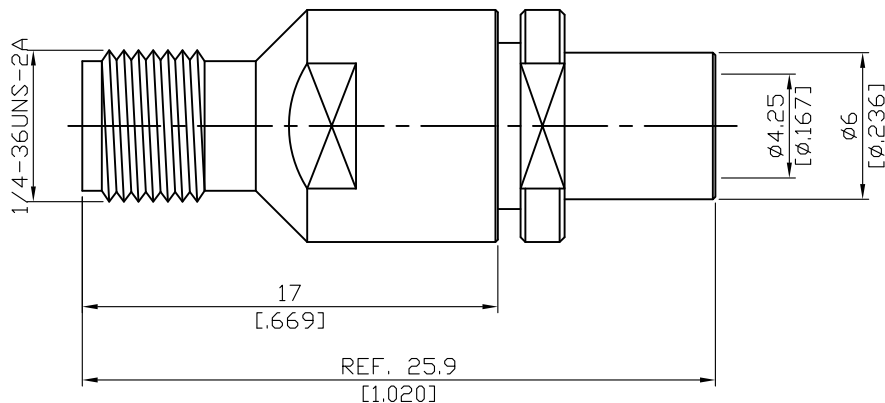


K8200S-5003

2.92mm Jack Solder Clamp For Flexible RG402;  
40GHz VSWR 1.25\*

50Ω



**Note:**

1. Precision connector up to 40GHz
2. Solder clamp design ensures a sturdy connector/cable connection
3. Manufacturing low loss high frequency RF assemblies requires expertise.

\*Using 5003

| 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                                            |

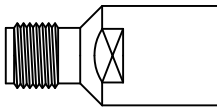
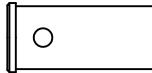
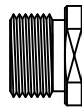
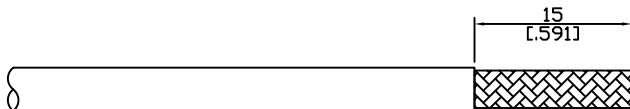
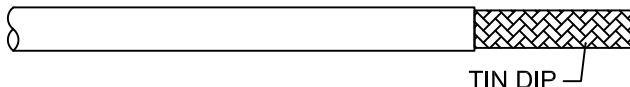
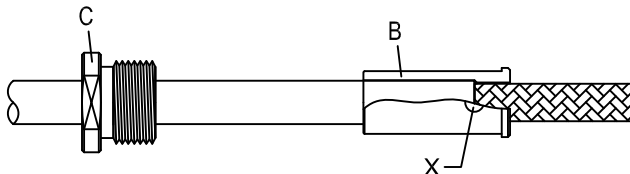
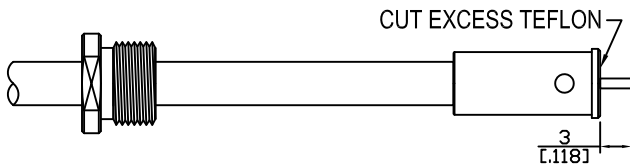
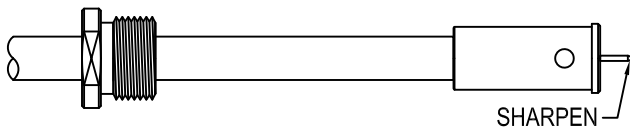
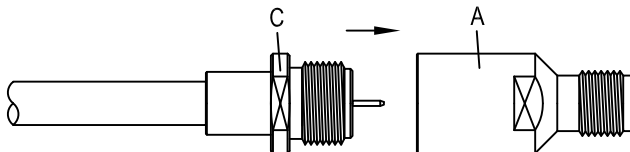
Suitable Cables: 5003; SS402; Multiflex 141; T-Flex 402; .141SRF-W-P-50-F

| 2.92 (K)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | K8200S-5003 |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|
| <div>Interface</div> MIL-STD-348B<br>Mechanically compatible with 3.5 & SMA                                                                                                                                                                                                                                                                                                                                                                                                                           |             |
| <div>Electrical Data</div> Impedance 50Ω<br>Frequency range DC to 40GHz<br>VSWR $\leq 1.25$ (DC to 40GHz)<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) 750 V rms<br>Working Voltage (at sea level) 250 V rms<br>RF leakage $\geq 100\text{dB}$ to 1GHz |             |
| <div>Mechanical Data</div> Recommended coupling nut torque 11.47 inch lbs<br>Coupling proof torque 15 inch lbs<br>Contact Captivation-axial $\geq 4.9$ lbs<br>Durability (mating) $\geq 500$                                                                                                                                                                                                                                                                                                          |             |
| <div>Environmental Data</div> Temperature range -40°C to +105°C<br>Thermal shock MIL-STD-202, Method 107, Condition B<br>Moisture resistance MIL-STD-202, Method 206<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.

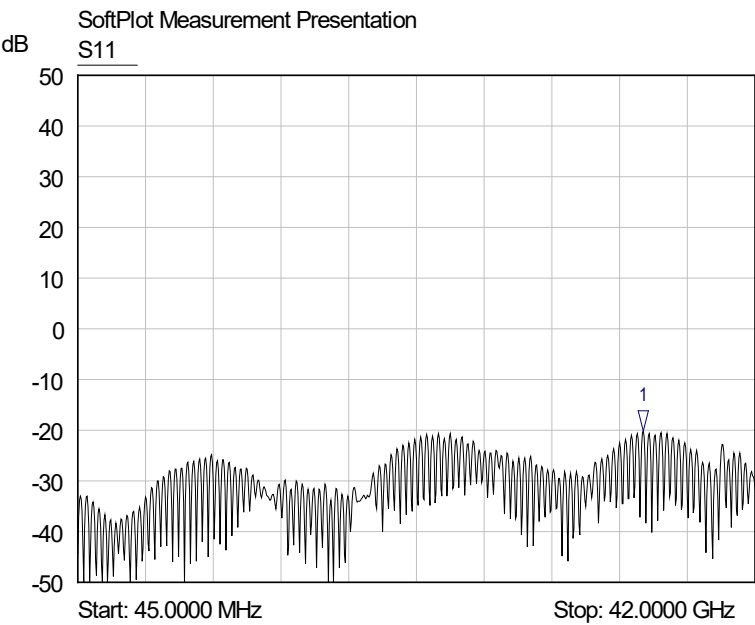
# JYE BAO CO., LTD.

## CABLE ASSEMBLY RECOMMENDATION

|                                                                                                                     |  |                                                                                   |                                                                                                                             |                                                                                     |   |
|---------------------------------------------------------------------------------------------------------------------|--|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|---|
| K8200S-5003                                                                                                         |  | DATE                                                                              | 2018/04/09                                                                                                                  | REV                                                                                 | — |
| A                                                                                                                   |  | B                                                                                 |                                                                                                                             | C                                                                                   |   |
|                                    |  |  |                                                                                                                             |  |   |
| BODY                                                                                                                |  | SOLDER FERRULE                                                                    |                                                                                                                             | NUT                                                                                 |   |
| DIAGRAM                                                                                                             |  |                                                                                   | ASSEMBLY INSTRUCTION                                                                                                        |                                                                                     |   |
|                                    |  |                                                                                   | Step 1: STRIP AS SHOWN.                                                                                                     |                                                                                     |   |
|                                  |  |                                                                                   | Step 2: TIN DIP 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                                                                             |   |
|                                                                                                                     |  |                                                                                   |                                                                                                                             | <i>Albert</i>                                                                       |   |

# K8200S-5003

S11



1 S11  
35.0774 GHz  
-20.13 dB