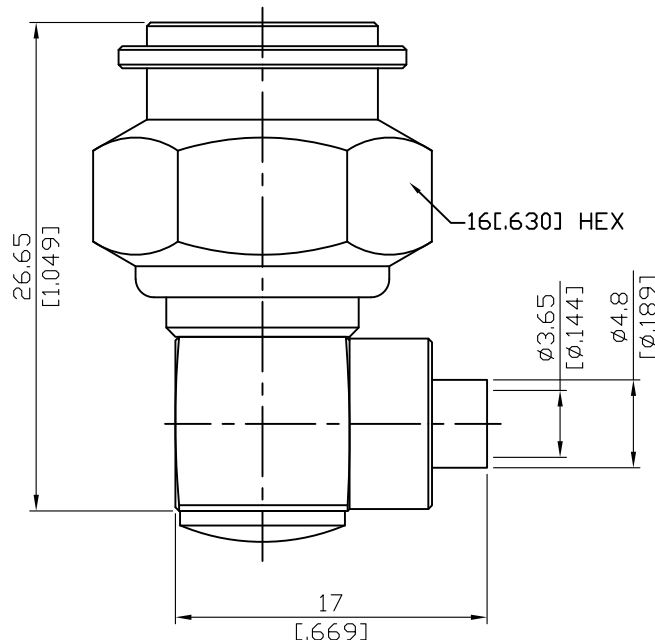


TNC6300A-9141

TNC Reverse Polarity Plug Solder Right Angle  
For RG402; 3GHz VSWR 1.2

50Ω



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

Suitable Cables: .141 Semi-Rigid ; .141 Formable ; RG402

This part number complies with RoHS.

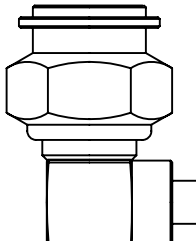
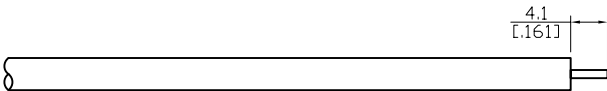
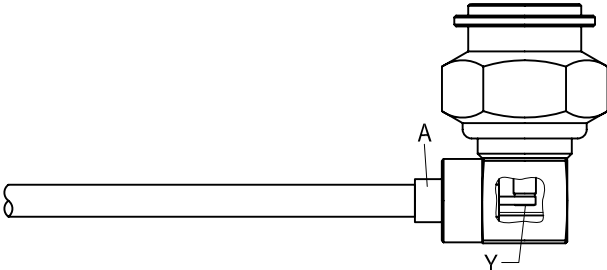
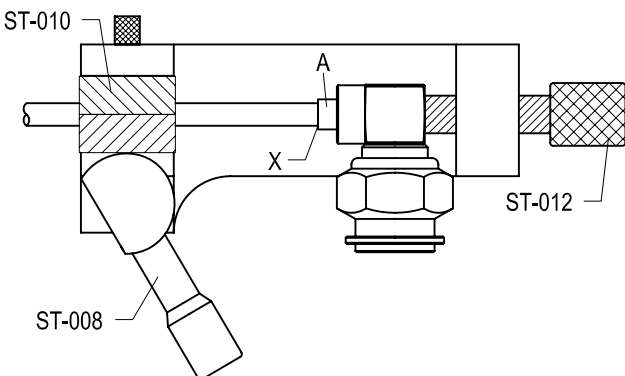
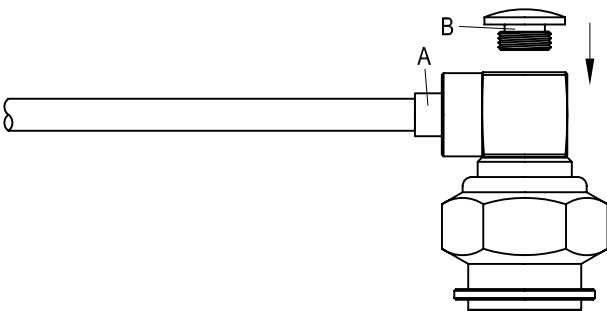
Notice: JYEBAO reserves the right to make modifications deemed appropriate.

