

DO NOT
SCALE FROM
THIS PRINT

**THIS PRODUCT MANUFACTURED
WITH LEAD-FREE PROCESSING**

GC86-X-XX-XXXXXX-X-XXXX

CABLE CALLOUT
-086: CCA-086-FFP

NO. OF ROWS
-1

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

OVERALL ASSEMBLY LENGTH (OAL)
XXXX (MILLIMETERS)
(0100 MIN)

OPTION
BLANK: NON-SCREW
-S: SCREW

END 2 CONNECTOR
(SEE TABLE 4, SHT 3)
-BLANK: DOUBLE ENDED GC86

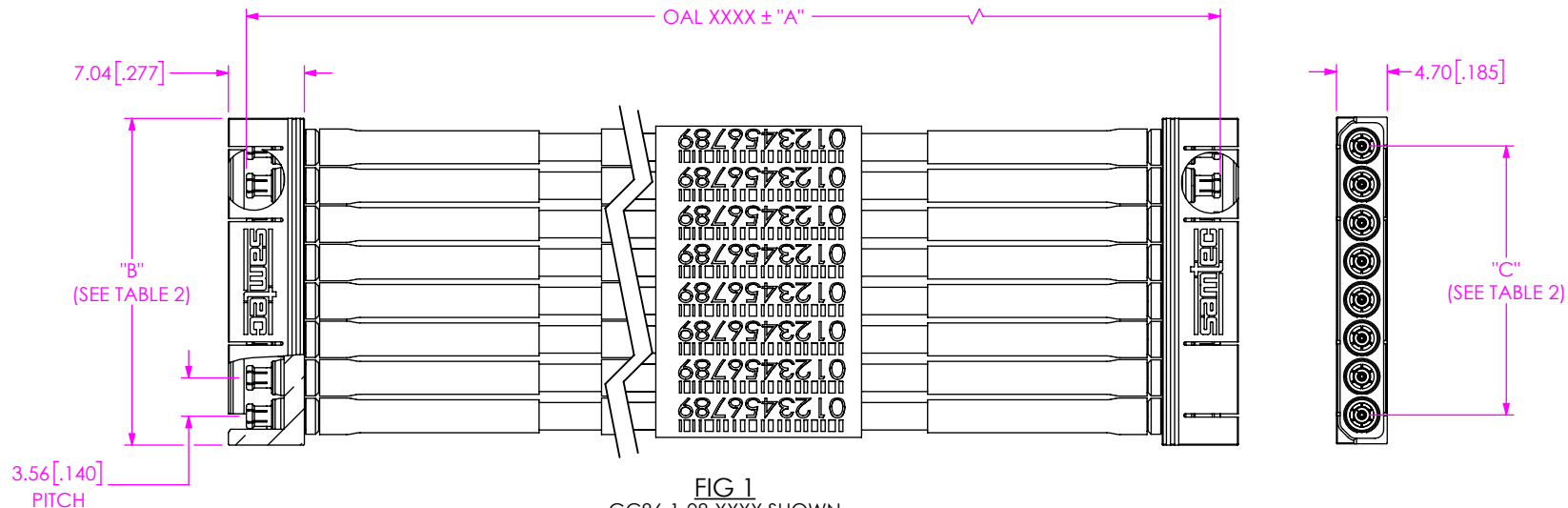
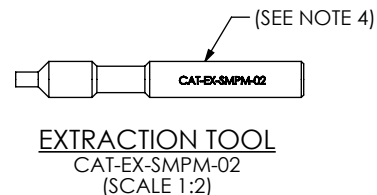


FIG 1
GC86-1-08-XXXX SHOWN
(DOUBLE ENDED GC86)
(SCALE 1.5:1)

TABLE 1: FINAL ASSEMBLY LENGTH TOLERANCE	
OVERALL LENGTH	"A"
0100-0200 [3.94-7.87]	+3.0 [0.12] / -0.0 [0.00]
0201-0500 [7.91-19.69]	+5.0 [0.20] / -0.0 [0.00]
0501-9999 [19.72-39.37]	+10.0 [0.39] / -0.0 [0.00]

TABLE 2				
OPTION	No OF POSITIONS	"B"	"C"	"D"
BLANK	-02	8.89 [0.350]	3.56 [0.140]	N/A
	-04	16.00 [0.630]	10.67 [0.420]	N/A
	-06	23.11 [0.910]	17.78 [0.700]	N/A
	-08	30.23 [1.190]	24.89 [0.980]	N/A
	-10	37.34 [1.470]	32.00 [1.260]	N/A
-S	-02	17.53 [0.690]	3.56 [0.140]	13.59 [0.535]
	-04	24.64 [0.970]	10.67 [0.420]	20.70 [0.815]
	-06	31.75 [1.250]	17.78 [0.700]	27.81 [1.095]
	-08	38.86 [1.530]	24.89 [0.980]	34.93 [1.375]
	-10	45.97 [1.810]	32.00 [1.260]	42.04 [1.655]



NOTES:

- CONNECTORS TO BE ORIENTED ACCORDING TO CO-RF-WI-3048-M.
- PART TO BE PACKAGED IN ANTI-STATIC BAG.
- CABLES LONGER THAN 1000 MILLIMETERS ARE NOT SUPPORTED BY S.I. TEST DATA.
- CAT-EX-SMPM-02 EXTRACTION TOOL AVAILABLE UPON REQUEST.
- WHEN MOUNTED TO PCB CONNECTOR, TIGHTEN SCREW TO 0.9-1.3 IN-LBS USING 2mm HEX TOOL.

F:\DWG\SW\Exisprod\Assembly\RF\GCXX\GC86\GC86-X-XX-XXXXXX-X-XXXX.SLDDRW

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MATERIAL:
BEAD: ULTEM
CONTACT: FERRULE, OUTER CONTACT: BERYLLIUM COPPER
RETAINING RING: STAINLESS STEEL
BODY: BERYLLIUM COPPER
SCREW: STAINLESS STEEL

