

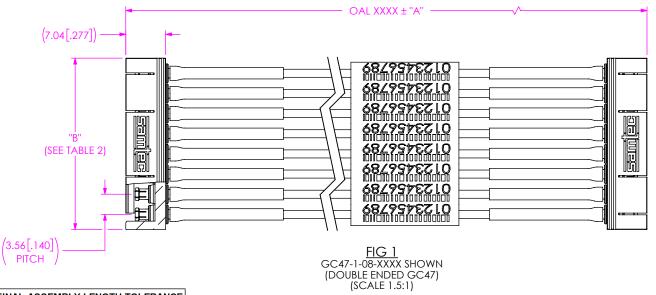
THIS PRODUCT MANUFACTURED WITH LEAD-FREE PROCESSING DO NOT SCALE FROM THIS PRINT

# **DESIGNED & DIMENSIONED** IN MILLIMETERS[INCHES]



NO. OF POSITIONS -02, 04, 06, 08, 10 (SEE TABLE 2)

**END 2 CONNECTOR** (SEE TABLE 4, SHT 2) -BLANK: DOUBLE ENDED GC47



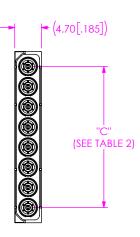
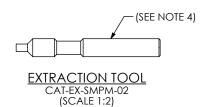


TABLE 1: FINAL ASSEMBLY LENGTH TOLERANCE					
"A"					
+3.0 [.12] / -0.0 [.00]					
+5.0 [.20] / -0.0 [.00]					
+10.0 [.39] / -0.0 [.00]					

TABLE 2						
No OF POSITIONS	"B"	"C"				
-02	8.89 [0.350]	3.56 [0.140]				
-04	16.00 [0.630]	10.67 [0.420]				
-06	22.10 [0.870]	17.78 [0.700]				
-08	30.23 [1.190]	24.89 [0.980]				
-10	37.34 [1.470]	32.00 [1.260]				



# NOTES:

- 1. CONNECTORS TO BE ORIENTED ACCORDING TO CO-RF-WI-3048-M.
- 2. PART TO BE PACKAGED IN ANTI-STATIC BAG.
- 3. CABLES LONGER THAN 1000 MILIMETERS ARE NOT SUPPORTED BY S.I. TEST DATA.
- 4. CAT-EX-SMPM-02 EXTRACTION TOOL AVAILABLE UPON REQUEST.

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MATERIAL:

SHEET SCALE: 3:1

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BEAD: ULTEM CONTACT, FERRULE, OUTER CONTACT: BERYLLIUM COPPER RETAINING EING: STAINLESS STEEL BODY: BERYLLIUM COPPER



