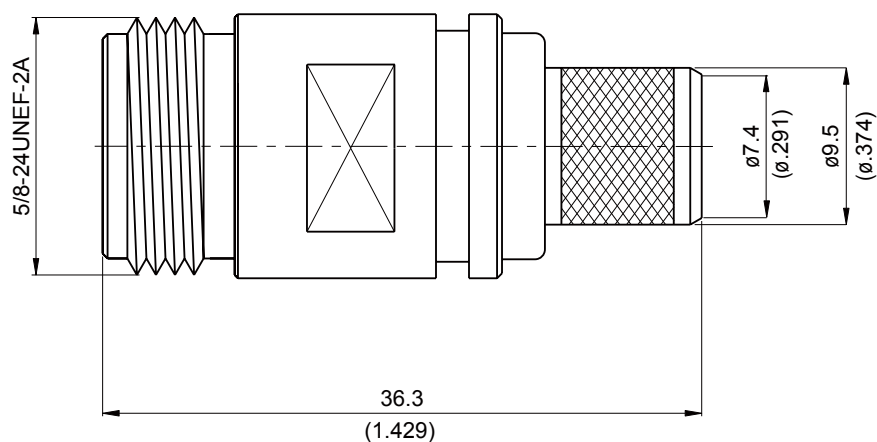


N8100-0214

**N Jack Crimp For RG214;  
3GHz VSWR 1.2**

**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 |
| Body        | Brass           | Tin-Zinc-Copper-Alloy 100 Over Copper 50              |
| Insulator   | Teflon          |                                                       |

Weight: 32.87 g

Suitable Cables: RG214

**This part number complies with RoHS.**

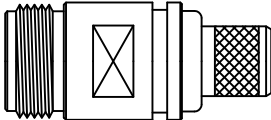
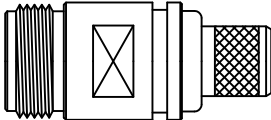
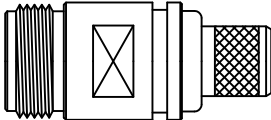
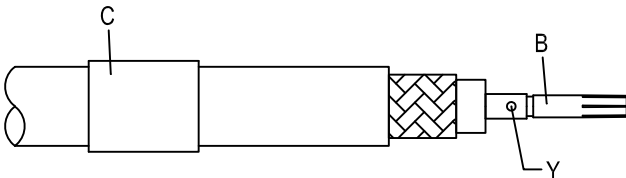
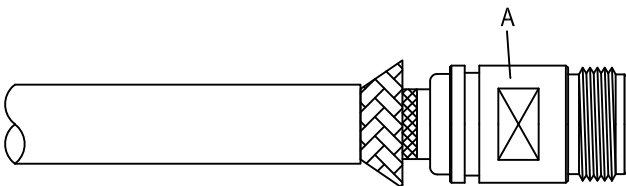
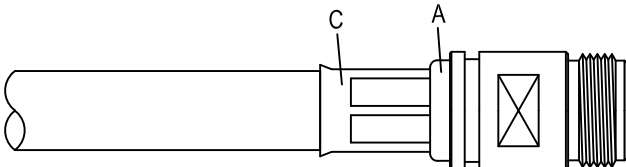
**Notice: JYEBAO reserves the right to make modifications deemed appropriate.**

