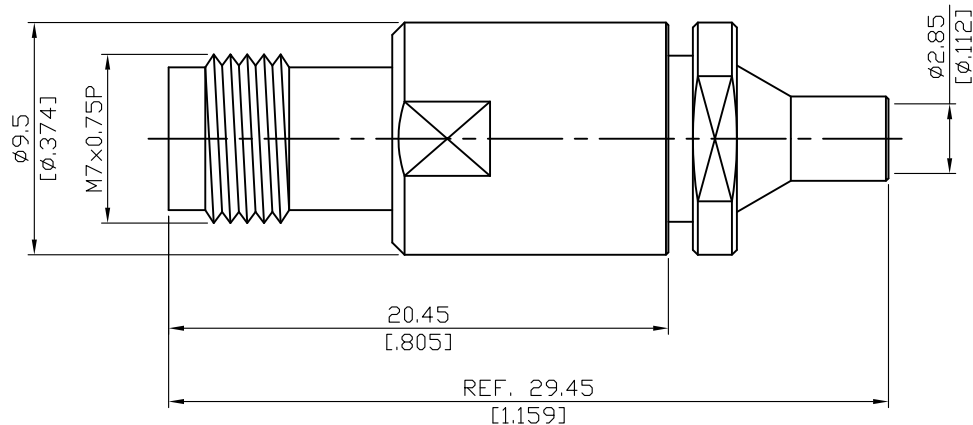


2.4-8200S-5002

2.4mm Jack Solder Clamp For Flexible RG405;  
50GHz VSWR 1.25\*

50Ω



Note:

1. Precision connector up to 50GHz
2. Solder clamp design ensures a sturdy connector/cable connection
3. Manufacturing low loss high frequency RF assemblies requires expertise.

\*Using 5002

| Parts          | Material         | Plating ( Micro-inch )                                |
|----------------|------------------|-------------------------------------------------------|
| Body           | Stainless Steel  | Passivated                                            |
| Insulator      | PPO              |                                                       |
| Contact Pin    | Beryllium Copper | Gold 4 Over Nickel-Phosphorus Alloy 80 Over Copper 20 |
| Solder Ferrule | Brass            | Gold 4 Over Nickel-Phosphorus Alloy 80 Over Copper 20 |
| Clamp Nut      | Stainless Steel  | Passivated                                            |

Suitable Cables: 5002, SS405, T-Flex 405, Multiflex 86, .085SRF-W-P-50-F

This part number complies with RoHS.

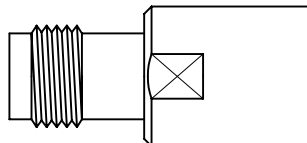
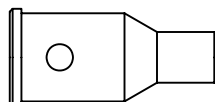
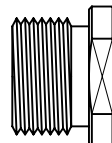
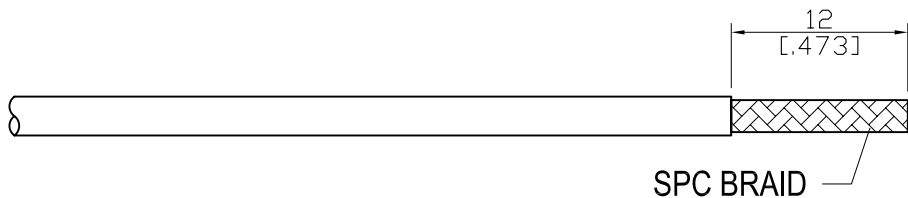
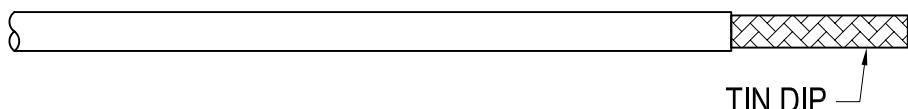
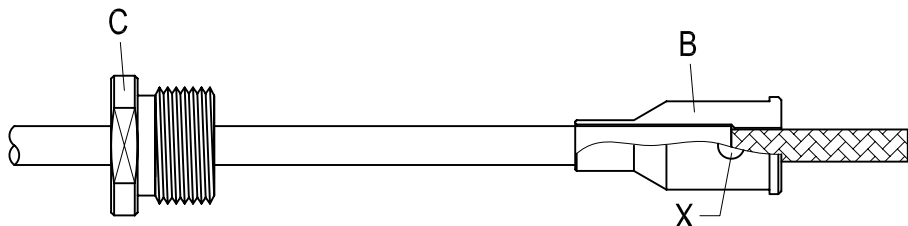
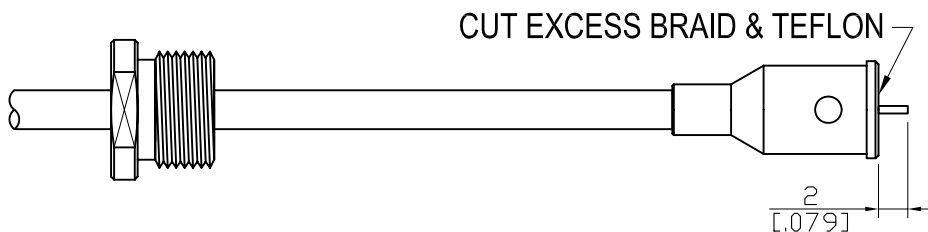
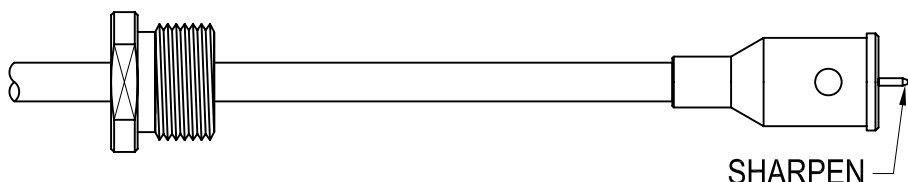
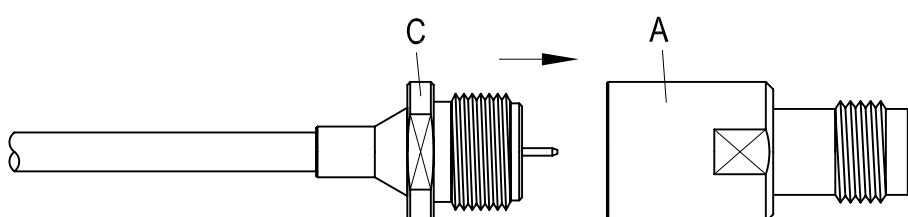
Notice: JYEBAO reserves the right to make modifications deemed appropriate.

