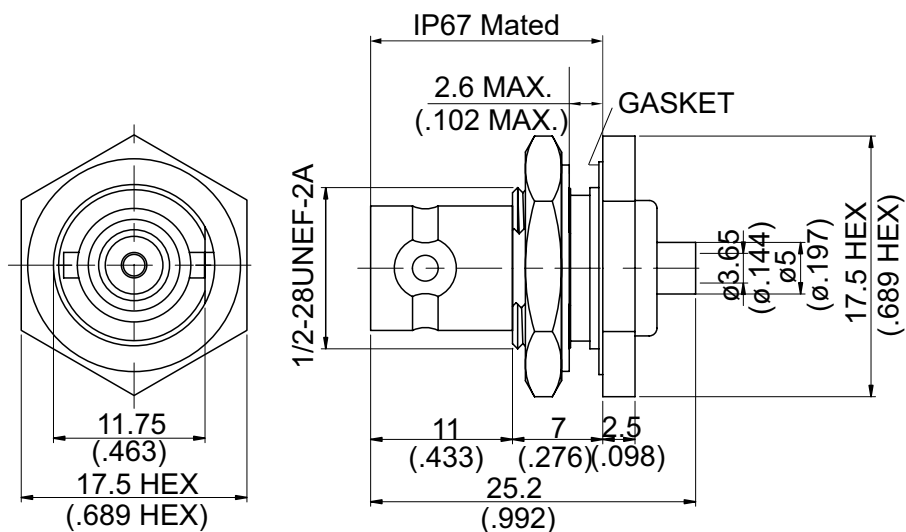


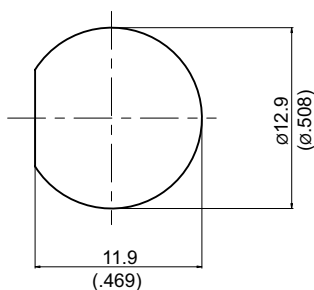
BNC8305-0141

**BNC Jack Solder Bulkhead, IP67 Mated  
For RG402; 4GHz VSWR 1.2**

**50Ω**



MOUNTING HOLE :



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

Weight: 15.02 g

Suitable Cables: Semi-rigid .141

This part number complies with RoHS.

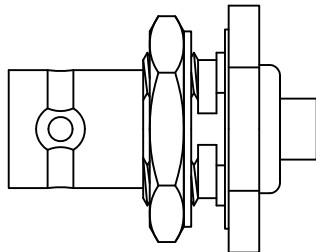
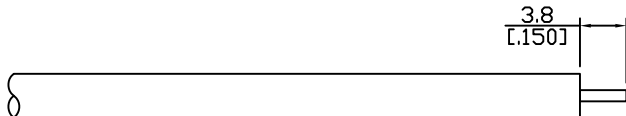
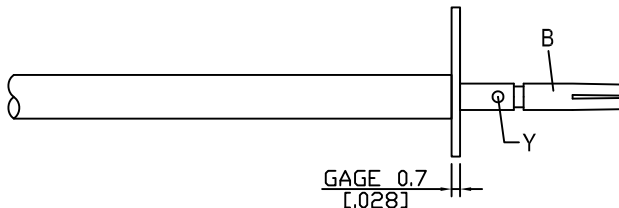
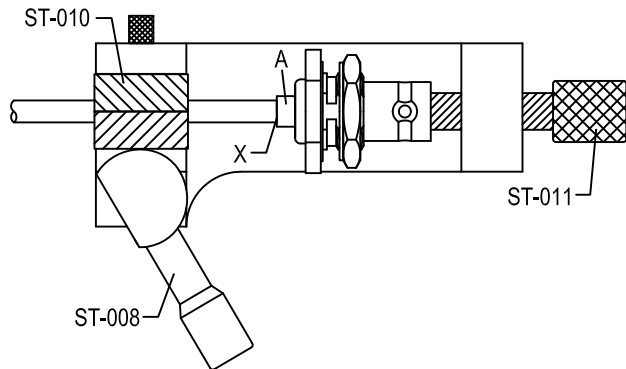
Notice: JYEBAO reserves the right to make modifications deemed appropriate.

