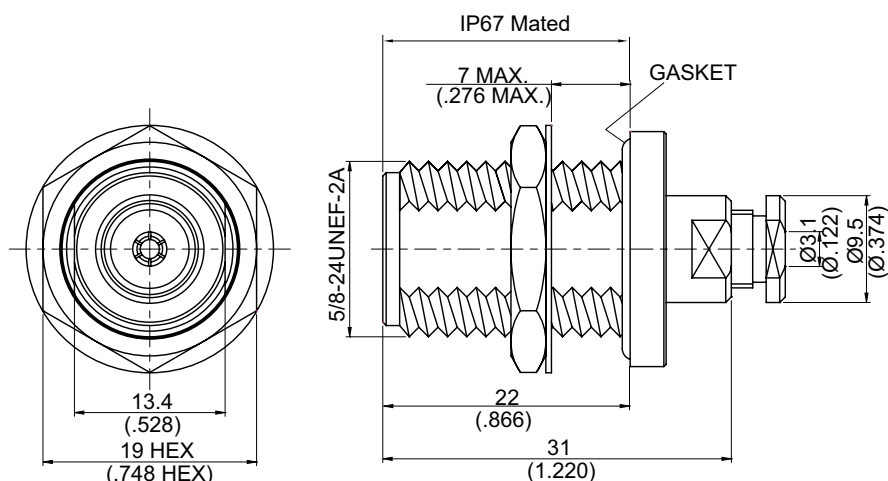


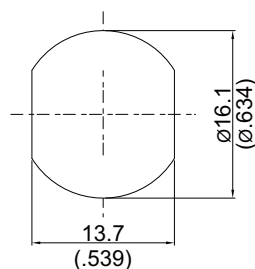
N8205BD-0316

**N Jack Clamp Bulkhead For RD316,RD316-FEP**  
IP67 mated, 3GHz VSWR 1.2

**50Ω**



#### MOUNTING HOLE



| Parts       | Material        | Plating (Micro-inch)                                  |
|-------------|-----------------|-------------------------------------------------------|
| Nut         | Brass           | Tin-Zinc-Copper-Alloy 100 Over Copper 50              |
| Washer      | Brass           | Tin-Zinc-Copper-Alloy 100 Over Copper 50              |
| Gasket      | Silicon         |                                                       |
| Top Hat     | Brass           | Tin-Zinc-Copper-Alloy 100 Over Copper 50              |
| Insulator   | Teflon          |                                                       |
| Hex Nut     | Brass           | Tin-Zinc-Copper-Alloy 100 Over Copper 50              |
| Barrel      | Brass           | Tin-Zinc-Copper-Alloy 100 Over Copper 50              |
| Contact Pin | Phosphor Bronze | Gold 4 Over Nickel Phosphorus Alloy 80 Over Copper 20 |
| Body        | Brass           | Tin-Zinc-Copper-Alloy 100 Over Copper 50              |

Suitable Cables: RD316,RD316-FEP

**This part number complies with RoHS.**

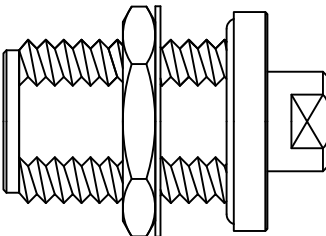
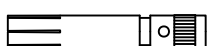
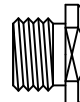
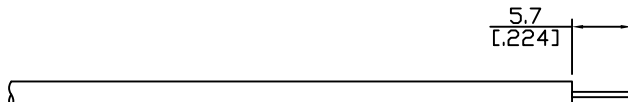
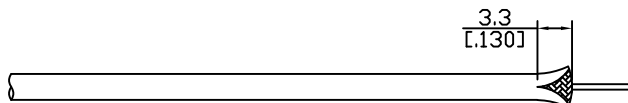
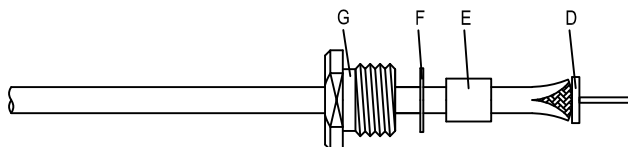
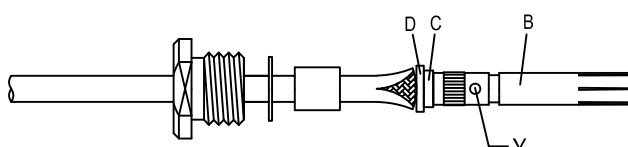
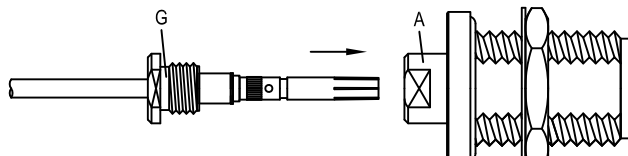
**Notice: JYEBAO reserves the right to make modifications deemed appropriate.**