| N                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | N8100-0214                           |                                 |                  |                       |                                      |                           |                         |                     |                                      |                       |           |                                    |         |                                    |       |                                                |            |                                |            |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------|---------------------------------|------------------|-----------------------|--------------------------------------|---------------------------|-------------------------|---------------------|--------------------------------------|-----------------------|-----------|------------------------------------|---------|------------------------------------|-------|------------------------------------------------|------------|--------------------------------|------------|
| <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 3GHz</td></tr> <tr> <td>VSWR</td><td>≤ 1.2 (DC to 3GHz)</td></tr> <tr> <td>Insertion loss</td><td>≤ 0.05 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>2500 V rms</td></tr> <tr> <td>Working voltage (at sea level)</td><td>1000 V rms</td></tr> </table> |                                      | Impedance                       | 50Ω              | Frequency range       | DC to 3GHz                           | VSWR                      | ≤ 1.2 (DC to 3GHz)      | Insertion loss      | ≤ 0.05 x √f(GHz) dB                  | Insulation resistance | ≥ 5000MΩ  | Contact resistance inner conductor | ≤ 1.5mΩ | Contact resistance outer conductor | ≤ 1mΩ | Dielectric withstanding voltage (at sea level) | 2500 V rms | Working voltage (at sea level) | 1000 V rms |
| Impedance                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 50Ω                                  |                                 |                  |                       |                                      |                           |                         |                     |                                      |                       |           |                                    |         |                                    |       |                                                |            |                                |            |
| Frequency range                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | DC to 3GHz                           |                                 |                  |                       |                                      |                           |                         |                     |                                      |                       |           |                                    |         |                                    |       |                                                |            |                                |            |
| VSWR                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | ≤ 1.2 (DC to 3GHz)                   |                                 |                  |                       |                                      |                           |                         |                     |                                      |                       |           |                                    |         |                                    |       |                                                |            |                                |            |
| Insertion loss                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | ≤ 0.05 x √f(GHz) dB                  |                                 |                  |                       |                                      |                           |                         |                     |                                      |                       |           |                                    |         |                                    |       |                                                |            |                                |            |
| Insulation resistance                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | ≥ 5000MΩ                             |                                 |                  |                       |                                      |                           |                         |                     |                                      |                       |           |                                    |         |                                    |       |                                                |            |                                |            |
| Contact resistance inner conductor                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | ≤ 1.5mΩ                              |                                 |                  |                       |                                      |                           |                         |                     |                                      |                       |           |                                    |         |                                    |       |                                                |            |                                |            |
| Contact resistance outer conductor                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | ≤ 1mΩ                                |                                 |                  |                       |                                      |                           |                         |                     |                                      |                       |           |                                    |         |                                    |       |                                                |            |                                |            |
| Dielectric withstanding voltage (at sea level)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 2500 V rms                           |                                 |                  |                       |                                      |                           |                         |                     |                                      |                       |           |                                    |         |                                    |       |                                                |            |                                |            |
| Working voltage (at sea level)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 1000 V rms                           |                                 |                  |                       |                                      |                           |                         |                     |                                      |                       |           |                                    |         |                                    |       |                                                |            |                                |            |
| <div>Mechanical Data</div> <table> <tr> <td>Recommended coupling nut torque</td><td>6 to 10 inch lbs</td></tr> <tr> <td>Coupling proof torque</td><td>15 inch lbs</td></tr> <tr> <td>Contact captivation-axial</td><td>≥ 6.3 lbs</td></tr> <tr> <td>Durability (mating)</td><td>≥ 500</td></tr> </table>                                                                                                                                                                                                                                                                                                                  |                                      | Recommended coupling nut torque | 6 to 10 inch lbs | Coupling proof torque | 15 inch lbs                          | Contact captivation-axial | ≥ 6.3 lbs               | Durability (mating) | ≥ 500                                |                       |           |                                    |         |                                    |       |                                                |            |                                |            |
| Recommended coupling nut torque                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 6 to 10 inch lbs                     |                                 |                  |                       |                                      |                           |                         |                     |                                      |                       |           |                                    |         |                                    |       |                                                |            |                                |            |
| Coupling proof torque                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 15 inch lbs                          |                                 |                  |                       |                                      |                           |                         |                     |                                      |                       |           |                                    |         |                                    |       |                                                |            |                                |            |
| Contact captivation-axial                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | ≥ 6.3 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-C</td></tr> </table>                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                      | Crimping tool                   | CRT-1 or CRT-2   | Crimp insert          | INSERT-C                             |                           |                         |                     |                                      |                       |           |                                    |         |                                    |       |                                                |            |                                |            |
| Crimping tool                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | CRT-1 or CRT-2                       |                                 |                  |                       |                                      |                           |                         |                     |                                      |                       |           |                                    |         |                                    |       |                                                |            |                                |            |
| Crimp insert                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | INSERT-C                             |                                 |                  |                       |                                      |                           |                         |                     |                                      |                       |           |                                    |         |                                    |       |                                                |            |                                |            |

