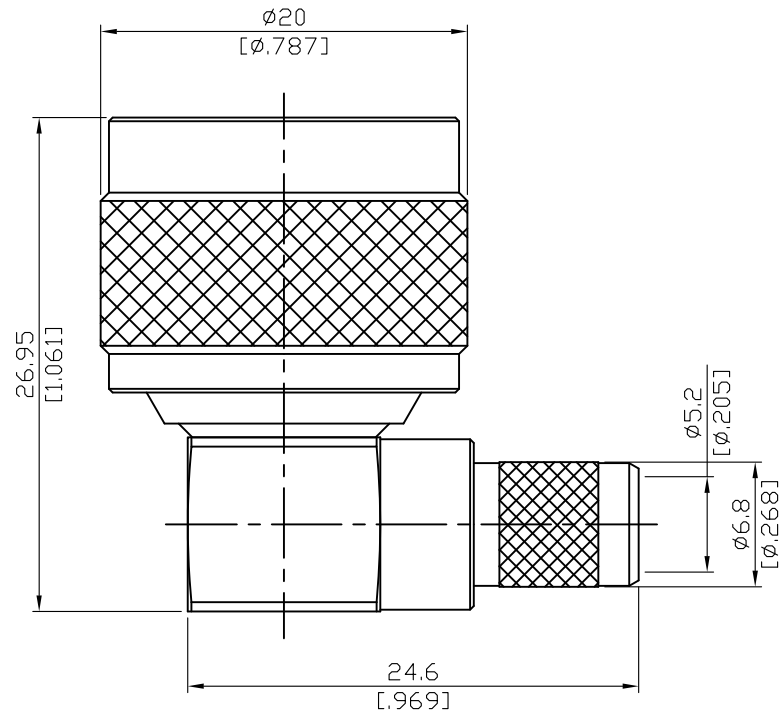


N3100-95DF

N plug crimp for 5DFB and Aircell 7  
6GHz VSWR 1.2

50Ω



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

Suitable Cables: 5DFB; Aircell 7

This part number complies with RoHS.

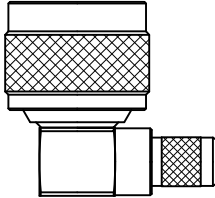
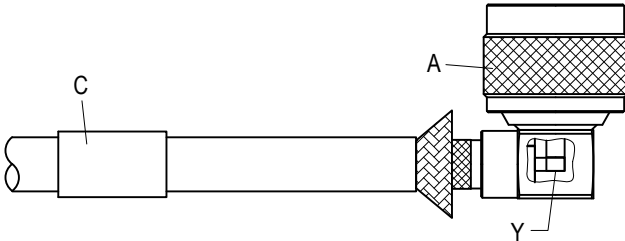
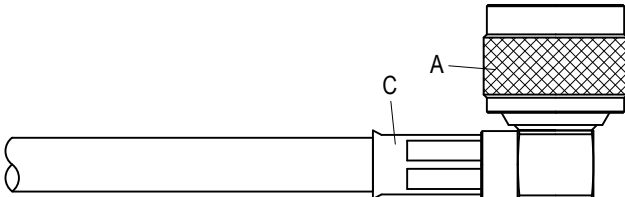
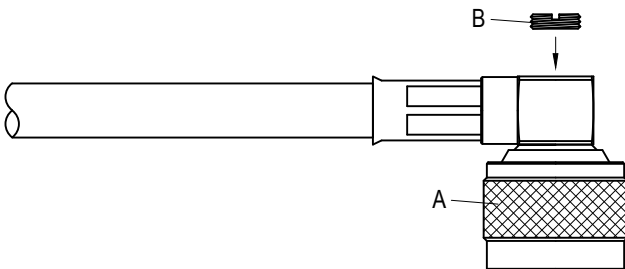
Notice: JYEBAO reserves the right to make modifications deemed appropriate.

