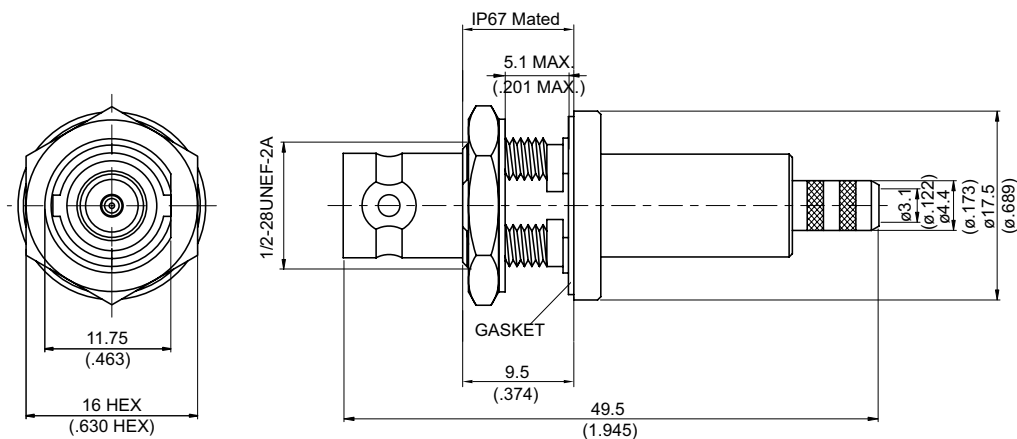


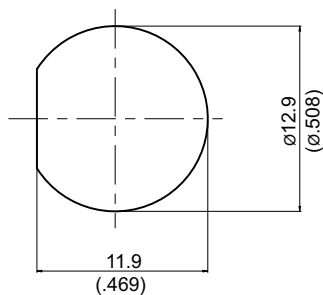
SHV8105-0223

**SHV Jack Crimp Bulkhead,  
IP67 Mated, For RG223**

**50Ω**



**MOUNTING HOLE:**



| Parts       | Material | Plating(Micro-inch)                                    |
|-------------|----------|--------------------------------------------------------|
| Ferrule     | Brass    | Tin-Zinc-Copper-Alloy 100 Over Copper 50               |
| Hex Nut     | Brass    | Tin-Zinc-Copper-Alloy 100 Over Copper 50               |
| Washer      | Brass    | Tin-Zinc-Copper-Alloy 100 Over Copper 50               |
| Gasket      | Silicone |                                                        |
| Barrel      | Brass    | Tin-Zinc-Copper-Alloy 100 Over Copper 50               |
| Contact Pin | Brass    | Gold 4 Over Nickel Phosphorous Alloy 80 Over Copper 20 |
| Insulator   | Teflon   |                                                        |
| Body        | Brass    | Tin-Zinc-Copper-Alloy 100 Over Copper 50               |

Suitable Cables: RG223

**This part number complies with RoHS.**

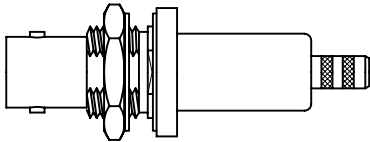
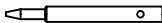
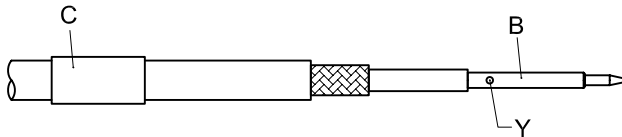
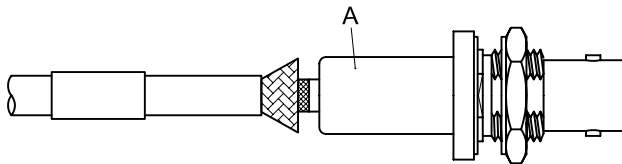
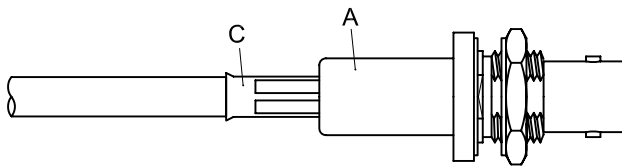
**Notice: JYEBAO reserves the right to make modification deemed appropriate.**

