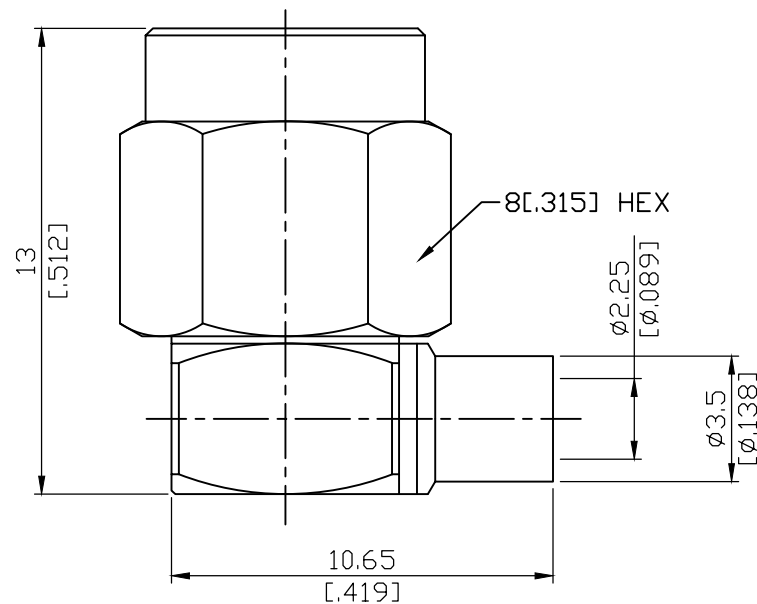


50Ω

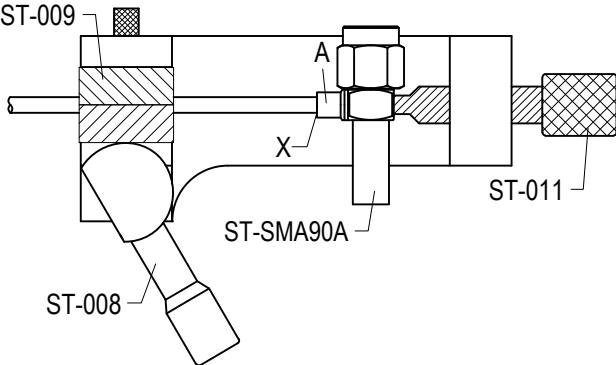
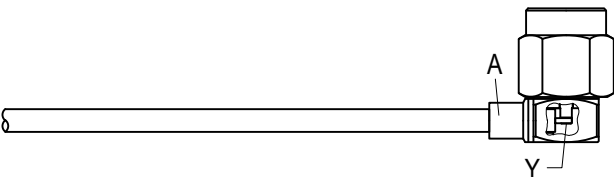
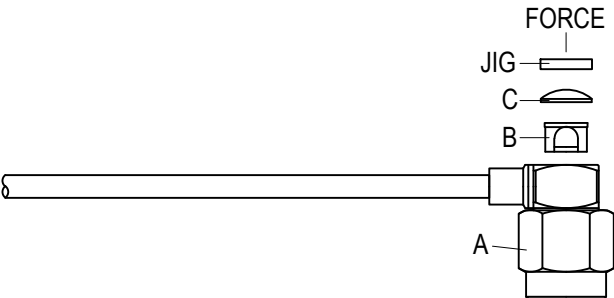


