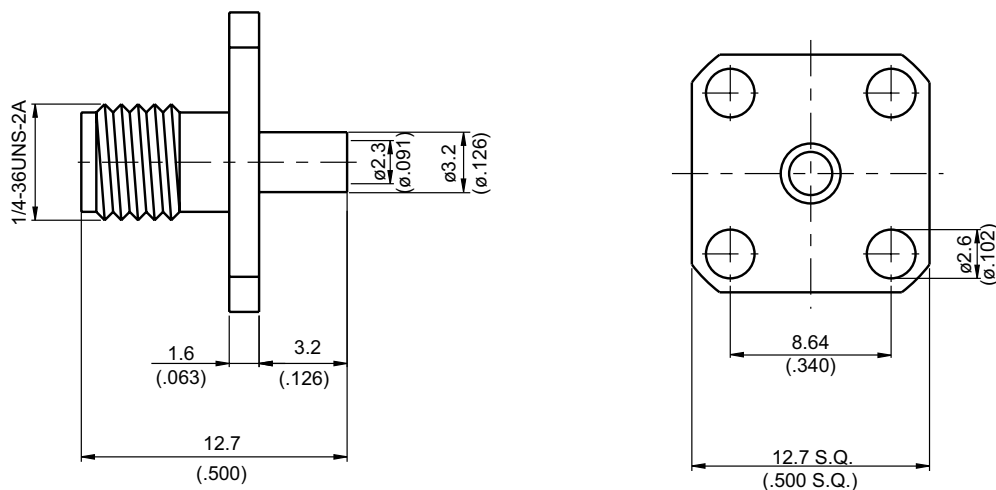
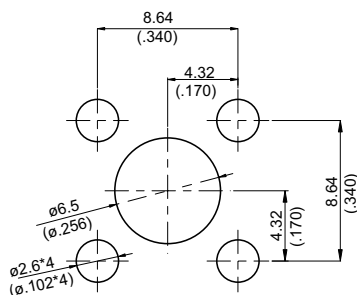


SMA8346-0085

**SMA Jack Solder SQ 12.7mm 4 Hole Flange For 50Ω**  
**RG405; 18GHz VSWR 1.25, 27GHz VSWR 1.35**



MOUNTING HOLE :



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

Weight: 2.64 g

Suitable Cables: Semi-rigid.085

This part number complies with RoHS.

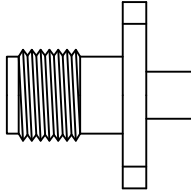
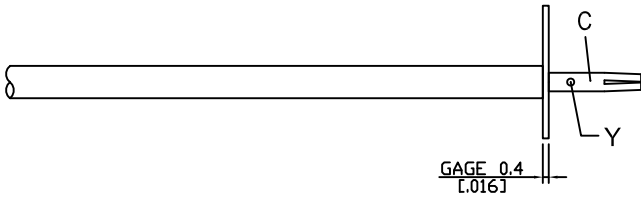
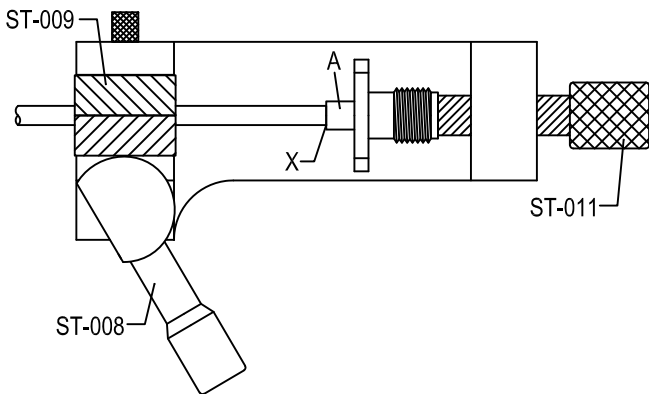
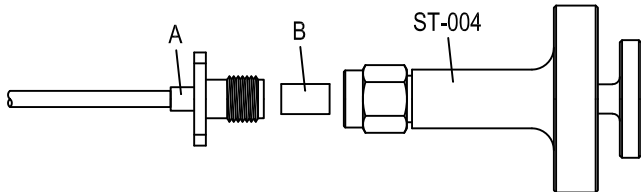
Notice: JYEBAO reserves the right to make modifications deemed appropriate.

| SMA                                            | SMA8346-0085                               |
|------------------------------------------------|--------------------------------------------|
| <b>Interface</b>                               |                                            |
| MIL-STD-348B                                   |                                            |
| Mechanically compatible with                   | 2.92 & 3.5                                 |
| <b>Electrical Data</b>                         |                                            |
| Impedance                                      | 50Ω                                        |
| Frequency range                                | DC to 27GHz                                |
| VSWR                                           | $\leq 1.25$ (18GHz); $\leq 1.35$ (27GHz)   |
| 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                               |
| 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>                                 |                                            |
| Soldering gauge                                | ST-0.4                                     |
| Soldering fixture                              | ST-008                                     |
| Insert for .085inch semi-rigid cable           | ST-009                                     |
| Locator tool                                   | ST-011                                     |
| Dielectric insertion tool                      | ST-004                                     |

