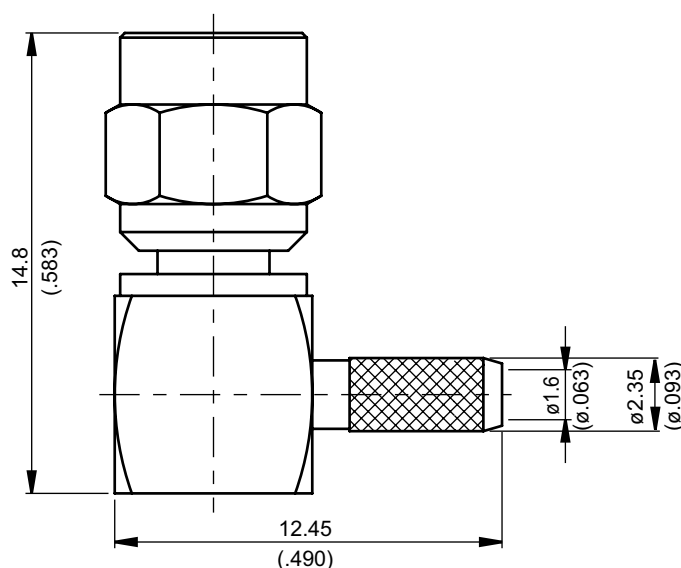


SMC3100-9316

**SMC Plug Crimp Right Angle**  
For RG174,RG188,RG316; 2.5GHz VSWR 1.2 **50Ω**



| Parts        | Material         | Plating (Micro-inch)                                  |
|--------------|------------------|-------------------------------------------------------|
| Ferrule      | Brass            | Gold 4 Over Nickel-Phosphorus Alloy 80 Over Copper 20 |
| Cover        | Brass            | Gold 4 Over Nickel-Phosphorus Alloy 80 Over Copper 20 |
| 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 |
| Barrel       | Brass            | Gold 4 Over Nickel-Phosphorus Alloy 80 Over Copper 20 |
| Coupling Nut | Brass            | Gold 4 Over Nickel-Phosphorus Alloy 80 Over Copper 20 |

Weight: 2.96 g

Suitable Cables: RG174, RG188, RG316, RG316-FEP

**This part number complies with RoHS.**

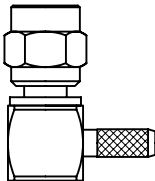
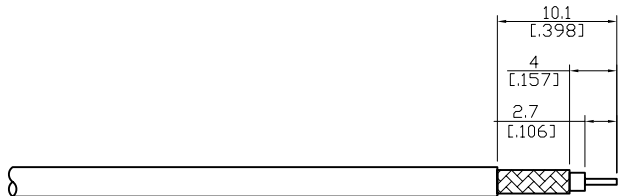
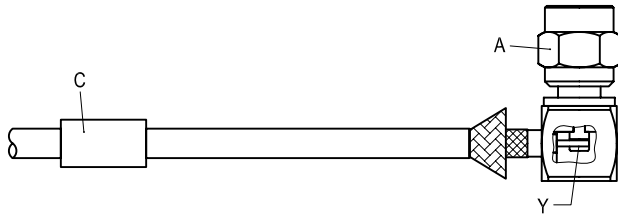
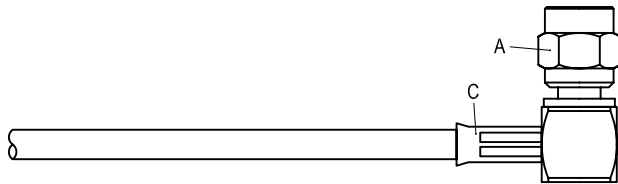
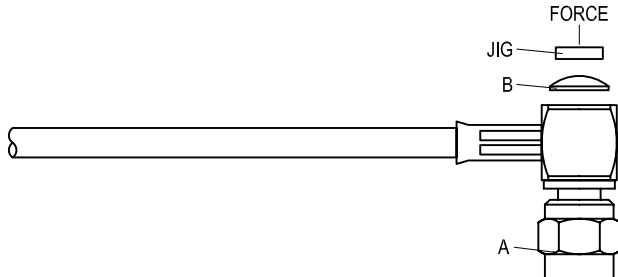
**Notice: JYEBAO reserves the right to make modifications deemed appropriate.**

