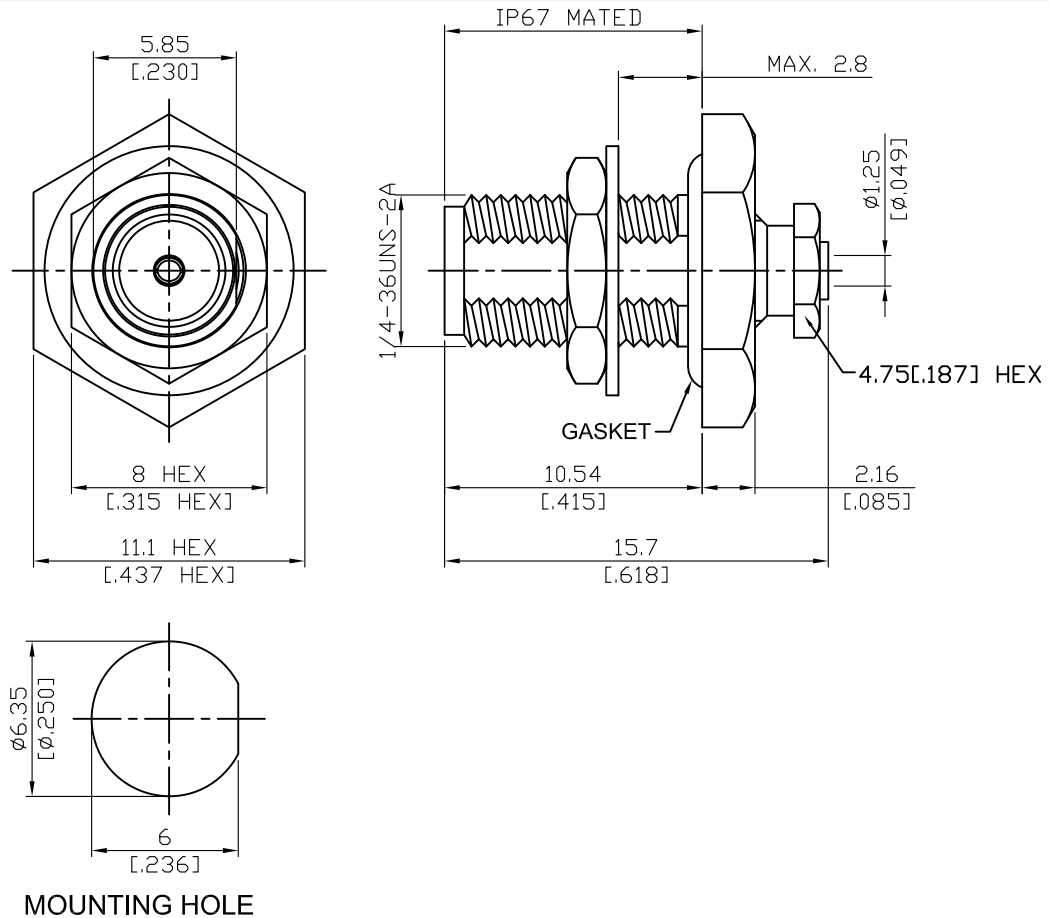


SMA8205S-0047

SMA Jack Bulkhead Solder Clamp, IP67 Mated,
For .047 semi-rigid cable; 18GHz VSWR 1.2

50Ω



Parts	Material	Plating (Micro-inch)
Body	Stainless Steel	Gold 5 over Nickel 50 over Copper 50
Insulator	Teflon	
Contact Pin	Beryllium Copper	Gold 4 Over Nickel-Phosphorus Alloy 80 Over Copper 20
Solder Ferrule	Stainless Steel	Gold 5 over Nickel 50 over Copper 50
Clamp Nut	Stainless Steel	Gold 5 over Nickel 50 over Copper 50
Contact Pin	Brass	Gold 4 Over Nickel-Phosphorus Alloy 80 Over Copper 20
Gasket	Silicone	
Lock Washer	Stainless Steel	Gold 5 over Nickel 50 over Copper 50
Hex Nut	Stainless Steel	Gold 5 over Nickel 50 over Copper 50

Suitable Cables: .047 semi-rigid cable

This part number complies with RoHS.

