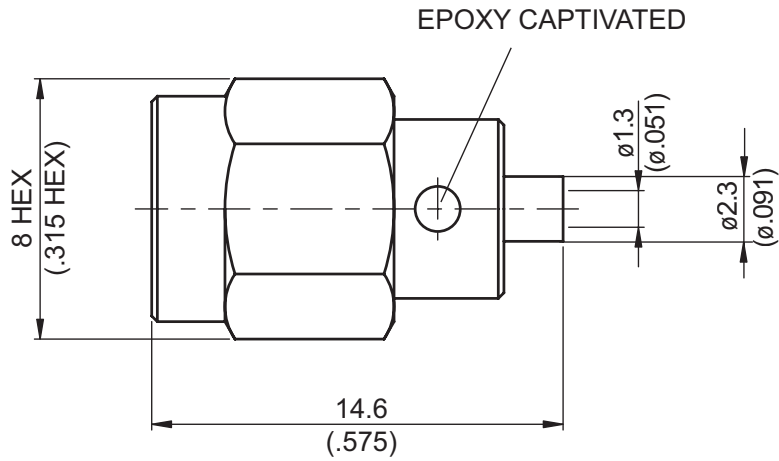


| SMA3300-0047                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | SMA Plug Solder For .047 semi-rigid<br>11GHz VSWR 1.2 |                                                       | 50Ω |       |          |                      |             |       |                                                       |             |                  |                                          |        |         |  |           |        |  |      |       |                                                       |              |       |                                                       |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------|-------------------------------------------------------|-----|-------|----------|----------------------|-------------|-------|-------------------------------------------------------|-------------|------------------|------------------------------------------|--------|---------|--|-----------|--------|--|------|-------|-------------------------------------------------------|--------------|-------|-------------------------------------------------------|
| <div></div>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                       |                                                       |     |       |          |                      |             |       |                                                       |             |                  |                                          |        |         |  |           |        |  |      |       |                                                       |              |       |                                                       |
| <table><tr><th>Parts</th><th>Material</th><th>Plating (Micro-inch)</th></tr><tr><td>Contact Pin</td><td>Brass</td><td>Gold 4 Over Nickel-Phosphorus Alloy 80 Over Copper 20</td></tr><tr><td>Renber 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) | Contact Pin | Brass | Gold 4 Over Nickel-Phosphorus Alloy 80 Over Copper 20 | Renber 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)                                  |     |       |          |                      |             |       |                                                       |             |                  |                                          |        |         |  |           |        |  |      |       |                                                       |              |       |                                                       |
| Contact Pin                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | Brass                                                 | Gold 4 Over Nickel-Phosphorus Alloy 80 Over Copper 20 |     |       |          |                      |             |       |                                                       |             |                  |                                          |        |         |  |           |        |  |      |       |                                                       |              |       |                                                       |
| Renber 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 |     |       |          |                      |             |       |                                                       |             |                  |                                          |        |         |  |           |        |  |      |       |                                                       |              |       |                                                       |
| Weight: 2.54 g<br>Suitable Cables: Semi-rigid.047                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                       |                                                       |     |       |          |                      |             |       |                                                       |             |                  |                                          |        |         |  |           |        |  |      |       |                                                       |              |       |                                                       |

This part number complies with RoHS.

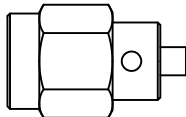
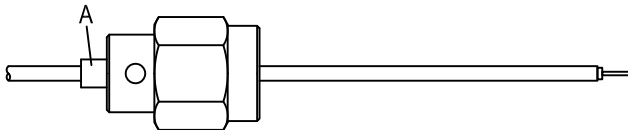
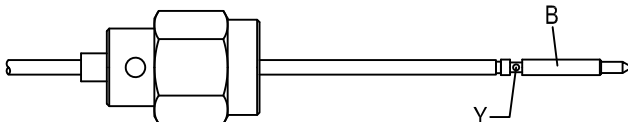
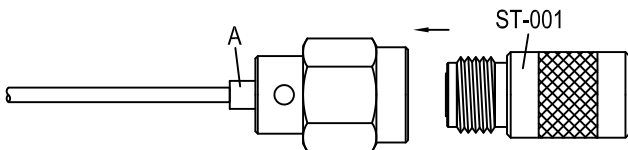
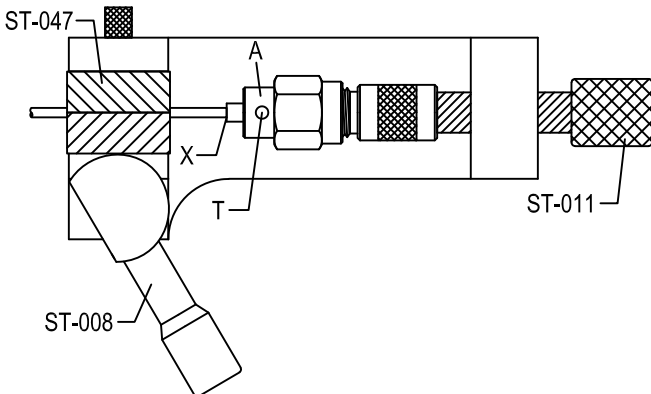
Notice: JYEBAO reserves the right to make modifications deemed appropriate.

