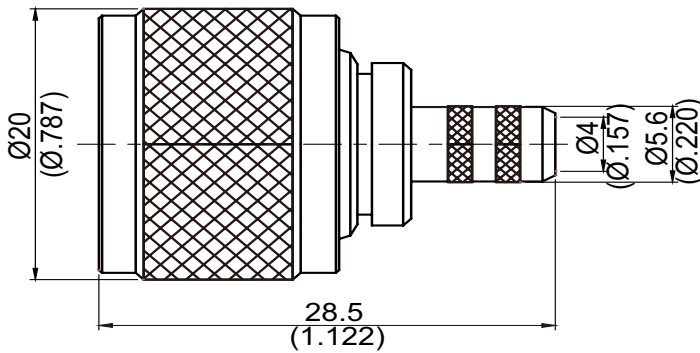


| N3100B-L240                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | N Plug Crimp For JBY240; LMR240<br>6GHz VSWR 1.2 |                                                        | 50Ω |       |          |                      |         |        |                                          |        |         |  |             |       |                                                        |           |        |  |      |       |                                          |              |       |                                          |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------|--------------------------------------------------------|-----|-------|----------|----------------------|---------|--------|------------------------------------------|--------|---------|--|-------------|-------|--------------------------------------------------------|-----------|--------|--|------|-------|------------------------------------------|--------------|-------|------------------------------------------|
| <div></div>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                  |                                                        |     |       |          |                      |         |        |                                          |        |         |  |             |       |                                                        |           |        |  |      |       |                                          |              |       |                                          |
| <table><tr><th>Parts</th><th>Material</th><th>Plating (Micro-inch)</th></tr><tr><td>Ferrule</td><td>Copper</td><td>Tin-Zinc-Copper-Alloy 100 Over Copper 50</td></tr><tr><td>Gasket</td><td>Silicon</td><td></td></tr><tr><td>Contact Pin</td><td>Brass</td><td>Gold 4 Over Nickel Phosphorous Alloy 80 Over Copper 20</td></tr><tr><td>Insulator</td><td>Teflon</td><td></td></tr><tr><td>Body</td><td>Brass</td><td>Tin-Zinc-Copper-Alloy 100 Over Copper 50</td></tr><tr><td>Coupling Nut</td><td>Brass</td><td>Tin-Zinc-Copper-Alloy 100 Over Copper 50</td></tr></table> |                                                  |                                                        |     | Parts | Material | Plating (Micro-inch) | Ferrule | Copper | Tin-Zinc-Copper-Alloy 100 Over Copper 50 | Gasket | Silicon |  | Contact Pin | Brass | Gold 4 Over Nickel Phosphorous Alloy 80 Over Copper 20 | Insulator | Teflon |  | Body | Brass | Tin-Zinc-Copper-Alloy 100 Over Copper 50 | Coupling Nut | Brass | Tin-Zinc-Copper-Alloy 100 Over Copper 50 |
| Parts                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Material                                         | Plating (Micro-inch)                                   |     |       |          |                      |         |        |                                          |        |         |  |             |       |                                                        |           |        |  |      |       |                                          |              |       |                                          |
| Ferrule                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | Copper                                           | Tin-Zinc-Copper-Alloy 100 Over Copper 50               |     |       |          |                      |         |        |                                          |        |         |  |             |       |                                                        |           |        |  |      |       |                                          |              |       |                                          |
| Gasket                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | Silicon                                          |                                                        |     |       |          |                      |         |        |                                          |        |         |  |             |       |                                                        |           |        |  |      |       |                                          |              |       |                                          |
| Contact Pin                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | Brass                                            | Gold 4 Over Nickel Phosphorous Alloy 80 Over Copper 20 |     |       |          |                      |         |        |                                          |        |         |  |             |       |                                                        |           |        |  |      |       |                                          |              |       |                                          |
| Insulator                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | Teflon                                           |                                                        |     |       |          |                      |         |        |                                          |        |         |  |             |       |                                                        |           |        |  |      |       |                                          |              |       |                                          |
| Body                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | Brass                                            | Tin-Zinc-Copper-Alloy 100 Over Copper 50               |     |       |          |                      |         |        |                                          |        |         |  |             |       |                                                        |           |        |  |      |       |                                          |              |       |                                          |
| Coupling Nut                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Brass                                            | Tin-Zinc-Copper-Alloy 100 Over Copper 50               |     |       |          |                      |         |        |                                          |        |         |  |             |       |                                                        |           |        |  |      |       |                                          |              |       |                                          |
| Suitable Cables:JBY240;LMR240                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                  |                                                        |     |       |          |                      |         |        |                                          |        |         |  |             |       |                                                        |           |        |  |      |       |                                          |              |       |                                          |

This part number complies with RoHS.

