

| SMA9105-L200                                                                                                                                                                                                                                                                                         |          | SMA reverse polarity jack crimp bulkhead;<br>IP67 mated; for JBY200,LMR200; 6GHz VSWR1.25 | 50Ω |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|-------------------------------------------------------------------------------------------|-----|
| <p>The technical drawing shows the SMA9105-L200 connector. The side view includes dimensions for the IP67 mated section (11 [4.33]), the gasket (2 [0.079]), and the total length (20.9 [8.23]). The front view shows the mounting hole with a diameter of 6.8 [2.68] and a depth of 7.2 [2.83].</p> |          |                                                                                           |     |
| Parts                                                                                                                                                                                                                                                                                                | Material | Plating ( Micro-inch )                                                                    |     |
| Body                                                                                                                                                                                                                                                                                                 | Brass    | Gold 4 Over Nickel-Phosphorus Alloy 80 Over Copper 20                                     |     |
| Insulator                                                                                                                                                                                                                                                                                            | Teflon   |                                                                                           |     |
| Contact Pin                                                                                                                                                                                                                                                                                          | Brass    | Gold 4 Over Nickel-Phosphorus Alloy 80 Over Copper 20                                     |     |
| Gasket                                                                                                                                                                                                                                                                                               | Silicone |                                                                                           |     |
| Lock Washer                                                                                                                                                                                                                                                                                          | Brass    | Gold 4 Over Nickel-Phosphorus Alloy 80 Over Copper 20                                     |     |
| Hex Nut                                                                                                                                                                                                                                                                                              | Brass    | Gold 4 Over Nickel-Phosphorus Alloy 80 Over Copper 20                                     |     |
| Ferrule                                                                                                                                                                                                                                                                                              | Copper   | Gold 4 Over Nickel-Phosphorus Alloy 80 Over Copper 20                                     |     |
| Suitable Cables: JBY200,LMR200                                                                                                                                                                                                                                                                       |          |                                                                                           |     |

This part number complies with RoHS.

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

| SMA                                                                                | SMA9105-L200                         |
|------------------------------------------------------------------------------------|--------------------------------------|
| <b>Interface</b><br>Per JYEBAO SMA Reverse Polarity Jack derived from MIL-STD-348B |                                      |
| <b>Electrical Data</b>                                                             |                                      |
| Impedance                                                                          | 50Ω                                  |
| Frequency range                                                                    | DC to 6GHz                           |
| VSWR                                                                               | ≤ 1.25 (DC to 6GHz)                  |
| Insertion loss                                                                     | ≤ 0.04 x √f(GHz) dB                  |
| Insulation resistance                                                              | ≥ 5000MΩ                             |
| Contact resistance inner conductor                                                 | ≤ 3mΩ                                |
| Contact resistance outer conductor                                                 | ≤ 2mΩ                                |
| Dielectric withstanding voltage (at sea level)                                     | 1000 V rms                           |
| Working voltage (at sea level)                                                     | 335 V rms                            |
| <b>Mechanical Data</b>                                                             |                                      |
| Recommended coupling nut torque                                                    | 4 inch lbs                           |
| Coupling proof torque                                                              | 5.3 inch lbs                         |
| Contact Captivation-axial                                                          | ≥ 6.1 lbs                            |
| Durability (mating)                                                                | ≥ 100                                |
| <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-B                             |

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# JYE BAO CO., LTD.

## CABLE ASSEMBLY INSTRUCTION

SMA9105-L200

DATE

2022/09/30

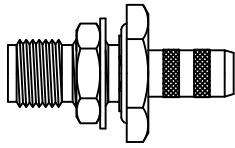
REV

—

A

B

C



BODY

CONTACT PIN

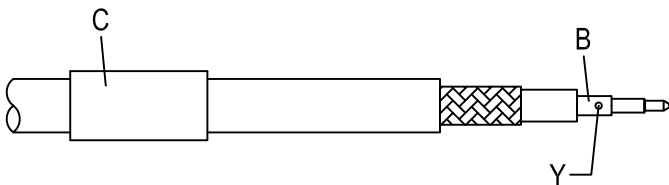
FERRULE

DIAGRAM

ASSEMBLY INSTRUCTION

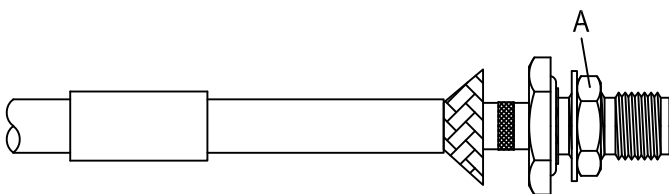


Step 1: STRIP AS SHOWN.

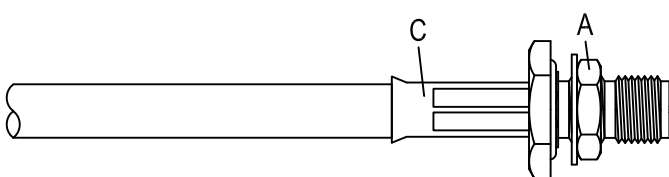


Step 2: SLIDE FERRULE "C" OVER CABLE.

Step 3: PUT PIN "B" ON CENTER CONDUCTOR AND SOLDER IN "Y".



Step 4: LOOSEN BRAIDING AND SLIDE CONNECTOR "A" IN PLACE.



Step 5: SLIDE FERRULE "C" TOWARDS THE CONNECTOR "A" AND CRIMP.  
(USE 5.5mm/0.217inch HEX SECTION OF INSERT-B)

This part number complies with RoHS.

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APPROVED

CHECKED

DRAWING

*Albert*

# SMA9105-L200

