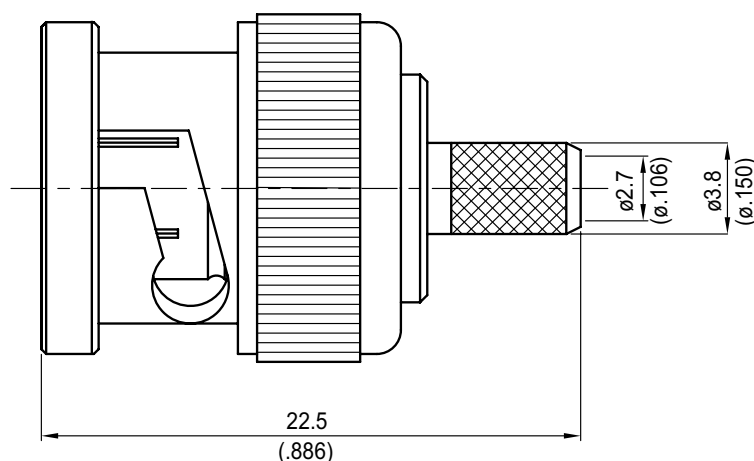


BNC3100-02.5C2

**BNC Plug Crimp For 2.5C-2W**  
**1GHz VSWR 1.2**

**75Ω**



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

Suitable Cables: 2.5C-2W

**This part number complies with RoHS.**

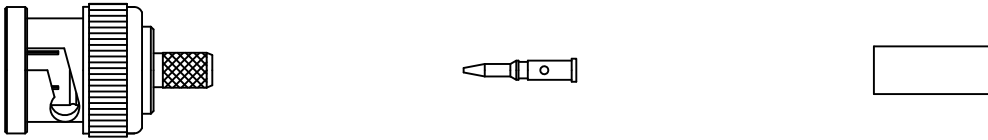
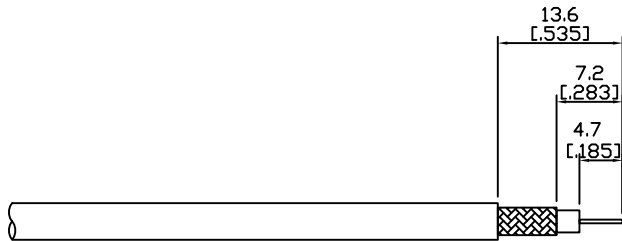
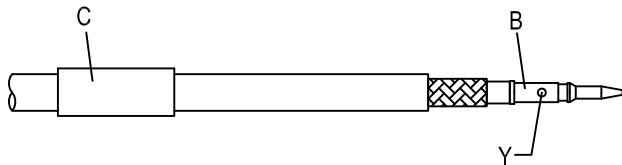
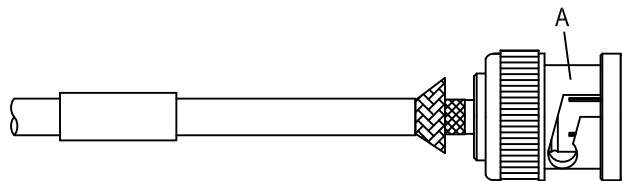
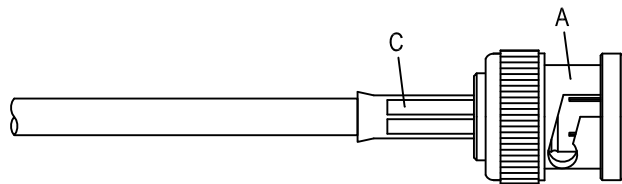
**Notice: JYEBAO reserves the right to make modifications deemed appropriate.**

| BNC                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | BNC3100-02.5C2                       |                                 |                     |                              |                                      |                           |                         |                     |                                      |                       |           |                                    |        |                                    |      |                                                |            |                                |           |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------|---------------------------------|---------------------|------------------------------|--------------------------------------|---------------------------|-------------------------|---------------------|--------------------------------------|-----------------------|-----------|------------------------------------|--------|------------------------------------|------|------------------------------------------------|------------|--------------------------------|-----------|
| <div>Interface</div> MIL-STD-348B                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                      |                                 |                     |                              |                                      |                           |                         |                     |                                      |                       |           |                                    |        |                                    |      |                                                |            |                                |           |
| <div>Electrical Data</div> <table> <tr> <td>Impedance</td><td>75Ω</td></tr> <tr> <td>Frequency range</td><td>DC to 1GHz</td></tr> <tr> <td>VSWR</td><td>≤1.2 (DC to 1GHz)</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                       | 75Ω                 | Frequency range              | DC to 1GHz                           | VSWR                      | ≤1.2 (DC to 1GHz)       | 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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 75Ω                                  |                                 |                     |                              |                                      |                           |                         |                     |                                      |                       |           |                                    |        |                                    |      |                                                |            |                                |           |
| Frequency range                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | DC to 1GHz                           |                                 |                     |                              |                                      |                           |                         |                     |                                      |                       |           |                                    |        |                                    |      |                                                |            |                                |           |
| VSWR                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | ≤1.2 (DC to 1GHz)                    |                                 |                     |                              |                                      |                           |                         |                     |                                      |                       |           |                                    |        |                                    |      |                                                |            |                                |           |
| 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

|                                                                                                                                                                                                                |  |         |                                                                                                                                                                                   |         |   |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|---------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------|---|
| BNC3100-02.5C2                                                                                                                                                                                                 |  | DATE    | 2016/04/18                                                                                                                                                                        | REV     | — |
| <div><div>A</div><div>B</div><div>C</div><div></div><div><div>BODY</div><div>CONTACT PIN</div><div>FERRULE</div></div></div> |  |         |                                                                                                                                                                                   |         |   |
| DIAGRAM                                                                                                                                                                                                        |  |         | ASSEMBLY INSTRUCTION                                                                                                                                                              |         |   |
|                                                                                                                              |  |         | Step 1: STRIP AS SHOWN.                                                                                                                                                           |         |   |
|                                                                                                                             |  |         | Step 2: SLIDE FERRULE " C " OVER CABLE.<br>Step 3: PUT PIN " B " ON CENTER CONDUCTOR AND SOLDER OR CRIMP IN " Y ".<br>(USE SQUARE 1.6mm/0.063inch SECTION OF INSERT-D IF CRIMPED) |         |   |
|                                                                                                                             |  |         | Step 4: LOOSEN BRAIDING AND SLIDE CONNECTOR " A " IN PLACE.                                                                                                                       |         |   |
|                                                                                                                             |  |         | Step 5: SLIDE FERRULE " C " TOWARDS THE CONNECTOR " A " AND CRIMP.<br>(USE 7.9mm/0.311inch HEX SECTION OF INSERT-D)                                                               |         |   |
| This part number complies with RoHS.<br>Notice: JYEBAO reserves the right to make modifications deemed appropriate.                                                                                            |  |         |                                                                                                                                                                                   |         |   |
| APPROVED                                                                                                                                                                                                       |  | CHECKED |                                                                                                                                                                                   | DRAWING |   |
|                                                                                                                                                                                                                |  |         |                                                                                                                                                                                   | Albert  |   |

# BNC3100-02.5C2

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