| SHV                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | SHV8105-0223                         |                                 |                     |                              |                                      |                           |                                      |                                    |                                      |                                    |           |                                                |            |                                |            |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------|---------------------------------|---------------------|------------------------------|--------------------------------------|---------------------------|--------------------------------------|------------------------------------|--------------------------------------|------------------------------------|-----------|------------------------------------------------|------------|--------------------------------|------------|
| <div>Interface</div> MIL-STD-348B                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                      |                                 |                     |                              |                                      |                           |                                      |                                    |                                      |                                    |           |                                                |            |                                |            |
| <div>Electrical Data</div> <table> <tr> <td>Impedance</td><td>50Ω</td></tr> <tr> <td>Frequency range</td><td>DC to 300 MHz</td></tr> <tr> <td>Insulation resistance</td><td>≥5000MΩ</td></tr> <tr> <td>Contact resistance inner conductor</td><td>≤2mΩ</td></tr> <tr> <td>Contact resistance outer conductor</td><td>≤1.5mΩ</td></tr> <tr> <td>Dielectric withstanding voltage (at sea level)</td><td>5000 V rms</td></tr> <tr> <td>Working voltage (at sea level)</td><td>3500 V rms</td></tr> </table> |                                      | Impedance                       | 50Ω                 | Frequency range              | DC to 300 MHz                        | Insulation resistance     | ≥5000MΩ                              | Contact resistance inner conductor | ≤2mΩ                                 | Contact resistance outer conductor | ≤1.5mΩ    | Dielectric withstanding voltage (at sea level) | 5000 V rms | Working voltage (at sea level) | 3500 V rms |
| Impedance                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 50Ω                                  |                                 |                     |                              |                                      |                           |                                      |                                    |                                      |                                    |           |                                                |            |                                |            |
| Frequency range                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | DC to 300 MHz                        |                                 |                     |                              |                                      |                           |                                      |                                    |                                      |                                    |           |                                                |            |                                |            |
| Insulation resistance                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | ≥5000MΩ                              |                                 |                     |                              |                                      |                           |                                      |                                    |                                      |                                    |           |                                                |            |                                |            |
| Contact resistance inner conductor                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | ≤2mΩ                                 |                                 |                     |                              |                                      |                           |                                      |                                    |                                      |                                    |           |                                                |            |                                |            |
| Contact resistance outer conductor                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | ≤1.5mΩ                               |                                 |                     |                              |                                      |                           |                                      |                                    |                                      |                                    |           |                                                |            |                                |            |
| Dielectric withstanding voltage (at sea level)                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 5000 V rms                           |                                 |                     |                              |                                      |                           |                                      |                                    |                                      |                                    |           |                                                |            |                                |            |
| Working voltage (at sea level)                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 3500 V rms                           |                                 |                     |                              |                                      |                           |                                      |                                    |                                      |                                    |           |                                                |            |                                |            |
| <div>Mechanical Data</div> <table> <tr> <td>Recommended coupling nut torque</td><td>0.6 to 2.5 inch lbs</td></tr> <tr> <td>Coupling nut retention force</td><td>≥101.2 lbs</td></tr> <tr> <td>Contact captivation-axial</td><td>≥6.1 lbs</td></tr> <tr> <td>Durability (mating)</td><td>≥500</td></tr> </table>                                                                                                                                                                                          |                                      | Recommended coupling nut torque | 0.6 to 2.5 inch lbs | Coupling nut retention force | ≥101.2 lbs                           | Contact captivation-axial | ≥6.1 lbs                             | Durability (mating)                | ≥500                                 |                                    |           |                                                |            |                                |            |
| Recommended coupling nut torque                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 0.6 to 2.5 inch lbs                  |                                 |                     |                              |                                      |                           |                                      |                                    |                                      |                                    |           |                                                |            |                                |            |
| Coupling nut retention force                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | ≥101.2 lbs                           |                                 |                     |                              |                                      |                           |                                      |                                    |                                      |                                    |           |                                                |            |                                |            |
| Contact captivation-axial                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | ≥6.1 lbs                             |                                 |                     |                              |                                      |                           |                                      |                                    |                                      |                                    |           |                                                |            |                                |            |
| Durability (mating)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | ≥500                                 |                                 |                     |                              |                                      |                           |                                      |                                    |                                      |                                    |           |                                                |            |                                |            |
| <div>Environmental Data</div> <table> <tr> <td>Temperature range</td><td>-65°C to +165°C</td></tr> <tr> <td>Thermal shock</td><td>MIL-STD-202, Method 107, Condition B</td></tr> <tr> <td>Moisture resistance</td><td>MIL-STD-202, Method 103, Condition B</td></tr> <tr> <td>Corrosion</td><td>MIL-STD-202, Method 101, Condition B</td></tr> <tr> <td>RoHS</td><td>Compliant</td></tr> </table>                                                                                                        |                                      | Temperature range               | -65°C to +165°C     | Thermal shock                | MIL-STD-202, Method 107, Condition B | Moisture resistance       | MIL-STD-202, Method 103, Condition B | Corrosion                          | MIL-STD-202, Method 101, Condition B | RoHS                               | Compliant |                                                |            |                                |            |
| Temperature range                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | -65°C to +165°C                      |                                 |                     |                              |                                      |                           |                                      |                                    |                                      |                                    |           |                                                |            |                                |            |
| Thermal shock                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | MIL-STD-202, Method 107, Condition B |                                 |                     |                              |                                      |                           |                                      |                                    |                                      |                                    |           |                                                |            |                                |            |
| Moisture resistance                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | MIL-STD-202, Method 103, Condition B |                                 |                     |                              |                                      |                           |                                      |                                    |                                      |                                    |           |                                                |            |                                |            |
| Corrosion                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | MIL-STD-202, Method 101, Condition B |                                 |                     |                              |                                      |                           |                                      |                                    |                                      |                                    |           |                                                |            |                                |            |
| RoHS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | Compliant                            |                                 |                     |                              |                                      |                           |                                      |                                    |                                      |                                    |           |                                                |            |                                |            |
| <div>Tooling</div> <table> <tr> <td>Crimping tool</td><td>CRT-1 or CRT-2</td></tr> <tr> <td>Crimp insert</td><td>INSERT-B</td></tr> </table>                                                                                                                                                                                                                                                                                                                                                             |                                      | Crimping tool                   | CRT-1 or CRT-2      | Crimp insert                 | INSERT-B                             |                           |                                      |                                    |                                      |                                    |           |                                                |            |                                |            |
| Crimping tool                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | CRT-1 or CRT-2                       |                                 |                     |                              |                                      |                           |                                      |                                    |                                      |                                    |           |                                                |            |                                |            |
| Crimp insert                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | INSERT-B                             |                                 |                     |                              |                                      |                           |                                      |                                    |                                      |                                    |           |                                                |            |                                |            |