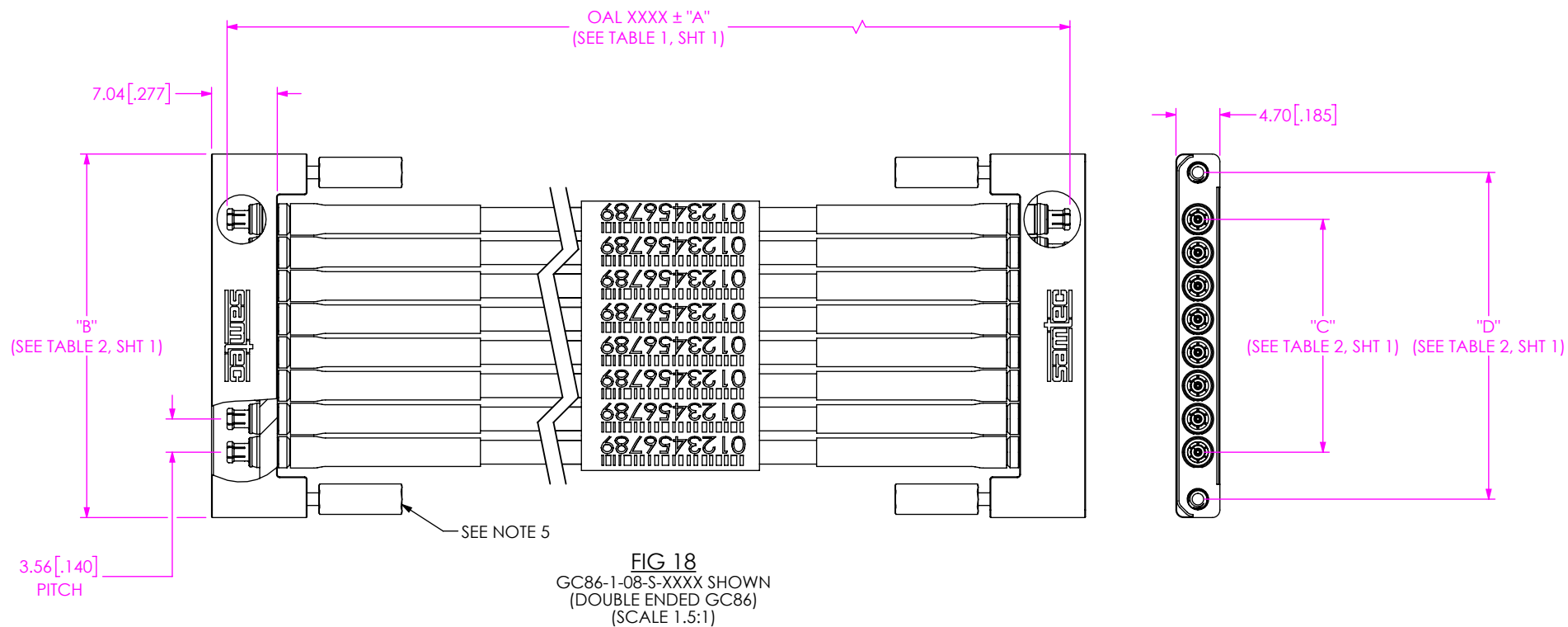
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520 PARK EAST BLVD, NEW ALBANY, IN 47150
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DESCRIPTION:
GC86 GANGED CABLE ASSEMBLY

DWG. NO.
GC86-X-XX-XXXXXX-X-XXXX

BY: MATT M. 9/1/2022 SHEET 1 OF 11



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TABLE 4							
END OPTION	SERIES	GENDER	FINISH			CONNECTOR KIT P/N (PCI P/N)	FIGURE
			CENTER CONTACT	OUTER CONTACT	CABLE BODY		
-24SP	2.40 MM	PLUG	50µ" GOLD	PASSIVATED	PASSIVATED	PRF24-P-C-EP-086-SS (4190)	SHT 4, FIG 2
-24SJ	2.40 MM	JACK	50µ" GOLD	PASSIVATED	PASSIVATED	PRF24-J-C-EP-086-SS (4216)	SHT 4, FIG 3
-18SP	1.85 MM	PLUG	50µ" GOLD	PASSIVATED	PASSIVATED	PRF18-P-C-EP-086-SS-1	SHT 5, FIG 4
-18SJ	1.85 MM	JACK	50µ" GOLD	PASSIVATED	PASSIVATED	PRF18-J-C-EP-086-SS-1	SHT 5, FIG 5
-M0SP	SMPM	PLUG, FULL DETENT	50µ" GOLD	50µ" GOLD	3µ" GOLD	PRFM0-P-C-EE-086-SD (N/A)	SHT 6, FIG 6
-M0SJ	SMPM	JACK	50µ" GOLD	50µ" GOLD	3µ" GOLD	PRFM0-J-C-EE-086-SD (N/A)	SHT 6, FIG 7
-92SP	2.92 MM	PLUG	50µ" GOLD	PASSIVATED	PASSIVATED	PRF92-P-C-EP-086-SS-1-X (N/A)	SHT 7, FIG 9
-92SJ	2.92 MM	JACK	50µ" GOLD	PASSIVATED	PASSIVATED	PRF92-J-C-EP-086-SS-X (N/A)	SHT 7, FIG 10
-01SP	SMA	PLUG	50µ" GOLD	10µ" GOLD	10µ" GOLD	PRF01-P-C-EG-086-SD (N/A)	SHT 8, FIG 11
-01BJ	SMA	BULKHEAD JACK	50µ" GOLD	10µ" GOLD	10µ" GOLD	PRF01-J-C-EG-086-BD (N/A)	SHT 8, FIG 12
-01SB	SMA	SEALED BULKHEAD JACK	50µ" GOLD	10µ" GOLD	10µ" GOLD	PRF01-J-C-EG-086-BD-1 (N/A)	SHT 9, FIG 13
-00SJ	SMP	JACK	50µ" GOLD	50µ" GOLD	50µ" GOLD	PRF00-J-C-EE-086-SD	SHT 9, FIG 14
-00MJ	SMP	R/A JACK	50µ" GOLD	50µ" GOLD	50µ" GOLD	PRF00-J-C-EE-086-RD	SHT 10, FIG 15
-GC86	SMPM	JACK	50µ" GOLD	50µ" GOLD	10µ" GOLD	PRFM0-J-C-EE-086-SD-1	SHT10, FIG 16
-00BC	SMP	BULKHEAD PLUG, CATCHER'S MITT	50µ" GOLD	10µ" GOLD	10µ" GOLD	PRF00-PC-C-EG-086-BD (N/A)	SHT 11, FIG 17
-00BF	SMP	BULKHEAD PLUG, FULL DETENT	50µ" GOLD	10µ" GOLD	10µ" GOLD	PRF00-PF-C-EG-086-BD (N/A)	
-00BL	SMP	BULKHEAD PLUG, LIMITED DETENT	50µ" GOLD	10µ" GOLD	10µ" GOLD	PRF00-PL-C-EG-086-BD (N/A)	
-00BS	SMP	BULKHEAD PLUG, SMOOTH BORE	50µ" GOLD	10µ" GOLD	10µ" GOLD	PRF00-PS-C-EG-086-BD (N/A)	
**SING	SINGLE ENDED	-	-	-	-	-	-
**XXXXX	STRIPPED & TINNED	-	-	-	-	-	SHT 1, FIG 8