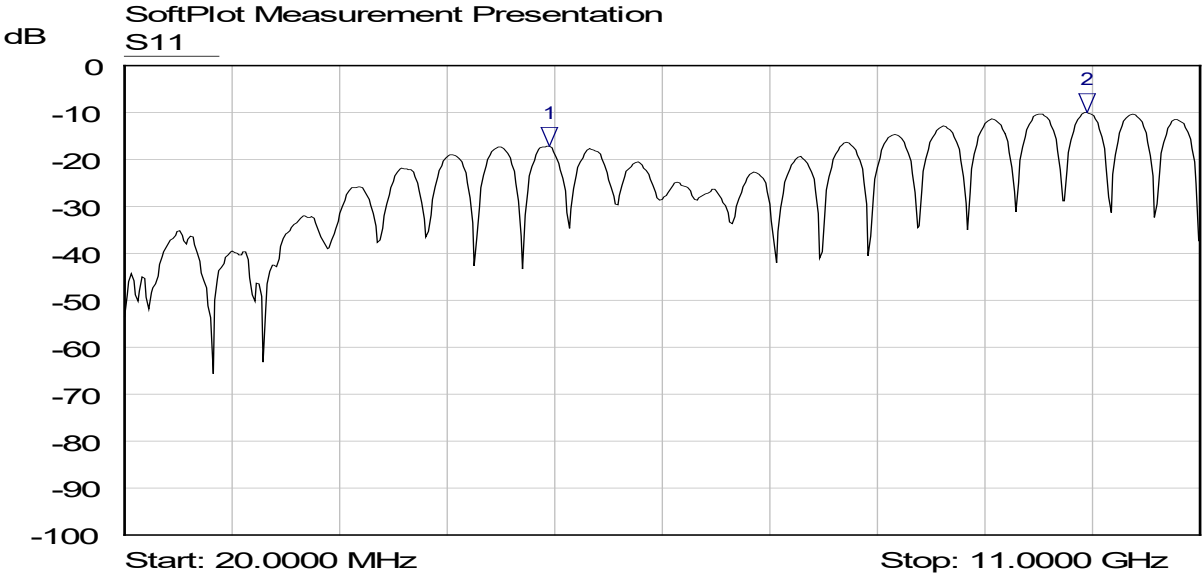
Notice: JYEBAO reserves the right to make modifications deemed appropriate.

# JYE BAO CO., LTD.

## CABLE ASSEMBLY INSTRUCTION

|                                                                                                                                                                                                                                                                                                                                                                                                           |                                                                                   |                                                                                     |                                                                                                                      |         |   |   |   |   |                                                                                   |                                                                                   |                                                                                     |      |             |         |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------|---------|---|---|---|---|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|------|-------------|---------|
| N8100-0214                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                   | DATE                                                                                | 2014/04/29                                                                                                           | REV     | — |   |   |   |                                                                                   |                                                                                   |                                                                                     |      |             |         |
| <table><tr><td>A</td><td>B</td><td>C</td></tr><tr><td></td><td></td><td></td></tr><tr><td>BODY</td><td>CONTACT PIN</td><td>FERRULE</td></tr></table> |                                                                                   |                                                                                     |                                                                                                                      |         |   | A | B | C |  |  |  | BODY | CONTACT PIN | FERRULE |
| 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 PIN " B " ON CENTER CONDUCTOR AND SOLDER IN " Y ".            |         |   |   |   |   |                                                                                   |                                                                                   |                                                                                     |      |             |         |
|                                                                                                                                                                                                                                                                                                                        |                                                                                   |                                                                                     | Step 4: LOOSEN BRAIDING AND SLIDE CONNECTOR " A " IN PLACE.                                                          |         |   |   |   |   |                                                                                   |                                                                                   |                                                                                     |      |             |         |
|                                                                                                                                                                                                                                                                                                                        |                                                                                   |                                                                                     | Step 5: SLIDE FERRULE " C " TOWARDS THE CONNECTOR " A " AND CRIMP.<br>(USE 10.7mm/0.421inch HEX SECTION OF INSERT-C) |         |   |   |   |   |                                                                                   |                                                                                   |                                                                                     |      |             |         |
| This part number complies with RoHS.<br>Notice: JYEBAO reserves the right to make modifications deemed appropriate.                                                                                                                                                                                                                                                                                       |                                                                                   |                                                                                     |                                                                                                                      |         |   |   |   |   |                                                                                   |                                                                                   |                                                                                     |      |             |         |
| APPROVED                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                                   | CHECKED                                                                             |                                                                                                                      | DRAWING |   |   |   |   |                                                                                   |                                                                                   |                                                                                     |      |             |         |
|                                                                                                                                                                                                                                                                                                                                                                                                           |                                                                                   |                                                                                     |                                                                                                                      | Albert  |   |   |   |   |                                                                                   |                                                                                   |                                                                                     |      |             |         |

N8100-0214



| Mkr | Trace | X-Axis     | Value     | Notes |
|-----|-------|------------|-----------|-------|
| 1 ▽ | S11   | 4.3577 GHz | -17.11 dB |       |
| 2 ▽ | S11   | 9.8416 GHz | -9.99 dB  |       |