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

# JYE BAO CO., LTD.

## CABLE ASSEMBLY INSTRUCTION

|                                                                                                                     |  |                                                                                                                                                                                   |                                                                                     |         |   |
|---------------------------------------------------------------------------------------------------------------------|--|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|---------|---|
| SHV8105-0223                                                                                                        |  | DATE                                                                                                                                                                              | 2016/04/18                                                                          | REV     | — |
| A                                                                                                                   |  | B                                                                                                                                                                                 | C                                                                                   |         |   |
|                                    |  |                                                                                                  |  |         |   |
| BODY + HEX NUT<br>+ WASHER + GASKET                                                                                 |  | CONTACT PIN                                                                                                                                                                       | FERRULE                                                                             |         |   |
| DIAGRAM                                                                                                             |  | ASSEMBLY INSTRUCTION                                                                                                                                                              |                                                                                     |         |   |
|                                   |  | Step 1: STRIP AS SHOWN.                                                                                                                                                           |                                                                                     |         |   |
|                                  |  | Step 2: SLIDE FERRULE " C " OVER CABLE.<br>Step 3: PUT PIN " B " ON CENTER CONDUCTOR AND SOLDER OR CRIMP IN " Y ".<br>(USE SQUARE 1.6mm/0.063inch SECTION OF INSERT-B IF CRIMPED) |                                                                                     |         |   |
|                                  |  | Step 4: LOOSEN BRAIDING AND SLIDE CONNECTOR " A " IN PLACE.                                                                                                                       |                                                                                     |         |   |
|                                  |  | Step 5: SLIDE FERRULE " C " TOWARDS THE CONNECTOR " A " AND CRIMP.<br>(USE 5.9mm/0.232inch HEX SECTION OF INSERT-B)                                                               |                                                                                     |         |   |
| This part number complies with RoHS.<br>Notice: JYEBAO reserves the right to make modifications deemed appropriate. |  |                                                                                                                                                                                   |                                                                                     |         |   |
| APPROVED                                                                                                            |  | CHECKED                                                                                                                                                                           |                                                                                     | DRAWING |   |
|                                                                                                                     |  |                                                                                                                                                                                   |                                                                                     | Albert  |   |