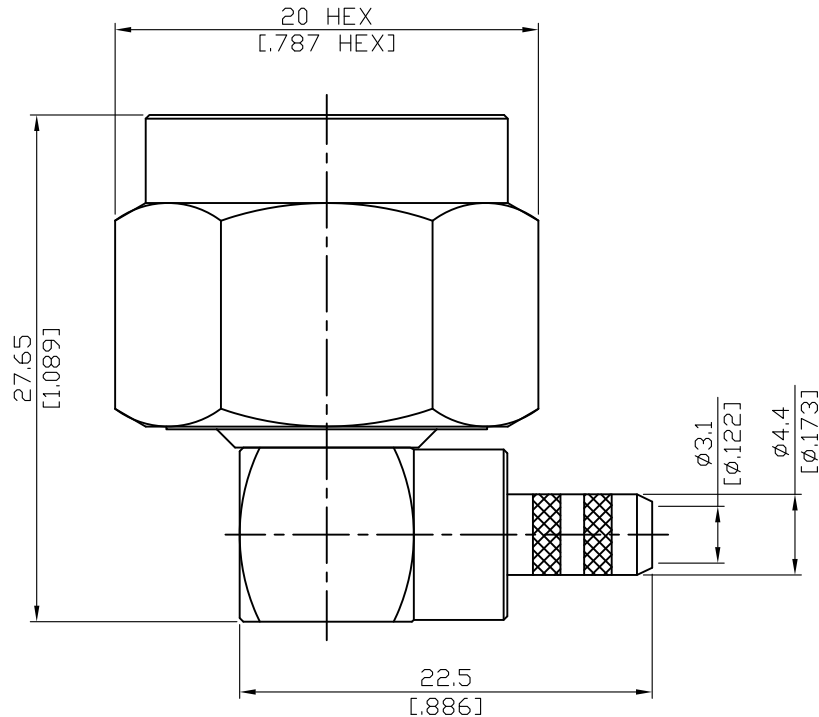


N3100A-9142

N Plug Crimp Right Angle For RG142, RG400; 50Ω  
6GHz VSWR 1.2



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

Suitable Cables: RG142, RG400

This part number complies with RoHS.

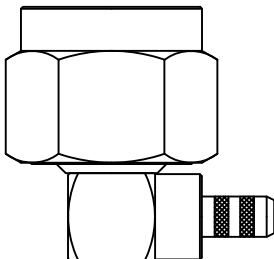
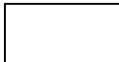
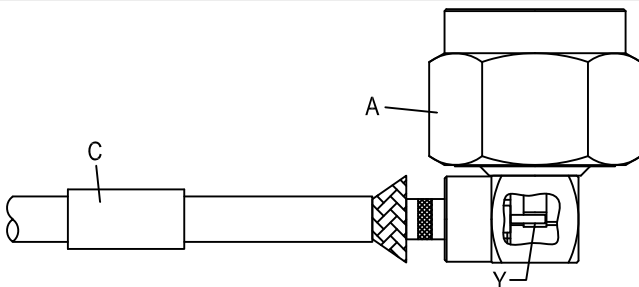
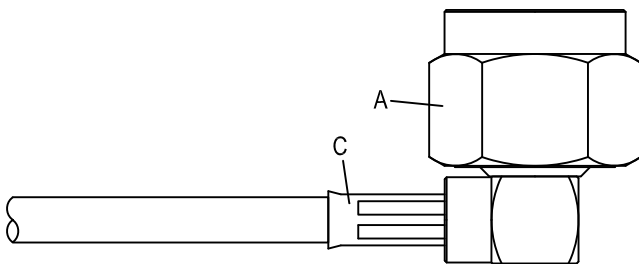
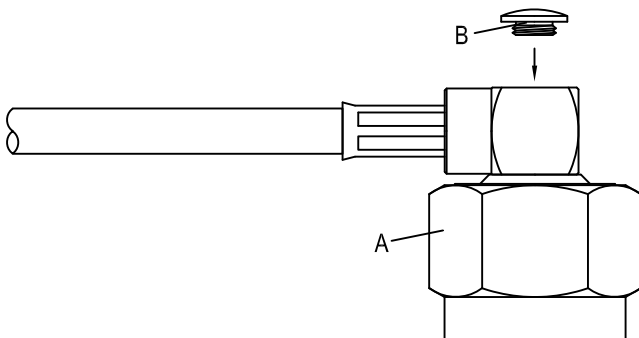
Notice: JYEBAO reserves the right to make modifications deemed appropriate.

| N                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | N3100A-9142 |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|
| <div>Interface</div> MIL-STD-348B                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |             |
| <div>Electrical Data</div> <div> <div>Impedance</div> <div>50Ω</div> </div> <div> <div>Frequency range</div> <div>DC to 6GHz</div> </div> <div> <div>VSWR</div> <div><math>\leq 1.2</math> (DC to 6GHz)</div> </div> <div> <div>Insertion loss</div> <div><math>\leq 0.05 \times \sqrt{f(\text{GHz})}</math> dB</div> </div> <div> <div>Insulation resistance</div> <div><math>\geq 5000\text{M}\Omega</math></div> </div> <div> <div>Contact resistance inner conductor</div> <div><math>\leq 1.5\text{m}\Omega</math></div> </div> <div> <div>Contact resistance outer conductor</div> <div><math>\leq 1\text{m}\Omega</math></div> </div> <div> <div>Dielectric withstanding voltage (at sea level)</div> <div>2500 V rms</div> </div> <div> <div>Working voltage (at sea level)</div> <div>1000 V rms</div> </div> |             |
| <div>Mechanical Data</div> <div> <div>Recommended coupling nut torque</div> <div>6 to 10 inch lbs</div> </div> <div> <div>Coupling proof torque</div> <div>15 inch lbs</div> </div> <div> <div>Coupling nut retention force</div> <div><math>\geq 101.2</math> lbs</div> </div> <div> <div>Contact captivation-axial</div> <div><math>\geq 6.3</math> lbs</div> </div> <div> <div>Durability (mating)</div> <div><math>\geq 500</math></div> </div>                                                                                                                                                                                                                                                                                                                                                                    |             |
| <div>Environmental Data</div> <div> <div>Temperature range</div> <div>-65°C to +165°C</div> </div> <div> <div>Thermal shock</div> <div>MIL-STD-202, Method 107, Condition B</div> </div> <div> <div>Moisture resistance</div> <div>MIL-STD-202, Method 106</div> </div> <div> <div>Corrosion</div> <div>MIL-STD-202, Method 101, Condition B</div> </div> <div> <div>RoHS</div> <div>Compliant</div> </div>                                                                                                                                                                                                                                                                                                                                                                                                            |             |
| <div>Tooling</div> <div> <div>Crimping tool</div> <div>CRT-1 or CRT-2</div> </div> <div> <div>Crimp insert</div> <div>INSERT-B</div> </div>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |             |

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

# JYE BAO CO., LTD.

## CABLE ASSEMBLY INSTRUCTION

|                                                                                                                                                                                                                                                                                                                                                                                                                       |  |         |                                                                                                                                                                            |         |   |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|---------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------|---|
| N3100A-9142                                                                                                                                                                                                                                                                                                                                                                                                           |  | DATE    | 2020/05/05                                                                                                                                                                 | REV     | — |
| <div><div><div>A</div><div></div><div>BODY</div></div><div><div>B</div><div></div><div>NUT</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 5.5mm/0.217inch HEX SECTION OF INSERT-B)                                                        |         |   |
|                                                                                                                                                                                                                                                                                                                                    |  |         | 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  |   |

# N3100A-9142

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