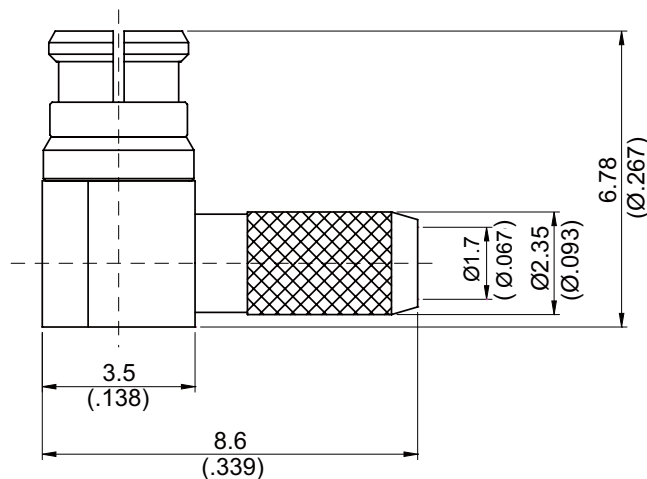


SMP8100-9L100

SMP jack crimp for JBY100, LMR100  
6GHz VSWR 1.2

50Ω



| Parts         | Material         | Plating (Micro-inch)                                  |
|---------------|------------------|-------------------------------------------------------|
| Ferrule       | Brass            | Gold 4 Over Nickel-Phosphorus Alloy 80 Over Copper 20 |
| Cover         | Brass            | Gold 4 Over Nickel-Phosphorus Alloy 80 Over Copper 20 |
| Body          | Brass            | Gold 4 Over Nickel-Phosphorus Alloy 80 Over Copper 20 |
| Retainer Ring | Beryllium Copper | Gold 4 Over Nickel-Phosphorus Alloy 80 Over Copper 20 |
| Contact Pin   | Beryllium Copper | Gold 4 Over Nickel-Phosphorus Alloy 80 Over Copper 20 |
| Insulator     | Teflon           |                                                       |
| Body          | Beryllium Copper | Gold 4 Over Nickel-Phosphorus Alloy 80 Over Copper 20 |

Suitable Cables: JBY100, LMR100

This part number complies with RoHS.

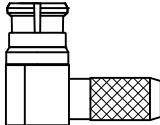
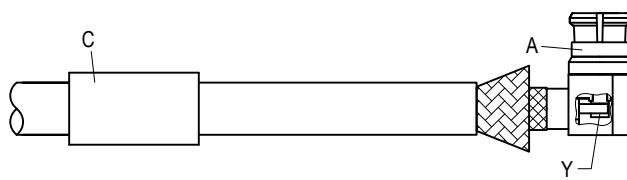
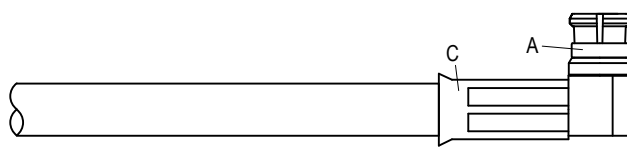
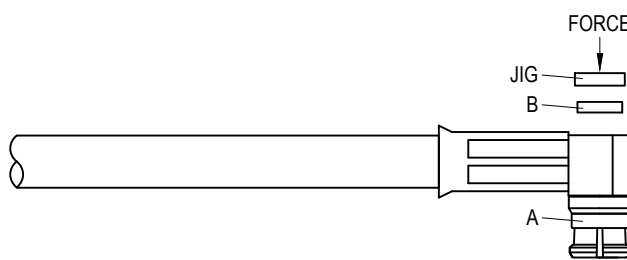
Notice: JYEBAO reserves the right to make modifications deemed appropriate.