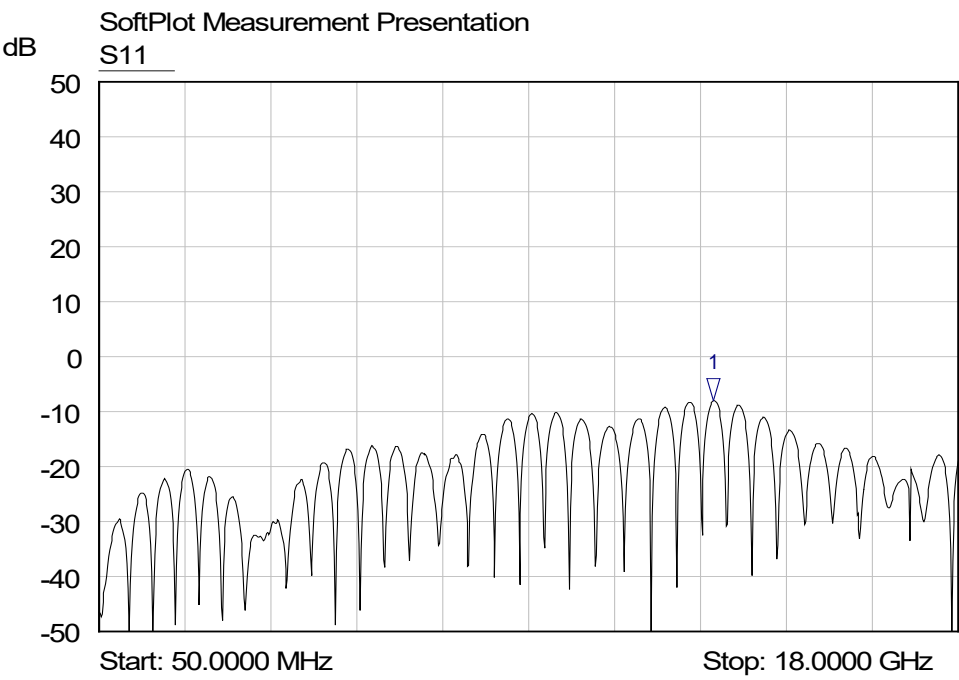
| BNC                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | BNC8305-0141                         |                                 |                     |                           |                                      |                     |                         |                                  |                                      |                       |           |                                    |         |                                    |       |                                                |            |                                |           |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------|---------------------------------|---------------------|---------------------------|--------------------------------------|---------------------|-------------------------|----------------------------------|--------------------------------------|-----------------------|-----------|------------------------------------|---------|------------------------------------|-------|------------------------------------------------|------------|--------------------------------|-----------|
| <div>Interface</div> MIL-STD-348B                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                      |                                 |                     |                           |                                      |                     |                         |                                  |                                      |                       |           |                                    |         |                                    |       |                                                |            |                                |           |
| <div>Electrical Data</div> <table> <tr> <td>Impedance</td><td>50Ω</td></tr> <tr> <td>Frequency range</td><td>DC to 4GHz</td></tr> <tr> <td>VSWR</td><td>≤ 1.2 (DC to 4GHz)</td></tr> <tr> <td>Insertion loss</td><td>≤ 0.1 x √f(GHz)dB</td></tr> <tr> <td>Insulation resistance</td><td>≥ 5000MΩ</td></tr> <tr> <td>Contact resistance inner conductor</td><td>≤ 1.5mΩ</td></tr> <tr> <td>Contact resistance outer conductor</td><td>≤ 1mΩ</td></tr> <tr> <td>Dielectric withstanding voltage (at sea level)</td><td>1500 V rms</td></tr> <tr> <td>Working voltage (at sea level)</td><td>500 V rms</td></tr> </table> |                                      | Impedance                       | 50Ω                 | Frequency range           | DC to 4GHz                           | VSWR                | ≤ 1.2 (DC to 4GHz)      | Insertion loss                   | ≤ 0.1 x √f(GHz)dB                    | Insulation resistance | ≥ 5000MΩ  | Contact resistance inner conductor | ≤ 1.5mΩ | Contact resistance outer conductor | ≤ 1mΩ | Dielectric withstanding voltage (at sea level) | 1500 V rms | Working voltage (at sea level) | 500 V rms |
| Impedance                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 50Ω                                  |                                 |                     |                           |                                      |                     |                         |                                  |                                      |                       |           |                                    |         |                                    |       |                                                |            |                                |           |
| Frequency range                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | DC to 4GHz                           |                                 |                     |                           |                                      |                     |                         |                                  |                                      |                       |           |                                    |         |                                    |       |                                                |            |                                |           |
| VSWR                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | ≤ 1.2 (DC to 4GHz)                   |                                 |                     |                           |                                      |                     |                         |                                  |                                      |                       |           |                                    |         |                                    |       |                                                |            |                                |           |
| Insertion loss                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | ≤ 0.1 x √f(GHz)dB                    |                                 |                     |                           |                                      |                     |                         |                                  |                                      |                       |           |                                    |         |                                    |       |                                                |            |                                |           |
| Insulation resistance                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | ≥ 5000MΩ                             |                                 |                     |                           |                                      |                     |                         |                                  |                                      |                       |           |                                    |         |                                    |       |                                                |            |                                |           |
| Contact resistance inner conductor                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | ≤ 1.5mΩ                              |                                 |                     |                           |                                      |                     |                         |                                  |                                      |                       |           |                                    |         |                                    |       |                                                |            |                                |           |
| Contact resistance outer conductor                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | ≤ 1mΩ                                |                                 |                     |                           |                                      |                     |                         |                                  |                                      |                       |           |                                    |         |                                    |       |                                                |            |                                |           |
| Dielectric withstanding voltage (at sea level)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 1500 V rms                           |                                 |                     |                           |                                      |                     |                         |                                  |                                      |                       |           |                                    |         |                                    |       |                                                |            |                                |           |
| Working voltage (at sea level)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 500 V rms                            |                                 |                     |                           |                                      |                     |                         |                                  |                                      |                       |           |                                    |         |                                    |       |                                                |            |                                |           |
| <div>Mechanical Data</div> <table> <tr> <td>Recommended coupling nut torque</td><td>0.6 to 2.5 inch lbs</td></tr> <tr> <td>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>Soldering gauge</td><td>ST-0.7</td></tr> <tr> <td>Locator tool</td><td>ST-011</td></tr> <tr> <td>Soldering fixture</td><td>ST-008</td></tr> <tr> <td>Insert for .141 semi-rigid cable</td><td>ST-010</td></tr> </table>                                                                                                                                                                                                                                                                                                                                                            |                                      | Soldering gauge                 | ST-0.7              | Locator tool              | ST-011                               | Soldering fixture   | ST-008                  | Insert for .141 semi-rigid cable | ST-010                               |                       |           |                                    |         |                                    |       |                                                |            |                                |           |
| Soldering gauge                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | ST-0.7                               |                                 |                     |                           |                                      |                     |                         |                                  |                                      |                       |           |                                    |         |                                    |       |                                                |            |                                |           |
| Locator tool                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | ST-011                               |                                 |                     |                           |                                      |                     |                         |                                  |                                      |                       |           |                                    |         |                                    |       |                                                |            |                                |           |
| Soldering fixture                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | ST-008                               |                                 |                     |                           |                                      |                     |                         |                                  |                                      |                       |           |                                    |         |                                    |       |                                                |            |                                |           |
| Insert for .141 semi-rigid cable                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | ST-010                               |                                 |                     |                           |                                      |                     |                         |                                  |                                      |                       |           |                                    |         |                                    |       |                                                |            |                                |           |

