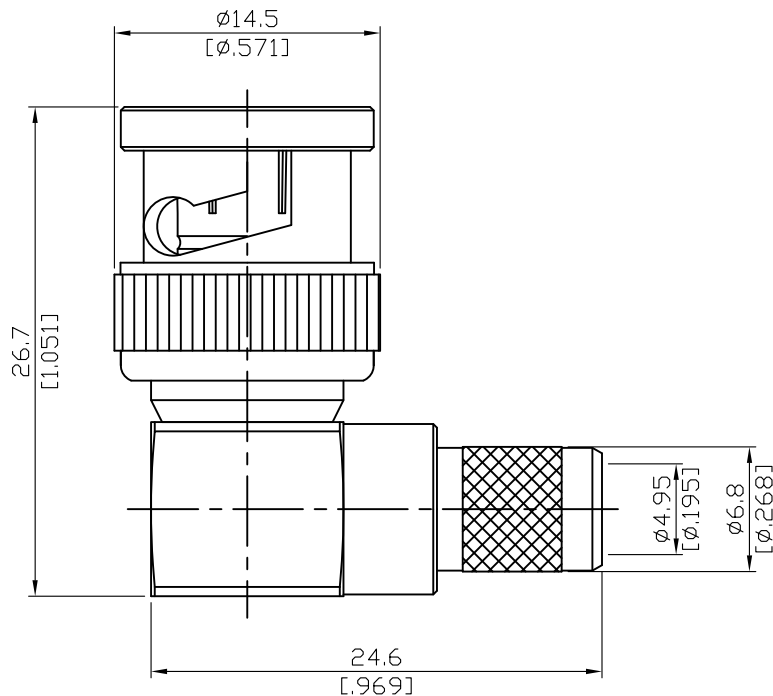


BNC3100-9L300

BNC plug crimp right angle  
For JBY300,LMR300; 4GHz VSWR 1.2

50Ω



| Parts        | Material | Plating ( Micro-inch )                                |
|--------------|----------|-------------------------------------------------------|
| Coupling Nut | Brass    | Tin-Zinc-Copper-Alloy 100 Over Copper 50              |
| Body         | Brass    | Tin-Zinc-Copper-Alloy 100 Over Copper 50              |
| Barrel       | Brass    | Tin-Zinc-Copper-Alloy 100 Over Copper 50              |
| Insulator    | Teflon   |                                                       |
| Contact Pin  | Brass    | Gold 4 Over Nickel-Phosphorus Alloy 80 Over Copper 20 |
| Washer       | Brass    | Tin-Zinc-Copper-Alloy 100 Over Copper 50              |
| Spring       | SK5      | Tin-Zinc-Copper-Alloy 100 Over Copper 50              |
| Gasket       | Silicone |                                                       |
| Nut          | Brass    | Tin-Zinc-Copper-Alloy 100 Over Copper 50              |
| Ferrule      | Copper   | Tin-Zinc-Copper-Alloy 100 Over Copper 50              |

Suitable Cables: LMR300; JBY300

This part number complies with RoHS.

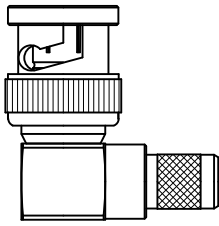
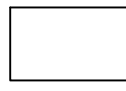
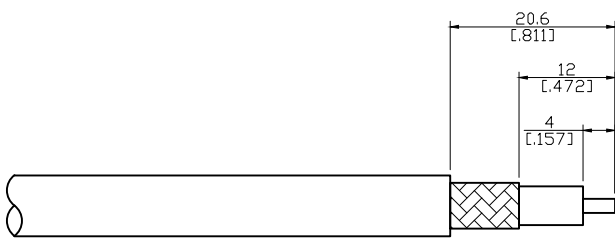
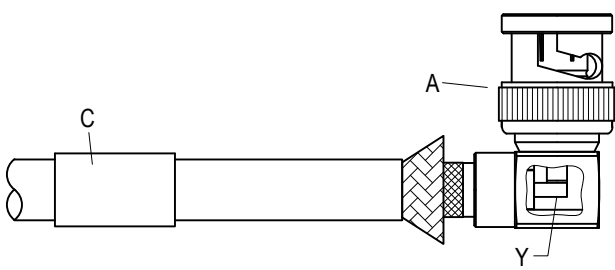
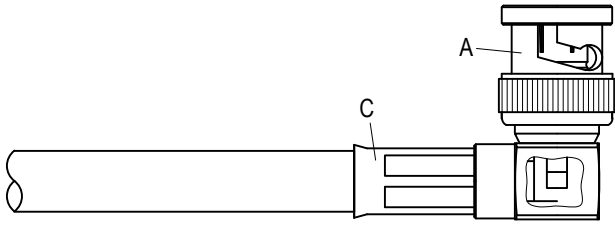
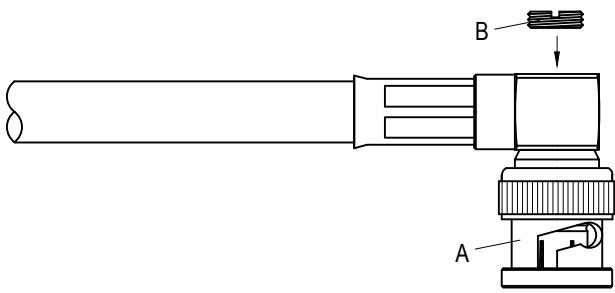
Notice: JYEBAO reserves the right to make modifications deemed appropriate.

