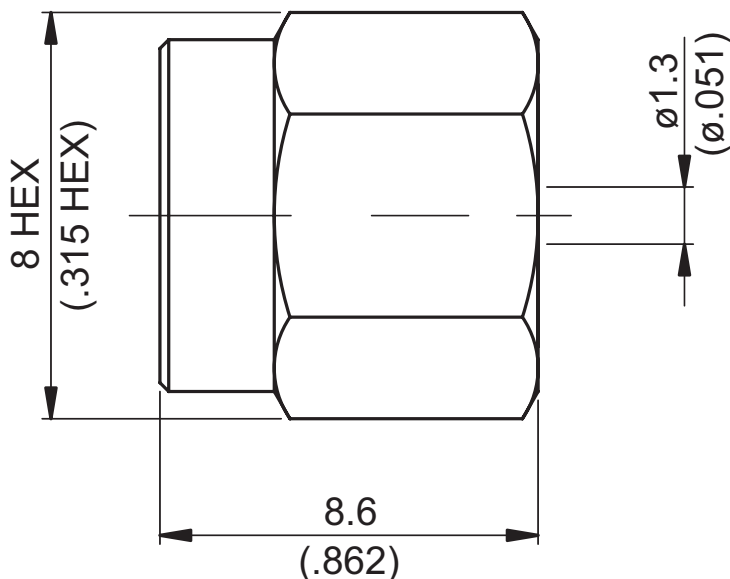


SMA33VT-0047	SMA Plug Solder For .047 semi-rigid; 18GHz VSWR 1.2, 27GHz VSWR 1.35	50Ω																					
																							
<table><tr><th>Parts</th><th>Material</th><th>Plating (Micro-inch)</th></tr><tr><td>Retainer Ring</td><td>Beryllium Copper</td><td>Tin-Zinc-Copper-Alloy 100 Over Copper 50</td></tr><tr><td>Gasket</td><td>Silicon</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>Insulator</td><td>Teflon</td><td></td></tr><tr><td>Body</td><td>Brass</td><td>Gold 4 Over Nickel-Phosphorus Alloy 80 Over Copper 20</td></tr><tr><td>Coupling Nut</td><td>Brass</td><td>Gold 4 Over Nickel-Phosphorus Alloy 80 Over Copper 20</td></tr></table>			Parts	Material	Plating (Micro-inch)	Retainer Ring	Beryllium Copper	Tin-Zinc-Copper-Alloy 100 Over Copper 50	Gasket	Silicon		Contact Pin	Brass	Gold 4 Over Nickel-Phosphorus Alloy 80 Over Copper 20	Insulator	Teflon		Body	Brass	Gold 4 Over Nickel-Phosphorus Alloy 80 Over Copper 20	Coupling Nut	Brass	Gold 4 Over Nickel-Phosphorus Alloy 80 Over Copper 20
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Weight: 2.51 g Suitable Cables: Semi-rigid.047																							

This part number complies with RoHS.

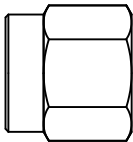
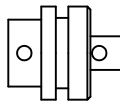
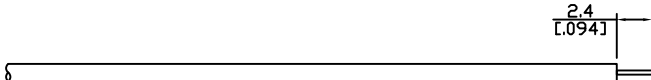
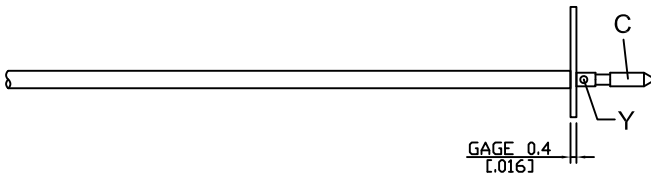
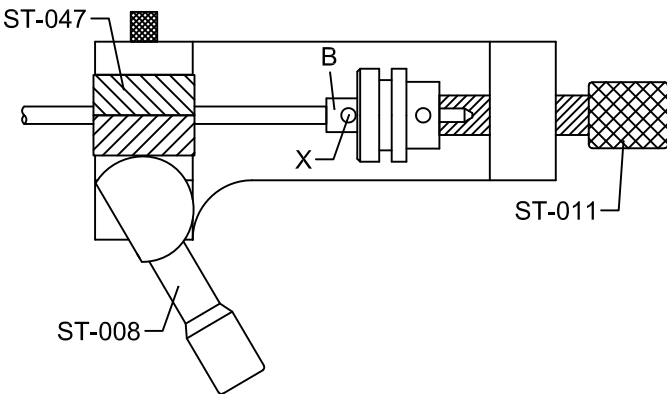
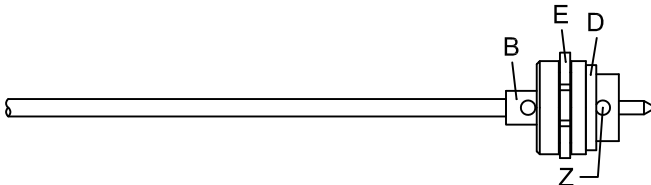
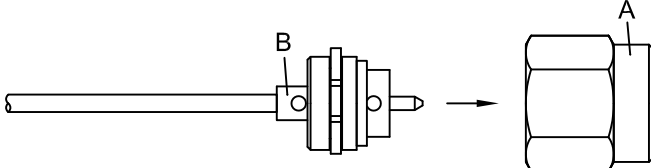
Notice: JYEBAO reserves the right to make modifications deemed appropriate.