520 PARK EAST BLVD, NEW ALBANY, IN 47150 PHONE: 812-944-6733 FAX: 812-948-5047 e-Mail info@SAMTEC.com

DESCRIPTION

GC47 GANGED CABLE ASSEMBLY

GC47-X-XX-XXXXXXXXXXXX

**ROSS P** 

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# REVISION B

			7	ABLE 4			
END OFFICE		05050		FINISH		CONNECTOR KIT P/N	
OPTION	SERIES	IES GENDER	CENTER CONTACT	OUTER CONTACT	CABLE BODY	CONNECTOR KIT P/N	FIGURE
-M0SP	SMPM	PLUG FULL DETENT	30μ" GOLD	10μ" GOLD	3µ" GOLD	PRFM0-P-C-HG-047A-SD	SHT 3, FIG 2
-M0SJ	SMPM	JACK	30μ" GOLD	10μ" GOLD	3μ" GOLD	PRFM0-J-C-HG-047A-SD	SHT 3, FIG 3
-92SP	2.92 MM	PLUG	50μ" GOLD	PASSIVATED	PASSIVATED	PRF92-P-C-EP-047A-SS	SHT 4, FIG 4
-92SJ	2.92 MM	JACK	50μ" GOLD	PASSIVATED	PASSIVATED	PRF92-J-C-EP-047A-SS	SHT 4, FIG 5
-18SP	1.85 MM	PLUG	50μ" GOLD	PASSIVATED	PASSIVATED	PRF18-P-C-EP-047A-SS	SHT 5, FIG 6
-18SJ	1.85 MM	JACK	50μ" GOLD	PASSIVATED	PASSIVATED	PRF18-J-C-EP-047A-SS	SHT 5, FIG 7
-24SP	2.4 MM	PLUG	50μ" GOLD	PASSIVATED	PASSIVATED	PRF24-P-C-EP-047A-SS	SHT 6, FIG 9
-24SJ	2.4 MM	JACK	50μ" GOLD	PASSIVATED	PASSIVATED	PRF24-J-C-EP-047A-SS	SHT 6, FIG 10
-M0RJ	SMPM	RIGHT ANGLE JACK	50μ" GOLD	50μ" GOLD	50μ" GOLD	PRFM0-J-C-EE-047A-RD	SHT 7, FIG 11
-M0BJ	SMPM	BULKHEAD JACK	50μ" GOLD	50μ" GOLD	50μ" GOLD	PRFM0-J-C-EE-047A-BD	SHT 7, FIG 12
-13SP	1.35 MM	PLUG	50μ" GOLD	PASSIVATED	PASSIVATED	PRF13-P-C-VP-047A-SS	SHT 8, FIG 13
-13BJ	1.35 MM	JACK	50μ" GOLD	PASSIVATED	PASSIVATED	PRF13-J-C-VP-047A-BS	SHT 8, FIG 14
-GC47	SMPM	JACK	50μ" GOLD	PASSIVATED	PASSIVATED	PRFM0-J-C-EE-047A-SD-1	SHT 9, FIG 15
-10SP	1.0 MM	PLUG	50μ" GOLD	PASSIVATED	PASSIVATED	PRF10-P-C-VP-047A-SS-X	SHT 9, FIG 16
-10BJ	1.0 MM	JACK	50μ" GOLD	PASSIVATED	PASSIVATED	PRF10-J-C-VP-047A-BS-X	SHT 10, FIG 17
-01SP	SMA	PLUG	50μ" GOLD	10μ" GOLD	10μ" GOLD	PRF01-P-C-EG-047A-SD	SHT 10, FIG 18
