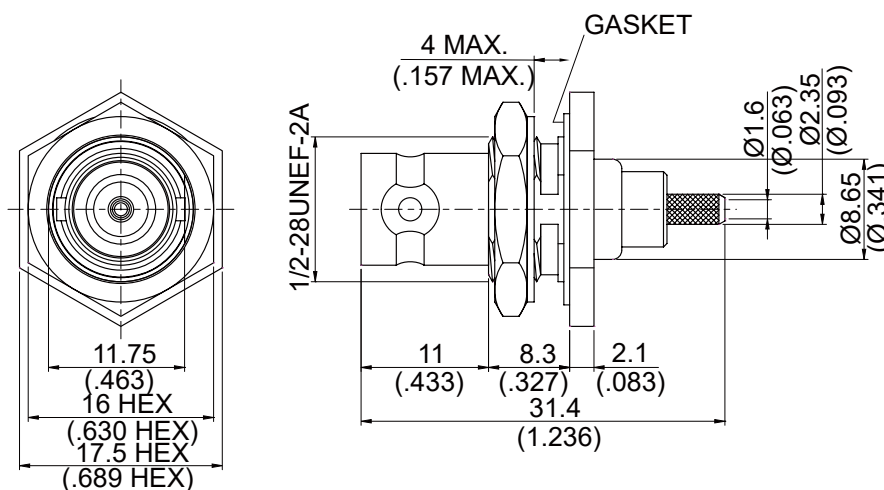


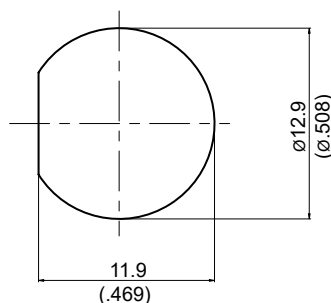
BNC8105-0316TB

**BNC Jack Crimp Bulkhead**  
For RG174, RG188, RG316; 4GHz VSWR 1.25

50Ω



MOUNTING HOLE :



Note: Low cost two parts press fit body (Not IP67 Mated)

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

Weight: 15.68 g

Suitable Cables: RG174, RG188, RG316

This part number complies with RoHS.

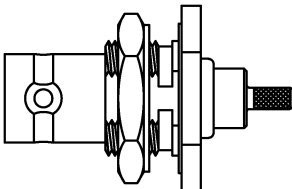
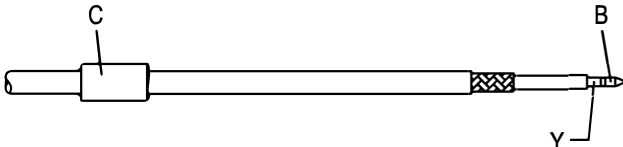
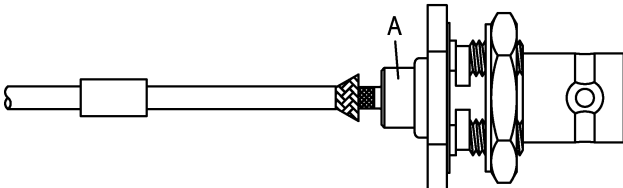
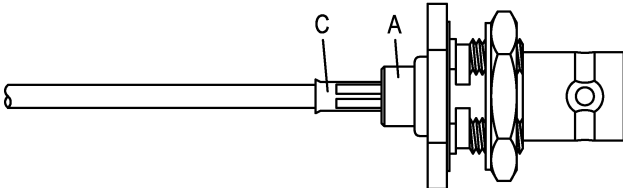
Notice: JYEBAO reserves the right to make modifications deemed appropriate.

| BNC                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | BNC8105-0316TB                       |                                 |                     |                           |                                      |                     |                         |                |                                      |                       |           |                                    |         |                                    |       |                                                |            |                                |           |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------|---------------------------------|---------------------|---------------------------|--------------------------------------|---------------------|-------------------------|----------------|--------------------------------------|-----------------------|-----------|------------------------------------|---------|------------------------------------|-------|------------------------------------------------|------------|--------------------------------|-----------|
| <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>≤ 1.25 (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                | ≤ 1.25 (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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | ≤ 1.25 (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>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 | Contact captivation-axial | ≥ 6.1 lbs                            | Durability (mating) | ≥ 500                   |                |                                      |                       |           |                                    |         |                                    |       |                                                |            |                                |           |
| Recommended coupling nut torque                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 0.6 to 2.5 inch 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-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

|                                                                                                                                                           |  |                                                                                                                                                              |                                                                                                                                |         |   |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------|--|--------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------|---------|---|
| BNC8105-0316TB                                                                                                                                            |  | DATE                                                                                                                                                         | 2021/07/30                                                                                                                     | REV     | — |
| <div>A</div> <div></div> <div>BODY + GASKET +<br/>WASHER + HEX NUT</div> |  | <div>B</div> <div></div> <div>SMALL PIN</div>                               | <div>C</div> <div></div> <div>FERRULE</div> |         |   |
| DIAGRAM                                                                                                                                                   |  | ASSEMBLY INSTRUCTION                                                                                                                                         |                                                                                                                                |         |   |
| <div></div>                                                              |  | Step 1: STRIP AS SHOWN.                                                                                                                                      |                                                                                                                                |         |   |
| <div></div>                                                             |  | Step 2: SLIDE FERRULE " C " OVER CABLE.<br>Step 3: PUT PIN " B " ON CENTER CONDUCTOR AND CRIMP IN " Y ".<br>(USE SQUARE 0.7mm/0.028inch SECTION OF INSERT-A) |                                                                                                                                |         |   |
| <div></div>                                                             |  | Step 4: LOOSEN BRAIDING AND SLIDE CONNECTOR " A " IN PLACE.                                                                                                  |                                                                                                                                |         |   |
| <div></div>                                                             |  | Step 5: SLIDE FERRULE " C " TOWARDS THE CONNECTOR " A " AND CRIMP.<br>(USE 3.3mm/0.130inch HEX SECTION OF INSERT-A)                                          |                                                                                                                                |         |   |
| This part number complies with RoHS.<br>Notice: JYEBAO reserves the right to make modifications deemed appropriate.                                       |  |                                                                                                                                                              |                                                                                                                                |         |   |
| APPROVED                                                                                                                                                  |  | CHECKED                                                                                                                                                      |                                                                                                                                | DRAWING |   |
|                                                                                                                                                           |  |                                                                                                                                                              |                                                                                                                                | Albert  |   |

# BNC8105-0316TB

S11

