

SMA33AT-0405/W

SMA Plug Solder With Anti Torque Design
For Flexible RG405; 27GHz VSWR 1.2*

50Ω

Anti Torque Design

Technical drawing of the SMA33AT-0405/W connector. The drawing shows a side view of the connector assembly. Key dimensions and parts are labeled:

- Overall length: 16.05 [6.32]
- Barrel length: 8[.315] HEX
- Hex nut length: 6.35[.250] HEX
- Threaded section length: 2.3 [Ø.091]
- Threaded section diameter: Ø2.8 [Ø.110]
- Outer diameter of the barrel: Ø3.5 [Ø.138]

*Using 5002

Parts	Material	Plating (Micro-inch)
Barrel	Brass	Tin-Zinc-Copper-Alloy 100 Over Copper 50
Contact Pin	Brass	Gold 4 Over Nickel-Phosphorus Alloy 80 Over Copper 20
Retainer Ring	Beryllium Copper	Tin-Zinc-Copper-Alloy 100 Over Copper 50
Gasket	Silicone	
Insulator	Teflon	
Body	Brass	Tin-Zinc-Copper-Alloy 100 Over Copper 50
Coupling Nut	Brass	Tin-Zinc-Copper-Alloy 100 Over Copper 50

Suitable Cables: SS405, 5002, 5002LD, T-Flex405, Multibend 405; Multiflex86;
.85SRF-W-P-50-F

This part number complies with RoHS.

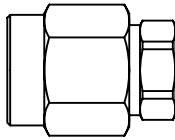
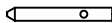
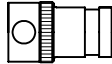
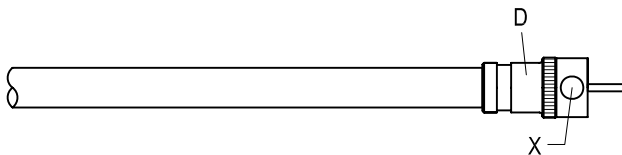
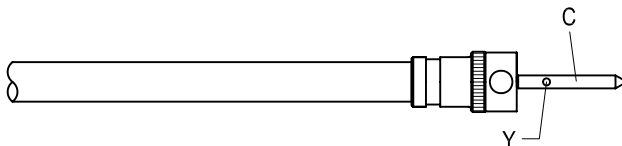
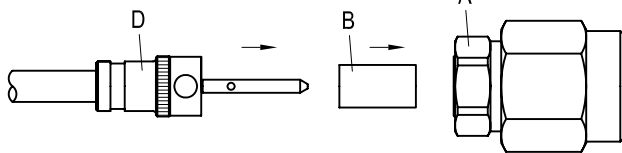
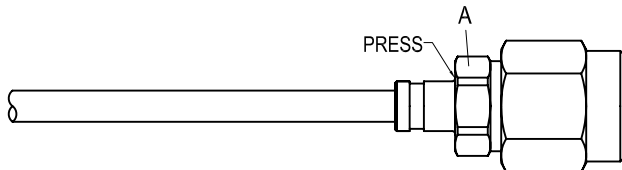
Notice: JYBAO reserves the right to make modifications deemed appropriate.

SMA	SMA33AT-0405/W
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) 750 V rms Working voltage (at sea level) 250 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	

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JYE BAO CO., LTD.

CABLE ASSEMBLY INSTRUCTION

SMA33AT-0405/W		DATE	2017/07/03	REV	—
A	B	C	D		
					
BODY	INSULATOR	CONTACT PIN	BARREL		
DIAGRAM		ASSEMBLY INSTRUCTION			
		Step 1: STRIP AS SHOWN.			
		Step 2: SLIDE BARREL "D" IN PLACE AND SOLDER IN "X".			
		Step 3: PUT PIN "C" ON CENTER CONDUCTOR AND SOLDER IN "Y".			
		Step 4: SLIDE INSULATOR "B" AND BARREL "D" INTO CONNECTOR BODY "A".			
		Step 5: PRESS TO FIX THE CONNECTOR "A".			
This part number complies with RoHS. Notice: JYEBAO reserves the right to make modifications deemed appropriate.					
APPROVED		CHECKED		DRAWING	
					

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