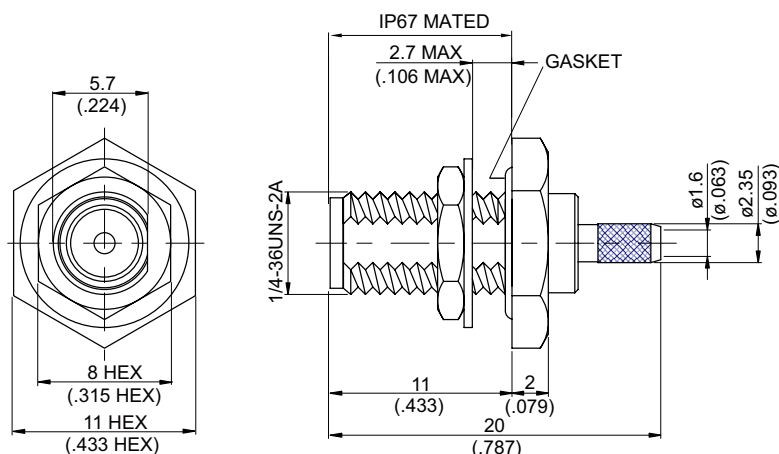
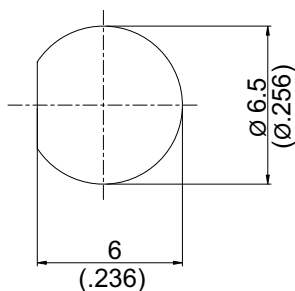


SMA8105A-0316

**SMA Jack Crimp Bulkhead, IP67 Mated,  
For RG174, RG188, RG316; 9GHz VSWR 1.2 50Ω**



**MOUNTING HOLE**



| Parts       | Material         | Plating (Micro-inch)                                  |
|-------------|------------------|-------------------------------------------------------|
| Ferrule     | Brass            | Gold 4 Over Nickel-Phosphorus Alloy 80 Over Copper 20 |
| Hex Nut     | Brass            | Gold 4 Over Nickel-Phosphorus Alloy 80 Over Copper 20 |
| Lock Washer | Brass            | Gold 4 Over Nickel-Phosphorus Alloy 80 Over Copper 20 |
| Gasket      | Silicon          |                                                       |
| Contact Pin | Beryllium Copper | Gold 4 Over Nickel-Phosphorus Alloy 80 Over Copper 20 |
| Insulator   | Teflon           |                                                       |
| Body        | Brass            | Gold 4 Over Nickel-Phosphorus Alloy 80 Over Copper 20 |

Weight: 4.48 g

Suitable Cables: RG174, RG188, RG316, RG316-FEP

**This part number complies with RoHS.**

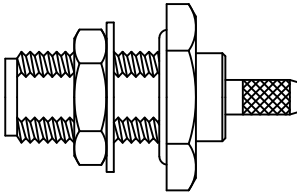
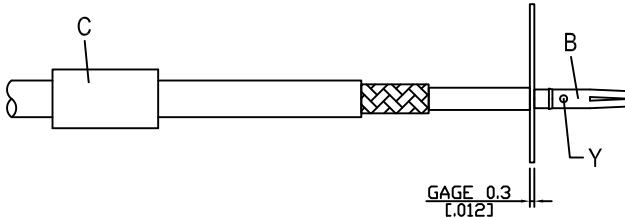
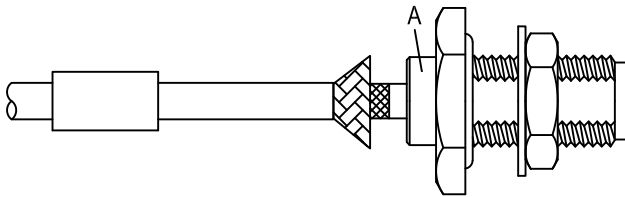
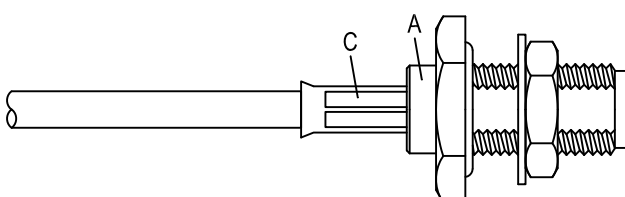
**Notice: JYEBAO reserves the right to make modifications deemed appropriate.**

