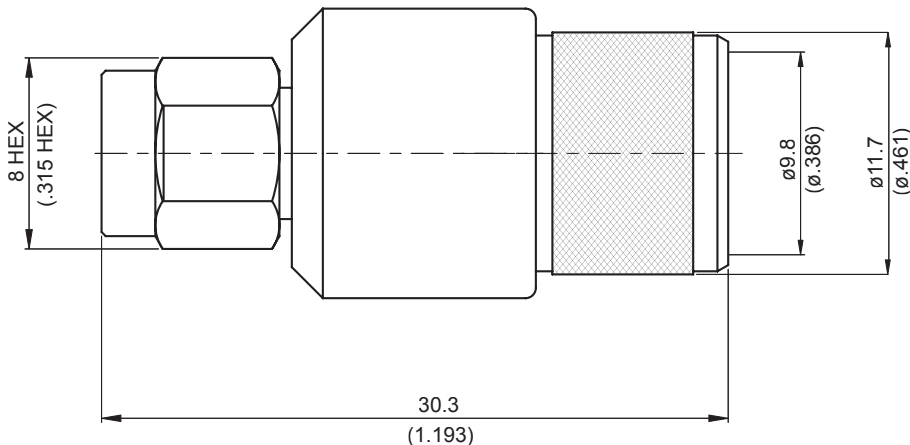


| SMA3100-L500                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | SMA Plug Crimp For JBY500,LMR500;<br>6GHz VSWR 1.2 | 50Ω                                                   |       |          |                     |         |       |                                          |             |       |                                                       |               |                  |                                          |        |         |  |        |       |                                          |           |        |  |      |       |                                          |              |       |                                          |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------|-------------------------------------------------------|-------|----------|---------------------|---------|-------|------------------------------------------|-------------|-------|-------------------------------------------------------|---------------|------------------|------------------------------------------|--------|---------|--|--------|-------|------------------------------------------|-----------|--------|--|------|-------|------------------------------------------|--------------|-------|------------------------------------------|
| <div></div>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                    |                                                       |       |          |                     |         |       |                                          |             |       |                                                       |               |                  |                                          |        |         |  |        |       |                                          |           |        |  |      |       |                                          |              |       |                                          |
| <table><tr><th>Parts</th><th>Material</th><th>Plating(Micro-inch)</th></tr><tr><td>Ferrule</td><td>Brass</td><td>Tin-Zinc-Copper-Alloy 100 Over Copper 50</td></tr><tr><td>Contact Pin</td><td>Brass</td><td>Gold 4 Over Nickel-Phosphorus Alloy 80 Over Copper 20</td></tr><tr><td>Renbrock Ring</td><td>Beryllium Copper</td><td>Tin-Zinc-Copper-Alloy 100 Over Copper 50</td></tr><tr><td>Gasket</td><td>Silicon</td><td></td></tr><tr><td>Barrel</td><td>Brass</td><td>Tin-Zinc-Copper-Alloy 100 Over Copper 50</td></tr><tr><td>Insulator</td><td>Teflon</td><td></td></tr><tr><td>Body</td><td>Brass</td><td>Tin-Zinc-Copper-Alloy 100 Over Copper 50</td></tr><tr><td>Coupling Nut</td><td>Brass</td><td>Tin-Zinc-Copper-Alloy 100 Over Copper 50</td></tr></table> |                                                    |                                                       | Parts | Material | Plating(Micro-inch) | Ferrule | Brass | Tin-Zinc-Copper-Alloy 100 Over Copper 50 | Contact Pin | Brass | Gold 4 Over Nickel-Phosphorus Alloy 80 Over Copper 20 | Renbrock Ring | Beryllium Copper | Tin-Zinc-Copper-Alloy 100 Over Copper 50 | Gasket | Silicon |  | Barrel | Brass | Tin-Zinc-Copper-Alloy 100 Over Copper 50 | Insulator | Teflon |  | Body | Brass | Tin-Zinc-Copper-Alloy 100 Over Copper 50 | Coupling Nut | Brass | Tin-Zinc-Copper-Alloy 100 Over Copper 50 |
| Parts                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | Material                                           | Plating(Micro-inch)                                   |       |          |                     |         |       |                                          |             |       |                                                       |               |                  |                                          |        |         |  |        |       |                                          |           |        |  |      |       |                                          |              |       |                                          |
| Ferrule                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | Brass                                              | Tin-Zinc-Copper-Alloy 100 Over Copper 50              |       |          |                     |         |       |                                          |             |       |                                                       |               |                  |                                          |        |         |  |        |       |                                          |           |        |  |      |       |                                          |              |       |                                          |
| Contact Pin                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Brass                                              | Gold 4 Over Nickel-Phosphorus Alloy 80 Over Copper 20 |       |          |                     |         |       |                                          |             |       |                                                       |               |                  |                                          |        |         |  |        |       |                                          |           |        |  |      |       |                                          |              |       |                                          |
| Renbrock Ring                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | Beryllium Copper                                   | Tin-Zinc-Copper-Alloy 100 Over Copper 50              |       |          |                     |         |       |                                          |             |       |                                                       |               |                  |                                          |        |         |  |        |       |                                          |           |        |  |      |       |                                          |              |       |                                          |
| Gasket                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | Silicon                                            |                                                       |       |          |                     |         |       |                                          |             |       |                                                       |               |                  |                                          |        |         |  |        |       |                                          |           |        |  |      |       |                                          |              |       |                                          |
| Barrel                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | Brass                                              | Tin-Zinc-Copper-Alloy 100 Over Copper 50              |       |          |                     |         |       |                                          |             |       |                                                       |               |                  |                                          |        |         |  |        |       |                                          |           |        |  |      |       |                                          |              |       |                                          |
| Insulator                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Teflon                                             |                                                       |       |          |                     |         |       |                                          |             |       |                                                       |               |                  |                                          |        |         |  |        |       |                                          |           |        |  |      |       |                                          |              |       |                                          |
| Body                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | Brass                                              | Tin-Zinc-Copper-Alloy 100 Over Copper 50              |       |          |                     |         |       |                                          |             |       |                                                       |               |                  |                                          |        |         |  |        |       |                                          |           |        |  |      |       |                                          |              |       |                                          |
| Coupling Nut                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | Brass                                              | Tin-Zinc-Copper-Alloy 100 Over Copper 50              |       |          |                     |         |       |                                          |             |       |                                                       |               |                  |                                          |        |         |  |        |       |                                          |           |        |  |      |       |                                          |              |       |                                          |
| Weight: 16.26 g<br>Suitable Cables: LMR500, JBY500                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                    |                                                       |       |          |                     |         |       |                                          |             |       |                                                       |               |                  |                                          |        |         |  |        |       |                                          |           |        |  |      |       |                                          |              |       |                                          |