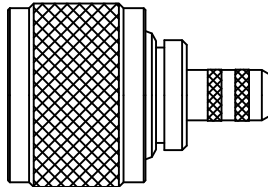
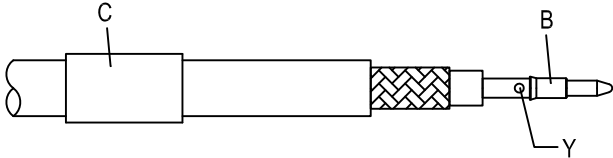
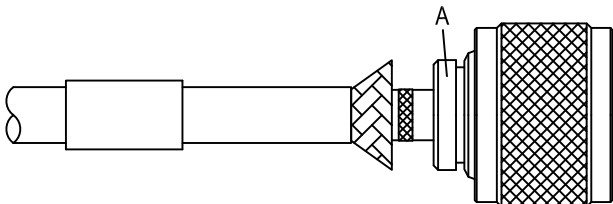
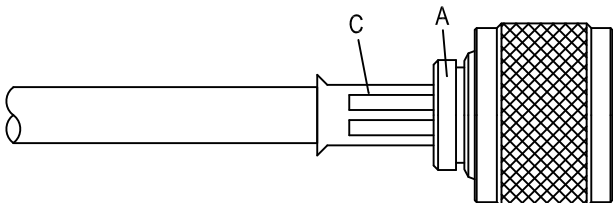
Notice: JYEBAO reserves the right to make modifications deemed appropriate.

| N                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | N3100B-L240                          |                                 |                  |                       |                                      |                              |                         |                           |                                      |                       |           |                                    |         |                                    |       |                                                |            |                                |            |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------|---------------------------------|------------------|-----------------------|--------------------------------------|------------------------------|-------------------------|---------------------------|--------------------------------------|-----------------------|-----------|------------------------------------|---------|------------------------------------|-------|------------------------------------------------|------------|--------------------------------|------------|
| <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 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>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>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-E</td></tr> </table>                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                      | Crimping tool                   | CRT-1 or CRT-2   | Crimp insert          | INSERT-E                             |                              |                         |                           |                                      |                       |           |                                    |         |                                    |       |                                                |            |                                |            |
| Crimping tool                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | CRT-1 or CRT-2                       |                                 |                  |                       |                                      |                              |                         |                           |                                      |                       |           |                                    |         |                                    |       |                                                |            |                                |            |
| Crimp insert                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | INSERT-E                             |                                 |                  |                       |                                      |                              |                         |                           |                                      |                       |           |                                    |         |                                    |       |                                                |            |                                |            |

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

# JYE BAO CO., LTD.

## CABLE ASSEMBLY RECOMMENDATION

|                                                                                                                                                                                                                                                                                                                                                                                                                               |  |         |                                                                                                                                                                                   |         |   |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|---------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------|---|
| N3100B-L240                                                                                                                                                                                                                                                                                                                                                                                                                   |  | DATE    | 2018/09/20                                                                                                                                                                        | REV     | A |
| <div><div><div>A</div><div></div><div>BODY</div></div><div><div>B</div><div></div><div>CONTACT PIN</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: PUT PIN " B " ON CENTER CONDUCTOR AND SOLDER OR CRIMP IN " Y ".<br>(USE SQUARE 1.6mm/0.063inch SECTION OF INSERT-E IF CRIMPED) |         |   |
|                                                                                                                                                                                                                                                                                                                                            |  |         | Step 4: LOOSEN BRAIDING AND SLIDE CONNECTOR " A " IN PLACE.                                                                                                                       |         |   |
|                                                                                                                                                                                                                                                                                                                                            |  |         | Step 5: SLIDE FERRULE " C " TOWARDS THE CONNECTOR " A " AND CRIMP.<br>(USE 6.5mm/0.256inch HEX SECTION OF INSERT-E)                                                               |         |   |
| This part number complies with RoHS.<br>Notice: JYEBAO reserves the right to make modifications deemed appropriate.                                                                                                                                                                                                                                                                                                           |  |         |                                                                                                                                                                                   |         |   |
| APPROVED                                                                                                                                                                                                                                                                                                                                                                                                                      |  | CHECKED |                                                                                                                                                                                   | DRAWING |   |
|                                                                                                                                                                                                                                                                                                                                                                                                                               |  |         |                                                                                                                                                                                   | Albert  |   |

# N3100B-L240

