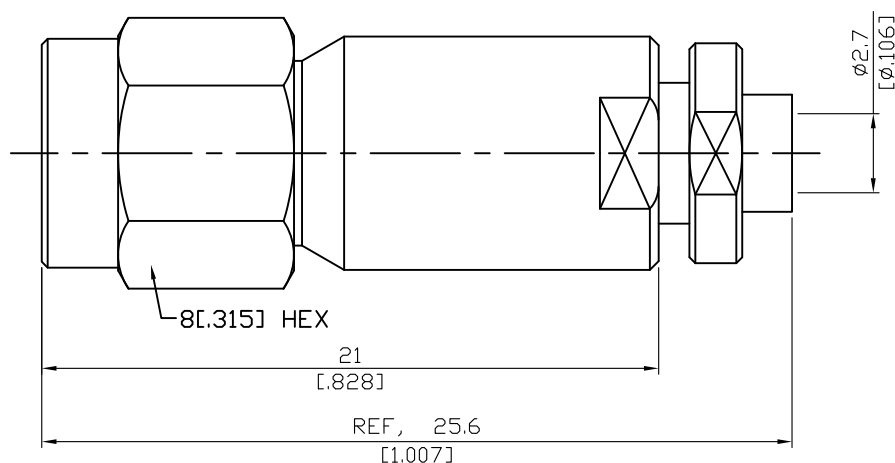


PC3.5-3200S-5002

3.5mm plug solder clamp for flexible RG405;  
26.5GHz VSWR 1.2\*

50Ω



**Note:**

1. Precision connector up to 26.5GHz
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 )                                |
|----------------|------------------|-------------------------------------------------------|
| Coupling Nut   | Stainless Steel  | Passivated                                            |
| Body           | Stainless Steel  | Passivated                                            |
| Insulator      | PPO              |                                                       |
| Contact Pin    | Beryllium Copper | Gold 4 Over Nickel-Phosphorus Alloy 80 Over Copper 20 |
| Gasket         | Silicone         |                                                       |
| Retainer Ring  | Beryllium Copper | Tin-Zinc-Copper-Alloy 100 Over Copper 50              |
| 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.

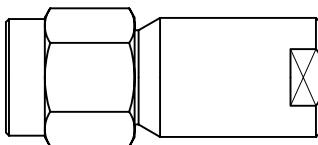
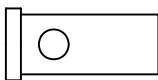
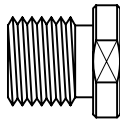
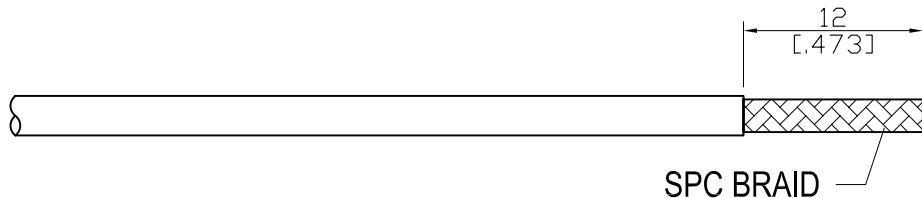
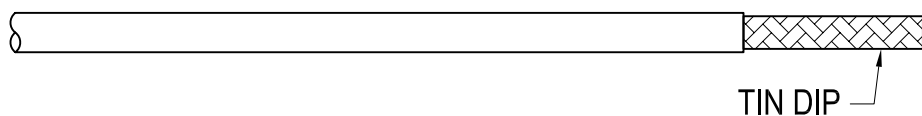
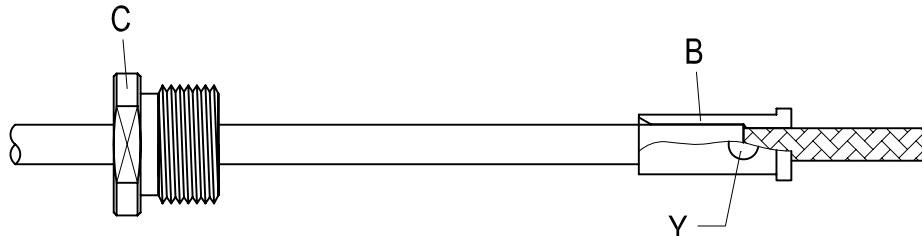
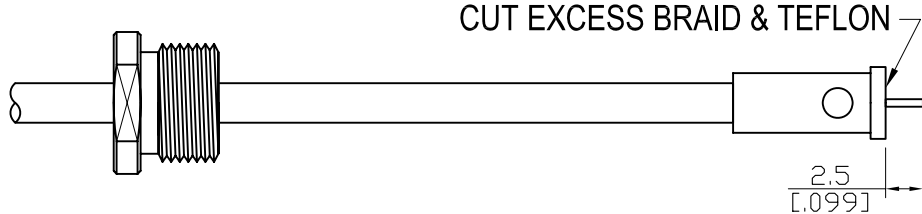
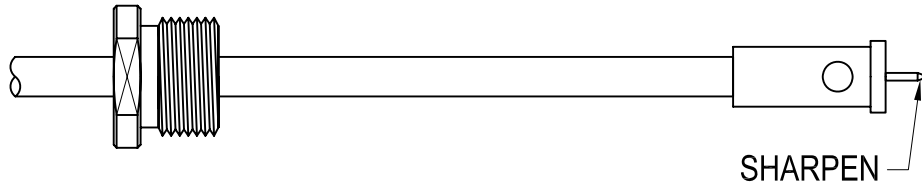
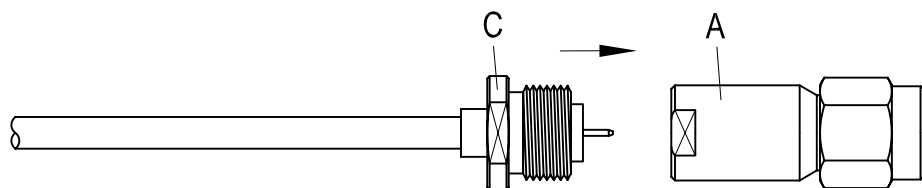
Notice: JYEBAO reserves the right to make modifications deemed appropriate.

