                   |                 |                     |                                      |                           |                         |                     |                                      |                       |           |                                    |      |                                    |        |                                                |           |                                |           |
| Frequency range                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | DC to 6GHz                           |                   |                 |                     |                                      |                           |                         |                     |                                      |                       |           |                                    |      |                                    |        |                                                |           |                                |           |
| VSWR                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | ≤1.2 (DC to 6GHz)                    |                   |                 |                     |                                      |                           |                         |                     |                                      |                       |           |                                    |      |                                    |        |                                                |           |                                |           |
| Insertion loss                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | ≤0.1dB to 1GHz; ≤0.15 to 3GHz        |                   |                 |                     |                                      |                           |                         |                     |                                      |                       |           |                                    |      |                                    |        |                                                |           |                                |           |
| Insulation resistance                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | ≥10000mΩ                             |                   |                 |                     |                                      |                           |                         |                     |                                      |                       |           |                                    |      |                                    |        |                                                |           |                                |           |
| Contact resistance inner conductor                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | ≤5mΩ                                 |                   |                 |                     |                                      |                           |                         |                     |                                      |                       |           |                                    |      |                                    |        |                                                |           |                                |           |
| Contact resistance outer conductor                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | ≤2.5mΩ                               |                   |                 |                     |                                      |                           |                         |                     |                                      |                       |           |                                    |      |                                    |        |                                                |           |                                |           |
| Dielectric withstanding voltage (at sea level)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 750 V rms                            |                   |                 |                     |                                      |                           |                         |                     |                                      |                       |           |                                    |      |                                    |        |                                                |           |                                |           |
| Working voltage (at sea level)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 250 V rms                            |                   |                 |                     |                                      |                           |                         |                     |                                      |                       |           |                                    |      |                                    |        |                                                |           |                                |           |
| <div>Mechanical Data</div> <table> <tr> <td>Engagement force</td><td>≤5.6 lbs</td></tr> <tr> <td>Disengagement force</td><td>1.8 to 4.5 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  | ≤5.6 lbs        | Disengagement force | 1.8 to 4.5 lbs                       | Contact captivation-axial | ≥2.3 lbs                | Durability (mating) | ≥500                                 |                       |           |                                    |      |                                    |        |                                                |           |                                |           |
| Engagement force                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | ≤5.6 lbs                             |                   |                 |                     |                                      |                           |                         |                     |                                      |                       |           |                                    |      |                                    |        |                                                |           |                                |           |
| Disengagement force                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 1.8 to 4.5 lbs                       |                   |                 |                     |                                      |                           |                         |                     |                                      |                       |           |                                    |      |                                    |        |                                                |           |                                |           |
| Contact captivation-axial                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | ≥2.3 lbs                             |                   |                 |                     |                                      |                           |                         |                     |                                      |                       |           |                                    |      |                                    |        |                                                |           |                                |           |
| Durability (mating)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | ≥500                                 |                   |                 |                     |                                      |                           |                         |                     |                                      |                       |           |                                    |      |                                    |        |                                                |           |                                |           |
| <div>Environmental Data</div> <table> <tr> <td>Temperature range</td><td>-55°C to +155°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 | -55°C to +155°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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | -55°C to +155°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                             |                   |                 |                     |                                      |                           |                         |                     |                                      |                       |           |                                    |      |                                    |        |                                                |           |                                |           |

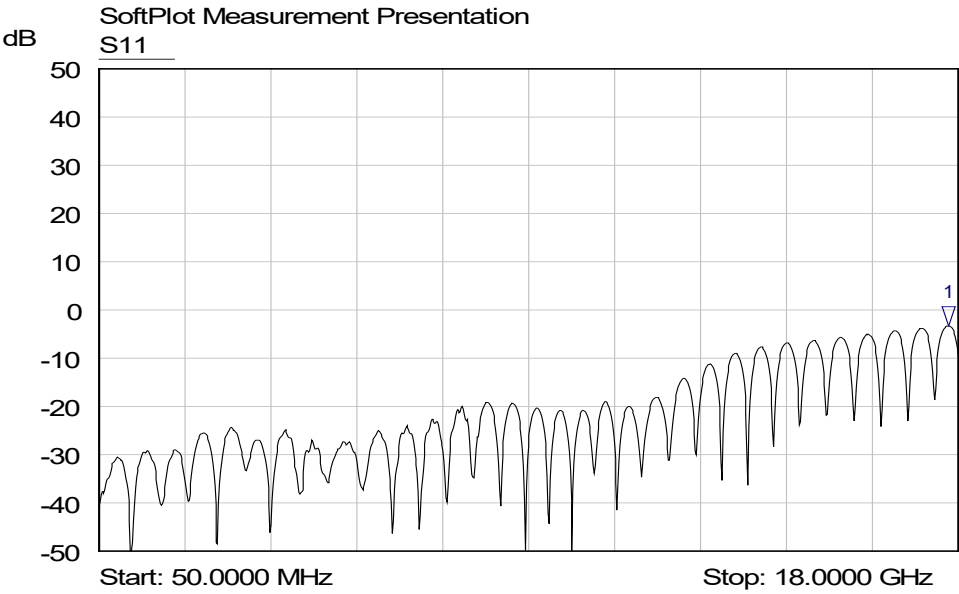
Notice: JYEBAO reserves the right to make modifications deemed appropriate.

# JYE BAO CO., LTD.

## CABLE ASSEMBLY INSTRUCTION

|                                                                                                                     |  |                                                                                   |                                                                                                                                                                            |                                                                                   |   |                                                                                     |
|---------------------------------------------------------------------------------------------------------------------|--|-----------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|---|-------------------------------------------------------------------------------------|
| MCX3100-9316                                                                                                        |  | 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                                                                            |   |                                                                                     |

MCX3100-9316



| Mkr | Trace | X-Axis      | Value    | Notes |
|-----|-------|-------------|----------|-------|
| 1 ▾ | S11   | 17.8003 GHz | -3.29 dB |       |