** = END 2 OPTION ONLY

TABLE 5					
END OPTION	MAXIMUM RETURN LOSS (PER END)	MAXIMUM VSWR (PER END)	MAXIMUM INSERTION LOSS (IL) (PER END)	FREQUENCY	PROTECTIVE CAP COLOR
-24SP	21.53 dB	1.183	.03+ .03*SQRT(Freq[GHz])	DC TO 50 GHz	GREEN
-24SJ	21.53 dB	1.183	.03+ .03*SQRT(Freq[GHz])	DC TO 50 GHz	GREEN
-18SP	21.53 dB	1.183	.03+ .03*SQRT(Freq[GHz])	DC TO 67 GHz	BLUE
-18SJ	21.53 dB 19.90 dB	1.183 1.225	.03+ .03*SQRT(Freq[GHz])	DC TO 50 GHz 50 GHz TO 67 GHz	BLUE
-M0SP	21.53 dB 15.31 dB	1.183 1.414	.03+ .05*SQRT(Freq[GHz])	DC TO 50 GHz 50 GHz TO 67 GHz	GRAY
-M0SJ	21.53 dB 15.31 dB	1.183 1.414	.03+ .05*SQRT(Freq[GHz])	DC TO 50 GHz 50 GHz TO 67 GHz	GRAY
-92SP	21.53 dB	1.183	.03+ .03*SQRT(Freq[GHz])	DC TO 40 GHz	YELLOW
-92SJ	21.53 dB	1.183	.03+ .03*SQRT(Freq[GHz])	DC TO 40 GHz	YELLOW
-01SP	23.69 dB	1.140	.03+ .03*SQRT(Freq[GHz])	DC TO 26.5 GHz	BROWN
-01BJ	23.69 dB	1.140	.03+ .03*SQRT(Freq[GHz])	DC TO 26.5 GHz	BROWN
-01SB	23.69 dB	1.140	.03+ .03*SQRT(Freq[GHz])	DC TO 26.5 GHz	BROWN
-00SJ	25.08 dB 19.90 dB	1.118 1.225	.03+ .03*SQRT(Freq[GHz])	DC TO 26.5 GHz 26.5 GHz TO 40 GHz	WHITE
-00MJ	25.08 dB	1.118	.03+ .03*SQRT(Freq[GHz])	DC 26.5 GHz	WHITE
-00BC	25.08 dB 19.90 dB	1.118 1.225	.03+ .03*SQRT(Freq[GHz])	DC TO 26.5 GHz 26.5 GHz TO 40 GHz	GRAY
-00BF	25.08 dB 19.90 dB	1.118 1.225	.03+ .03*SQRT(Freq[GHz])	DC TO 26.5 GHz 26.5 GHz TO 40 GHz	GRAY
-00BL	25.08 dB 19.90 dB	1.118 1.225	.03+ .03*SQRT(Freq[GHz])	DC TO 26.5 GHz 26.5 GHz TO 40 GHz	GRAY
-00BS	25.08 dB 19.90 dB	1.118 1.225	.03+ .03*SQRT(Freq[GHz])	DC TO 26.5 GHz 26.5 GHz TO 40 GHz	GRAY
-GC86	25.08 dB 20.67 dB 18.64 dB	1.118 1.204 1.265	.03+ .05*SQRT(Freq[GHz])	DC TO 18 GHz 18 GHz TO 60 GHz 60 GHz TO 65 GHz	N/A

IL Max [dB] for cable assembly:
 = (18.77*SQRT(Freq[GHz])+0.892*Freq[GHz])*OAL[mm]/30480+End Option IL#1(See Table 5)+End Option IL#2(See Table 5)
 VSWR Max for cable assembly:
 = End Option VSWR#1(See Table 5)+End Option VSWR#2(See Table 5)

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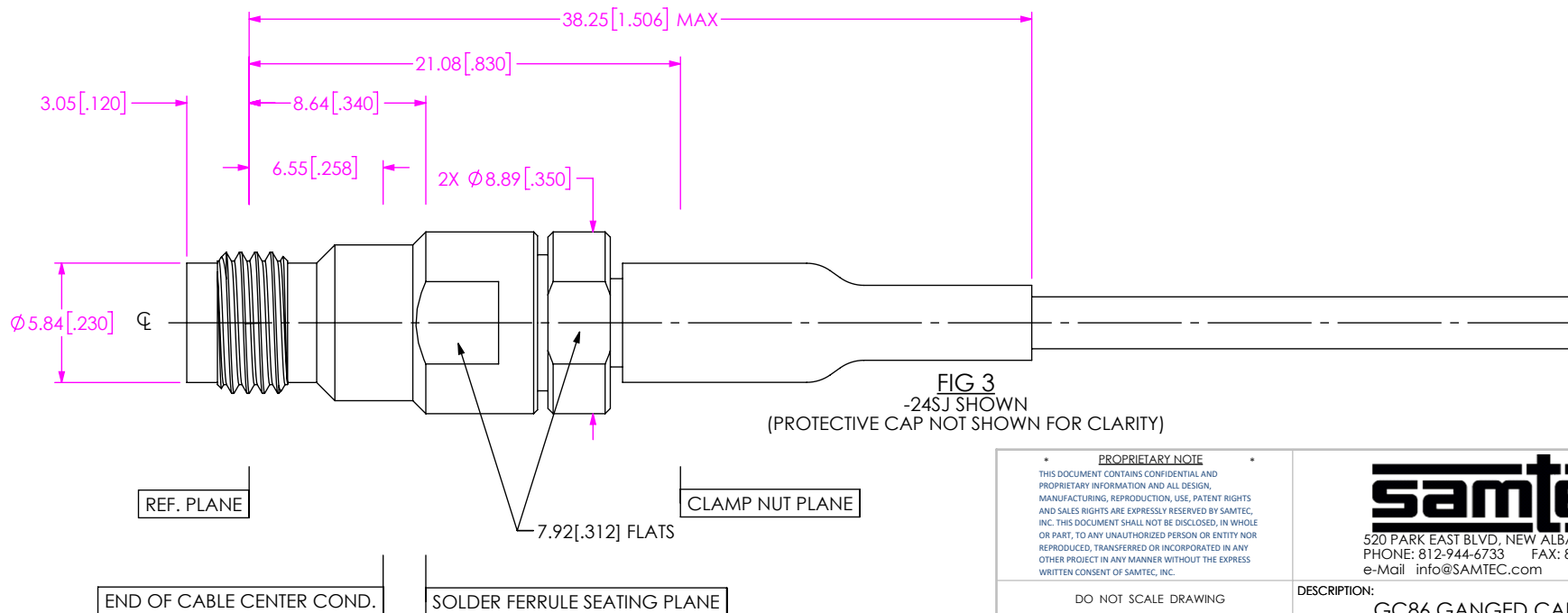
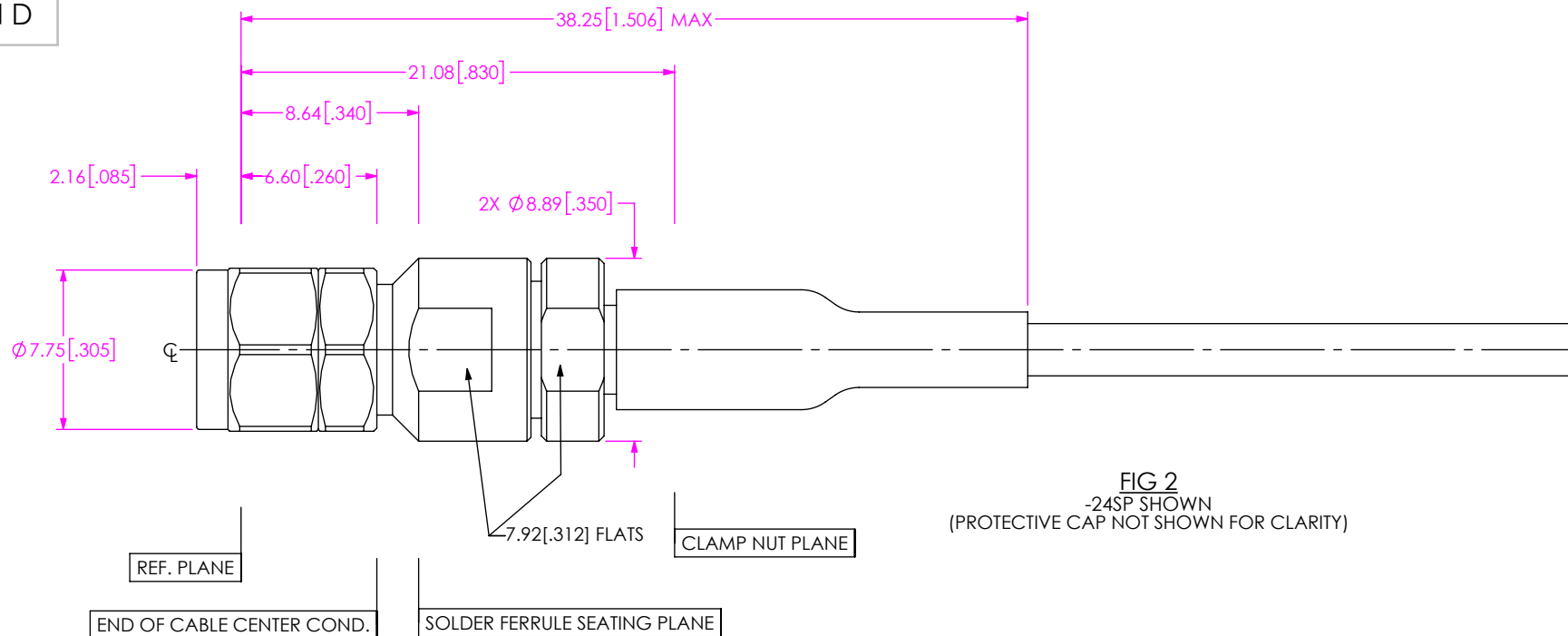
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GC86-X-XX-XXXXXX-X-XXXX