| TNC                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | TNC6300A-9141                        |                                 |                     |                       |                                      |                                  |                         |                           |                                      |                       |           |                                    |         |                                    |       |                                                |            |                                |           |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------|---------------------------------|---------------------|-----------------------|--------------------------------------|----------------------------------|-------------------------|---------------------------|--------------------------------------|-----------------------|-----------|------------------------------------|---------|------------------------------------|-------|------------------------------------------------|------------|--------------------------------|-----------|
| <div>Interface</div> <p>Per JYEBAO TNC Reverse Polarity Plug derived from MIL-STD-348B</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                      |                                 |                     |                       |                                      |                                  |                         |                           |                                      |                       |           |                                    |         |                                    |       |                                                |            |                                |           |
| <div>Electrical Data</div> <table> <tr> <td>Impedance</td><td>50Ω</td></tr> <tr> <td>Frequency range</td><td>DC to 3GHz</td></tr> <tr> <td>VSWR</td><td>≤ 1.2 (DC to 3GHz)</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 3GHz                           | VSWR                             | ≤ 1.2 (DC to 3GHz)      | 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 3GHz                           |                                 |                     |                       |                                      |                                  |                         |                           |                                      |                       |           |                                    |         |                                    |       |                                                |            |                                |           |
| VSWR                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | ≤ 1.2 (DC to 3GHz)                   |                                 |                     |                       |                                      |                                  |                         |                           |                                      |                       |           |                                    |         |                                    |       |                                                |            |                                |           |
| 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>4.1 to 6.1 inch lbs</td></tr> <tr> <td>Coupling proof torque</td><td>15 inch lbs</td></tr> <tr> <td>Coupling nut retention force</td><td>≥ 101.2 lbs</td></tr> <tr> <td>Contact captivation-axial</td><td>≥ 6.1 lbs</td></tr> <tr> <td>Durability (mating)</td><td>≥ 500</td></tr> </table>                                                                                                                                                                                                                                          |                                      | Recommended coupling nut torque | 4.1 to 6.1 inch lbs | Coupling proof torque | 15 inch lbs                          | Coupling nut retention force     | ≥ 101.2 lbs             | Contact captivation-axial | ≥ 6.1 lbs                            | Durability (mating)   | ≥ 500     |                                    |         |                                    |       |                                                |            |                                |           |
| Recommended coupling nut torque                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 4.1 to 6.1 inch lbs                  |                                 |                     |                       |                                      |                                  |                         |                           |                                      |                       |           |                                    |         |                                    |       |                                                |            |                                |           |
| Coupling proof torque                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 15 inch lbs                          |                                 |                     |                       |                                      |                                  |                         |                           |                                      |                       |           |                                    |         |                                    |       |                                                |            |                                |           |
| Coupling nut retention force                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | ≥ 101.2 lbs                          |                                 |                     |                       |                                      |                                  |                         |                           |                                      |                       |           |                                    |         |                                    |       |                                                |            |                                |           |
| Contact captivation-axial                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | ≥ 6.1 lbs                            |                                 |                     |                       |                                      |                                  |                         |                           |                                      |                       |           |                                    |         |                                    |       |                                                |            |                                |           |
| Durability (mating)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | ≥ 500                                |                                 |                     |                       |                                      |                                  |                         |                           |                                      |                       |           |                                    |         |                                    |       |                                                |            |                                |           |
| <div>Environmental Data</div> <table> <tr> <td>Temperature range</td><td>-65°C to +165°C</td></tr> <tr> <td>Thermal shock</td><td>MIL-STD-202, Method 107, Condition B</td></tr> <tr> <td>Moisture resistance</td><td>MIL-STD-202, Method 106</td></tr> <tr> <td>Corrosion</td><td>MIL-STD-202, Method 101, Condition B</td></tr> <tr> <td>RoHS</td><td>Compliant</td></tr> </table>                                                                                                                                                                                                                                     |                                      | Temperature range               | -65°C to +165°C     | Thermal shock         | MIL-STD-202, Method 107, Condition B | Moisture resistance              | MIL-STD-202, Method 106 | Corrosion                 | MIL-STD-202, Method 101, Condition B | RoHS                  | Compliant |                                    |         |                                    |       |                                                |            |                                |           |
| Temperature range                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | -65°C to +165°C                      |                                 |                     |                       |                                      |                                  |                         |                           |                                      |                       |           |                                    |         |                                    |       |                                                |            |                                |           |
| Thermal shock                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | MIL-STD-202, Method 107, Condition B |                                 |                     |                       |                                      |                                  |                         |                           |                                      |                       |           |                                    |         |                                    |       |                                                |            |                                |           |
| Moisture resistance                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | MIL-STD-202, Method 106              |                                 |                     |                       |                                      |                                  |                         |                           |                                      |                       |           |                                    |         |                                    |       |                                                |            |                                |           |
| Corrosion                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | MIL-STD-202, Method 101, Condition B |                                 |                     |                       |                                      |                                  |                         |                           |                                      |                       |           |                                    |         |                                    |       |                                                |            |                                |           |
| RoHS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | Compliant                            |                                 |                     |                       |                                      |                                  |                         |                           |                                      |                       |           |                                    |         |                                    |       |                                                |            |                                |           |
| <div>Tooling</div> <table> <tr> <td>Locator tool</td><td>ST-012</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>                                                                                                                                                                                                                                                                                                                                                                                                                |                                      | Locator tool                    | ST-012              | Soldering fixture     | ST-008                               | Insert for .141 semi-rigid cable | ST-010                  |                           |                                      |                       |           |                                    |         |                                    |       |                                                |            |                                |           |
| Locator tool                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | ST-012                               |                                 |                     |                       |                                      |                                  |                         |                           |                                      |                       |           |                                    |         |                                    |       |                                                |            |                                |           |
| 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

