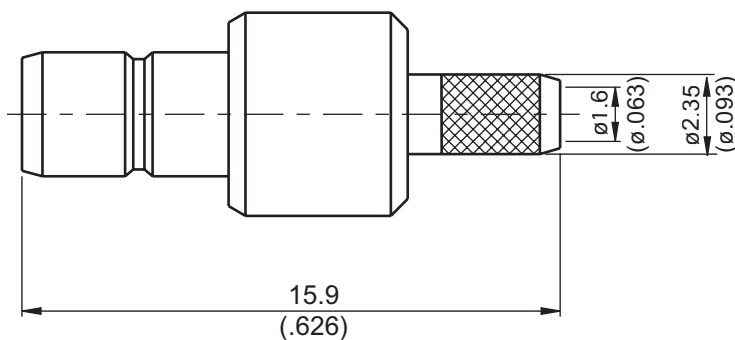


SMB8100D-0316

**SMB Jack Crimp For RD316,RD316-FEP**  
4GHz VSWR 1.3

50Ω



| Parts       | Material | Plating (Micro-inch)                                  |
|-------------|----------|-------------------------------------------------------|
| Ferrule     | Brass    | Gold 4 Over Nickel-Phosphorus Alloy 80 Over Copper 20 |
| Contact Pin | Brass    | Gold 4 Over Nickel-Phosphorus Alloy 80 Over Copper 20 |
| Insulator   | Teflon   |                                                       |
| Barrel      | Brass    | Gold 4 Over Nickel-Phosphorus Alloy 80 Over Copper 20 |
| Body        | Brass    | Gold 4 Over Nickel-Phosphorus Alloy 80 Over Copper 20 |

Weight: 1.48 g

Suitable Cables: RD316, RD316-FEP

This part number complies with RoHS.

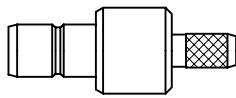
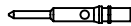
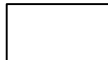
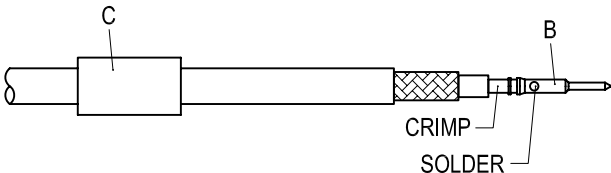
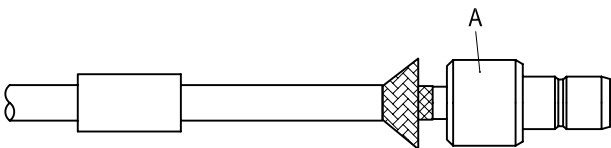
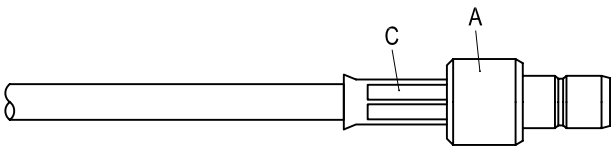
Notice: JYEBAO reserves the right to make modifications deemed appropriate.

| SMB                                                                                                                                                                                                                                                                                                                                                                                                                                                         | SMB8100D-0316 |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------|
| <div>Interface</div> MIL-STD-348B<br>Mechanically compatible with SMS                                                                                                                                                                                                                                                                                                                                                                                       |               |
| <div>Electrical Data</div> Impedance 50Ω<br>Frequency range DC to 4GHz<br>VSWR $\leq 1.3$ (DC to 4GHz)<br>Insertion loss $\leq 0.1 \times \sqrt{f(\text{GHz})}$ dB<br>Insulation resistance $\geq 10000\text{M}\Omega$<br>Contact resistance inner conductor $\leq 5\text{m}\Omega$<br>Contact resistance outer conductor $\leq 2.5\text{m}\Omega$<br>Dielectric withstanding voltage (at sea level) 1000 V rms<br>Working Voltage (at sea level) 335 V rms |               |
| <div>Mechanical Data</div> Disengagement force 1.8 to 14.2 lbs<br>Engagement force 1.8 to 14.2 lbs<br>Contact captivation-axial $\geq 4$ lbs<br>Durability (mating) $\geq 500$                                                                                                                                                                                                                                                                              |               |
| <div>Environmental Data</div> Temperature range -65°C to +165°C<br>Thermal shock MIL-STD-202, Method 107, Condition B<br>Moisture resistance MIL-STD-202, Method 106<br>Corrosion MIL-STD-202, Method 101, Condition B<br>RoHS Compliant                                                                                                                                                                                                                    |               |
| <div>Tooling</div> Crimping tool CRT-1 or CRT-2<br>Crimp insert INSERT-A                                                                                                                                                                                                                                                                                                                                                                                    |               |

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

# JYE BAO CO., LTD.

## CABLE ASSEMBLY INSTRUCTION

|                                                                                                                     |  |                                                                                   |                                                                                                                                                                              |                                                                                     |   |
|---------------------------------------------------------------------------------------------------------------------|--|-----------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|---|
| SMB8100D-0316                                                                                                       |  | DATE                                                                              | 2017/03/27                                                                                                                                                                   | REV                                                                                 | — |
| A                                                                                                                   |  | B                                                                                 |                                                                                                                                                                              | C                                                                                   |   |
|                                    |  |  |                                                                                                                                                                              |  |   |
| BODY                                                                                                                |  | 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.<br>(USE SQUARE 0.70mm/0.028inch SECTION OF INSERT-A 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 3.3mm/0.130inch HEX SECTION OF INSERT-A)                                                          |                                                                                     |   |
| This part number complies with RoHS.<br>Notice: JYEBAO reserves the right to make modifications deemed appropriate. |  |                                                                                   |                                                                                                                                                                              |                                                                                     |   |
| APPROVED                                                                                                            |  | CHECKED                                                                           |                                                                                                                                                                              | DRAWING                                                                             |   |
|                                                                                                                     |  |                                                                                   |                                                                                                                                                                              | Albert                                                                              |   |

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S11

