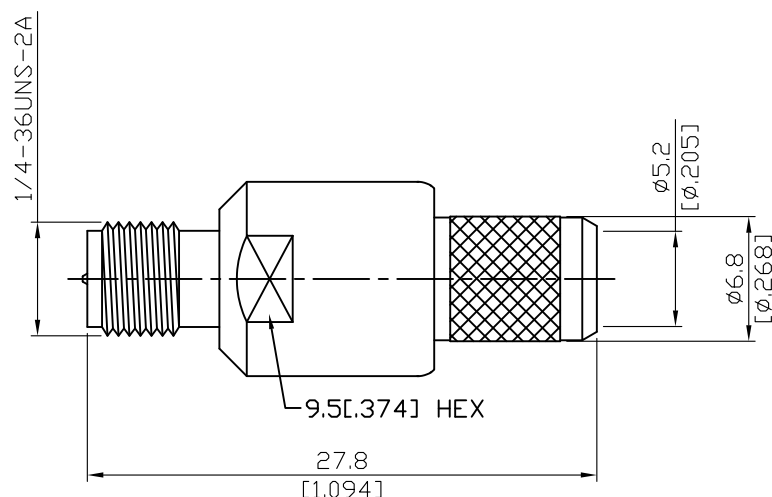


SMA9100-05DF

SMA Reverse Polarity Jack Crimp  
For 5DFB and Aircell7; 6GHz VSWR 1.2

50Ω



| Parts       | Material | Plating ( Micro-inch )                                |
|-------------|----------|-------------------------------------------------------|
| Body        | Brass    | Tin-Zinc-Copper-Alloy 100 Over Copper 50              |
| Insulator   | Teflon   |                                                       |
| Contact Pin | Brass    | Gold 4 Over Nickel-Phosphorus Alloy 80 Over Copper 20 |
| Barrel      | Brass    | Tin-Zinc-Copper-Alloy 100 Over Copper 50              |
| Ferrule     | Copper   | Tin-Zinc-Copper-Alloy 100 Over Copper 50              |

Suitable Cables: 5DFB and Aircell7

This part number complies with RoHS.

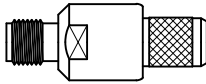
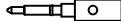
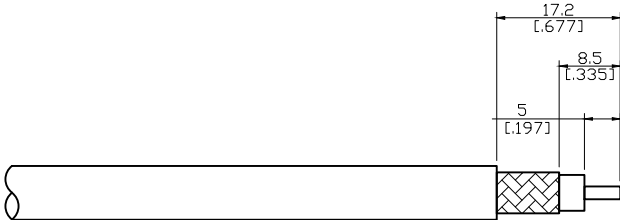
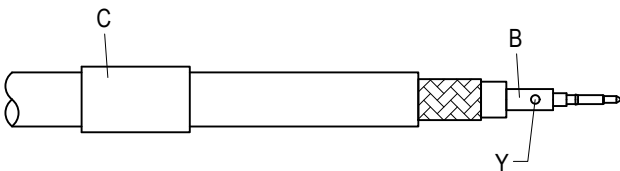
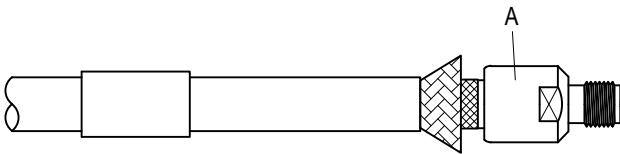
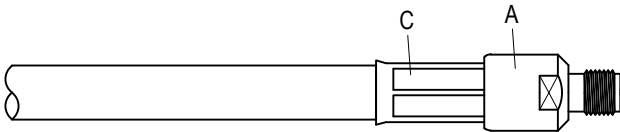
Notice: JYEBAO reserves the right to make modifications deemed appropriate.

| SMA                                                                                | SMA9100-05DF                               |
|------------------------------------------------------------------------------------|--------------------------------------------|
| <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                                                                               | $\leq 1.2$ (DC to 6GHz)                    |
| Insertion loss                                                                     | $\leq 0.04 \times \sqrt{f(\text{GHz})}$ dB |
| Insulation resistance                                                              | $\geq 5000\text{M}\Omega$                  |
| Contact resistance inner conductor                                                 | $\leq 3\text{m}\Omega$                     |
| Contact resistance outer conductor                                                 | $\leq 2\text{m}\Omega$                     |
| Dielectric withstanding voltage (at sea level)                                     | 1500 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                                                          | $\geq 6.1$ lbs                             |
| Durability (mating)                                                                | $\geq 100$                                 |
| <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-C, INSERT-D                         |

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

# JYE BAO CO., LTD.

## CABLE ASSEMBLY INSTRUCTION

|                                                                                                                     |  |                                                                                   |                                                                                                                                                                             |                                                                                     |   |
|---------------------------------------------------------------------------------------------------------------------|--|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|---|
| SMA9100-05DF                                                                                                        |  | DATE                                                                              | 2021/11/20                                                                                                                                                                  | REV                                                                                 | — |
| A                                                                                                                   |  | B                                                                                 |                                                                                                                                                                             | C                                                                                   |   |
|                                    |  |  |                                                                                                                                                                             |  |   |
| BODY                                                                                                                |  | CONTACT 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 SOLDER OR CRIMP IN "Y".<br>(USE SQUARE 2.4mm/0.094inch SECTION OF INSERT-C 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 7.9mm/0.311inch HEX SECTION OF INSERT-D)                                                             |                                                                                     |   |
| This part number complies with RoHS.<br>Notice: JYEBAO reserves the right to make modifications deemed appropriate. |  |                                                                                   |                                                                                                                                                                             |                                                                                     |   |
| APPROVED                                                                                                            |  | CHECKED                                                                           |                                                                                                                                                                             | DRAWING                                                                             |   |
|                                                                                                                     |  |                                                                                   |                                                                                                                                                                             | Albert                                                                              |   |

# SMA9100-05DF

