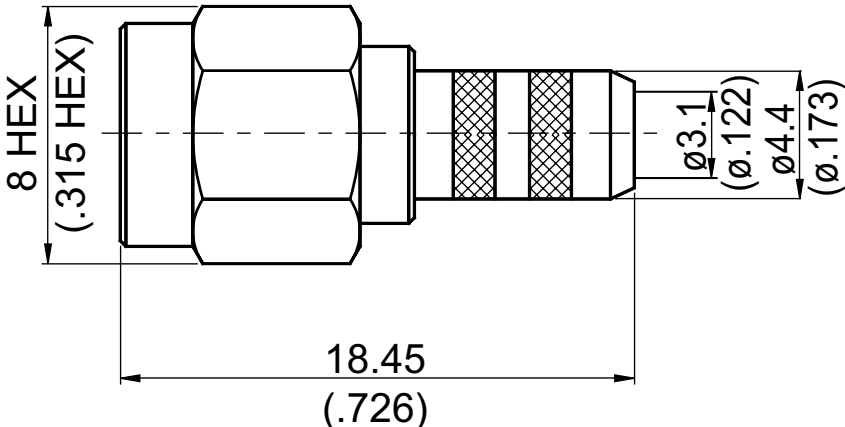


| SMA3100-L200                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | SMA Plug Crimp For JBY200,LMR200<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>Gold 4 Over Nickel-Phosphorus Alloy 80 Over Copper 20</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>Insulator</td><td>Teflon</td><td></td></tr><tr><td>Body</td><td>Brass</td><td>Gold 4 Over Nickel-Phosphorus Alloy 80 Over Copper 20</td></tr><tr><td>Coupling Nut</td><td>Brass</td><td>Gold 4 Over Nickel-Phosphorus Alloy 80 Over Copper 20</td></tr></table> |                                                   |                                                       | Parts | Material | Plating(Micro-inch) | Ferrule | Brass | Gold 4 Over Nickel-Phosphorus Alloy 80 Over Copper 20 | 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 |  | Insulator | Teflon |  | Body | Brass | Gold 4 Over Nickel-Phosphorus Alloy 80 Over Copper 20 | Coupling Nut | Brass | Gold 4 Over Nickel-Phosphorus Alloy 80 Over Copper 20 |
| Parts                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | Material                                          | Plating(Micro-inch)                                   |       |          |                     |         |       |                                                       |             |       |                                                       |               |                  |                                          |        |         |  |           |        |  |      |       |                                                       |              |       |                                                       |
| Ferrule                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | Brass                                             | Gold 4 Over Nickel-Phosphorus Alloy 80 Over Copper 20 |       |          |                     |         |       |                                                       |             |       |                                                       |               |                  |                                          |        |         |  |           |        |  |      |       |                                                       |              |       |                                                       |
| 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                                           |                                                       |       |          |                     |         |       |                                                       |             |       |                                                       |               |                  |                                          |        |         |  |           |        |  |      |       |                                                       |              |       |                                                       |
| Insulator                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Teflon                                            |                                                       |       |          |                     |         |       |                                                       |             |       |                                                       |               |                  |                                          |        |         |  |           |        |  |      |       |                                                       |              |       |                                                       |
| Body                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | Brass                                             | Gold 4 Over Nickel-Phosphorus Alloy 80 Over Copper 20 |       |          |                     |         |       |                                                       |             |       |                                                       |               |                  |                                          |        |         |  |           |        |  |      |       |                                                       |              |       |                                                       |
| Coupling Nut                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | Brass                                             | Gold 4 Over Nickel-Phosphorus Alloy 80 Over Copper 20 |       |          |                     |         |       |                                                       |             |       |                                                       |               |                  |                                          |        |         |  |           |        |  |      |       |                                                       |              |       |                                                       |
| <div>Weight: 4.12 g</div> <div>Suitable Cables: JBY200,LMR200</div>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                   |                                                       |       |          |                     |         |       |                                                       |             |       |                                                       |               |                  |                                          |        |         |  |           |        |  |      |       |                                                       |              |       |                                                       |

This part number complies with RoHS.

