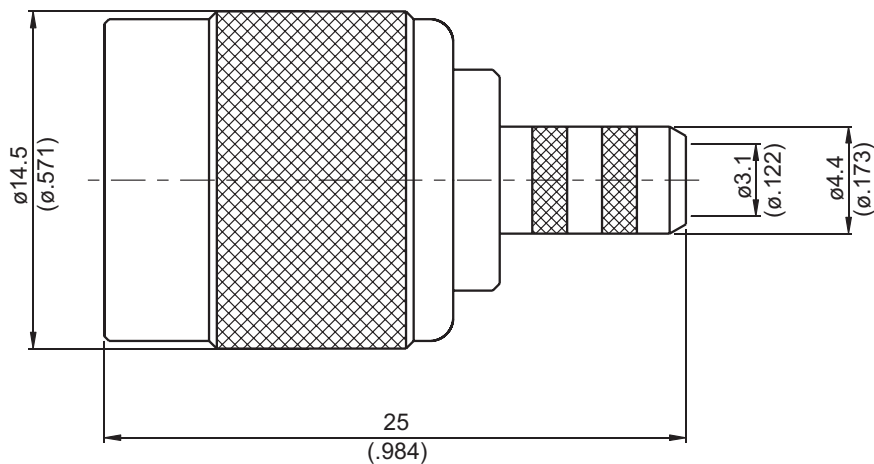


TNC6100-0142

**TNC Reverse Polarity Plug Crimp**  
For RG142, RG400; 3.6GHz VSWR1.2

50Ω



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

Suitable Cables: RG55, RG142, RG400

**This part number complies with RoHS.**

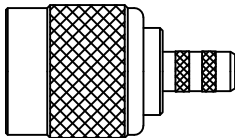
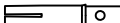
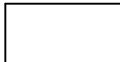
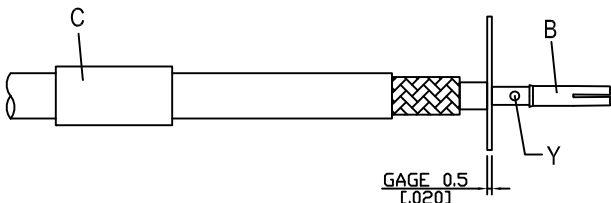
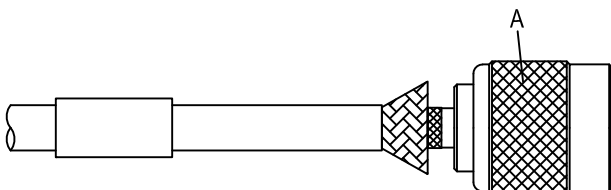
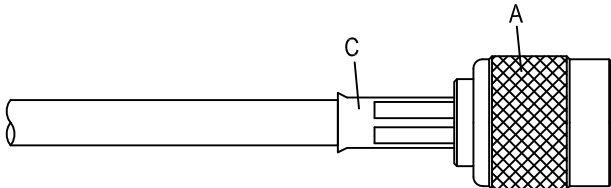
**Notice: JYEBAO reserves the right to make modifications deemed appropriate.**