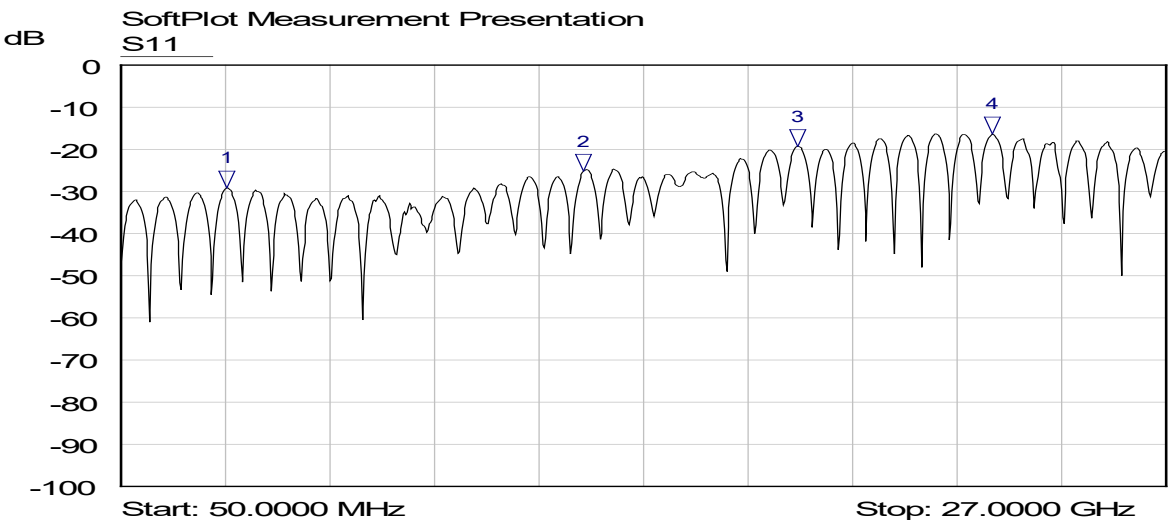
Notice: JYEBAO reserves the right to make modifications deemed appropriate.

# JYE BAO CO., LTD.

## CABLE ASSEMBLY INSTRUCTION

|                                                                                                                     |  |                                                                                                                                     |                                                                                     |         |   |
|---------------------------------------------------------------------------------------------------------------------|--|-------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|---------|---|
| SMA8346-0085                                                                                                        |  | DATE                                                                                                                                | 2017/12/01                                                                          | REV     | — |
| A                                                                                                                   |  | B                                                                                                                                   | C                                                                                   |         |   |
|                                    |  |                                                    |  |         |   |
| BODY                                                                                                                |  | INSULATOR                                                                                                                           | CONTACT PIN                                                                         |         |   |
| DIAGRAM                                                                                                             |  | ASSEMBLY INSTRUCTION                                                                                                                |                                                                                     |         |   |
|                                    |  | Step 1: STRIP AS SHOWN.                                                                                                             |                                                                                     |         |   |
|                                  |  | Step 2: PUT 0.4 MM GAGE IN PLACE, INSERT CABLE'S CENTER CONDUCTOR INTO CENTER PIN "C" AND SOLDER IN "Y".                            |                                                                                     |         |   |
|                                   |  | Step 3: USE SOLDERING FIXTURE " ST-008 ", INSERT TOOL " ST-009 " AND LOCATOR TOOL " ST-011 " TO FIX THE CONNECTOR. SOLDER IN " X ". |                                                                                     |         |   |
|                                  |  | Step4: USE DIELECTRIC INSERTION TOOL " ST-004 " TO INSERT THE TEFLON " B ".                                                         |                                                                                     |         |   |
| This part number complies with RoHS.<br>Notice: JYEBAO reserves the right to make modifications deemed appropriate. |  |                                                                                                                                     |                                                                                     |         |   |
| APPROVED                                                                                                            |  | CHECKED                                                                                                                             |                                                                                     | DRAWING |   |
|                                                                                                                     |  |                                                                                                                                     |                                                                                     | Albert  |   |

SMA8346-0085



| Mkr | Trace | X-Axis      | Value     | Notes |
|-----|-------|-------------|-----------|-------|
| 1 ▽ | S11   | 2.7780 GHz  | -29.23 dB |       |
| 2 ▽ | S11   | 11.9811 GHz | -25.19 dB |       |
| 3 ▽ | S11   | 17.4971 GHz | -19.28 dB |       |
| 4 ▽ | S11   | 22.5333 GHz | -16.32 dB |       |