| SMC                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | SMC3100-9316                         |                                 |                     |                       |                                      |                              |                         |                           |                                      |                       |           |                                    |       |                                    |         |                                                |           |                                |           |            |                |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------|---------------------------------|---------------------|-----------------------|--------------------------------------|------------------------------|-------------------------|---------------------------|--------------------------------------|-----------------------|-----------|------------------------------------|-------|------------------------------------|---------|------------------------------------------------|-----------|--------------------------------|-----------|------------|----------------|
| <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 2.5GHz</td></tr> <tr> <td>VSWR</td><td>≤ 1.2 (DC to 2.5GHz)</td></tr> <tr> <td>Insertion loss</td><td>≤ 0.1 x √f(GHz)dB</td></tr> <tr> <td>Insulation resistance</td><td>≥ 10000MΩ</td></tr> <tr> <td>Contact resistance inner conductor</td><td>≤ 5mΩ</td></tr> <tr> <td>Contact resistance outer conductor</td><td>≤ 2.5mΩ</td></tr> <tr> <td>Dielectric withstanding voltage (at sea level)</td><td>750 V rms</td></tr> <tr> <td>Working voltage (at sea level)</td><td>250 V rms</td></tr> <tr> <td>RF leakage</td><td>≥ 90dB to 1GHz</td></tr> </table> |                                      | Impedance                       | 50Ω                 | Frequency range       | DC to 2.5GHz                         | VSWR                         | ≤ 1.2 (DC to 2.5GHz)    | Insertion loss            | ≤ 0.1 x √f(GHz)dB                    | Insulation resistance | ≥ 10000MΩ | Contact resistance inner conductor | ≤ 5mΩ | Contact resistance outer conductor | ≤ 2.5mΩ | Dielectric withstanding voltage (at sea level) | 750 V rms | Working voltage (at sea level) | 250 V rms | RF leakage | ≥ 90dB to 1GHz |
| Impedance                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 50Ω                                  |                                 |                     |                       |                                      |                              |                         |                           |                                      |                       |           |                                    |       |                                    |         |                                                |           |                                |           |            |                |
| Frequency range                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | DC to 2.5GHz                         |                                 |                     |                       |                                      |                              |                         |                           |                                      |                       |           |                                    |       |                                    |         |                                                |           |                                |           |            |                |
| VSWR                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | ≤ 1.2 (DC to 2.5GHz)                 |                                 |                     |                       |                                      |                              |                         |                           |                                      |                       |           |                                    |       |                                    |         |                                                |           |                                |           |            |                |
| Insertion loss                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | ≤ 0.1 x √f(GHz)dB                    |                                 |                     |                       |                                      |                              |                         |                           |                                      |                       |           |                                    |       |                                    |         |                                                |           |                                |           |            |                |
| Insulation resistance                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | ≥ 10000MΩ                            |                                 |                     |                       |                                      |                              |                         |                           |                                      |                       |           |                                    |       |                                    |         |                                                |           |                                |           |            |                |
| Contact resistance inner conductor                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | ≤ 5mΩ                                |                                 |                     |                       |                                      |                              |                         |                           |                                      |                       |           |                                    |       |                                    |         |                                                |           |                                |           |            |                |
| Contact resistance outer conductor                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | ≤ 2.5mΩ                              |                                 |                     |                       |                                      |                              |                         |                           |                                      |                       |           |                                    |       |                                    |         |                                                |           |                                |           |            |                |
| Dielectric withstanding voltage (at sea level)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 750 V rms                            |                                 |                     |                       |                                      |                              |                         |                           |                                      |                       |           |                                    |       |                                    |         |                                                |           |                                |           |            |                |
| Working voltage (at sea level)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 250 V rms                            |                                 |                     |                       |                                      |                              |                         |                           |                                      |                       |           |                                    |       |                                    |         |                                                |           |                                |           |            |                |
| RF leakage                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | ≥ 90dB to 1GHz                       |                                 |                     |                       |                                      |                              |                         |                           |                                      |                       |           |                                    |       |                                    |         |                                                |           |                                |           |            |                |
| <div>Mechanical Data</div> <table> <tr> <td>Recommended coupling nut torque</td><td>2.2 to 3.1 inch lbs</td></tr> <tr> <td>Coupling proof torque</td><td>6.2 inch lbs</td></tr> <tr> <td>Coupling nut retention force</td><td>≥ 33.72 lbs</td></tr> <tr> <td>Contact captivation-axial</td><td>≥ 2.25 lbs</td></tr> <tr> <td>Durability (mating)</td><td>≥ 500</td></tr> </table>                                                                                                                                                                                                                                                                                               |                                      | Recommended coupling nut torque | 2.2 to 3.1 inch lbs | Coupling proof torque | 6.2 inch lbs                         | Coupling nut retention force | ≥ 33.72 lbs             | Contact captivation-axial | ≥ 2.25 lbs                           | Durability (mating)   | ≥ 500     |                                    |       |                                    |         |                                                |           |                                |           |            |                |
| Recommended coupling nut torque                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 2.2 to 3.1 inch lbs                  |                                 |                     |                       |                                      |                              |                         |                           |                                      |                       |           |                                    |       |                                    |         |                                                |           |                                |           |            |                |
| Coupling proof torque                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 6.2 inch lbs                         |                                 |                     |                       |                                      |                              |                         |                           |                                      |                       |           |                                    |       |                                    |         |                                                |           |                                |           |            |                |
| Coupling nut retention force                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | ≥ 33.72 lbs                          |                                 |                     |                       |                                      |                              |                         |                           |                                      |                       |           |                                    |       |                                    |         |                                                |           |                                |           |            |                |
| Contact captivation-axial                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | ≥ 2.25 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 106</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 106 | 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 106              |                                 |                     |                       |                                      |                              |                         |                           |                                      |                       |           |                                    |       |                                    |         |                                                |           |                                |           |            |                |
| 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-A</td></tr> </table>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                      | Crimping tool                   | CRT-1 or CRT-2      | Crimp insert          | INSERT-A                             |                              |                         |                           |                                      |                       |           |                                    |       |                                    |         |                                                |           |                                |           |            |                |
| Crimping tool                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | CRT-1 or CRT-2                       |                                 |                     |                       |                                      |                              |                         |                           |                                      |                       |           |                                    |       |                                    |         |                                                |           |                                |           |            |                |
| Crimp insert                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | INSERT-A                             |                                 |                     |                       |                                      |                              |                         |                           |                                      |                       |           |                                    |       |                                    |         |                                                |           |                                |           |            |                |