BY: MATT M. 9/1/2022 SHEET 3 OF 11



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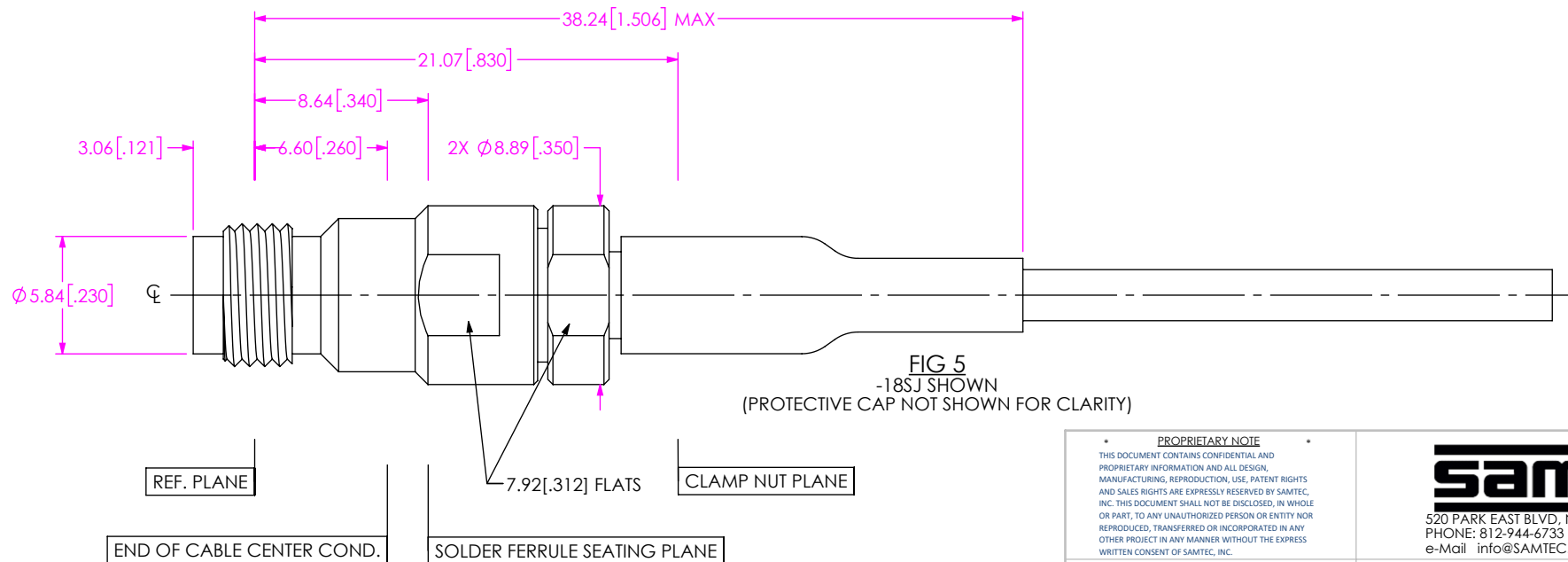
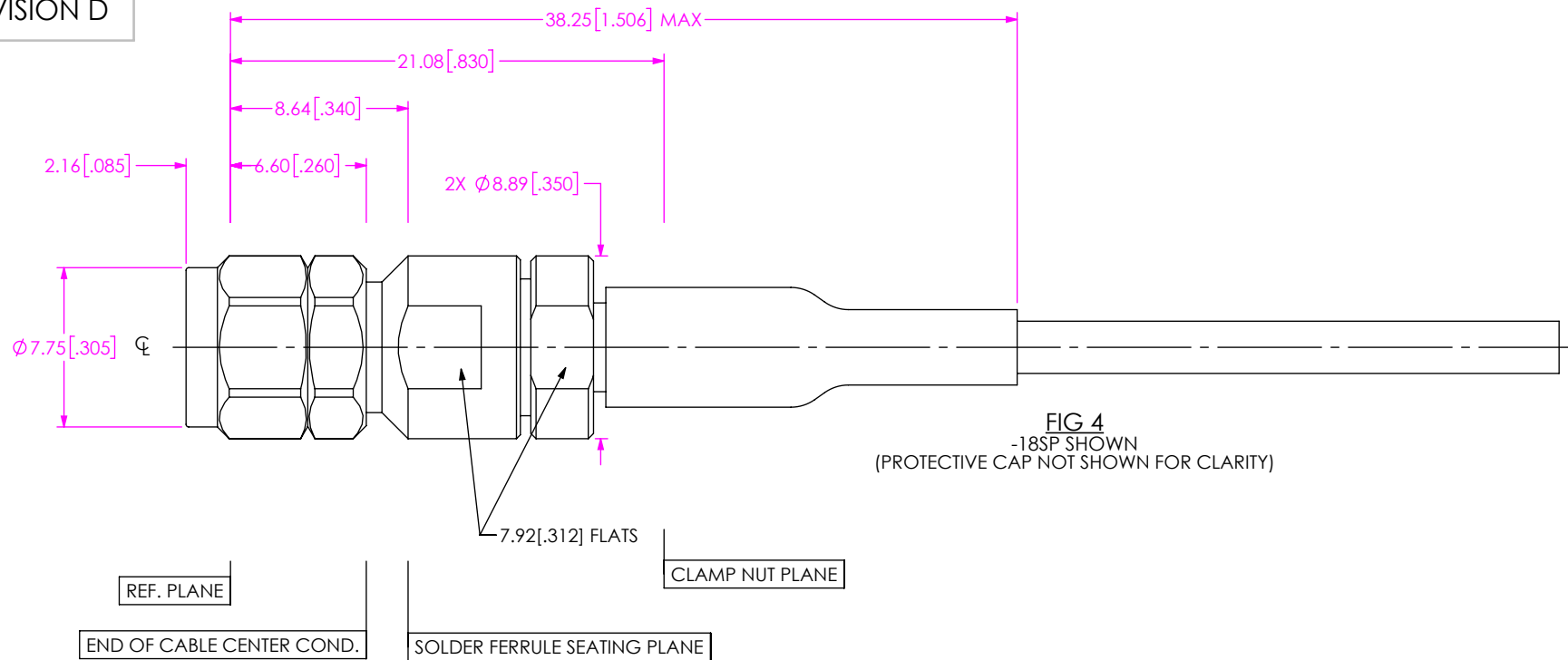
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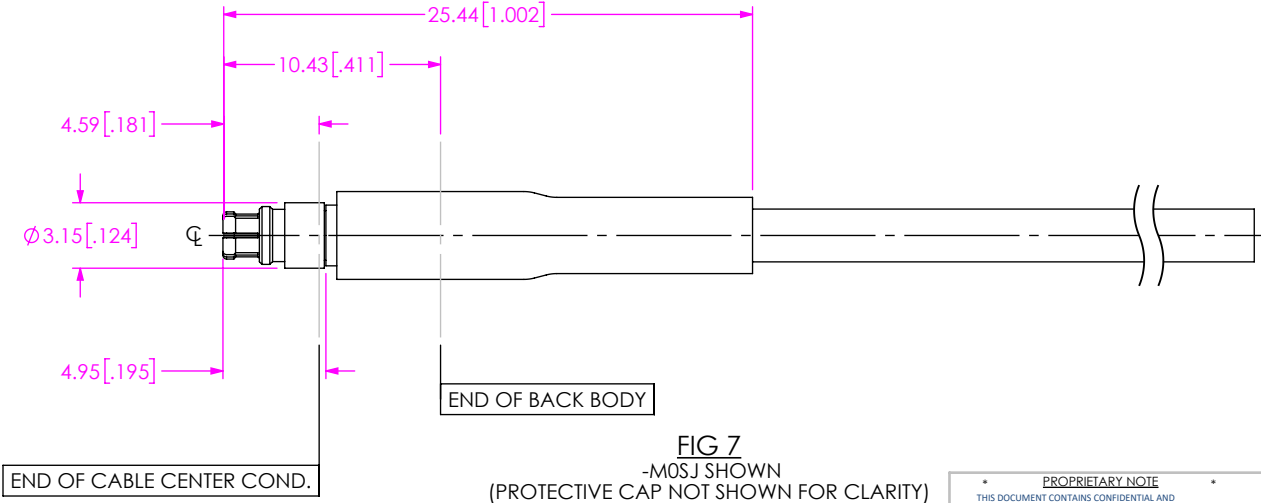