| N                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | N3100-95DF                           |                                 |                  |                       |                                      |                              |                         |                           |                                      |                       |           |                                    |         |                                    |       |                                                |            |                                |            |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------|---------------------------------|------------------|-----------------------|--------------------------------------|------------------------------|-------------------------|---------------------------|--------------------------------------|-----------------------|-----------|------------------------------------|---------|------------------------------------|-------|------------------------------------------------|------------|--------------------------------|------------|
| <div data-bbox="169 344 569 392">Interface</div> MIL-STD-348B                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                      |                                 |                  |                       |                                      |                              |                         |                           |                                      |                       |           |                                    |         |                                    |       |                                                |            |                                |            |
| <div data-bbox="169 510 569 557">Electrical Data</div> <table> <tr> <td>Impedance</td><td>50Ω</td></tr> <tr> <td>Frequency range</td><td>DC to 6GHz</td></tr> <tr> <td>VSWR</td><td>≤ 1.2 (DC to 6GHz)</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 6GHz                           | VSWR                         | ≤ 1.2 (DC to 6GHz)      | 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 6GHz                           |                                 |                  |                       |                                      |                              |                         |                           |                                      |                       |           |                                    |         |                                    |       |                                                |            |                                |            |
| VSWR                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | ≤ 1.2 (DC to 6GHz)                   |                                 |                  |                       |                                      |                              |                         |                           |                                      |                       |           |                                    |         |                                    |       |                                                |            |                                |            |
| 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 data-bbox="169 1055 569 1102">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>Coupling nut retention force</td><td>≥ 101.2 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                          | Coupling nut retention force | ≥ 101.2 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                          |                                 |                  |                       |                                      |                              |                         |                           |                                      |                       |           |                                    |         |                                    |       |                                                |            |                                |            |
| Coupling nut retention force                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | ≥ 101.2 lbs                          |                                 |                  |                       |                                      |                              |                         |                           |                                      |                       |           |                                    |         |                                    |       |                                                |            |                                |            |
| Contact captivation-axial                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | ≥ 6.3 lbs                            |                                 |                  |                       |                                      |                              |                         |                           |                                      |                       |           |                                    |         |                                    |       |                                                |            |                                |            |
| Durability (mating)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | ≥ 500                                |                                 |                  |                       |                                      |                              |                         |                           |                                      |                       |           |                                    |         |                                    |       |                                                |            |                                |            |
| <div data-bbox="169 1408 569 1456">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 data-bbox="169 1762 569 1809">Tooling</div> <table> <tr> <td>Crimping tool</td><td>CRT-1 or CRT-2</td></tr> <tr> <td>Crimp insert</td><td>INSERT-D</td></tr> </table>                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                      | Crimping tool                   | CRT-1 or CRT-2   | Crimp insert          | INSERT-D                             |                              |                         |                           |                                      |                       |           |                                    |         |                                    |       |                                                |            |                                |            |
| Crimping tool                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | CRT-1 or CRT-2                       |                                 |                  |                       |                                      |                              |                         |                           |                                      |                       |           |                                    |         |                                    |       |                                                |            |                                |            |
| Crimp insert                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | INSERT-D                             |                                 |                  |                       |                                      |                              |                         |                           |                                      |                       |           |                                    |         |                                    |       |                                                |            |                                |            |

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

# JYE BAO CO., LTD.

## CABLE ASSEMBLY INSTRUCTION

|                                                                                                                                                                                                                                                                                                                                                                                                                         |  |         |                                                                                                                                                                      |         |   |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|---------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------|---|
| N3100-95DF                                                                                                                                                                                                                                                                                                                                                                                                              |  | DATE    | 2020/12/20                                                                                                                                                           | REV     | — |
| <div><div><div>A</div><div></div><div>BODY</div></div><div><div>B</div><div></div><div>COVER</div></div><div><div>C</div><div></div><div>FERRULE</div></div></div> |  |         |                                                                                                                                                                      |         |   |
| DIAGRAM                                                                                                                                                                                                                                                                                                                                                                                                                 |  |         | ASSEMBLY INSTRUCTION                                                                                                                                                 |         |   |
|                                                                                                                                                                                                                                                                                                                                       |  |         | Step 1: STRIP AS SHOWN.                                                                                                                                              |         |   |
|                                                                                                                                                                                                                                                                                                                                      |  |         | Step 2: SLIDE FERRULE "C" OVER CABLE.<br>Step 3: WRAP THE BRAIDING UPWARDS.<br>Step 4: SLIDE CENTER CONDUCTOR ON THE CONTACT PIN OF CONNECTOR "A" AND SOLDER IN "Y". |         |   |
|                                                                                                                                                                                                                                                                                                                                      |  |         | Step 5: SLIDE FERRULE "C" TOWARDS THE CONNECTOR "A" AND CRIMP.<br>(USE 7.9mm/0.311inch HEX SECTION OF INSERT-D)                                                      |         |   |
|                                                                                                                                                                                                                                                                                                                                      |  |         | Step 6: FINALLY SCREW "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  |   |