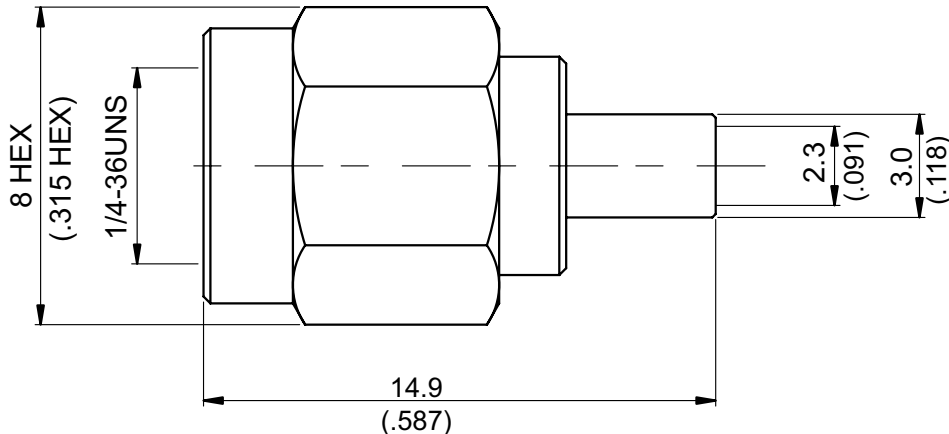


SMA3100A-0178

SMA Plug Crimp For RG178,RG178-FEP
5GHz VSWR 1.2

50Ω



Technical drawing of the SMA Plug Crimp connector showing dimensions:

- 8 HEX (.315 HEX)
- 1/4-36UNS
- 14.9 (.587)
- 2.3 (.091)
- 3.0 (.118)

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

Weight: 3.42 g

Suitable Cables: RG178, RG196, RG178-FEP

This part number complies with RoHS.

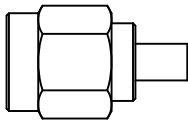
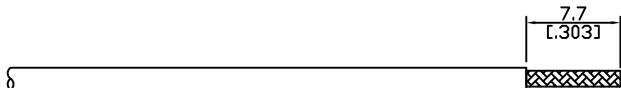
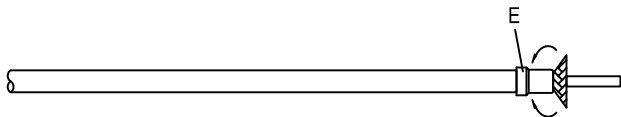
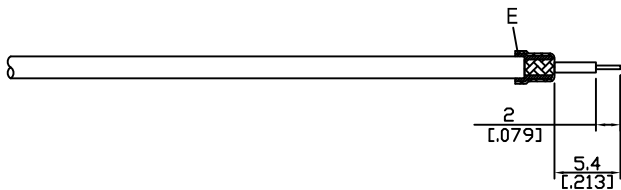
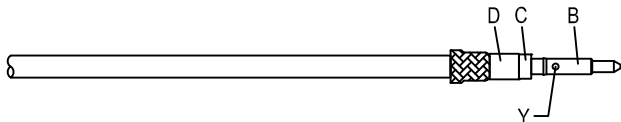
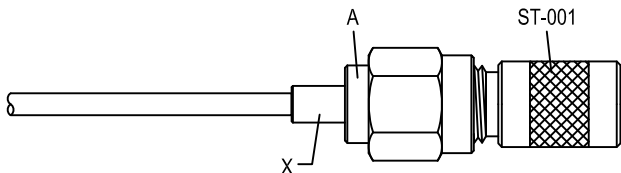
Notice: JYEBAO reserves the right to make modifications deemed appropriate.

SMA	SMA3100A-0178
Interface MIL-STD-348B Mechanically compatible with 2.92 & 3.5	
Electrical Data Impedance 50Ω Frequency range DC to 5GHz VSWR ≤ 1.2 (DC to 5GHz) 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 Crimping tool CRT-1 or CRT-2 Crimp insert INSERT-A Locator tool ST-001	

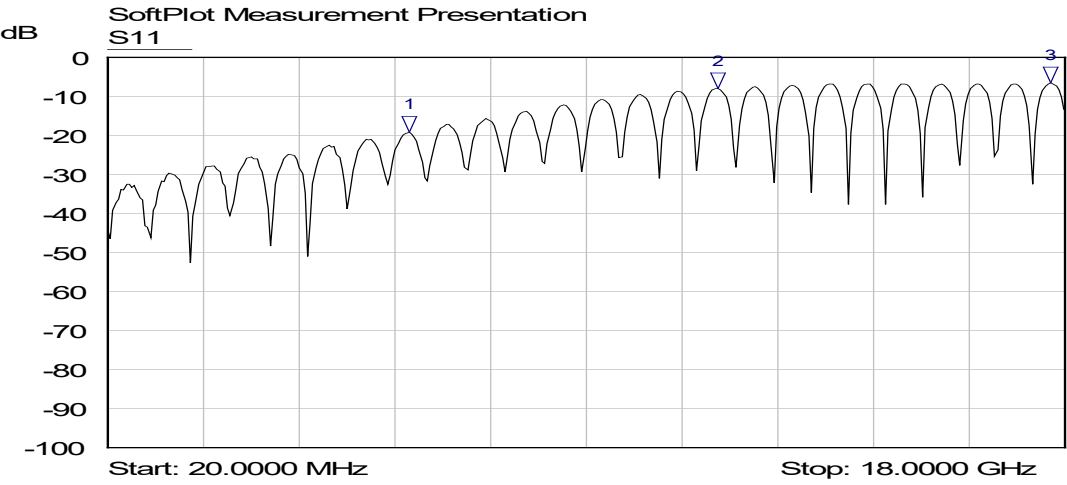
Notice: JYEBAO reserves the right to make modifications deemed appropriate.

JYE BAO CO., LTD.

CABLE ASSEMBLY RECOMMENDATION

SMA3100A-0178		DATE	2015/09/25	REV	—
A	B	C	D	E	
					
BODY	CONTACT PIN	INSULATOR	FERRULE	FERRULE	
DIAGRAM		ASSEMBLY INSTRUCTION			
		Step 1: STRIP AS SHOWN.			
		Step 2: SLIDE FERRULE " E " OVER CABLE. Step 3: WRAP THE BRAIDING OVER " E ". Step 4: USE DIAGONAL PLIERS CUT AWAY ANY EXCESS BRAIDING OF THE FERRULE.			
		Step 5: STRIP AS SHOWN.			
		Step 6: SLIDE PREPARED CABLE INTO FERRULE " D " AND INSULATOR " C ". Step 7: PUT CONTACT PIN " B " ON CENTER CONDUCTOR AND SOLDER OR CRIMP IN " Y ". (USE SQUARE 0.98mm/0.039inch SECTION OF INSERT-A IF CRIMPED)			
		Step 8: USE LOCATOR TOOL " ST-001 " TO FIX THE INSULATOR. Step 9: PUT PREPARED CABLE INTO CONNECTOR BODY " A " AND CRIMP IN " X ". (USE 2.55mm/0.100inch HEX SECTION OF INSERT-A)			
This part number complies with RoHS. Notice: JYEBAO reserves the right to make modifications deemed appropriate.					
APPROVED		CHECKED		DRAWING	
				Albert	

SMA3100A-0178



Mkr	Trace	X-Axis	Value	Notes
1 ▽	S11	5.6742 GHz	-19.19 dB	
2 ▽	S11	11.4786 GHz	-7.92 dB	
3 ▽	S11	17.7333 GHz	-6.57 dB	