-01BJ	SMA	BULKHEAD JACK	50μ" GOLD	10μ" GOLD	10μ" GOLD	PRF01-J-C-EG-047A-BD	SHT 11, FIG 19
*-01SB	SMA	SEALED BULKHEAD JACK	50μ" GOLD	10µ" GOLD	10μ" GOLD	PRF01-J-C-EG-047A-BD-1	SHT 11, FIG 20
*-00SJ	SMP	JACK	50µ" GOLD	50µ" GOLD	50μ" GOLD	PRF00-J-C-EE-047A-SD-X	SHT 12, FIG 21
*-00MJ	SMP	R/A JACK	50µ" GOLD	50µ" GOLD	50μ" GOLD	PRF00-J-C-EE-047A-RD-1-X	SHT 12, FIG 22
-SING	SINGLE ENDED	-	-	-	-	-	-
**-XXXXX	STRIPPED & TINNED	-	-	-	-	-	-

<sup>\* =</sup> NOT RELEASED

<sup>\*\* =</sup> END 2 OPTION ONLY

TABLE 5								
END OPTION	MAXIMUM VSWR	MAXIMUM RETURN LOSS	MAXIMUM INSERTION LOSS (IL)	FREQUENCY	PROTECTIVE CAP COLOR			
-M0SP	1.40:1	-15.56 dB	0.28	DC TO 40 GHz	GRAY			
-M0SJ	1.40:1	-15.56 dB	0.28	DC TO 40 GHz	GRAY			
-92SP	1.35:1	-16.45 dB	0.28	DC TO 40 GHz	YELLOW			
-92SJ	1.35:1	-16.45 dB	0.28	DC TO 40 GHz	YELLOW			
-18SP	1.40:1	-15.56 dB	0.37	DC TO 67 GHz	BLUE			
-18SJ	1.40:1	-15.56 dB	0.37	DC TO 67 GHz	BLUE			
-24SP	1.35:1	-16.45 dB	0.32	DC TO 50 GHz	GREEN			
-24SJ	1.35:1	-16.45 dB	0.32	DC TO 50 GHz	GREEN			
-M0RJ	1.40:1	-15.56 dB	0.20	DC TO 20 GHz	N/A			
-M0BJ	1.40:1	-15.56 dB	0.28	DC TO 40 GHz	N/A			
-13SP	1.40:1	-15.56 dB	0.39	DC TO 90 GHz	GRAY			
-13BJ	1.40:1	-15.56 dB	0.39	DC TO 90 GHz	GRAY			
-GC47	1.40:1	-15.56 dB	0.28	DC TO 40 GHz	N/A			
-10SP	1.40:1	-15.56 dB	0.4	DC TO 90 GHz	WHITE			
-10SP	1.50:1	-13.97 dB	0.4	90 TO 110 GHz	WHILE			
-10BJ	1.40:1	-15.56 dB	0.4	DC TO 90 GHz	WHITE			
-1063	1.50:1	-13.97 dB	0.4	90 TO 110 GHz	VVIIIE			
-01SP	1.30:1	-17.7dB	0.23	DC TO 26.5 GHz	BROWN			
-01BJ	1.30:1	-17.7dB	0.23	DC TO 26.5 GHz	BROWN			
*-01SB	1.30:1	-17.7dB	0.23	DC TO 26.5 GHz	BROWN			
*-00SJ	1.20:1	-20.83 dB	0.5	DC TO 26.5 GHz	WHITE			
	1.50:1	-14.0 dB	0.5	26.5 TO 40 GHz	VVI II I E			
*-00MJ	1.20:1	-20.83 dB	0.5	DC TO 26.5 GHz	WHITE			