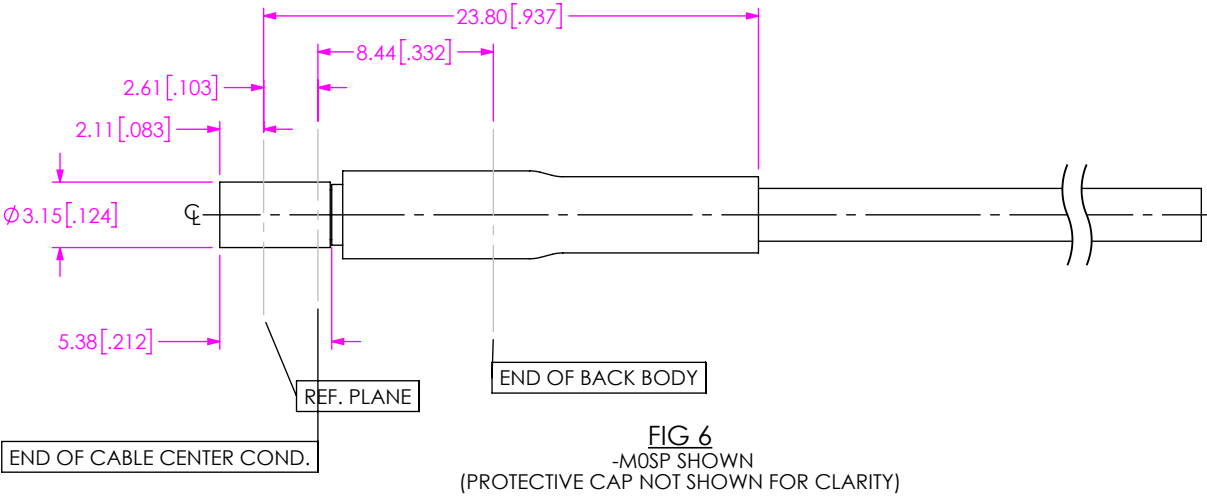
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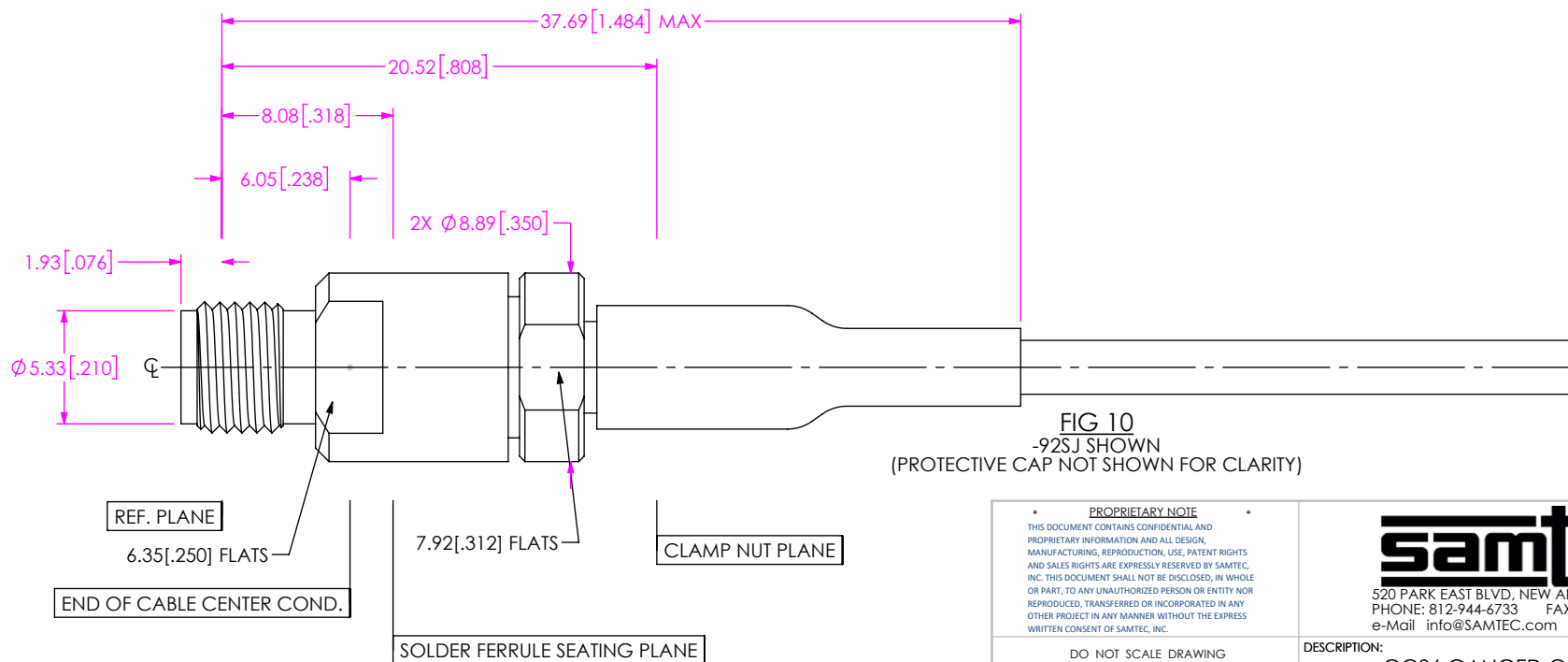
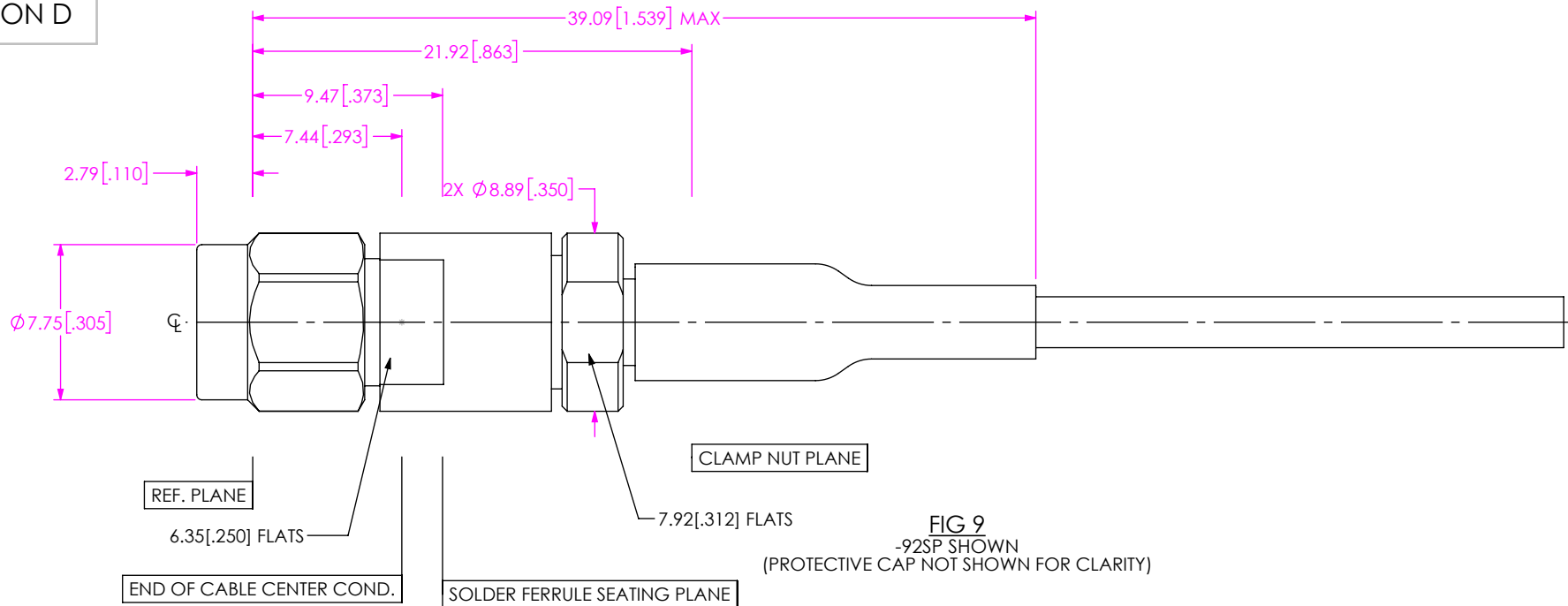
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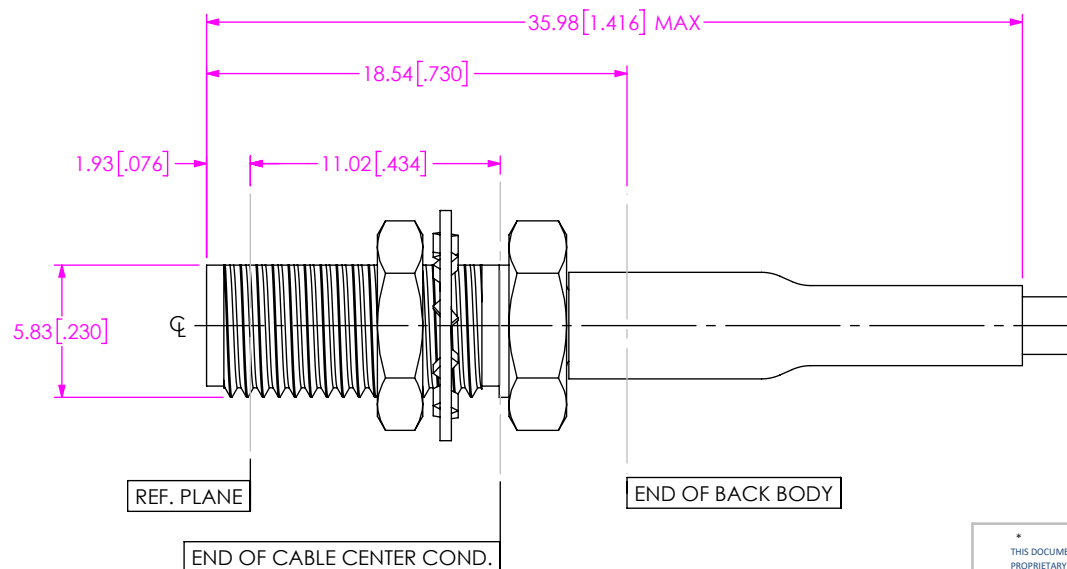