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

# JYE BAO CO., LTD.

## CABLE ASSEMBLY INSTRUCTION

|                                                                                                                                                                                                                                                                                                                                                                                                                         |  |                                                                                                                                                                            |            |         |   |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------|---------|---|
| SMC3100-9316                                                                                                                                                                                                                                                                                                                                                                                                            |  | DATE                                                                                                                                                                       | 2017/03/27 | REV     | — |
| <div><div><div>A</div><div></div><div>BODY</div></div><div><div>B</div><div></div><div>COVER</div></div><div><div>C</div><div></div><div>FERRULE</div></div></div> |  |                                                                                                                                                                            |            |         |   |
| DIAGRAM                                                                                                                                                                                                                                                                                                                                                                                                                 |  | ASSEMBLY INSTRUCTION                                                                                                                                                       |            |         |   |
|                                                                                                                                                                                                                                                                                                                                       |  | Step 1: STRIP AS SHOWN.                                                                                                                                                    |            |         |   |
|                                                                                                                                                                                                                                                                                                                                      |  | Step 2: SLIDE FERRULE " C " OVER CABLE.<br>Step 3: WRAP THE BRAIDING UPWARDS.<br>Step 4: SLIDE CENTER CONDUCTOR ON THE CONTACT PIN OF CONNECTOR " A " AND SOLDER IN " Y ". |            |         |   |
|                                                                                                                                                                                                                                                                                                                                      |  | Step 5: SLIDE FERRULE " C " TOWARDS THE CONNECTOR " A " AND CRIMP.<br>(USE 3.3mm/0.130inch HEX SECTION OF INSERT-A)                                                        |            |         |   |
|                                                                                                                                                                                                                                                                                                                                      |  | Step 6: PRESS ON THE TOP OF " B " WITH JIGS.                                                                                                                               |            |         |   |
| <div>This part number complies with RoHS.</div> <div>Notice: JYEBAO reserves the right to make modifications deemed appropriate.</div>                                                                                                                                                                                                                                                                                  |  |                                                                                                                                                                            |            |         |   |
| APPROVED                                                                                                                                                                                                                                                                                                                                                                                                                |  | CHECKED                                                                                                                                                                    |            | DRAWING |   |
|                                                                                                                                                                                                                                                                                                                                                                                                                         |  |                                                                                                                                                                            |            | Albert  |   |

# SMC3100-9316

S11