IL Max [dB] for cable assembly:

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DESCRIPTION:
GC47 GANGED CABLE ASSEMBLY

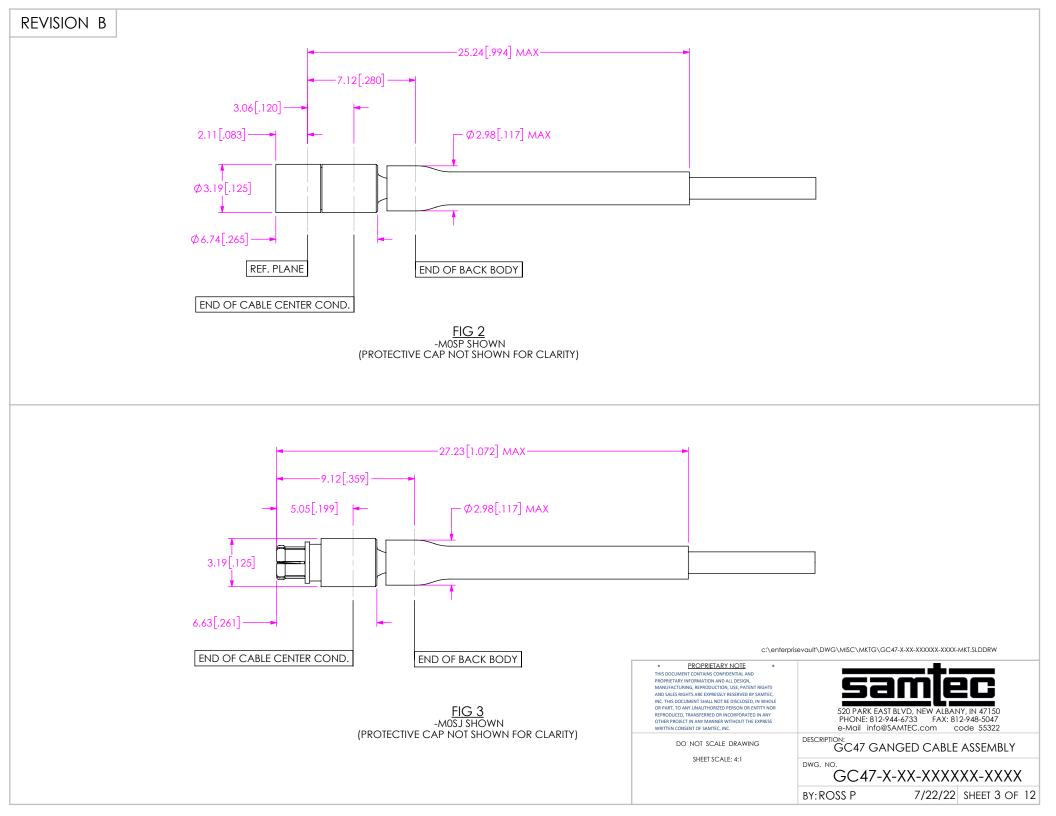
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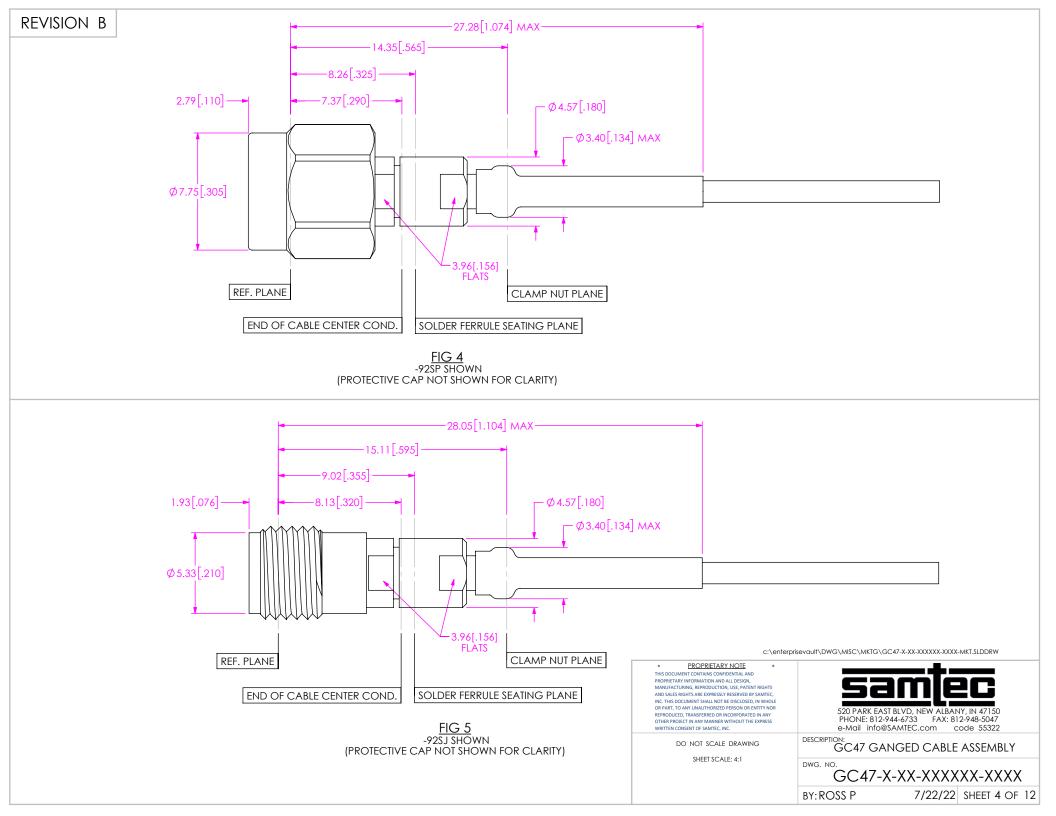
BY: ROSS P