This part number complies with RoHS.

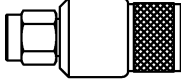
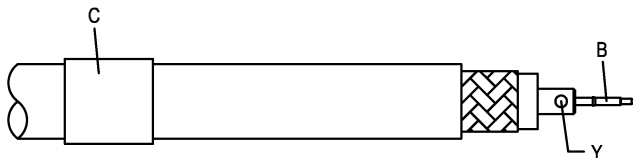
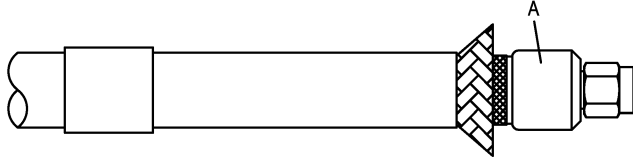
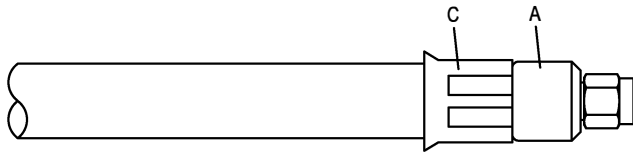
Notice: JYEBAO reserves the right to make modifications deemed appropriate.

| SMA                                                                                                                                                                                                                                                                                                                                                                                                                                                       | SMA3100-L500 |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------|
| <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 6GHz<br>VSWR $\leq 1.2$ (DC to 6GHz)<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) 1000 V rms<br>Working voltage (at sea level) 335 V rms |              |
| <div>Mechanical Data</div> Recommended coupling nut torque 4 inch lbs<br>Coupling proof torque 5.3 inch lbs<br>Coupling nut retention force $\geq 60.7$ 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-3<br>Crimp insert INSERT-FB                                                                                                                                                                                                                                                                                                                                                                                          |              |

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

# JYE BAO CO., LTD.

## CABLE ASSEMBLY INSTRUCTION

|                                                                                                                     |  |                                                                                   |                                                                                                                       |                                                                                     |   |
|---------------------------------------------------------------------------------------------------------------------|--|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|---|
| SMA3100-L500                                                                                                        |  | DATE                                                                              | 2015/10/01                                                                                                            | 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 IN " Y ".             |                                                                                     |   |
|                                  |  |                                                                                   | Step 4: LOOSEN BRAIDING AND SLIDE CONNECTOR " A " IN PLACE.                                                           |                                                                                     |   |
|                                  |  |                                                                                   | Step 5: SLIDE FERRULE " C " TOWARDS THE CONNECTOR " A " AND CRIMP.<br>(USE 13.5mm/0.531inch HEX SECTION OF INSERT-FB) |                                                                                     |   |
| This part number complies with RoHS.<br>Notice: JYEBAO reserves the right to make modifications deemed appropriate. |  |                                                                                   |                                                                                                                       |                                                                                     |   |
| APPROVED                                                                                                            |  | CHECKED                                                                           |                                                                                                                       | DRAWING                                                                             |   |
|                                                                                                                     |  |                                                                                   |                                                                                                                       | Albert                                                                              |   |

# SMA3100-L500

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