

SMA9105S-0316	SMA Reverse Polarity Jack Crimp Bulkhead; IP67 Mated For RG174,RG188,RG316; 3.6GHz VSWR 1.2	50Ω																								
The technical drawing includes three views of the SMA9105S-0316 connector: Front View: Shows a hexagonal base with concentric circles representing the contact area. Dimensions include 5.7 [0.224] for the inner circle, 8 HEX [0.315 HEX] for the middle ring, and 11 HEX [0.433 HEX] for the outer hexagon. Side View: A cross-sectional view showing the internal components: a gasket, lock washer, hex nut, and ferrule. Key dimensions include overall length 20 [0.787], thread section 1/4-36UNS-2A with diameter Ø10.2 [Ø.402], and mating interface dimensions like 11 [0.433] and 2 [0.079]. It also specifies IP67 MATED and maximum lengths of 2.7 MAX. [0.106 MAX.] and 2.35 [Ø.093] for the ferrule. MOUNTING HOLE: A circular detail with a diameter of Ø6.5 [Ø.256] and a width of 6 [0.236].																										
<table border="1"><thead><tr><th>Parts</th><th>Material</th><th>Plating (Micro-inch)</th></tr></thead><tbody><tr><td>Body</td><td>Stainless Steel</td><td>Passivated</td></tr><tr><td>Insulator</td><td>Teflon</td><td></td></tr><tr><td>Contact Pin</td><td>Brass</td><td>Gold 4 Over Nickel-Phosphorus Alloy 80 Over Copper 20</td></tr><tr><td>Gasket</td><td>Silicone</td><td></td></tr><tr><td>Lock Washer</td><td>Stainless Steel</td><td>Passivated</td></tr><tr><td>Hex Nut</td><td>Stainless Steel</td><td>Passivated</td></tr><tr><td>Ferrule</td><td>Brass</td><td>Tin-Zinc-Copper-Alloy 100 Over Copper 50</td></tr></tbody></table>	Parts	Material	Plating (Micro-inch)	Body	Stainless Steel	Passivated	Insulator	Teflon		Contact Pin	Brass	Gold 4 Over Nickel-Phosphorus Alloy 80 Over Copper 20	Gasket	Silicone		Lock Washer	Stainless Steel	Passivated	Hex Nut	Stainless Steel	Passivated	Ferrule	Brass	Tin-Zinc-Copper-Alloy 100 Over Copper 50		
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Suitable Cables: RG174, RG188, RG316, RG316-FEP																										

This part number complies with RoHS.

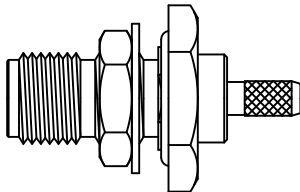
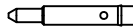
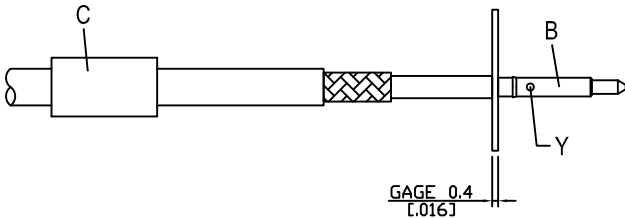
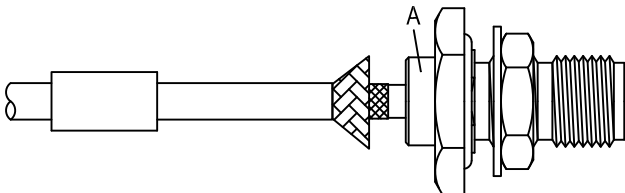
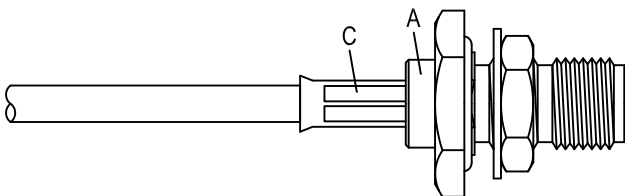
Notice: JYBAO reserves the right to make modifications deemed appropriate.

SMA	SMA9105S-0316
Interface Per JYEBAO SMA Reverse Polarity derived from MIL-STD-348B	
Electrical Data Impedance 50Ω Frequency range DC to 3.6GHz VSWR ≤ 1.2 (DC to 3.6GHz) Insertion loss $\leq 0.04 \times \sqrt{f(\text{GHz})}$ dB Insulation resistance $\geq 5000\text{M}\Omega$ Contact resistance inner conductor $\leq 3\text{m}\Omega$ Contact resistance outer conductor $\leq 2\text{m}\Omega$ Dielectric withstanding voltage (at sea level) 750 V rms Working voltage (at sea level) 250 V rms	
Mechanical Data Recommended coupling nut torque 7 to 9.5 inch lbs Coupling proof torque 15 inch lbs Contact Captivation-axial ≥ 6.1 lbs Durability (mating) ≥ 500	
Environmental Data 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	
Tooling Soldering gauge ST-0.4 Crimping tool CRT-1 or CRT-2 Crimp insert INSERT-A	

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JYE BAO CO., LTD.

CABLE ASSEMBLY INSTRUCTION

SMA9105S-0316		DATE	2020/04/08	REV	—
A		B		C	
					
BODY + GASKET + HEX NUT + LOCK WASHER		CONTACT PIN		FERRULE	
DIAGRAM			ASSEMBLY INSTRUCTION		
			Step 1: STRIP AS SHOWN.		
			Step 2: SLIDE FERRULE " C " OVER CABLE. Step 3: PUT 0.4 MM GAGE IN PLACE, INSERT CABLE'S CENTER CONDUCTOR INTO CENTER PIN " B " AND SOLDER OR CRIMP IN " Y ". (USE SQUARE 0.98mm/0.039inch 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. (USE 3.3mm/0.130inch HEX SECTION OF INSERT-A)		
This part number complies with RoHS. Notice: JYEBAO reserves the right to make modifications deemed appropriate.					
APPROVED		CHECKED		DRAWING	
				Albert	

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