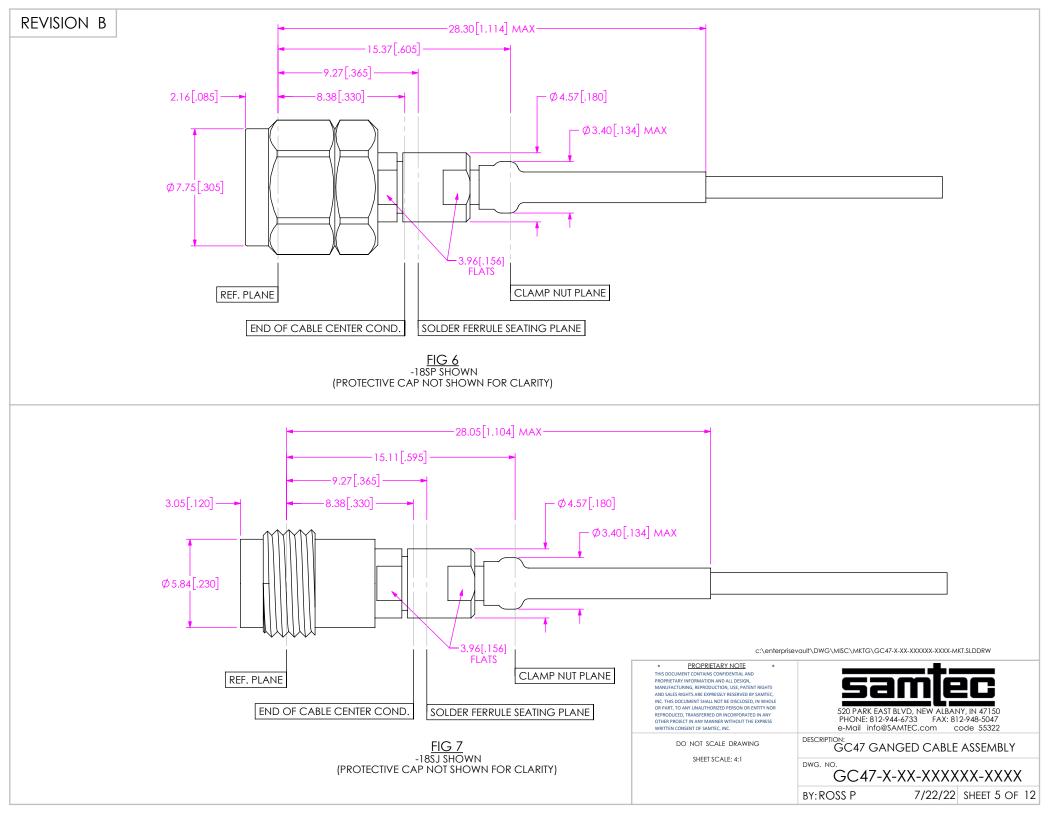
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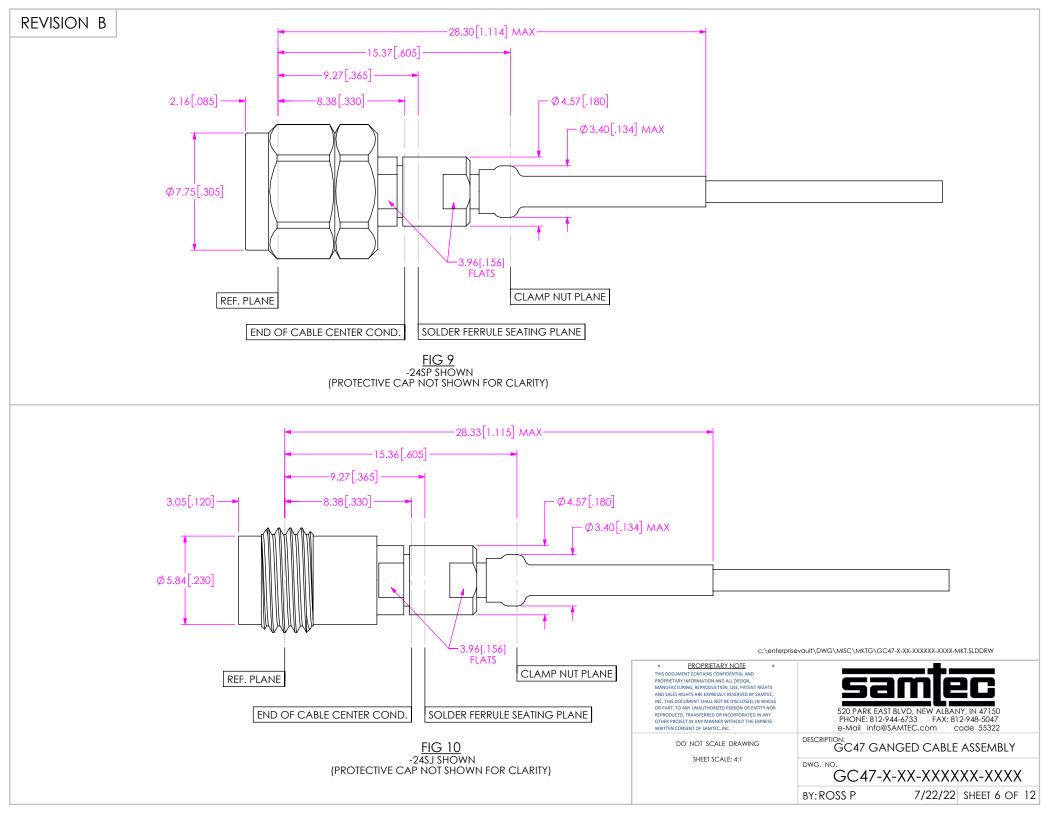
<sup>= {35.06\*</sup>SQRT(Freq[GHz])+1.835\*Freq[GHz]}\*OAL[mm]/30480+End Option IL#1{See Table 3}+End Option IL#2{See Table 3}