| SMA                                                                                                                                                                                                                                                                                                                                                                                                                                                      | SMA8105A-0316 |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------|
| <div>Interface</div> MIL-STD-348B<br>Mechanically compatible with 2.92 & 3.5                                                                                                                                                                                                                                                                                                                                                                             |               |
| <div>Electrical Data</div> Impedance 50Ω<br>Frequency range DC to 9GHz<br>VSWR $\leq 1.2$ (DC to 9GHz)<br>Insertion loss $\leq 0.04 \times \sqrt{f(\text{GHz})}$ dB<br>Insulation resistance $\geq 5000\text{M}\Omega$<br>Contact resistance inner conductor $\leq 3\text{m}\Omega$<br>Contact resistance outer conductor $\leq 2\text{m}\Omega$<br>Dielectric withstanding voltage (at sea level) 750 V rms<br>Working voltage (at sea level) 250 V rms |               |
| <div>Mechanical Data</div> Recommended coupling nut torque 4 inch lbs<br>Coupling proof torque 5.3 inch lbs<br>Contact Captivation-axial $\geq 6.1$ lbs<br>Durability (mating) $\geq 100$                                                                                                                                                                                                                                                                |               |
| <div>Environmental Data</div> Temperature range -65°C to +165°C<br>Thermal shock MIL-STD-202, Method 107, Condition B<br>Moisture resistance MIL-STD-202, Method 106<br>Corrosion MIL-STD-202, Method 101, Condition B<br>RoHS Compliant                                                                                                                                                                                                                 |               |
| <div>Tooling</div> Crimping tool CRT-1 or CRT-2<br>Crimp insert INSERT-A<br>Soldering gauge ST-0.3                                                                                                                                                                                                                                                                                                                                                       |               |

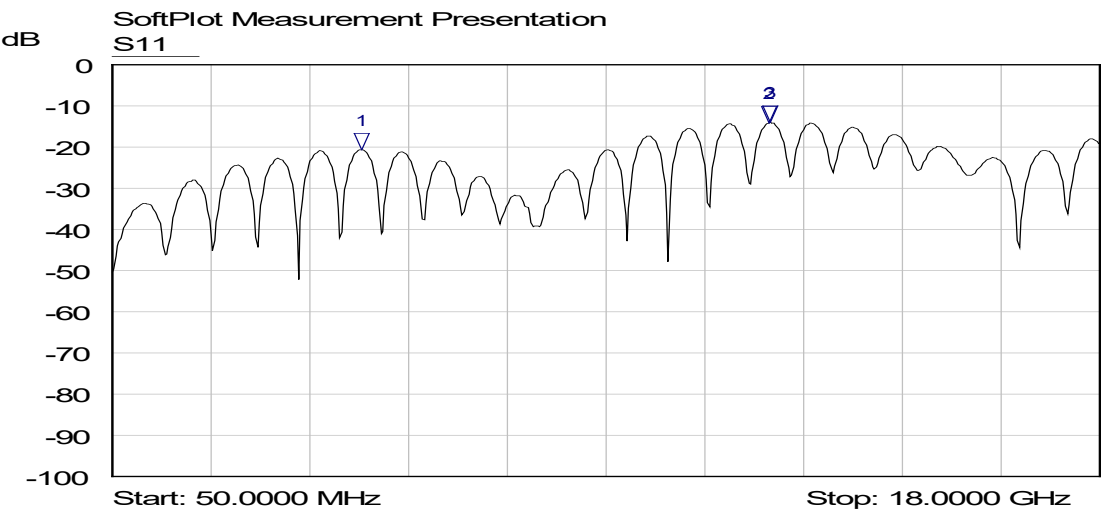
Notice: JYEBAO reserves the right to make modifications deemed appropriate.

# JYE BAO CO., LTD.

## CABLE ASSEMBLY INSTRUCTION

|                                                                                                                     |  |                                                                                                                                                                                                                                  |                                                                                     |         |   |
|---------------------------------------------------------------------------------------------------------------------|--|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|---------|---|
| SMA8105A-0316                                                                                                       |  | DATE                                                                                                                                                                                                                             | 2017/11/01                                                                          | REV     | — |
| A                                                                                                                   |  | B                                                                                                                                                                                                                                | C                                                                                   |         |   |
|                                    |  |                                                                                                                                                 |  |         |   |
| BODY + GASKET<br>+ HEX NUT<br>+ LOCK WASHER                                                                         |  | CONTACT PIN                                                                                                                                                                                                                      | FERRULE                                                                             |         |   |
| DIAGRAM                                                                                                             |  | ASSEMBLY INSTRUCTION                                                                                                                                                                                                             |                                                                                     |         |   |
|                                   |  | Step 1: STRIP AS SHOWN.                                                                                                                                                                                                          |                                                                                     |         |   |
|                                  |  | Step 2: SLIDE FERRULE " C " OVER CABLE.<br>Step 3: PUT 0.3 MM GAGE IN PLACE, INSERT CABLE'S CENTER CONDUCTOR INTO CENTER PIN " B " AND SOLDER OR CRIMP IN " Y ".<br>(USE SQUARE 0.98mm/0.039inch SECTION OF INSERT-A 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 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  |   |

SMA8105A-0316



| Mkr | Trace | X-Axis      | Value     | Notes |
|-----|-------|-------------|-----------|-------|
| 1 ▽ | S11   | 4.5766 GHz  | -20.64 dB |       |
| 2 ▽ | S11   | 11.9811 GHz | -14.12 dB |       |
| 3 ▽ | S11   | 12.0111 GHz | -14.02 dB |       |