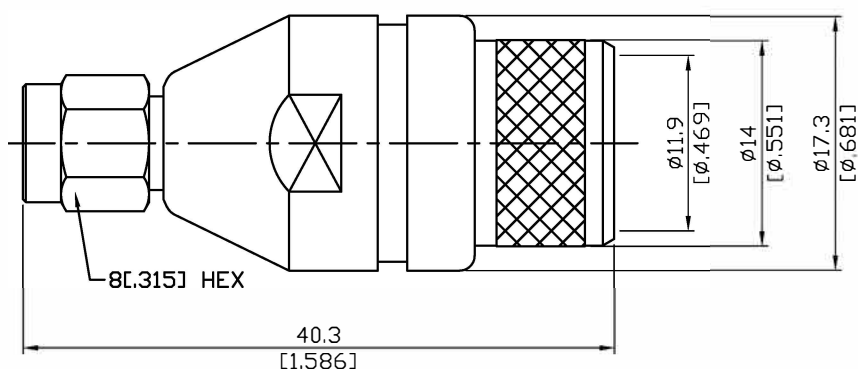


SMA6100-L600

SMA Reverse Polarity Plug Crimp  
For JBY600, LMR600; 6GHz VSWR 1.2

50Ω



| Parts         | Material         | Plating ( Micro-inch )                                |
|---------------|------------------|-------------------------------------------------------|
| Coupling Nut  | Brass            | Tin-Zinc-Copper-Alloy 100 Over Copper 50              |
| Body          | Brass            | Tin-Zinc-Copper-Alloy 100 Over Copper 50              |
| Insulator     | Teflon           |                                                       |
| Contact Pin   | Beryllium Copper | Gold 4 Over Nickel-Phosphorus Alloy 80 Over Copper 20 |
| Gasket        | Silicone         |                                                       |
| Retainer Ring | Beryllium Copper | Tin-Zinc-Copper-Alloy 100 Over Copper 50              |
| Ferrule       | Copper           | Tin-Zinc-Copper-Alloy 100 Over Copper 50              |

Suitable Cables: JBY600, LMR600

This part number complies with RoHS.

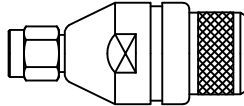
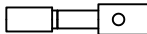
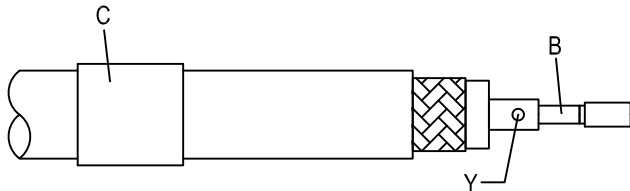
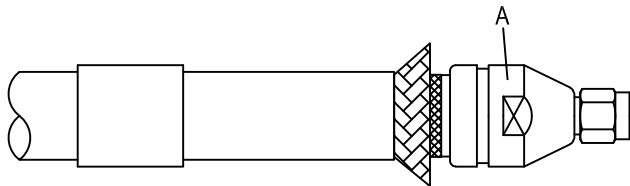
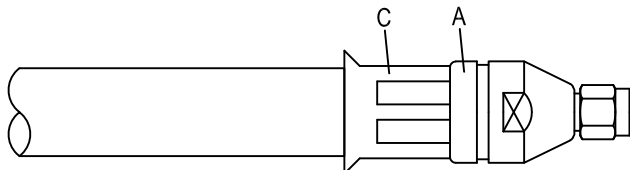
Notice: JYEBAO reserves the right to make modifications deemed appropriate.

| SMA                                                                                | SMA6100-L600                               |
|------------------------------------------------------------------------------------|--------------------------------------------|
| <b>Interface</b><br>Per JYEBAO SMA Reverse Polarity Plug 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)                                     | 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                               |
| Coupling nut retention force                                                       | $\geq 60.7$ 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-3                                      |
| Crimp insert                                                                       | INSERT-FA, INSERT-D                        |

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

# JYE BAO CO., LTD.

## CABLE ASSEMBLY INSTRUCTION

|                                                                                                                     |  |                                                                                   |                                                                                                                                                                               |                                                                                     |   |
|---------------------------------------------------------------------------------------------------------------------|--|-----------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|---|
| SMA6100-L600                                                                                                        |  | DATE                                                                              | 2022/04/28                                                                                                                                                                    | REV                                                                                 | — |
| A                                                                                                                   |  | B                                                                                 |                                                                                                                                                                               | C                                                                                   |   |
|                                    |  |  |                                                                                                                                                                               |  |   |
| BODY                                                                                                                |  | INSULATOR +<br>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 4.5mm/.177inch HEX SECTION OF INSERT-D 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 15.5mm/0.610inch HEX SECTION OF INSERT-FA)                                                         |                                                                                     |   |
| This part number complies with RoHS.<br>Notice: JYEBAO reserves the right to make modifications deemed appropriate. |  |                                                                                   |                                                                                                                                                                               |                                                                                     |   |
| APPROVED                                                                                                            |  | CHECKED                                                                           |                                                                                                                                                                               | DRAWING                                                                             |   |
|                                                                                                                     |  |                                                                                   |                                                                                                                                                                               | Albert                                                                              |   |

# SMA6100-L600