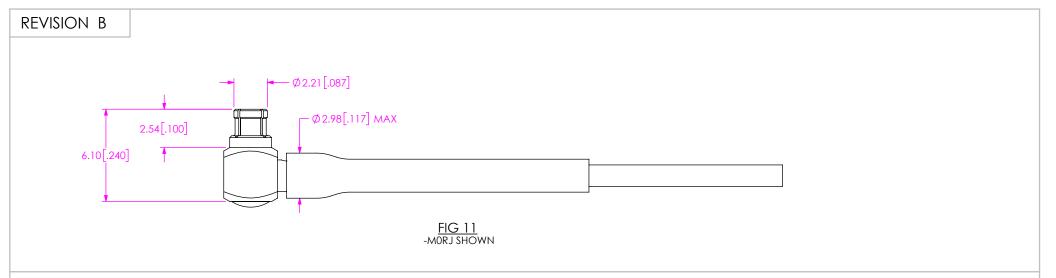
<sup>\* =</sup> NOT RELEASED

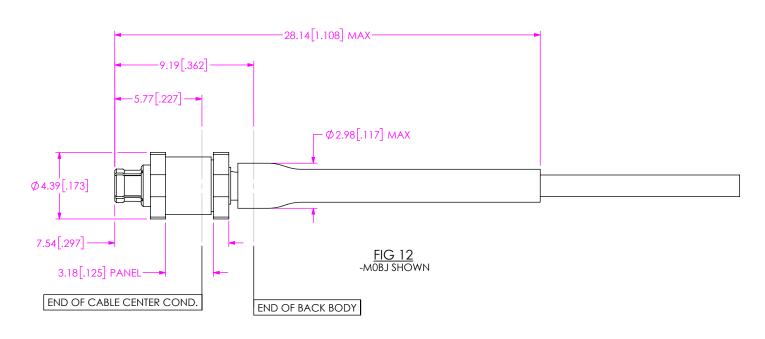


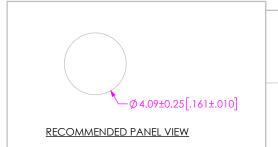












