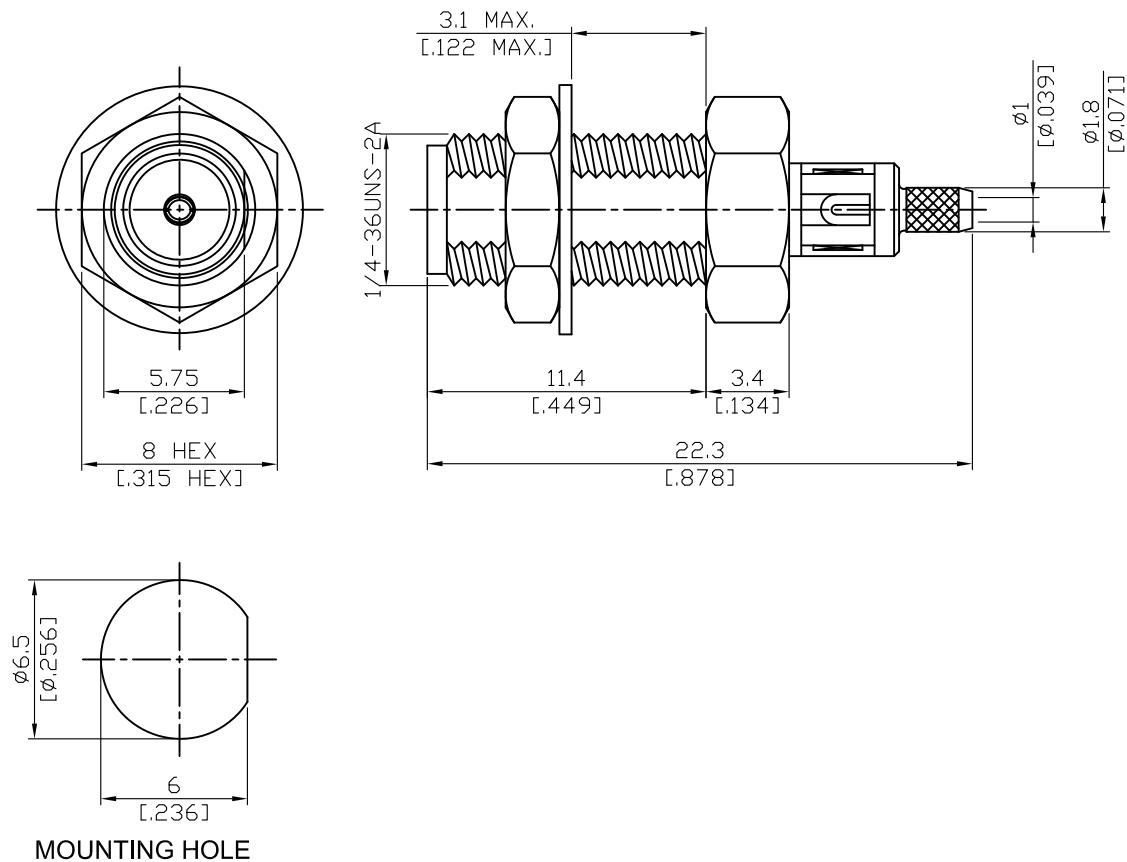


SMA8100LB-0178

SMA Jack Crimp Bulkhead For RG178, RG178-FEP
3GHz VSWR 1.3

50Ω



Parts	Material	Plating (Micro-inch)
Ferrule	Brass	Gold 4 Over Nickel-Phosphorus Alloy 80 Over Copper 20
Cover	Brass	Gold 4 Over Nickel-Phosphorus Alloy 80 Over Copper 20
Hex Nut	Brass	Gold 4 Over Nickel-Phosphorus Alloy 80 Over Copper 20
Washer	Brass	Gold 4 Over Nickel-Phosphorus Alloy 80 Over Copper 20
Barrel	Brass	Gold 4 Over Nickel-Phosphorus Alloy 80 Over Copper 20
Contact Pin	Beryllium Copper	Gold 4 Over Nickel-Phosphorus Alloy 80 Over Copper 20
Insulator	Teflon	
Body	Brass	Gold 4 Over Nickel-Phosphorus Alloy 80 Over Copper 20

Suitable Cables: RG178, RG178-FEP

This part number complies with RoHS.