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

# JYE BAO CO., LTD.

## CABLE ASSEMBLY INSTRUCTION

|                                                                                                                                                          |  |                                                                                                                                     |            |         |   |
|----------------------------------------------------------------------------------------------------------------------------------------------------------|--|-------------------------------------------------------------------------------------------------------------------------------------|------------|---------|---|
| BNC8305-0141                                                                                                                                             |  | DATE                                                                                                                                | 2022/04/30 | REV     | A |
| <div>A</div> <div></div> <div>BODY + GASKET +<br/>WASHER + WASHER</div> |  | <div>B</div> <div></div> <div>CONTACT PIN</div>   |            |         |   |
| DIAGRAM                                                                                                                                                  |  | ASSEMBLY INSTRUCTION                                                                                                                |            |         |   |
| <div></div>                                                            |  | Step 1: STRIP AS SHOWN.                                                                                                             |            |         |   |
| <div></div>                                                           |  | Step 2: PUT 0.7 MM GAGE ST-07 IN PLACE, INSERT CABLE'S CENTER CONDUCTOR INTO CENTER PIN " B " AND SOLDER IN " Y ".                  |            |         |   |
| <div></div>                                                           |  | Step 3: USE SOLDERING FIXTURE " ST-008 ", INSERT TOOL " ST-010 " AND LOCATOR TOOL " ST-011 " TO FIX THE CONNECTOR. SOLDER IN " X ". |            |         |   |
| This part number complies with RoHS.<br>Notice: JYEBAO reserves the right to make modifications deemed appropriate.                                      |  |                                                                                                                                     |            |         |   |
| APPROVED                                                                                                                                                 |  | CHECKED                                                                                                                             |            | DRAWING |   |
|                                                                                                                                                          |  |                                                                                                                                     |            | Albert  |   |



| Mkr | Trace | X-Axis      | Value    | Notes |
|-----|-------|-------------|----------|-------|
| 1 ▽ | S11   | 12.8885 GHz | -8.02 dB |       |