| SMP                                            |                                      | SMP8100-9L100 |                |                            |     |
|------------------------------------------------|--------------------------------------|---------------|----------------|----------------------------|-----|
| Interface                                      |                                      |               |                |                            |     |
| MIL-STD-348B                                   |                                      |               |                |                            |     |
| Electrical Data                                |                                      |               |                |                            |     |
| Impedance                                      | 50Ω                                  |               |                |                            |     |
| Frequency range                                | DC to 6GHz                           |               |                |                            |     |
| VSWR                                           | ≤ 1.2 (DC to 6GHz)                   |               |                |                            |     |
| Insertion loss                                 | ≤ .06 x √f(GHz) dB                   |               |                |                            |     |
| Insulation resistance                          | ≥ 5000 MΩ                            |               |                |                            |     |
| Contact resistance inner conductor             | ≤ 6mΩ                                |               |                |                            |     |
| Contact resistance outer conductor             | ≤ 2mΩ                                |               |                |                            |     |
| Dielectric withstanding voltage (at sea level) | 500                                  |               |                |                            |     |
| Working Voltage (at sea level)                 | 335                                  |               |                |                            |     |
| RF-Leakage                                     | ≥ 80dB (3GHz); ≥ 65dB (3~26.5GHz)    |               |                |                            |     |
| Mechanical Data                                |                                      | Full Detent   | Limited Detent | Smooth bore & catchers mit |     |
| Engagement force                               | ≤ 15                                 | ≤ 10          | ≤ 2            |                            | lbs |
| Disengagement force                            | ≥ 5                                  | ≥ 2           | ≥ 0.5          |                            | lbs |
| Durability (mating)                            | ≥ 100                                | ≥ 500         | ≥ 1000         |                            |     |
| Axial misalignment                             | + 0.00 / -0.25 (+.000 / -.010)       |               |                |                            |     |
| Radial misalignment                            | ±0.25 (0.010)                        |               |                |                            |     |
| Environmental Data                             |                                      |               |                |                            |     |
| 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                            |               |                |                            |     |
| Tooling                                        |                                      |               |                |                            |     |
| 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

|                                                                                                                     |  |                                                                                   |                                                                                                                                                                      |                                                                                     |   |
|---------------------------------------------------------------------------------------------------------------------|--|-----------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|---|
| SMP8100-9L100                                                                                                       |  | DATE                                                                              | 2017/04/18                                                                                                                                                           | REV                                                                                 | — |
| A                                                                                                                   |  | B                                                                                 |                                                                                                                                                                      | C                                                                                   |   |
|                                    |  |  |                                                                                                                                                                      |  |   |
| BODY                                                                                                                |  | COVER                                                                             |                                                                                                                                                                      | FERRULE                                                                             |   |
| DIAGRAM                                                                                                             |  |                                                                                   | ASSEMBLY INSTRUCTION                                                                                                                                                 |                                                                                     |   |
|                                   |  |                                                                                   | Step 1: STRIP AS SHOWN.                                                                                                                                              |                                                                                     |   |
|                                  |  |                                                                                   | Step 2: SLIDE FERRULE "C" OVER CABLE.<br>Step 3: WRAP THE BRAIDING UPWARDS.<br>Step 4: SLIDE CENTER CONDUCTOR ON THE CONTACT PIN OF CONNECTOR "A" AND SOLDER IN "Y". |                                                                                     |   |
|                                  |  |                                                                                   | Step 5: SLIDE FERRULE "C" TOWARDS THE CONNECTOR "A" AND CRIMP.<br>(USE 3.3mm/0.130inch HEX SECTION OF INSERT-A)                                                      |                                                                                     |   |
|                                  |  |                                                                                   | Step 6: PRESS ON THE TOP OF "B" WITH JIGS.                                                                                                                           |                                                                                     |   |
| This part number complies with RoHS.<br>Notice: JYEBAO reserves the right to make modifications deemed appropriate. |  |                                                                                   |                                                                                                                                                                      |                                                                                     |   |
| APPROVED                                                                                                            |  | CHECKED                                                                           |                                                                                                                                                                      | DRAWING                                                                             |   |
|                                                                                                                     |  |                                                                                   |                                                                                                                                                                      | Albert                                                                              |   |

# SMP8100-9L100

S11