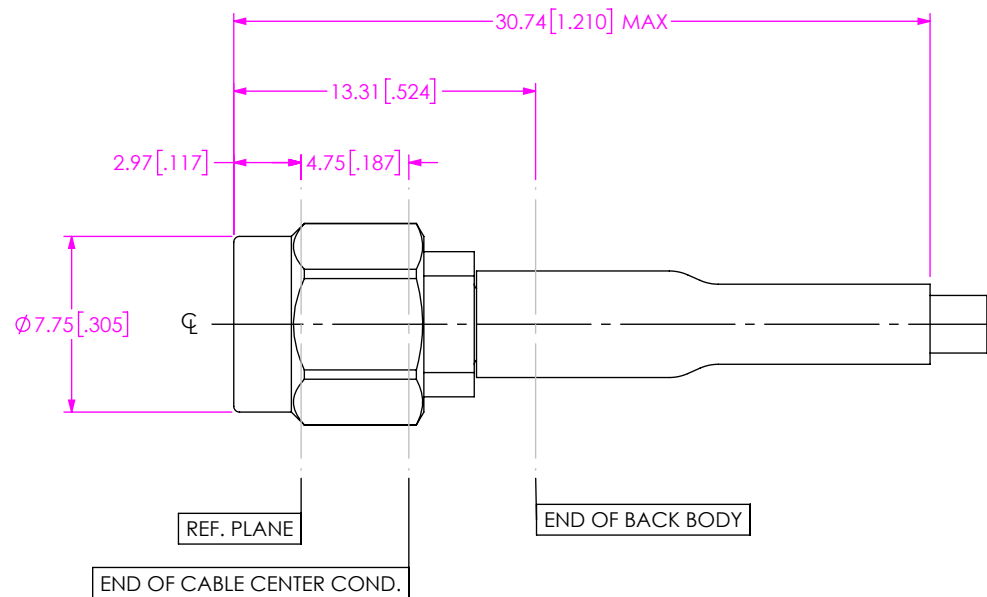
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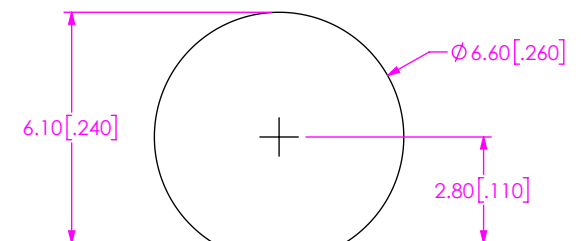
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RECOMMENDED PANEL CUTOUT
3.80 [0.150] MAX. PANEL THICKNESS



