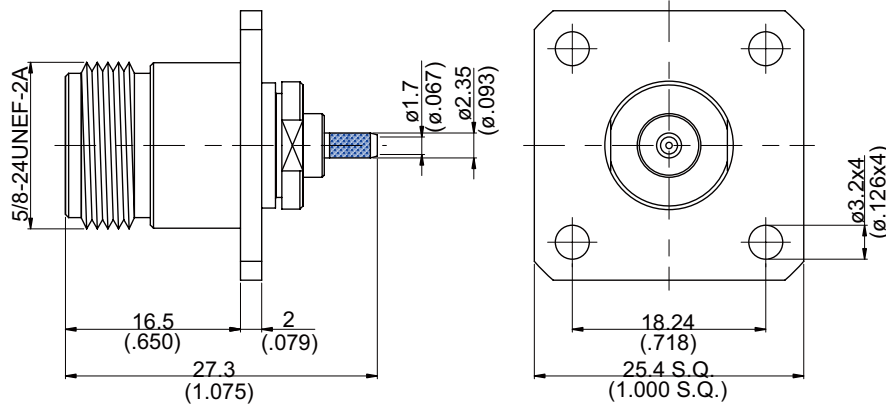


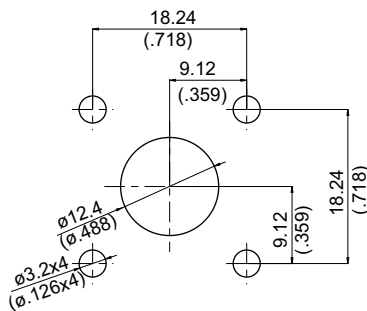
N8146-L100

**N Jack Crimp 4-Hole 25.4SQ Flange**  
For JBY100, LMR100 6GHz VSWR1.2

**50Ω**



**MOUNTING HOLE**



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

Weight: 31.6g

Suitable Cables: JBY100

**This part number complies with RoHS.**

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

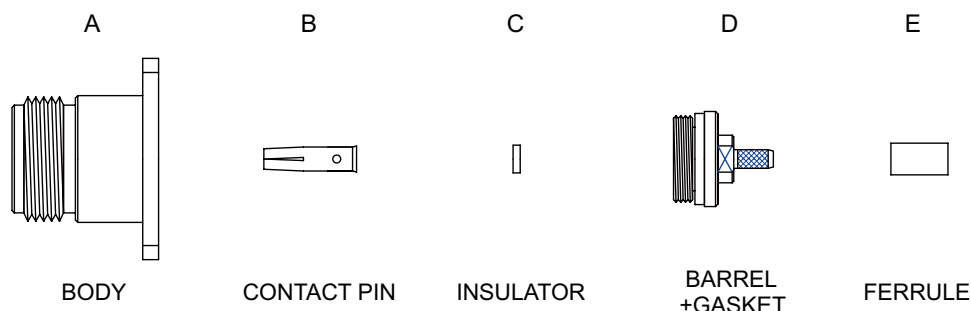
| N                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | N8146-L100                           |                                 |                  |                       |                                      |                              |                         |                           |                                      |                       |           |                                    |         |                                    |       |                                                |            |                                |            |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------|---------------------------------|------------------|-----------------------|--------------------------------------|------------------------------|-------------------------|---------------------------|--------------------------------------|-----------------------|-----------|------------------------------------|---------|------------------------------------|-------|------------------------------------------------|------------|--------------------------------|------------|
| <div data-bbox="169 344 569 392">Interface</div> MIL-STD-348B                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                      |                                 |                  |                       |                                      |                              |                         |                           |                                      |                       |           |                                    |         |                                    |       |                                                |            |                                |            |
| <div data-bbox="169 512 569 560">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 1057 569 1104">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 1411 569 1458">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 1765 569 1812">Tooling</div>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                      |                                 |                  |                       |                                      |                              |                         |                           |                                      |                       |           |                                    |         |                                    |       |                                                |            |                                |            |

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## CABLE ASSEMBLY INSTRUCTION

N8146-L100

JYE BAO CO., LTD.

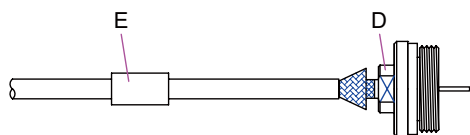


### DIAGRAM

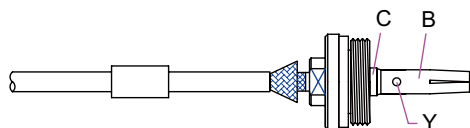
### ASSEMBLY INSTRUCTION



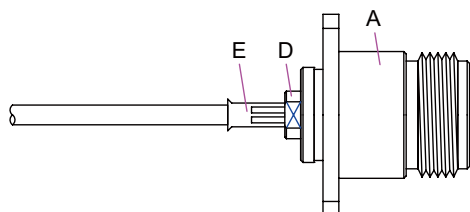
Step 1: STRIP AS SHOWN .



Step 2: SLIDE FERRULE " E " OVER CABLE.  
Step 3: LOOSEN BRAIDING AND BARREL " D " IN PLACE.



Step 4: PUT INSULATOR " C " AND PIN " B " ON CENTER CONDUCTOR AND SOLDER IN " Y ".



Step 5: SCREW BARREL " D " ON THE CONNECTOR BODY " A ".  
Step 6: SLIDE FERRULE " E " TOWARDS THE CONNECTOR " A " AND CRIMP.

This part number complies with RoHS.

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