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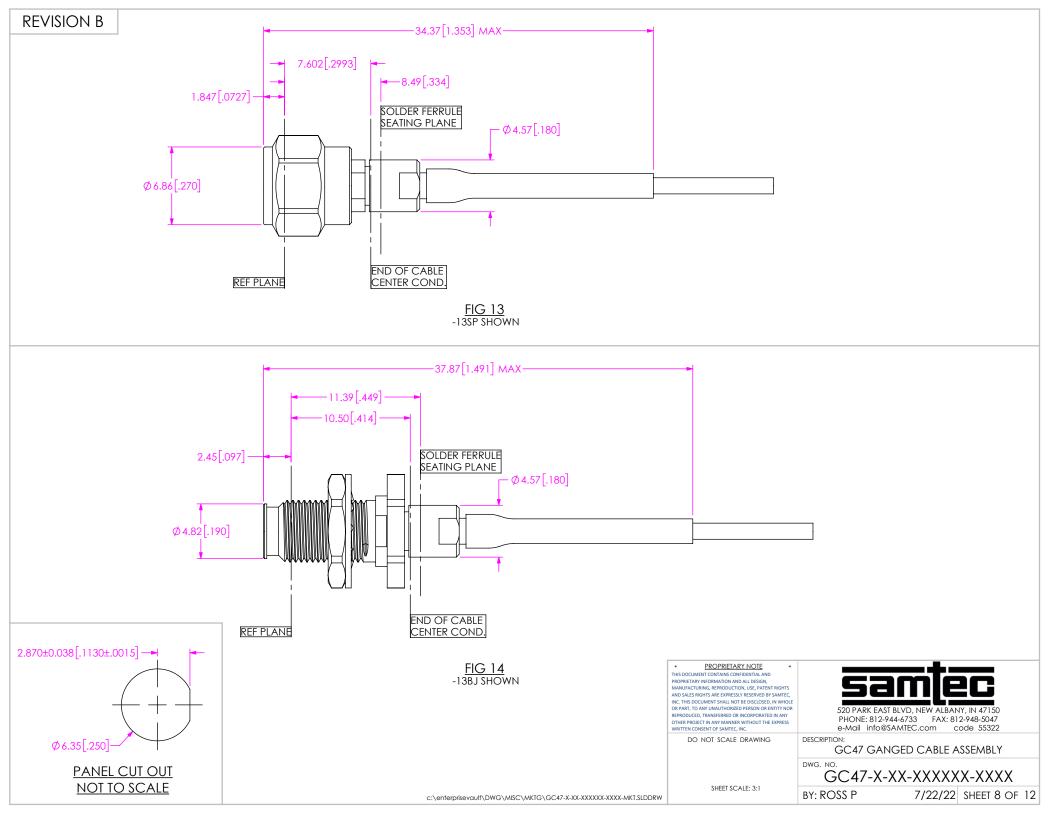
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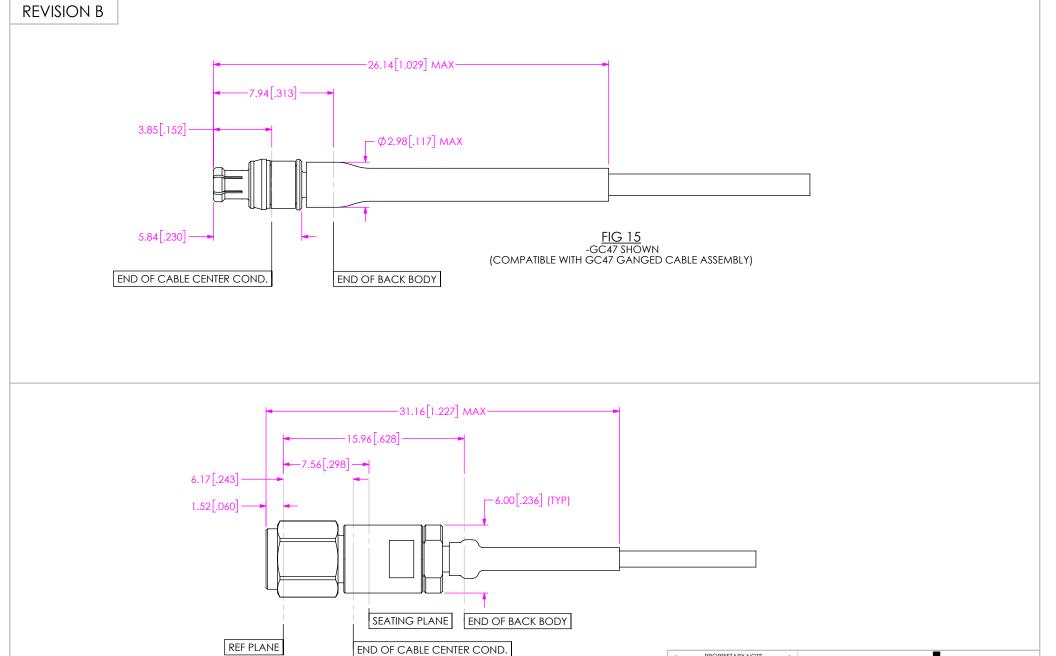