| TNC                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | TNC6100-0142                         |                                 |                     |                       |                                      |                              |                         |                           |                                      |                       |           |                                    |         |                                    |       |                                                |            |                                |           |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------|---------------------------------|---------------------|-----------------------|--------------------------------------|------------------------------|-------------------------|---------------------------|--------------------------------------|-----------------------|-----------|------------------------------------|---------|------------------------------------|-------|------------------------------------------------|------------|--------------------------------|-----------|
| <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 3.6GHz</td></tr> <tr> <td>VSWR</td><td>≤ 1.2 (DC to 3.6GHz)</td></tr> <tr> <td>Insertion loss</td><td>≤ 0.1 x <math>\sqrt{f(\text{GHz})}</math> 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 3.6GHz                         | VSWR                         | ≤ 1.2 (DC to 3.6GHz)    | Insertion loss            | ≤ 0.1 x $\sqrt{f(\text{GHz})}$ 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 3.6GHz                         |                                 |                     |                       |                                      |                              |                         |                           |                                      |                       |           |                                    |         |                                    |       |                                                |            |                                |           |
| VSWR                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | ≤ 1.2 (DC to 3.6GHz)                 |                                 |                     |                       |                                      |                              |                         |                           |                                      |                       |           |                                    |         |                                    |       |                                                |            |                                |           |
| Insertion loss                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | ≤ 0.1 x $\sqrt{f(\text{GHz})}$ 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>Crimping tool</td><td>CRT-1 or CRT-2</td></tr> <tr> <td>Crimp insert</td><td>INSERT-B</td></tr> <tr> <td>Soldering gauge</td><td>ST-0.5</td></tr> </table>                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                      | Crimping tool                   | CRT-1 or CRT-2      | Crimp insert          | INSERT-B                             | Soldering gauge              | ST-0.5                  |                           |                                      |                       |           |                                    |         |                                    |       |                                                |            |                                |           |
| Crimping tool                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | CRT-1 or CRT-2                       |                                 |                     |                       |                                      |                              |                         |                           |                                      |                       |           |                                    |         |                                    |       |                                                |            |                                |           |
| Crimp insert                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | INSERT-B                             |                                 |                     |                       |                                      |                              |                         |                           |                                      |                       |           |                                    |         |                                    |       |                                                |            |                                |           |
| Soldering gauge                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | ST-0.5                               |                                 |                     |                       |                                      |                              |                         |                           |                                      |                       |           |                                    |         |                                    |       |                                                |            |                                |           |

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

# JYE BAO CO., LTD.

## CABLE ASSEMBLY RECOMMENDATION

|                                                                                                                     |  |                                                                                   |                                                                                                                                                                                                                                |                                                                                     |   |
|---------------------------------------------------------------------------------------------------------------------|--|-----------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|---|
| TNC6100-0142                                                                                                        |  | DATE                                                                              | 2018/11/06                                                                                                                                                                                                                     | REV                                                                                 | A |
| A                                                                                                                   |  | B                                                                                 |                                                                                                                                                                                                                                | C                                                                                   |   |
|                                    |  |  |                                                                                                                                                                                                                                |  |   |
| BODY                                                                                                                |  | CONTACT PIN                                                                       |                                                                                                                                                                                                                                | FERRULE                                                                             |   |
| DIAGRAM                                                                                                             |  |                                                                                   | ASSEMBLY INSTRUCTION                                                                                                                                                                                                           |                                                                                     |   |
|                                   |  |                                                                                   | Step 1: STRIP AS SHOWN.                                                                                                                                                                                                        |                                                                                     |   |
|                                  |  |                                                                                   | Step 2: SLIDE FERRULE " C " OVER CABLE.<br>Step 3: PUT 0.5 MM GAGE IN PLACE, INSERT CABLE'S CENTER CONDUCTOR INTO CENTER PIN " B " AND SOLDER OR CRIMP IN " Y "<br>(USE SQUARE 1.6mm/0.063inch SECTION OF INSERT-B IF CRIMPED) |                                                                                     |   |
|                                  |  |                                                                                   | Step 4: LOOSEN BRAIDING AND SLIDE CONNECTOR " A " IN PLACE.                                                                                                                                                                    |                                                                                     |   |
|                                  |  |                                                                                   | Step 5: SLIDE FERRULE " C " TOWARDS THE CONNECTOR " A " AND CRIMP.<br>(USE 5.5mm/0.217inch HEX SECTION OF INSERT-B)                                                                                                            |                                                                                     |   |
| This part number complies with RoHS.<br>Notice: JYEBAO reserves the right to make modifications deemed appropriate. |  |                                                                                   |                                                                                                                                                                                                                                |                                                                                     |   |
| APPROVED                                                                                                            |  | CHECKED                                                                           |                                                                                                                                                                                                                                | DRAWING                                                                             |   |
|                                                                                                                     |  |                                                                                   |                                                                                                                                                                                                                                | Albert                                                                              |   |

# TNC6100-0142

## S11

