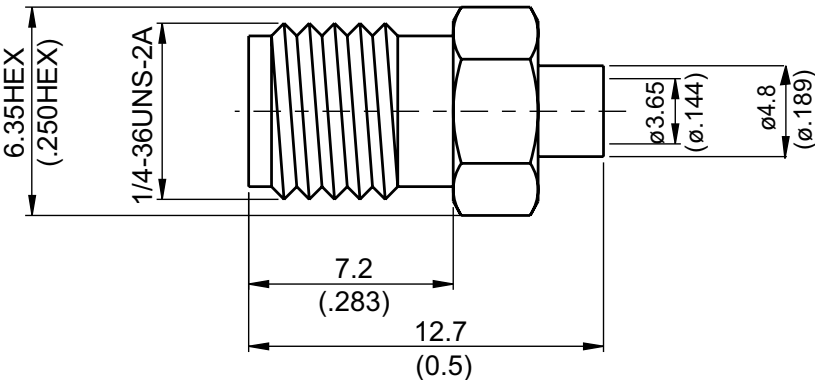


SMA8300SG-0141

**SMA Jack Solder For RG402;
18GHz VSWR 1.2**

50Ω



Parts	Material	Plating (Micro-inch)
Contact Pin	Beryllium Copper	Gold 4 Over Nickel-Phosphorus Alloy 80 Over Copper 20
Insulator	Teflon	
Body	Stainless Steel	Gold 5 over Nickel 50 over Copper 50

Suitable Cables: Semi-rigid .141

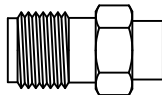
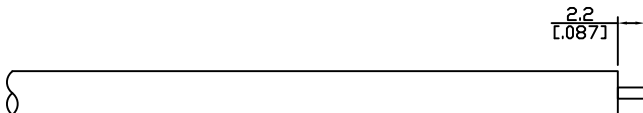
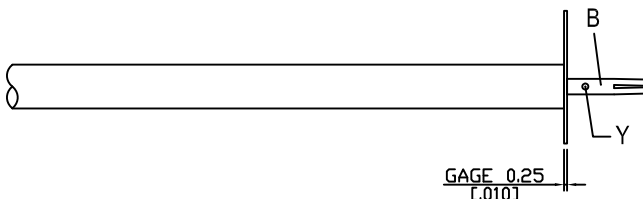
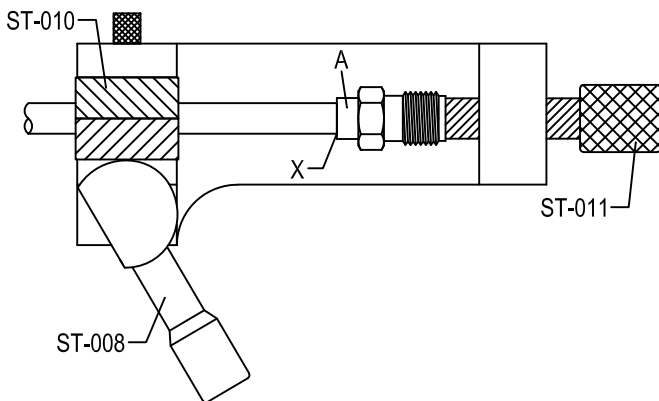
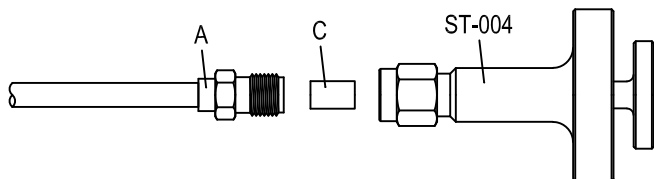
This part number complies with RoHS.
Notice: JYEBAO reserves the right to make modifications deemed appropriate.

SMA	SMA8300SG-0141
Interface MIL-STD-348B Mechanically compatible with 2.92 & 3.5	
Electrical Data Impedance 50Ω Frequency range DC to 18GHz VSWR ≤ 1.2 (DC to 18GHz) 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) 1500 V rms Working voltage (at sea level) 500 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-005 Soldering fixture ST-008 Insert for .141 semi-rigid cable ST-010 Locator tool ST-011 Dielectric insertion tool ST-004	

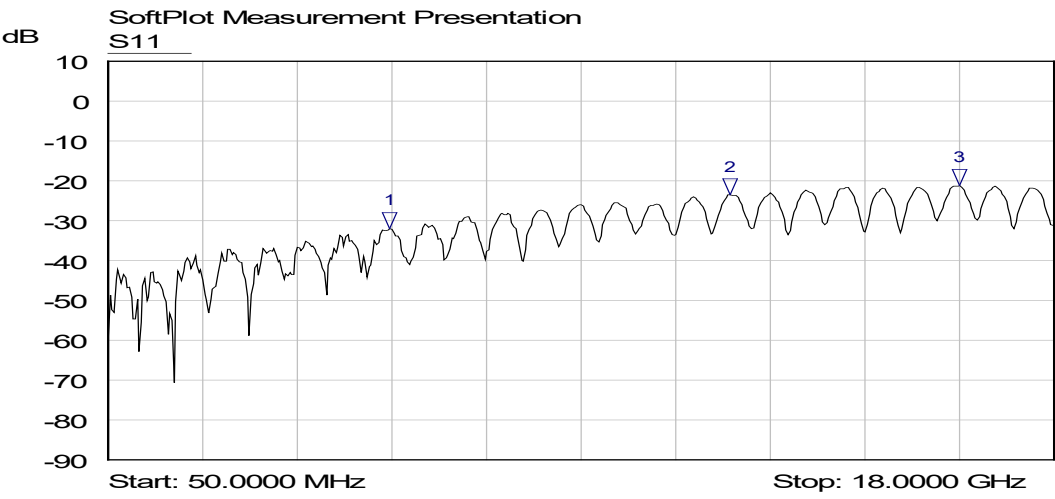
Notice: JYEBAO reserves the right to make modifications deemed appropriate.

JYE BAO CO., LTD.

CABLE ASSEMBLY RECOMMENDATION

SMA8300SG-0141		DATE	2020/06/10	REV	-
A		B		C	
					
BODY		CONTACT PIN		INSULATOR	
DIAGRAM			ASSEMBLY INSTRUCTION		
			Step 1: STRIP AS SHOWN.		
			Step 2: PUT 0.25 MM GAGE 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-010 " AND LOCATOR TOOL " ST-011 " TO FIX THE CONNECTOR. SOLDER IN " X ".		
			Step 4: 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	

SMA8300SG-0141



Mkr	Trace	X-Axis	Value	Notes
1 ▾	S11	5.4012 GHz	-32.08 dB	
2 ▾	S11	11.8519 GHz	-23.45 dB	
3 ▾	S11	16.2135 GHz	-21.25 dB	