| BNC                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | BNC3100-9L300                        |                                 |                     |                              |                                      |                           |                         |                     |                                      |                       |           |                                    |         |                                    |       |                                                |            |                                |           |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------|---------------------------------|---------------------|------------------------------|--------------------------------------|---------------------------|-------------------------|---------------------|--------------------------------------|-----------------------|-----------|------------------------------------|---------|------------------------------------|-------|------------------------------------------------|------------|--------------------------------|-----------|
| <div>Interface</div> MIL-STD-348B                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                      |                                 |                     |                              |                                      |                           |                         |                     |                                      |                       |           |                                    |         |                                    |       |                                                |            |                                |           |
| <div>Electrical Data</div> <table> <tr> <td>Impedance</td><td>50Ω</td></tr> <tr> <td>Frequency range</td><td>DC to 4GHz</td></tr> <tr> <td>VSWR</td><td>≤ 1.2 (DC to 4GHz)</td></tr> <tr> <td>Insertion loss</td><td>≤ 0.1 x √f(GHz)dB</td></tr> <tr> <td>Insulation resistance</td><td>≥ 5000MΩ</td></tr> <tr> <td>Contact resistance inner conductor</td><td>≤ 1.5mΩ</td></tr> <tr> <td>Contact resistance outer conductor</td><td>≤ 1mΩ</td></tr> <tr> <td>Dielectric withstanding voltage (at sea level)</td><td>1500 V rms</td></tr> <tr> <td>Working voltage (at sea level)</td><td>500 V rms</td></tr> </table> |                                      | Impedance                       | 50Ω                 | Frequency range              | DC to 4GHz                           | VSWR                      | ≤ 1.2 (DC to 4GHz)      | Insertion loss      | ≤ 0.1 x √f(GHz)dB                    | Insulation resistance | ≥ 5000MΩ  | Contact resistance inner conductor | ≤ 1.5mΩ | Contact resistance outer conductor | ≤ 1mΩ | Dielectric withstanding voltage (at sea level) | 1500 V rms | Working voltage (at sea level) | 500 V rms |
| Impedance                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 50Ω                                  |                                 |                     |                              |                                      |                           |                         |                     |                                      |                       |           |                                    |         |                                    |       |                                                |            |                                |           |
| Frequency range                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | DC to 4GHz                           |                                 |                     |                              |                                      |                           |                         |                     |                                      |                       |           |                                    |         |                                    |       |                                                |            |                                |           |
| VSWR                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | ≤ 1.2 (DC to 4GHz)                   |                                 |                     |                              |                                      |                           |                         |                     |                                      |                       |           |                                    |         |                                    |       |                                                |            |                                |           |
| Insertion loss                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | ≤ 0.1 x √f(GHz)dB                    |                                 |                     |                              |                                      |                           |                         |                     |                                      |                       |           |                                    |         |                                    |       |                                                |            |                                |           |
| Insulation resistance                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | ≥ 5000MΩ                             |                                 |                     |                              |                                      |                           |                         |                     |                                      |                       |           |                                    |         |                                    |       |                                                |            |                                |           |
| Contact resistance inner conductor                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | ≤ 1.5mΩ                              |                                 |                     |                              |                                      |                           |                         |                     |                                      |                       |           |                                    |         |                                    |       |                                                |            |                                |           |
| Contact resistance outer conductor                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | ≤ 1mΩ                                |                                 |                     |                              |                                      |                           |                         |                     |                                      |                       |           |                                    |         |                                    |       |                                                |            |                                |           |
| Dielectric withstanding voltage (at sea level)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 1500 V rms                           |                                 |                     |                              |                                      |                           |                         |                     |                                      |                       |           |                                    |         |                                    |       |                                                |            |                                |           |
| Working voltage (at sea level)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 500 V rms                            |                                 |                     |                              |                                      |                           |                         |                     |                                      |                       |           |                                    |         |                                    |       |                                                |            |                                |           |
| <div>Mechanical Data</div> <table> <tr> <td>Recommended coupling nut torque</td><td>0.6 to 2.5 inch lbs</td></tr> <tr> <td>Coupling nut retention force</td><td>≥ 101.2 lbs</td></tr> <tr> <td>Contact captivation-axial</td><td>≥ 6.1 lbs</td></tr> <tr> <td>Durability (mating)</td><td>≥ 500</td></tr> </table>                                                                                                                                                                                                                                                                                                     |                                      | Recommended coupling nut torque | 0.6 to 2.5 inch lbs | Coupling nut retention force | ≥ 101.2 lbs                          | Contact captivation-axial | ≥ 6.1 lbs               | Durability (mating) | ≥ 500                                |                       |           |                                    |         |                                    |       |                                                |            |                                |           |
| Recommended coupling nut torque                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 0.6 to 2.5 inch lbs                  |                                 |                     |                              |                                      |                           |                         |                     |                                      |                       |           |                                    |         |                                    |       |                                                |            |                                |           |
| Coupling nut retention force                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | ≥ 101.2 lbs                          |                                 |                     |                              |                                      |                           |                         |                     |                                      |                       |           |                                    |         |                                    |       |                                                |            |                                |           |
| Contact captivation-axial                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | ≥ 6.1 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 B</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 B | 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 B |                                 |                     |                              |                                      |                           |                         |                     |                                      |                       |           |                                    |         |                                    |       |                                                |            |                                |           |
| 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-D</td></tr> </table>                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                      | Crimping tool                   | CRT-1 or CRT-2      | Crimp insert                 | INSERT-D                             |                           |                         |                     |                                      |                       |           |                                    |         |                                    |       |                                                |            |                                |           |
| Crimping tool                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | CRT-1 or CRT-2                       |                                 |                     |                              |                                      |                           |                         |                     |                                      |                       |           |                                    |         |                                    |       |                                                |            |                                |           |
| Crimp insert                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | INSERT-D                             |                                 |                     |                              |                                      |                           |                         |                     |                                      |                       |           |                                    |         |                                    |       |                                                |            |                                |           |