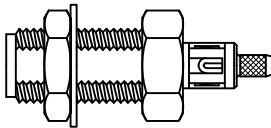
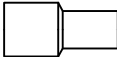
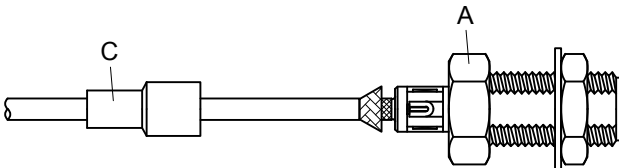
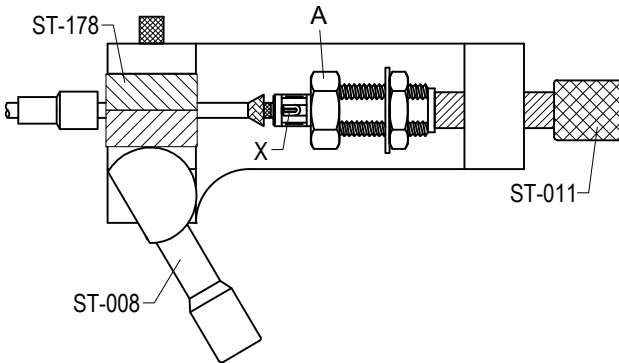
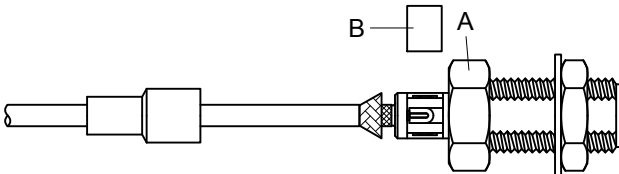
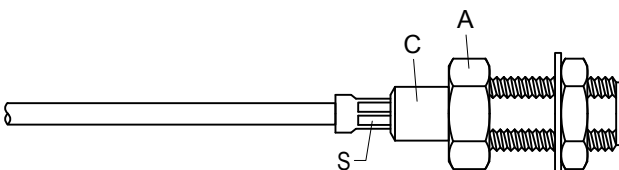
Notice: JYEBAO reserves the right to make modifications deemed appropriate.

SMA		SMA8100LB-0178	
Interface			
MIL-STD-348B			
Mechanically compatible with		2.92 & 3.5	
Electrical Data			
Impedance		50Ω	
Frequency range		DC to 3GHz	
VSWR		≤ 1.3 (DC to 3GHz)	
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	
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	Soldering fixture	ST-008
Crimp insert	INSERT-A	Insert for RG178 cable	ST-178
Locator tool	ST-011		

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

JYE BAO CO., LTD.

CABLE ASSEMBLY INSTRUCTION

SMA8100LB-0178		DATE	2014/04/29	REV	—
A		B	C		
					
BODY + WASHER + HEX NUT		COVER	FERRULE		
DIAGRAM		ASSEMBLY INSTRUCTION			
		Step 1: STRIP AS SHOWN.			
		Step 2: SLIDE FERRULE " C " OVER CABLE. Step 3: LOOSEN BRAIDING AND SLIDE CONNECTOR " A " IN PLACE.			
		Step 4: INSERT PREPARED CABLE INTO CONNECTOR BODY " A " AND USE SOLDERING FIXTURE " ST-008 ", INSERT TOOL " ST-178 " AND LOCATOR TOOL " ST-011 " TO FIX THE CONNECTOR. SOLDER IN " X ".			
		Step 5: PUT COVER " B " ON BODY " A " .			
		Step 6: SLIDE FERRULE " C " TOWARDS THE CONNECTOR " A " AND CRIMP IN " S ". (USE 2.7mm/0.106inch 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	

SMA8100LB-0178

S11