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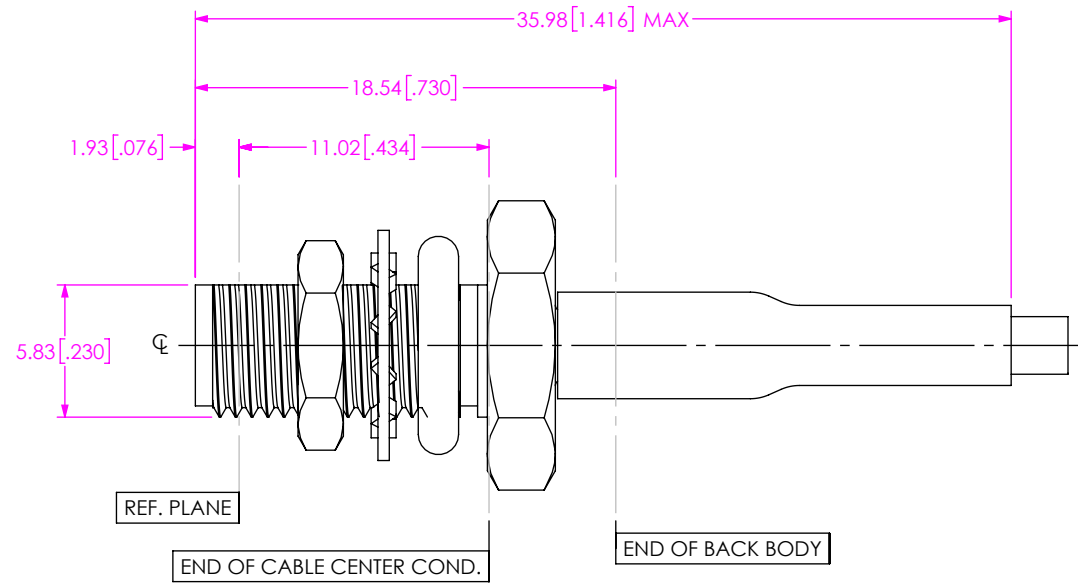