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

# JYE BAO CO., LTD.

## CABLE ASSEMBLY INSTRUCTION

|                                                                                                                     |  |                                                                                                                                                                            |            |                                                                                                                     |   |
|---------------------------------------------------------------------------------------------------------------------|--|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------|---------------------------------------------------------------------------------------------------------------------|---|
| BNC3100-9L300                                                                                                       |  | DATE                                                                                                                                                                       | 2014/04/29 | REV                                                                                                                 | — |
| <div>A</div>  <div>BODY</div>      |  | <div>B</div>  <div>NUT</div>                                                              |            | <div>C</div>  <div>FERRULE</div> |   |
| DIAGRAM                                                                                                             |  | ASSEMBLY INSTRUCTION                                                                                                                                                       |            |                                                                                                                     |   |
|                                   |  | Step 1: STRIP AS SHOWN.                                                                                                                                                    |            |                                                                                                                     |   |
|                                  |  | Step 2: SLIDE FERRULE " C " 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 " C " TOWARDS THE CONNECTOR " A " AND CRIMP.<br>(USE 7.9mm/0.311inch HEX SECTION OF INSERT-D)                                                        |            |                                                                                                                     |   |
|                                  |  | Step 6: FINALLY SCREW " B " ON THE CONNECTOR BODY " A ".                                                                                                                   |            |                                                                                                                     |   |
| This part number complies with RoHS.<br>Notice: JYEBAO reserves the right to make modifications deemed appropriate. |  |                                                                                                                                                                            |            |                                                                                                                     |   |
| APPROVED                                                                                                            |  | CHECKED                                                                                                                                                                    |            | DRAWING                                                                                                             |   |
|                                                                                                                     |  |                                                                                                                                                                            |            | Albert                                                                                                              |   |