

SMA8305-0085

SMA Jack Solder Bulkhead; IP67 Mated
For RG405; 27GHz VSWR 1.2

50Ω

Technical drawing of the SMA Jack Solder Bulkhead showing three views: front view, side view, and mounting hole view.

Front View: Shows an 8 HEX (.315 HEX) outer diameter and a 5.75 (.266) inner diameter.

Side View: Shows the assembly with dimensions: 8 HEX (.315 HEX) for the nut, 1/4-36UNS-2A for the thread, 10.5 (.413) for the body length, 2.2 (.087) for the pin length, 19 (.748) for the total length, and 11 HEX (.433 HEX) for the pin diameter. A GASKET is shown between the nut and the body. The IP67 Mated dimension is 2.2 MAX (.087 MAX).

Mounting Hole View: Shows a circular hole with a diameter of 6 (.236) and a depth of 6.5 (.256).

MOUNTING HOLE :

Technical drawing of the mounting hole showing a circular hole with a diameter of 6 (.236) and a depth of 6.5 (.256).

Parts	Material	Plating (Micro-inch)
Hex Nut	Brass	Gold 4 Over Nickel-Phosphorus Alloy 80 Over Copper 20
Lock Washer	Brass	Gold 4 Over Nickel-Phosphorus Alloy 80 Over Copper 20
Gasket	Silicon	
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

Weight: 2.88 g

Suitable Cables: Semi-rigid.085

This part number complies with RoHS.

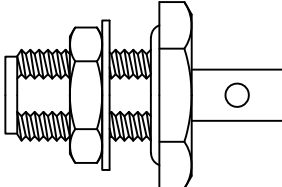
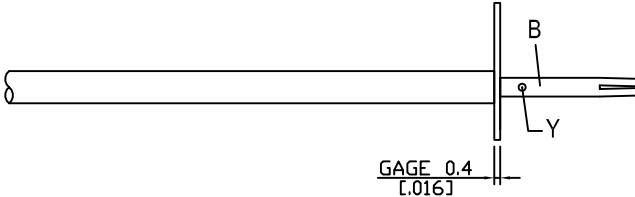
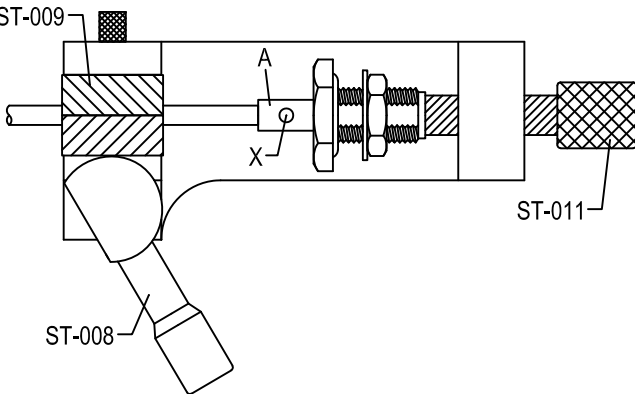
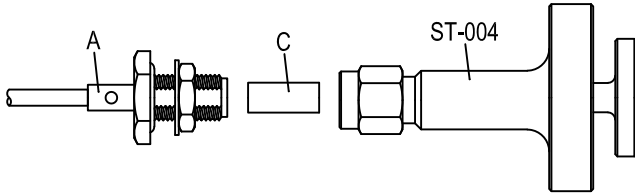
Notice: JYEBAO reserves the right to make modifications deemed appropriate.

SMA	SMA8305-0085
Interface MIL-STD-348B Mechanically compatible with 2.92 & 3.5	
Electrical Data Impedance 50Ω Frequency range DC to 27GHz VSWR ≤ 1.2 (DC to 27GHz) 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) 1000 V rms Working voltage (at sea level) 335 V rms	
Mechanical Data Recommended coupling nut torque 4 inch lbs Coupling proof torque 5.3 inch lbs Contact Captivation-axial ≥ 6.1 lbs Durability (mating) ≥ 100	
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 Locator tool ST-011 Dielectric insertion tool ST-004 Soldering fixture ST-008 Insert for .085inch semi-rigid cable ST-009	

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

JYE BAO CO., LTD.

CABLE ASSEMBLY INSTRUCTION

SMA8305-0085		DATE	2020/04/11	REV	A
A		B	C		
					
BODY + HEX NUT + LOCK WASHER + GASKET		CONTACT PIN	INSULATOR		
DIAGRAM		ASSEMBLY INSTRUCTION			
		Step 1: STRIP AS SHOWN.			
		Step 2: PUT 0.4 MM GAGE ST-0.4 IN PLACE, INSERT CABLE'S CENTER CONDUCTOR INTO CENTER PIN " B " AND SOLDER IN " Y ".			
		Step 3: USE SOLDERING FIXTURE " ST-008 ", INSERT TOOL " ST-009 " AND LOCATOR TOOL " ST-011 " TO FIX THE CONNECTOR. SOLDER IN " X ".			
		Step4: USE DIELECTRIC INSERTION TOOL " ST-004 " TO INSERT THE TEFLON " C ".			
This part number complies with RoHS. Notice: JYEBAO reserves the right to make modifications deemed appropriate.					
APPROVED		CHECKED		DRAWING	
				Albert	

SMA8305-0085

S11

