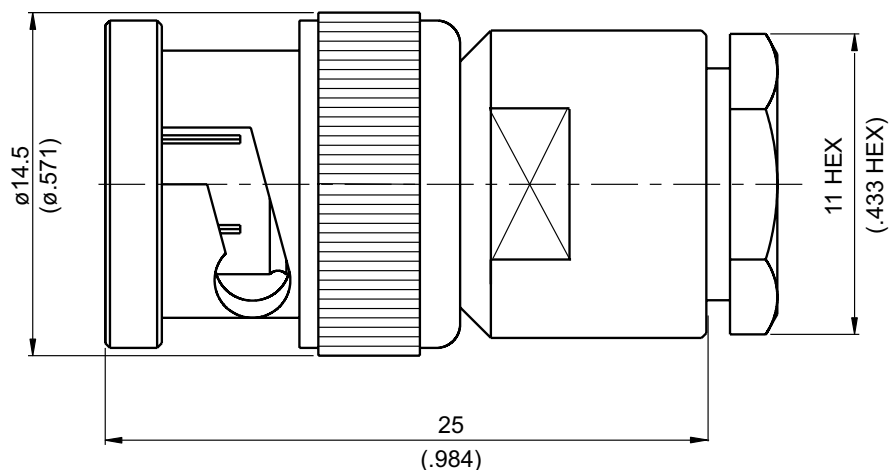


BNC3200B-0223

**BNC Plug Clamp For RG223**  
**4GHz VSWR 1.2**

**50Ω**



| Parts        | Material | Plating (Micro-inch)                                  |
|--------------|----------|-------------------------------------------------------|
| Hex Nut      | Brass    | Tin-Zinc-Copper-Alloy 100 Over Copper 50              |
| Braid Clamp  | Brass    | Tin-Zinc-Copper-Alloy 100 Over Copper 50              |
| Contact Pin  | Brass    | Gold 4 Over Nickel-Phosphorus Alloy 80 Over Copper 20 |
| Gasket       | Silicone |                                                       |
| Spring       | SK5      | Tin-Zinc-Copper-Alloy 100 Over Copper 50              |
| Washer       | Brass    | 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: RG223

**This part number complies with RoHS.**

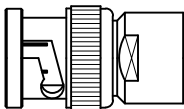
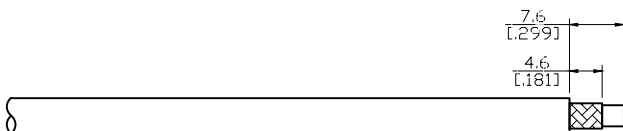
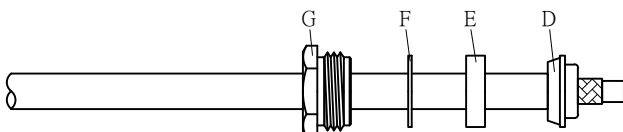
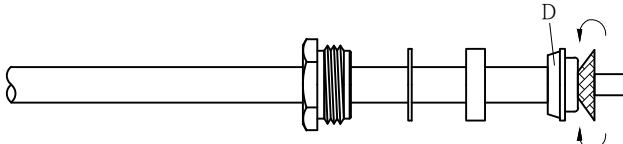
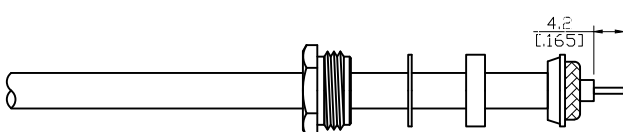
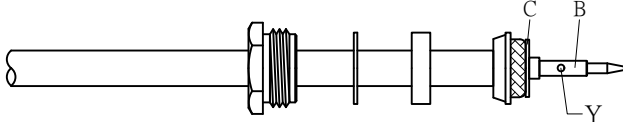
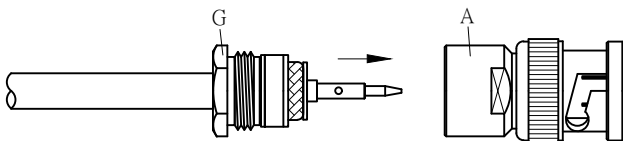
**Notice: JYEBAO reserves the right to make modifications deemed appropriate.**