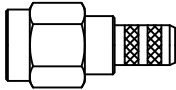
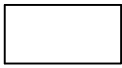
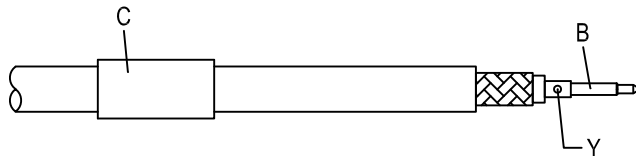
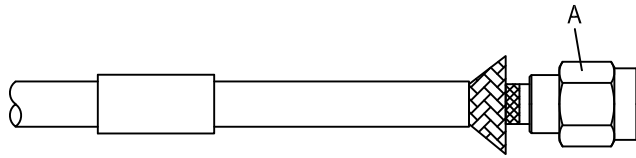
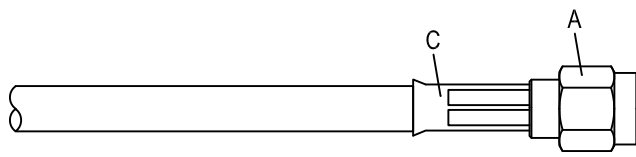
Notice: JYEBAO reserves the right to make modifications deemed appropriate.

| SMA                                                                                                                                                                                                                                                                                                                                                                                                                                                      | SMA3100-L200 |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------|
| <b>Interface</b><br>MIL-STD-348B<br>Mechanically compatible with 2.92 & 3.5                                                                                                                                                                                                                                                                                                                                                                              |              |
| <b>Electrical Data</b><br>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 |              |
| <b>Mechanical Data</b><br>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) $\geq 100$                                                                                                                                                                                                                 |              |
| <b>Environmental Data</b><br>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                                                                                                                                                                                                                  |              |
| <b>Tooling</b><br>Crimping tool CRT-1 or CRT-2<br>Crimp insert INSERT-B                                                                                                                                                                                                                                                                                                                                                                                  |              |

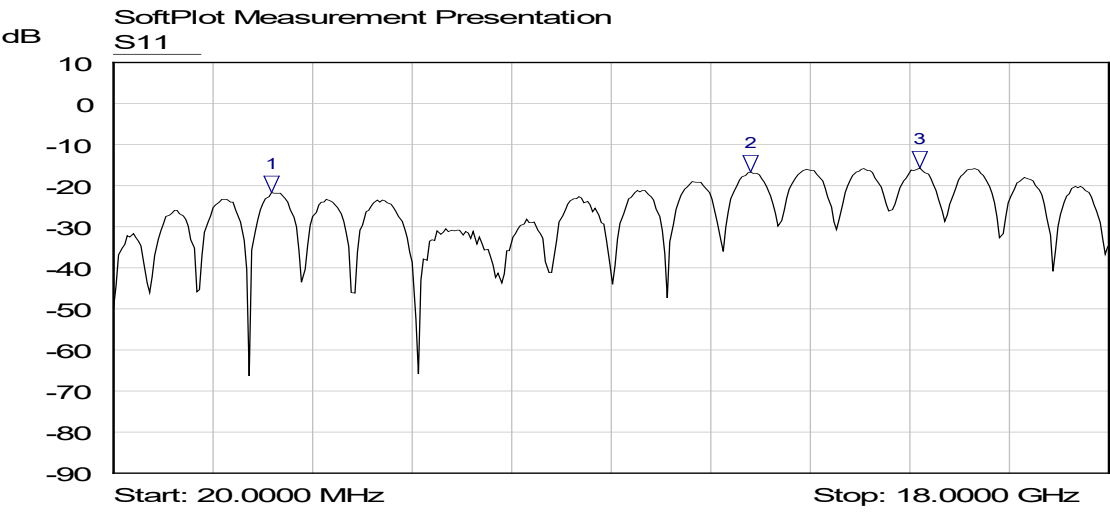
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# JYE BAO CO., LTD.

## CABLE ASSEMBLY RECOMMENDATION

|                                                                                                                     |  |                                                                                   |                                                                                                                     |                                                                                     |   |
|---------------------------------------------------------------------------------------------------------------------|--|-----------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|---|
| SMA3100-L200                                                                                                        |  | DATE                                                                              | 2014/04/29                                                                                                          | 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 5.5mm/0.217inch HEX SECTION OF INSERT-B) |                                                                                     |   |
| This part number complies with RoHS.<br>Notice: JYEBAO reserves the right to make modifications deemed appropriate. |  |                                                                                   |                                                                                                                     |                                                                                     |   |
| APPROVED                                                                                                            |  | CHECKED                                                                           |                                                                                                                     | DRAWING                                                                             |   |
|                                                                                                                     |  |                                                                                   |                                                                                                                     | Albert                                                                              |   |

SMA3100-L200



| Mkr | Trace | X-Axis      | Value     | Notes |
|-----|-------|-------------|-----------|-------|
| 1 ▽ | S11   | 2.8721 GHz  | -21.68 dB |       |
| 2 ▽ | S11   | 11.5286 GHz | -16.69 dB |       |
| 3 ▽ | S11   | 14.5809 GHz | -15.66 dB |       |