|                                                                                                                     |  |                                                                                                                                                                   |            |         |   |
|---------------------------------------------------------------------------------------------------------------------|--|-------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------|---------|---|
| TNC6300A-9141                                                                                                       |  | DATE                                                                                                                                                              | 2017/06/26 | REV     | — |
| A                                                                                                                   |  | B                                                                                                                                                                 |            |         |   |
|                                    |  |                                                                                  |            |         |   |
| BODY                                                                                                                |  | NUT                                                                                                                                                               |            |         |   |
| DIAGRAM                                                                                                             |  | ASSEMBLY INSTRUCTION                                                                                                                                              |            |         |   |
|                                    |  | Step 1: STRIP AS SHOWN.                                                                                                                                           |            |         |   |
|                                   |  | Step 2: SLIDE CENTER CONDUCTOR ON THE CONTACT PIN OF CONNECTOR " A " AND SOLDER IN " Y ".                                                                         |            |         |   |
|                                   |  | Step 3: INSERT PREPARED CABLE INTO SOLDERING FIXTURE " ST-008 ".<br>USE INSERT TOOL " ST-010 " AND LOCATOR TOOL " ST-012 " TO FIX THE CONNECTOR. SOLDER IN " X ". |            |         |   |
|                                  |  | STEP 4: FINALLY SCREW NUT " B " ON THE CONNECTOR BODY " A ".                                                                                                      |            |         |   |
| This part number complies with RoHS.<br>Notice: JYEBAO reserves the right to make modifications deemed appropriate. |  |                                                                                                                                                                   |            |         |   |
| APPROVED                                                                                                            |  | CHECKED                                                                                                                                                           |            | DRAWING |   |
|                                                                                                                     |  |                                                                                                                                                                   |            | Albert  |   |

# TNC6300A-9141

S11