| BNC                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | BNC3200B-0223                                   |                                 |                     |                              |                                      |                           |                         |                     |                                                 |                       |                           |                                    |                          |                                    |                        |                                                |            |                                |           |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------|---------------------------------|---------------------|------------------------------|--------------------------------------|---------------------------|-------------------------|---------------------|-------------------------------------------------|-----------------------|---------------------------|------------------------------------|--------------------------|------------------------------------|------------------------|------------------------------------------------|------------|--------------------------------|-----------|
| <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><math>\leq 1.2</math> (DC to 4GHz)</td></tr> <tr> <td>Insertion loss</td><td><math>\leq 0.1 \times \sqrt{f(\text{GHz})}\text{dB}</math></td></tr> <tr> <td>Insulation resistance</td><td><math>\geq 5000\text{M}\Omega</math></td></tr> <tr> <td>Contact resistance inner conductor</td><td><math>\leq 1.5\text{m}\Omega</math></td></tr> <tr> <td>Contact resistance outer conductor</td><td><math>\leq 1\text{m}\Omega</math></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                      | $\leq 1.2$ (DC to 4GHz) | Insertion loss      | $\leq 0.1 \times \sqrt{f(\text{GHz})}\text{dB}$ | Insulation resistance | $\geq 5000\text{M}\Omega$ | Contact resistance inner conductor | $\leq 1.5\text{m}\Omega$ | Contact resistance outer conductor | $\leq 1\text{m}\Omega$ | 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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | $\leq 1.2$ (DC to 4GHz)                         |                                 |                     |                              |                                      |                           |                         |                     |                                                 |                       |                           |                                    |                          |                                    |                        |                                                |            |                                |           |
| Insertion loss                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | $\leq 0.1 \times \sqrt{f(\text{GHz})}\text{dB}$ |                                 |                     |                              |                                      |                           |                         |                     |                                                 |                       |                           |                                    |                          |                                    |                        |                                                |            |                                |           |
| Insulation resistance                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | $\geq 5000\text{M}\Omega$                       |                                 |                     |                              |                                      |                           |                         |                     |                                                 |                       |                           |                                    |                          |                                    |                        |                                                |            |                                |           |
| Contact resistance inner conductor                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | $\leq 1.5\text{m}\Omega$                        |                                 |                     |                              |                                      |                           |                         |                     |                                                 |                       |                           |                                    |                          |                                    |                        |                                                |            |                                |           |
| Contact resistance outer conductor                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | $\leq 1\text{m}\Omega$                          |                                 |                     |                              |                                      |                           |                         |                     |                                                 |                       |                           |                                    |                          |                                    |                        |                                                |            |                                |           |
| 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><math>\geq 101.2</math> lbs</td></tr> <tr> <td>Contact captivation-axial</td><td><math>\geq 6.1</math> lbs</td></tr> <tr> <td>Durability (mating)</td><td><math>\geq 500</math></td></tr> </table>                                                                                                                                                                                                                                                                                                                                                                                                  |                                                 | Recommended coupling nut torque | 0.6 to 2.5 inch lbs | Coupling nut retention force | $\geq 101.2$ lbs                     | Contact captivation-axial | $\geq 6.1$ lbs          | Durability (mating) | $\geq 500$                                      |                       |                           |                                    |                          |                                    |                        |                                                |            |                                |           |
| Recommended coupling nut torque                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 0.6 to 2.5 inch lbs                             |                                 |                     |                              |                                      |                           |                         |                     |                                                 |                       |                           |                                    |                          |                                    |                        |                                                |            |                                |           |
| Coupling nut retention force                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | $\geq 101.2$ lbs                                |                                 |                     |                              |                                      |                           |                         |                     |                                                 |                       |                           |                                    |                          |                                    |                        |                                                |            |                                |           |
| Contact captivation-axial                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | $\geq 6.1$ lbs                                  |                                 |                     |                              |                                      |                           |                         |                     |                                                 |                       |                           |                                    |                          |                                    |                        |                                                |            |                                |           |
| Durability (mating)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | $\geq 500$                                      |                                 |                     |                              |                                      |                           |                         |                     |                                                 |                       |                           |                                    |                          |                                    |                        |                                                |            |                                |           |
| <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-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

|                                                                                                                     |                                                                                   |                                                                                   |                                                                                                                                                                                               |                                                                                     |                                                                                     |                                                                                     |
|---------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| BNC3200B-0223                                                                                                       |                                                                                   |                                                                                   | DATE                                                                                                                                                                                          | 2017/02/02                                                                          | REV                                                                                 | —                                                                                   |
| A                                                                                                                   | B                                                                                 | C                                                                                 | D                                                                                                                                                                                             | E                                                                                   | F                                                                                   | G                                                                                   |
|                                    |  |  |                                                                                                              |  |  |  |
| BODY                                                                                                                | CONTACT<br>PIN                                                                    | WASHER                                                                            | BRAID<br>CLAMP                                                                                                                                                                                | GASKET                                                                              | WASHER                                                                              | NUT                                                                                 |
| DIAGRAM                                                                                                             |                                                                                   |                                                                                   | ASSEMBLY INSTRUCTION                                                                                                                                                                          |                                                                                     |                                                                                     |                                                                                     |
|                                    |                                                                                   |                                                                                   | Step 1: STRIP AS SHOWN.                                                                                                                                                                       |                                                                                     |                                                                                     |                                                                                     |
|                                  |                                                                                   |                                                                                   | Step 2: SLIDE NUT "G" 、 WASHER "F" 、 GASKET "E" AND BRAID CLAMP "D" OVER CABLE.                                                                                                               |                                                                                     |                                                                                     |                                                                                     |
|                                  |                                                                                   |                                                                                   | Step 3: WRAP THE BRAIDING OVER "D" .                                                                                                                                                          |                                                                                     |                                                                                     |                                                                                     |
|                                  |                                                                                   |                                                                                   | Step 4: STRIP AS SHOWN.                                                                                                                                                                       |                                                                                     |                                                                                     |                                                                                     |
|                                  |                                                                                   |                                                                                   | Step 5: SLIDE PREPARED CABLE INTO WASHER "C" .<br>Step 6: PUT CONTACT PIN "B" ON CENTER CONDUCTOR AND SOLDER OR CRIMP IN "Y" .<br>(USE SQUARE 1.6mm/0.063inch SECTION OF INSERT-A IF CRIMPED) |                                                                                     |                                                                                     |                                                                                     |
|                                  |                                                                                   |                                                                                   | Step 7: FINALLY SCREW "G" 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                                                                              |                                                                                     |                                                                                     |