FIG. 16 -10SP SHOWN (PROTECTIVE CAP NOT SHOWN FOR CLARITY)

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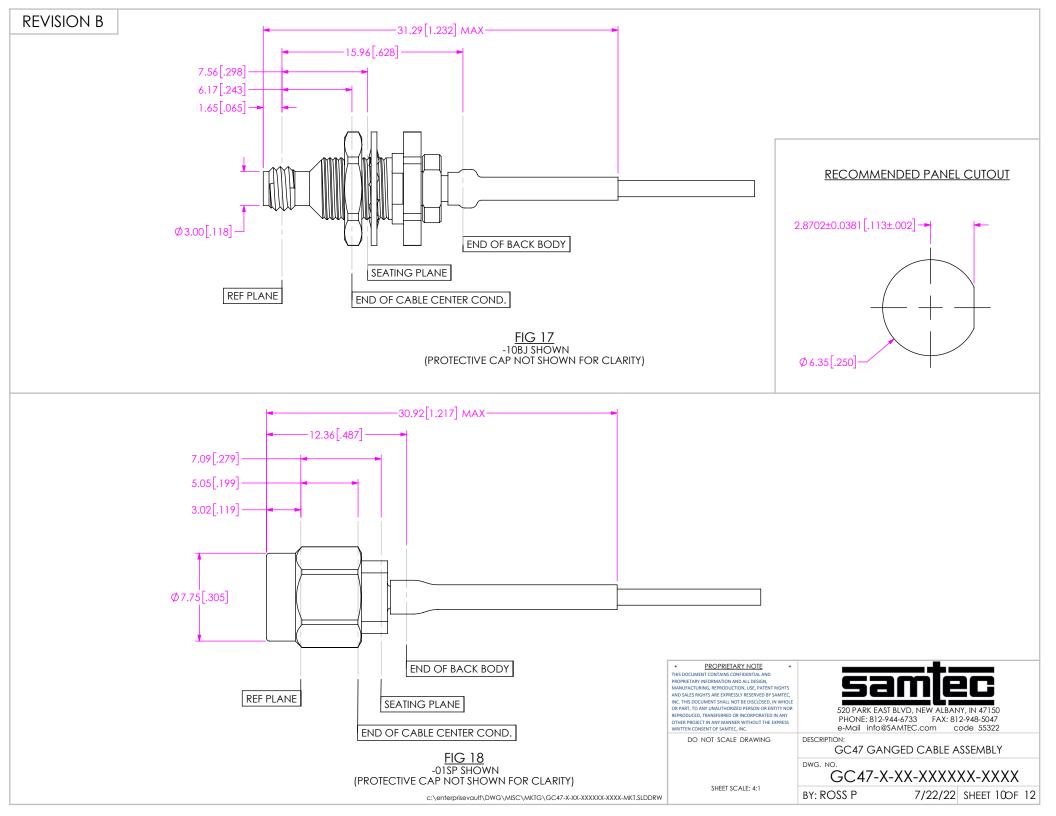
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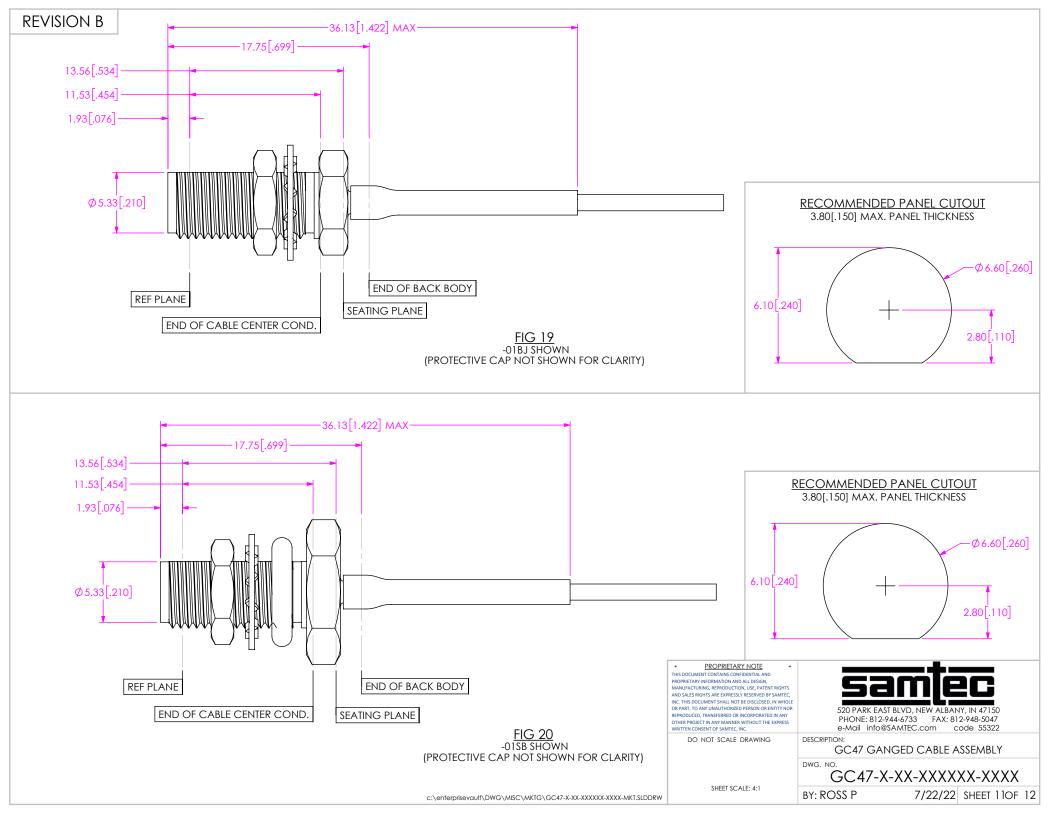
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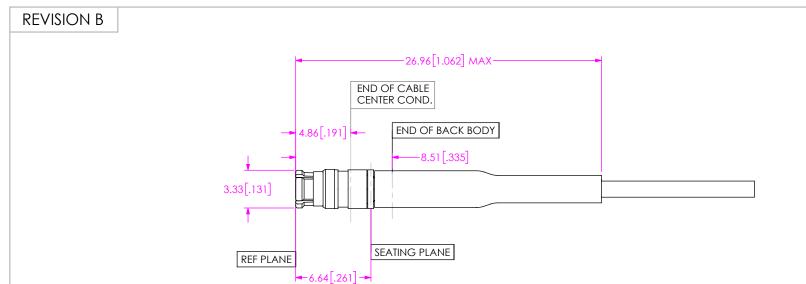


FIG 21 -00SJ SHOWN (PROTECTIVE CAP NOT SHOWN FOR CLARITY)

