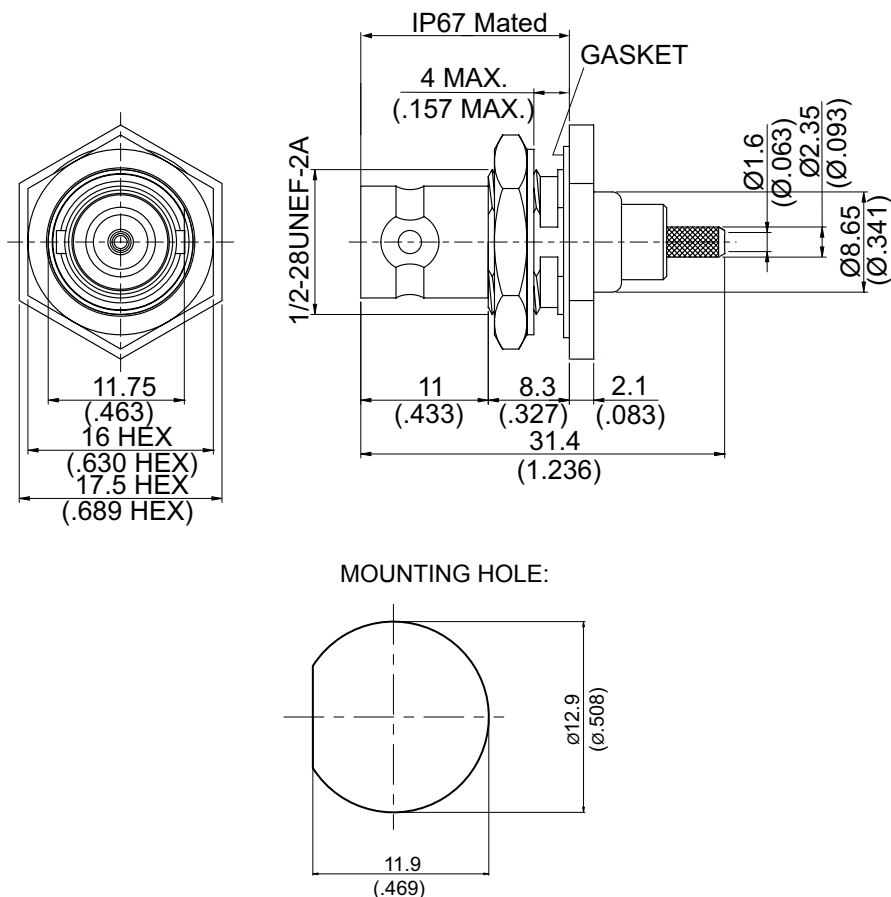


BNC8105AD-0316

**BNC jack crimp bulkhead**  
For RD316,RD316-FEP; 3.5GHz VSWR 1.2 **50Ω**



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

Weight: 13.36g

Suitable Cables:RD316, RD316-FEP

This part number complies with RoHS.

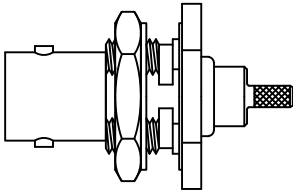
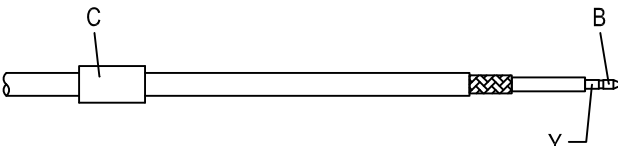
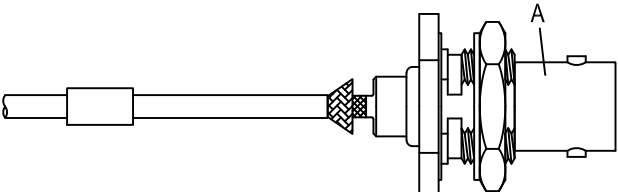
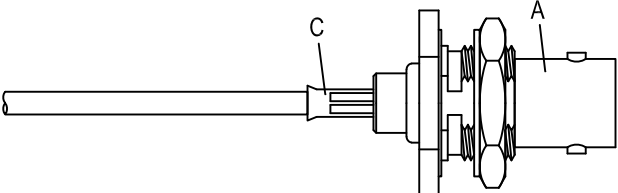
Notice: JYEBAO reserves the right to make modifications deemed appropriate.