Operating Temp: -65°C/+165°C

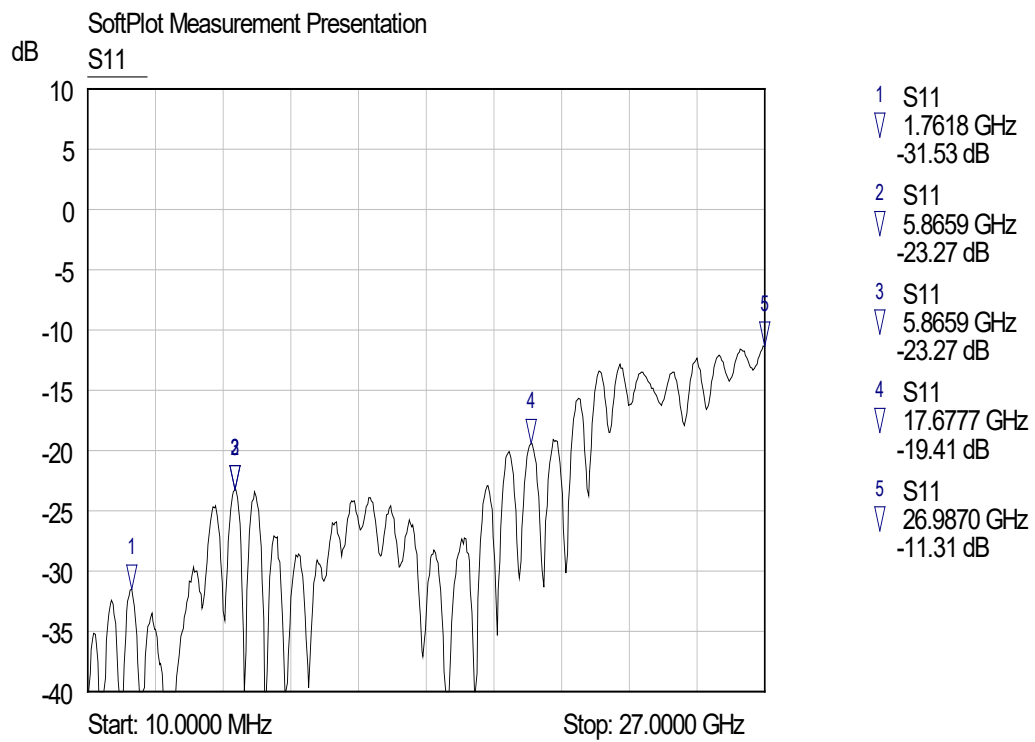
	Material	
Retainer Ring	Beryllium Copper	Tin-Zinc-Copper-Alloy 100 Over Copper 50
Gasket	Silicone	
Contact Pin	Brass	Gold 4 Over Nickel-Phosphorus Alloy 80 Over Copper 20
Insulator	Teflon	
Body	Brass	Gold 4 Over Nickel-Phosphorus Alloy 80 Over Copper 20
Coupling Nut	Stainless Steel	Passivated
Cover	Brass	Gold 4 Over Nickel-Phosphorus Alloy 80 Over Copper 20

Interface	
MIL-STD-348B	
Mechanically compatible with	2.92 & 3.5
Electrical Data	
Impedance	50Ω
Frequency range	DC to 18GHz
VSWR	≤1.3 (DC to 18GHz)
Insertion loss	≤0.04 x √f(GHz) dB
Insulation resistance	≥5000MΩ
Contact resistance inner conductor	≤3mΩ
Contact resistance outer conductor	≤2mΩ
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
Coupling nut retention force	≥60.7 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
Vibration	MIL-STD-202,meth.204, cond D
Shock	MIL-STD-202,meth.213, cond I
Tooling	
Soldering fixture	ST-008
Insert for .085inch semi-rigid cable	ST-009
Locator tool	ST-011
Fixture	ST-SMA90A

CABLE ASSEMBLY INSTRUCTION

SMA33NPC-9085		DATE	2025/08/08	REV	—
A B C  BODY FERRULE COVER					
DIAGRAM			ASSEMBLY INSTRUCTION		
			Step 1: STRIP AS SHOWN.		
			Step 2: USE FIXTURE " ST-SMA90A " TO FIX CABLE. Step 3: USE SOLDERING FIXTURE " ST-008 ", INSERT TOOL " ST-009 " AND LOCATOR TOOL " ST-011 " TO FIX THE CONNECTOR. SOLDER IN " X ".		
			Step 4: SOLDER IN " Y ".		
			Step 5: PRESS ON THE TOP OF " C " AND " B " WITH JIGS.		
APPROVED		CHECKED		DRAWING	
				<i>Albert</i>	

SMA33NPC-9085



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