| SMA                                                                                                                                                                                                                                                                                                                                                                                                                                                         | SMA3300-0047 |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------|
| <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 11GHz<br>VSWR $\leq 1.2$ (DC to 11GHz)<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 -40°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> Locator tool ST-001, ST-011<br>Soldering fixture ST-008<br>Insert for .047 semi-rigid cable ST-047                                                                                                                                                                                                                                                                                                                                       |              |

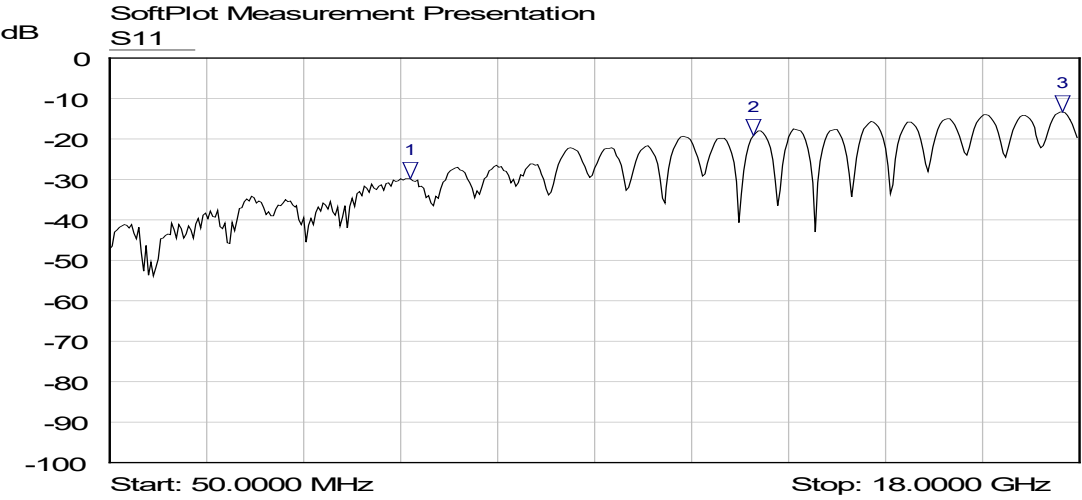
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# JYE BAO CO., LTD.

## CABLE ASSEMBLY INSTRUCTION

|                                                                                                                     |  |                                                                                                                                                               |            |         |   |
|---------------------------------------------------------------------------------------------------------------------|--|---------------------------------------------------------------------------------------------------------------------------------------------------------------|------------|---------|---|
| SMA3300-0047                                                                                                        |  | DATE                                                                                                                                                          | 2017/12/01 | REV     | — |
| A                                                                                                                   |  | B                                                                                                                                                             |            |         |   |
|                                    |  |                                                                             |            |         |   |
| BODY                                                                                                                |  | CONTACT PIN                                                                                                                                                   |            |         |   |
| DIAGRAM                                                                                                             |  | ASSEMBLY INSTRUCTION                                                                                                                                          |            |         |   |
|                                    |  | Step 1: STRIP AS SHOWN.                                                                                                                                       |            |         |   |
|                                  |  | Step 2: SLIDE CONNECTOR BODY " A " OVER CABLE.                                                                                                                |            |         |   |
|                                  |  | Step 3: PUT PIN " B " ON CENTER CONDUCTOR AND SOLDER IN " Y " .                                                                                               |            |         |   |
|                                  |  | Step 4: INSERT PREPARED CABLE INTO CONNECTOR BODY " A ".<br>Step 5: SCREW LOCATOR TOOL "ST-001" INTO THE CONNECTOR BODY " A " .                               |            |         |   |
|                                   |  | Step 6: USE SOLDERING FIXTURE " ST-008 " , INSERT TOOL " ST-047 " AND LOCATOR TOOL " ST-011 " TO FIX THE CONNECTOR. SOLDER IN " X " AND FILL EPOXY IN " T " . |            |         |   |
| This part number complies with RoHS.<br>Notice: JYEBAO reserves the right to make modifications deemed appropriate. |  |                                                                                                                                                               |            |         |   |
| APPROVED                                                                                                            |  | CHECKED                                                                                                                                                       |            | DRAWING |   |
|                                                                                                                     |  |                                                                                                                                                               |            | Albert  |   |

SMA3300-0047



| Mkr | Trace | X-Axis      | Value     | Notes |
|-----|-------|-------------|-----------|-------|
| 1 ▽ | S11   | 5.6048 GHz  | -29.84 dB |       |
| 2 ▽ | S11   | 11.9595 GHz | -19.12 dB |       |
| 3 ▽ | S11   | 17.6920 GHz | -13.27 dB |       |