| BNC                                            |  | BNC8105AD-0316                            |  |
|------------------------------------------------|--|-------------------------------------------|--|
| <b>Interface</b>                               |  | MIL-STD-348B                              |  |
| <b>Electrical Data</b>                         |  |                                           |  |
| Impedance                                      |  | 50Ω                                       |  |
| Frequency range                                |  | DC to 3.5GHz                              |  |
| VSWR                                           |  | $\leq 1.2$ (DC to 3.5GHz)                 |  |
| Insertion loss                                 |  | $\leq 0.1 \times \sqrt{f(\text{GHz})}$ dB |  |
| Insulation resistance                          |  | $\geq 5000\text{M}\Omega$                 |  |
| Contact resistance inner conductor             |  | $\leq 1.5\text{m}\Omega$                  |  |
| Contact resistance outer conductor             |  | $\leq 1\text{m}\Omega$                    |  |
| Dielectric withstanding voltage (at sea level) |  | 1500 V rms                                |  |
| Working voltage (at sea level)                 |  | 500 V rms                                 |  |
| <b>Mechanical Data</b>                         |  |                                           |  |
| Recommended coupling nut torque                |  | 0.6 to 2.5 inch lbs                       |  |
| Contact captivation-axial                      |  | $\geq 6.1$ lbs                            |  |
| Durability (mating)                            |  | $\geq 500$                                |  |
| <b>Environmental Data</b>                      |  |                                           |  |
| 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                                 |  |
| <b>Tooling</b>                                 |  |                                           |  |
| Crimping tool                                  |  | CRT-1 or CRT-2                            |  |
| Crimp insert                                   |  | INSERT-A                                  |  |

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

# JYE BAO CO., LTD.

## CABLE ASSEMBLY INSTRUCTION

|                                                                                                                     |  |                                                                                                                                                              |                                                                                     |         |   |
|---------------------------------------------------------------------------------------------------------------------|--|--------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|---------|---|
| BNC8105AD-0316                                                                                                      |  | DATE                                                                                                                                                         | 2021/07/30                                                                          | REV     | — |
| A                                                                                                                   |  | B                                                                                                                                                            | C                                                                                   |         |   |
|                                    |  |                                                                             |  |         |   |
| BODY + GASKET +<br>WASHER + HEX NUT                                                                                 |  | SMALL PIN                                                                                                                                                    | FERRULE                                                                             |         |   |
| 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 CRIMP IN " Y ".<br>(USE SQUARE 0.7mm/0.028inch SECTION OF INSERT-A) |                                                                                     |         |   |
|                                  |  | Step 4: LOOSEN BRAIDING AND SLIDE CONNECTOR " A " IN PLACE.                                                                                                  |                                                                                     |         |   |
|                                  |  | Step 5: SLIDE FERRULE " C " TOWARDS THE CONNECTOR " A " AND CRIMP.<br>(USE 3.3mm/0.130inch HEX SECTION OF INSERT-A)                                          |                                                                                     |         |   |
| This part number complies with RoHS.<br>Notice: JYEBAO reserves the right to make modifications deemed appropriate. |  |                                                                                                                                                              |                                                                                     |         |   |
| APPROVED                                                                                                            |  | CHECKED                                                                                                                                                      |                                                                                     | DRAWING |   |
|                                                                                                                     |  |                                                                                                                                                              |                                                                                     | Albert  |   |

# BNC8105AD-0316

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