| N                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | N8205BD-0316                         |                                 |                  |                       |                                      |                           |                         |                     |                                      |                       |           |                                    |         |                                    |       |                                                |            |                                |            |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------|---------------------------------|------------------|-----------------------|--------------------------------------|---------------------------|-------------------------|---------------------|--------------------------------------|-----------------------|-----------|------------------------------------|---------|------------------------------------|-------|------------------------------------------------|------------|--------------------------------|------------|
| <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 3GHz</td></tr> <tr> <td>VSWR</td><td>≤ 1.2 (DC to 3GHz)</td></tr> <tr> <td>Insertion loss</td><td>≤ 0.05 x √f(GHz) dB</td></tr> <tr> <td>Insulation resistance</td><td>≥ 5000MΩ</td></tr> <tr> <td>Contact resistance inner conductor</td><td>≤ 1.5mΩ</td></tr> <tr> <td>Contact resistance outer conductor</td><td>≤ 1mΩ</td></tr> <tr> <td>Dielectric withstanding voltage (at sea level)</td><td>2500 V rms</td></tr> <tr> <td>Working voltage (at sea level)</td><td>1000 V rms</td></tr> </table> |                                      | Impedance                       | 50Ω              | Frequency range       | DC to 3GHz                           | VSWR                      | ≤ 1.2 (DC to 3GHz)      | Insertion loss      | ≤ 0.05 x √f(GHz) dB                  | Insulation resistance | ≥ 5000MΩ  | Contact resistance inner conductor | ≤ 1.5mΩ | Contact resistance outer conductor | ≤ 1mΩ | Dielectric withstanding voltage (at sea level) | 2500 V rms | Working voltage (at sea level) | 1000 V rms |
| Impedance                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 50Ω                                  |                                 |                  |                       |                                      |                           |                         |                     |                                      |                       |           |                                    |         |                                    |       |                                                |            |                                |            |
| Frequency range                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | DC to 3GHz                           |                                 |                  |                       |                                      |                           |                         |                     |                                      |                       |           |                                    |         |                                    |       |                                                |            |                                |            |
| VSWR                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | ≤ 1.2 (DC to 3GHz)                   |                                 |                  |                       |                                      |                           |                         |                     |                                      |                       |           |                                    |         |                                    |       |                                                |            |                                |            |
| Insertion loss                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | ≤ 0.05 x √f(GHz) dB                  |                                 |                  |                       |                                      |                           |                         |                     |                                      |                       |           |                                    |         |                                    |       |                                                |            |                                |            |
| Insulation resistance                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | ≥ 5000MΩ                             |                                 |                  |                       |                                      |                           |                         |                     |                                      |                       |           |                                    |         |                                    |       |                                                |            |                                |            |
| Contact resistance inner conductor                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | ≤ 1.5mΩ                              |                                 |                  |                       |                                      |                           |                         |                     |                                      |                       |           |                                    |         |                                    |       |                                                |            |                                |            |
| Contact resistance outer conductor                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | ≤ 1mΩ                                |                                 |                  |                       |                                      |                           |                         |                     |                                      |                       |           |                                    |         |                                    |       |                                                |            |                                |            |
| Dielectric withstanding voltage (at sea level)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 2500 V rms                           |                                 |                  |                       |                                      |                           |                         |                     |                                      |                       |           |                                    |         |                                    |       |                                                |            |                                |            |
| Working voltage (at sea level)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 1000 V rms                           |                                 |                  |                       |                                      |                           |                         |                     |                                      |                       |           |                                    |         |                                    |       |                                                |            |                                |            |
| <div 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>Contact captivation-axial</td><td>≥ 6.3 lbs</td></tr> <tr> <td>Durability (mating)</td><td>≥ 500</td></tr> </table>                                                                                                                                                                                                                                                                                                                |                                      | Recommended coupling nut torque | 6 to 10 inch lbs | Coupling proof torque | 15 inch lbs                          | Contact captivation-axial | ≥ 6.3 lbs               | Durability (mating) | ≥ 500                                |                       |           |                                    |         |                                    |       |                                                |            |                                |            |
| Recommended coupling nut torque                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 6 to 10 inch lbs                     |                                 |                  |                       |                                      |                           |                         |                     |                                      |                       |           |                                    |         |                                    |       |                                                |            |                                |            |
| Coupling proof torque                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 15 inch lbs                          |                                 |                  |                       |                                      |                           |                         |                     |                                      |                       |           |                                    |         |                                    |       |                                                |            |                                |            |
| Contact captivation-axial                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | ≥ 6.3 lbs                            |                                 |                  |                       |                                      |                           |                         |                     |                                      |                       |           |                                    |         |                                    |       |                                                |            |                                |            |
| Durability (mating)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | ≥ 500                                |                                 |                  |                       |                                      |                           |                         |                     |                                      |                       |           |                                    |         |                                    |       |                                                |            |                                |            |
| <div 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>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                      |                                 |                  |                       |                                      |                           |                         |                     |                                      |                       |           |                                    |         |                                    |       |                                                |            |                                |            |