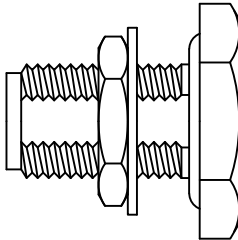
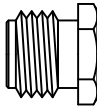
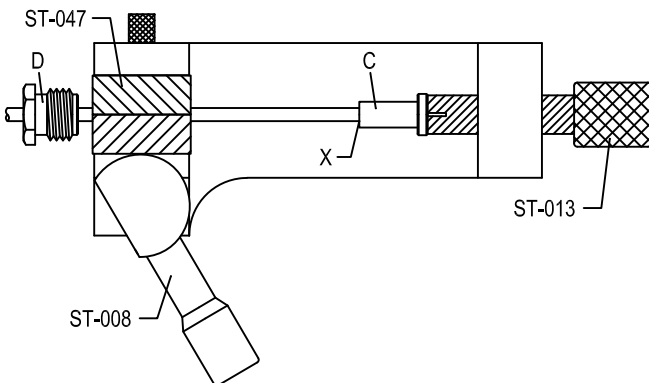
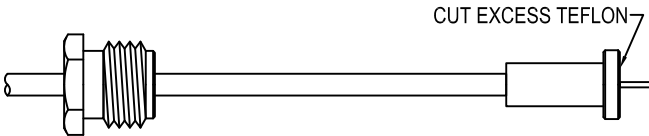
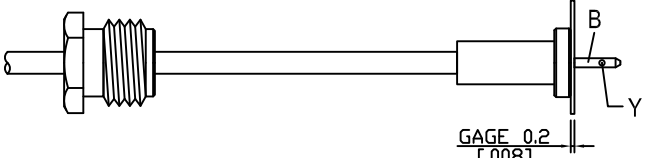
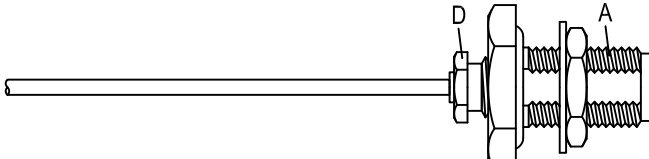
Notice: JYEBAO reserves the right to make modifications deemed appropriate.

SMA	SMA8205S-0047
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) 1000 V rms Working voltage (at sea level) 335 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-0.2 Locator tool ST-013 Soldering fixture ST-008 Insert for .047semi-rigid cable ST-047	

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

JYE BAO CO., LTD.

CABLE ASSEMBLY RECOMMENDATION

SMA8205S-0047		DATE	2021/05/11	REV	—		
A  BODY + GASKET + WASHER + HEX NUT		B  SMALL PIN		C  SOLDER FERRULE		D  CLAMP NUT	
DIAGRAM				ASSEMBLY INSTRUCTION			
				Step 1: STRIP AS SHOWN.			
				Step 2: SLIDE NUT " D " AND FERRULE " C " OVER CABLE. Step 3: USE SOLDERING FIXTURE " ST-008 ", INSERT TOOL " ST-047 " AND LOCATOR TOOL " ST-013 " TO FIX THE SOLDER FERRULE. SOLDER IN " X ".			
				Step 4: CUT AWAY ANY EXCESS TEFLON STICKING OUT OF THE SOLDER FERRULE.			
				Step 5: PUT 0.2 MM GAGE ST-0.2 IN PLACE, INSERT CABLE'S CENTER CONDUCTOR INTO SMALL PIN " C " AND SOLDER IN " Y ".			
				Step 6: FINALLY SCREW NUT " D " ON THE CONNECTOR BODY " A ".			
This part number complies with RoHS. Notice: JYEBAO reserves the right to make modifications deemed appropriate.							
APPROVED		CHECKED		DRAWING			
				Albert			

SMA8205S-0047