| 3.5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | PC3.5-3200S-5002 |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------|
| <div>Interface</div> <p>IEC 60169-23</p> <p>Mechanically compatible with 2.92 &amp; SMA</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                  |
| <div>Electrical Data</div> <p>Impedance 50Ω</p> <p>Frequency range DC to 26.5GHz</p> <p>VSWR <math>\leq 1.2</math> to 26.5GHz</p> <p>Insertion loss <math>\leq 0.03 \times \sqrt{f(\text{GHz})}</math> dB</p> <p>Insulation resistance <math>\geq 5000\text{M}\Omega</math></p> <p>Contact resistance inner conductor <math>\leq 3\text{m}\Omega</math></p> <p>Contact resistance outer conductor <math>\leq 2\text{m}\Omega</math></p> <p>Dielectric withstanding voltage (at sea level) 750 V rms</p> <p>Working voltage (at sea level) 250 V rms</p> <p>RF leakage <math>\geq 100\text{dB}</math> to 1GHz</p> |                  |
| <div>Mechanical Data</div> <p>Recommended coupling nut torque 7.1 to 9.7 inch lbs</p> <p>Coupling proof torque 15 inch lbs</p> <p>Coupling nut retention force <math>\geq 60.7</math> lbs</p> <p>Contact captivation-axial <math>\geq 6.1</math> lbs</p> <p>Durability (mating) <math>\geq 500</math></p>                                                                                                                                                                                                                                                                                                        |                  |
| <div>Environmental Data</div> <p>Temperature range -55°C to +105°C</p> <p>Thermal shock MIL-STD-202, Method 107, Condition B</p> <p>Moisture resistance MIL-STD-202, Method 106</p> <p>Corrosion MIL-STD-202, Method 101, Condition B</p> <p>RoHS Compliant</p>                                                                                                                                                                                                                                                                                                                                                  |                  |
| <div>Tooling</div>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                  |

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

# JYE BAO CO., LTD.

## CABLE ASSEMBLY RECOMMENDATION

|                                                                                                                     |  |                                                                                    |                                                                                                                             |                                                                                     |   |
|---------------------------------------------------------------------------------------------------------------------|--|------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|---|
| PC3.5-3200S-5002                                                                                                    |  | DATE                                                                               | 2020/05/07                                                                                                                  | REV                                                                                 | — |
| 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 " Y ".                                |                                                                                     |   |
|                                  |  |                                                                                    | 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                                                                              |   |