| 2.4                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 2.4-8200S-5002 |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------|
| <div>Interface</div> MIL-STD-348B<br>Mechanically compatible with 1.85                                                                                                                                                                                                                                                                                                                                                                                                                          |                |
| <div>Electrical Data</div> Impedance 50Ω<br>Frequency range DC to 50GHz<br>VSWR $\leq 1.25$ (DC to 50GHz)<br>Insertion loss $\leq 0.05 \times \sqrt{f(\text{GHz})}$ dB<br>Insulation resistance $\geq 5000\text{M}\Omega$<br>Contact resistance inner conductor $\leq 4\text{m}\Omega$<br>Contact resistance outer conductor $\leq 2.5\text{m}\Omega$<br>Dielectric withstanding voltage (sea level) 500V rms<br>Working voltage (sea level) 150V rms<br>RF leakage $\geq 100\text{dB}$ to 1GHz |                |
| <div>Mechanical Data</div> Recommended coupling nut torque 7.08 to 9.74 inch lbs<br>Coupling proof Torque 15 inch lbs<br>Coupling nut retention force $\geq 60.7$ lbs<br>Contact captivation-axial $\geq 4.5$ lbs<br>Durability (mating) $\geq 500$                                                                                                                                                                                                                                             |                |
| <div>Environmental Data</div> Temperature range -55°C to +105°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>                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                |

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

# JYE BAO CO., LTD.

## CABLE ASSEMBLY RECOMMENDATION

|                                                                                                                     |  |                                                                                    |                                                                                                                             |                                                                                     |   |
|---------------------------------------------------------------------------------------------------------------------|--|------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|---|
| 2.4-8200S-5002                                                                                                      |  | DATE                                                                               | 2019/01/18                                                                                                                  | REV                                                                                 | A |
| A                                                                                                                   |  | B                                                                                  |                                                                                                                             | C                                                                                   |   |
|                                    |  |  |                                                                                                                             |  |   |
| BODY                                                                                                                |  | SOLDER FERRULE                                                                     |                                                                                                                             | CLAMP NUT                                                                           |   |
| DIAGRAM                                                                                                             |  |                                                                                    | ASSEMBLY INSTRUCTION                                                                                                        |                                                                                     |   |
|                                  |  |                                                                                    | Step 1: STRIP AS SHOWN.                                                                                                     |                                                                                     |   |
|                                  |  |                                                                                    | Step 2: TIN DIP SPC BRAID.                                                                                                  |                                                                                     |   |
|                                  |  |                                                                                    | Step 3: SLIDE NUT " C " AND SOLDER FERRULE " B " OVER THE CABLE.<br>Step 4: SOLDER IN " X ".                                |                                                                                     |   |
|                                 |  |                                                                                    | Step 5: CUT AWAY ANY EXCESS BRAID AND TEFLON STICKING OUT OF THE SOLDER FERRULE.<br>Step 6: CUT CENTER CONDUCTOR TO LENGTH. |                                                                                     |   |
|                                  |  |                                                                                    | Step 7: SHARPEN CENTER CONDUCTOR TIP.                                                                                       |                                                                                     |   |
|                                  |  |                                                                                    | Step 8: FINALLY SCREW NUT " C " ON THE CONNECTOR BODY " A ".                                                                |                                                                                     |   |
| This part number complies with RoHS.<br>Notice: JYEBAO reserves the right to make modifications deemed appropriate. |  |                                                                                    |                                                                                                                             |                                                                                     |   |
| APPROVED                                                                                                            |  | CHECKED                                                                            |                                                                                                                             | DRAWING                                                                             |   |
|                                                                                                                     |  |                                                                                    |                                                                                                                             | Albert                                                                              |   |