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

# JYE BAO CO., LTD.

## CABLE ASSEMBLY INSTRUCTION

| N8205BD-0316                                                                                                        |                                                                                   | DATE                                                                              | 2021/08/10                                                                                                                                                    | REV                                                                                 | —                                                                                   |                                                                                     |
|---------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| A                                                                                                                   | B                                                                                 | C                                                                                 | D                                                                                                                                                             | E                                                                                   | F                                                                                   | G                                                                                   |
|                                    |  |  |                                                                              |  |  |  |
| BODY + HEX NUT<br>+ GASKET + WASHER                                                                                 | CONTACT<br>PIN                                                                    | INSULATOR                                                                         | TOP HAT                                                                                                                                                       | GASKET                                                                              | WASHER                                                                              | NUT                                                                                 |
|                                                                                                                     |                                                                                   |                                                                                   | ASSEMBLY INSTRUCTION                                                                                                                                          |                                                                                     |                                                                                     |                                                                                     |
|                                    |                                                                                   |                                                                                   | Step 1: STRIP AS SHOWN.                                                                                                                                       |                                                                                     |                                                                                     |                                                                                     |
|                                  |                                                                                   |                                                                                   | Step 2: MAKE A 3.3MM LONG CUT IN THE JACKET WITHOUT<br>DAMAGING THE BRAIDING.                                                                                 |                                                                                     |                                                                                     |                                                                                     |
|                                  |                                                                                   |                                                                                   | Step 3: SLIDE NUT " G " 、 WASHER " F " AND GASKET " E " OVER<br>CABLE.<br>Step 4: LOOSEN BRAIDING AND SLIDE TOP HAT " D " BETWEEN<br>DIELECTRIC AND BRAIDING. |                                                                                     |                                                                                     |                                                                                     |
|                                  |                                                                                   |                                                                                   | Step 5: SLIDE PREPARED CABLE INTO INSULATOR " C ".<br>Step 6: PUT PIN " B " ON CENTER CONDUCTOR AND SOLDER IN " Y ".                                          |                                                                                     |                                                                                     |                                                                                     |
|                                  |                                                                                   |                                                                                   | Step 7: FINALLY SCREW " G " 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                                                                              |                                                                                     |                                                                                     |

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