

SMA8300-0023/NM

SMA Jack Solder
For .023 semi-rigid, UT 20; 11GHz VSWR 1.2 50Ω

Technical drawing of the SMA Jack Solder connector. The drawing shows a side view of the connector with the following dimensions and features:

- Thread: 1/4-36UNS-2A
- Insulator length: 7.2 (.283)
- Total length: 12.5 (.492)
- Hex length: 6.35 HEX (.250 HEX)
- Hex diameter: Ø0.7 (Ø.028)
- Pin diameter: Ø2 (Ø.079)
- Feature: EPOXY CAPTIVATION (indicated by a circle and arrow)

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

Suitable Cables:UT-20

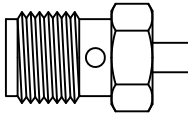
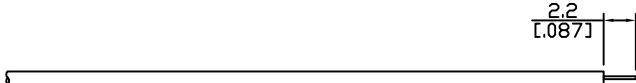
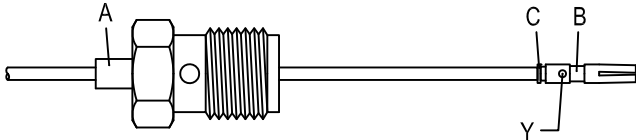
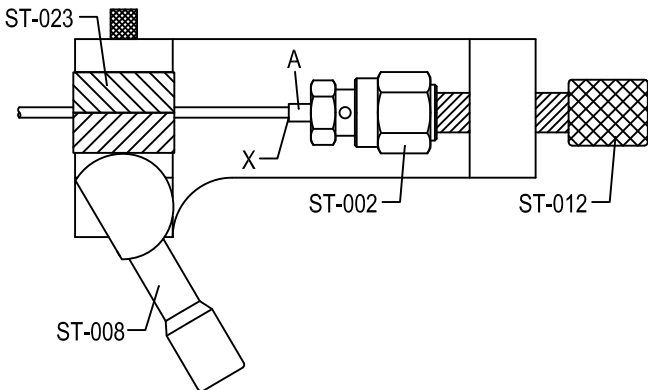
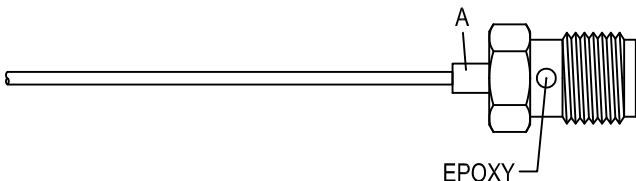
This part number complies with RoHS.
Notice: JYEBAO reserves the right to make modifications deemed appropriate.

SMA	SMA8300-0023/NM
Interface MIL-STD-348B Mechanically compatible with 2.92 & 3.5	
Electrical Data Impedance 50Ω Frequency range DC to 11GHz VSWR ≤ 1.2 (DC to 11GHz) 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 $\leq 2\text{m}\Omega$	
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 fixture ST-008 Insert for .023inch semi-rigid cable ST-023 Locator tool ST-002, ST-012	

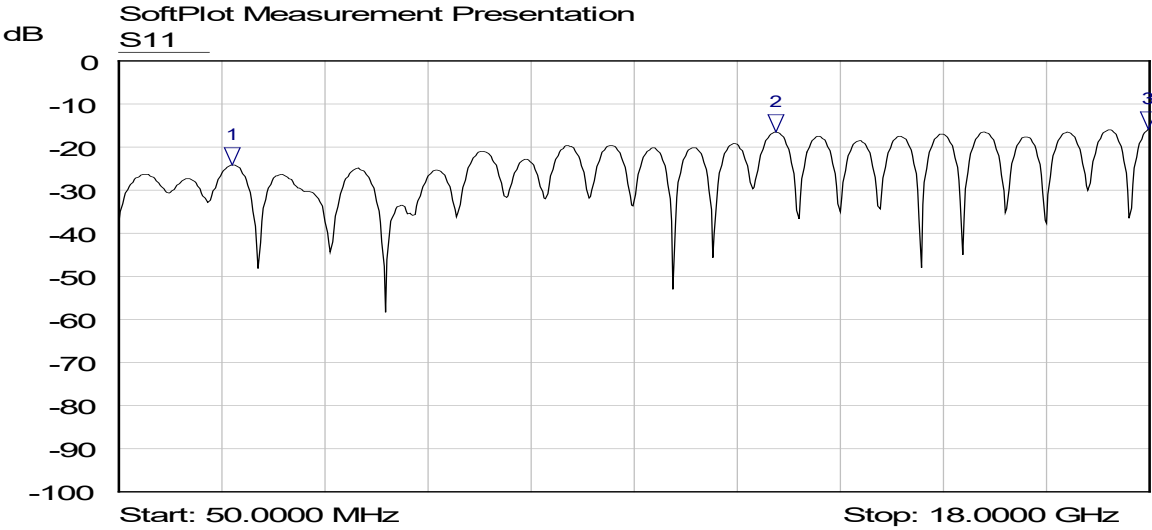
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JYE BAO CO., LTD.

CABLE ASSEMBLY INSTRUCTION

SMA8300-0023/NM		DATE	2020/10/22	REV	A
A		B	C		
					
BODY		CONTACT PIN	INSULATOR		
DIAGRAM		ASSEMBLY INSTRUCTION			
		Step 1: STRIP AS SHOWN.			
		Step 2: SLIDE CONNECTOR " A " OVER CABLE. Step 3: SLIDE PREPARED CABLE INTO INSULATOR " C ". Step 4: PUT CONTACT PIN " B " ON CENTER CONDUCTOR AND SOLDER IN " Y ".			
		Step 4: USE SOLDERING FIXTURE " ST-008 ", INSERT TOOL " ST-023 " AND LOCATOR TOOL " ST-002 " 、 " ST-012 "TO FIX THE CONNECTOR. SOLDER IN " X ".			
		Step 5: POUR EPOXY INTO CONNECTOR.			
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APPROVED		CHECKED		DRAWING	
				Albert	

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Mkr	Trace	X-Axis	Value	Notes
1 ▽	S11	2.0285 GHz	-24.10 dB	
2 ▽	S11	11.5015 GHz	-16.49 dB	
3 ▽	S11	17.9767 GHz	-15.83 dB	