SMA		SMA33VT-0047	
Interface			
MIL-STD-348B			
Mechanically compatible with		2.92 & 3.5	
Electrical Data			
Impedance		50Ω	
Frequency range		DC to 27GHz	
VSWR		≤ 1.2 (18GHz); ≤ 1.35 (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	
Coupling nut retention force		≥ 60.7 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	Soldering fixture	ST-008
Locator tool	ST-011	Insert for .047 semi-rigid cable	ST-047

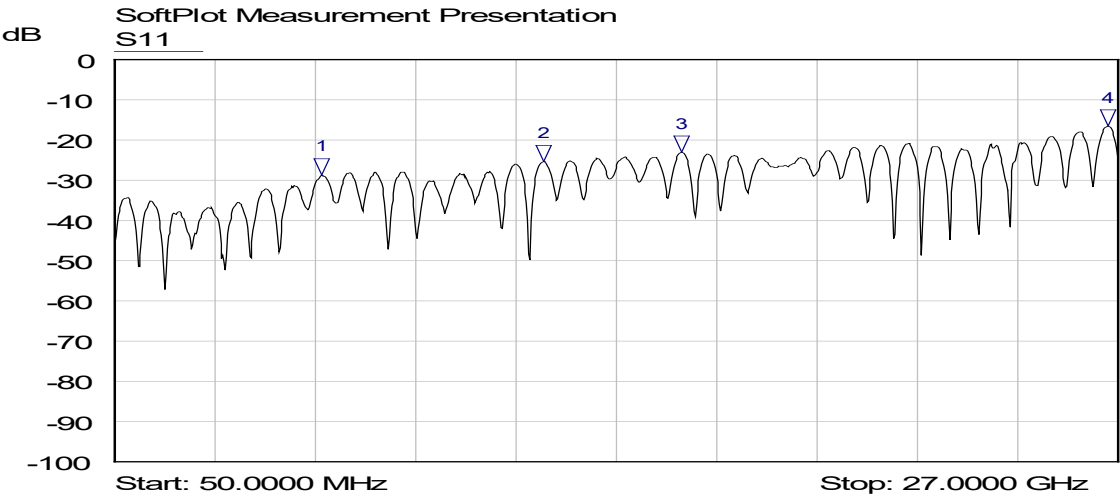
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JYE BAO CO., LTD.

CABLE ASSEMBLY RECOMMENDATION

SMA33VT-0047		DATE	2015/12/15	REV	—
A	B	C	D	E	
					
COUPLING NUT	BODY	CONTACT PIN	GASKET	RETAINER RING	
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 "C" AND SOLDER IN "Y".		
			Step 3: USE SOLDERING FIXTURE "ST-008", INSERT TOOL "ST-047" AND LOCATOR TOOL "ST-011" TO FIX THE CONNECTOR. SOLDER IN "X".		
			Step 4: CLIP RETAINER RING "E" AND GASKET "D" ONTO THE BACK OF CONNECTOR BODY "B". ADD EPOXY IN "Z".		
			Step 5: SLIDE BODY "B" INTO THE COUPLING NUT "A".		
This part number complies with RoHS. Notice: JYEBAO reserves the right to make modifications deemed appropriate.					
APPROVED		CHECKED		DRAWING	
				Albert	

SMA33VT-0047



Mkr	Trace	X-Axis	Value	Notes
1 ▽	S11	5.5959 GHz	-28.74 dB	
2 ▽	S11	11.5615 GHz	-25.31 dB	
3 ▽	S11	15.2787 GHz	-23.08 dB	
4 ▽	S11	26.7302 GHz	-16.55 dB	