FIG 13
-01SB SHOWN
(PROTECTIVE CAP NOT SHOWN FOR CLARITY)

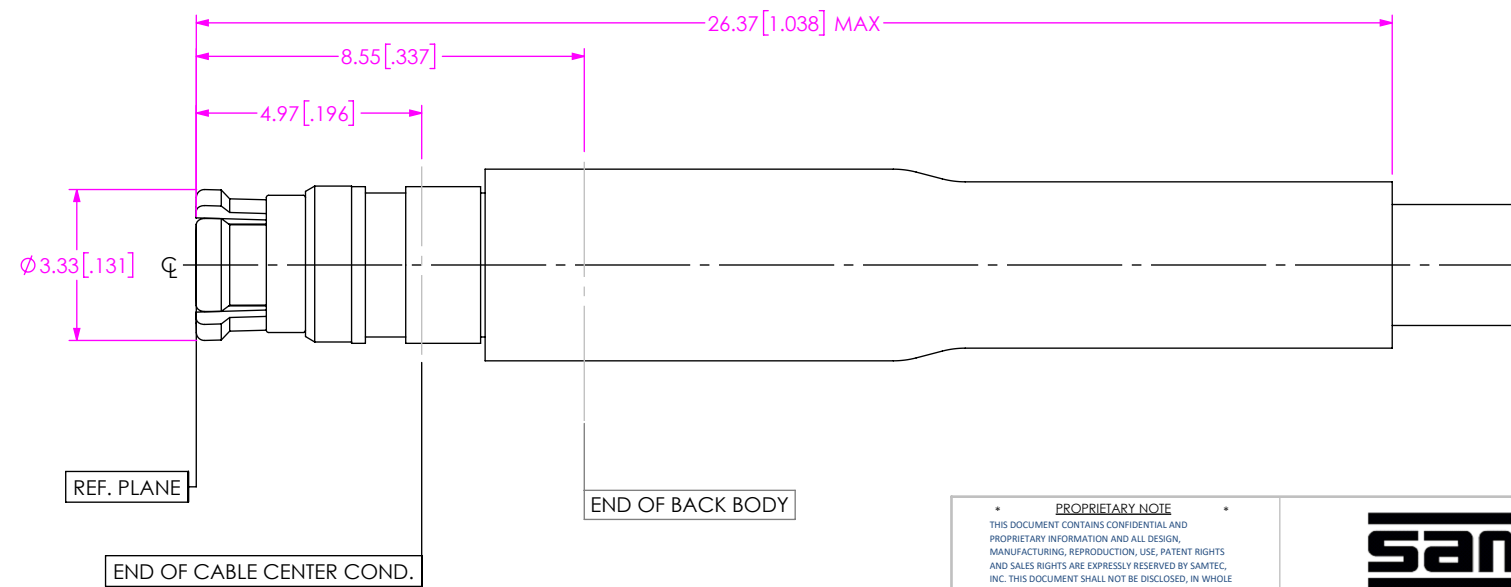
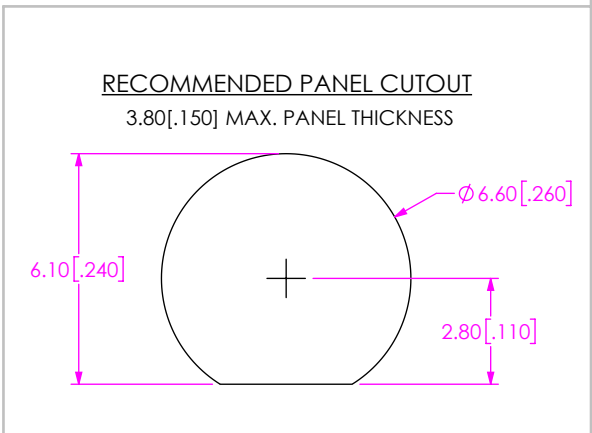
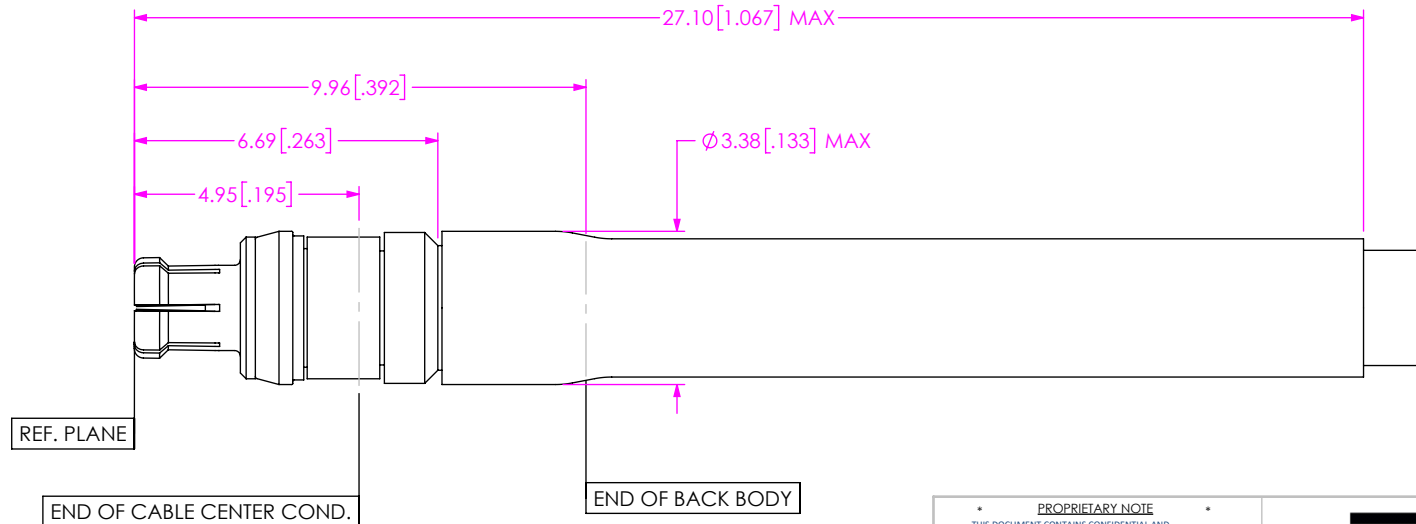
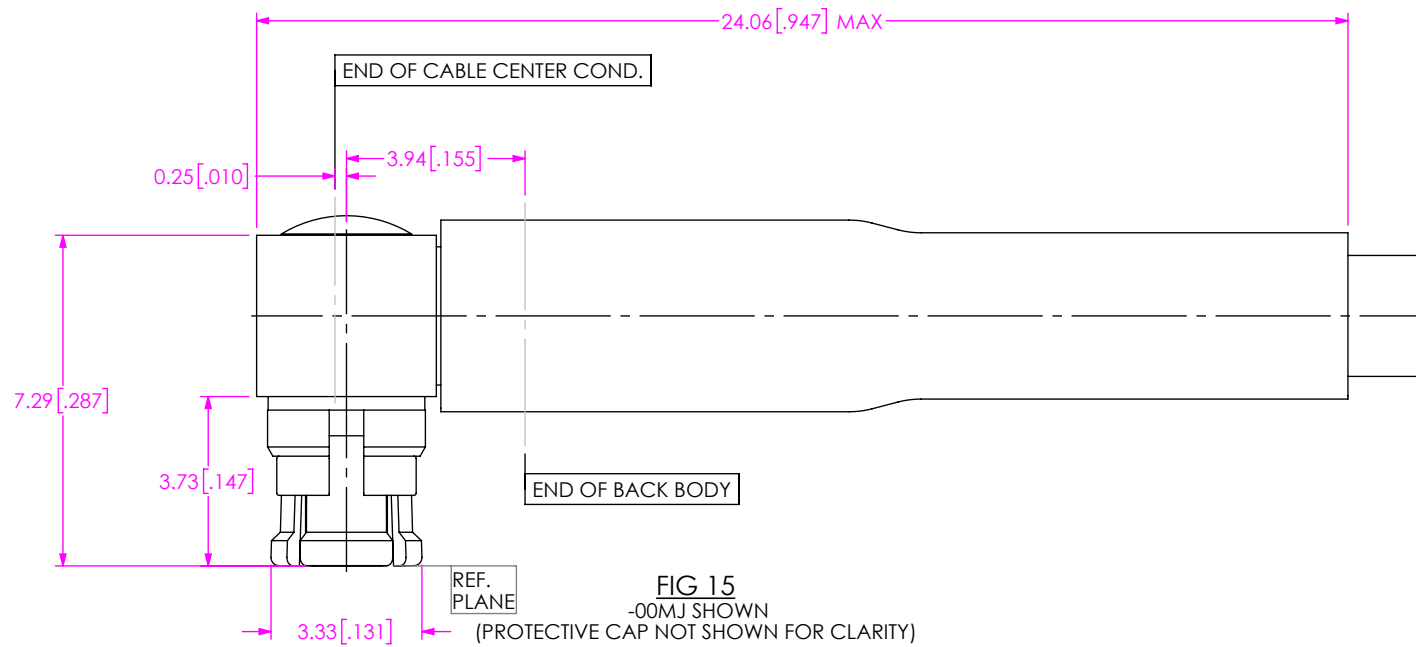


FIG 14
-00SJ SHOWN
(PROTECTIVE CAP NOT SHOWN FOR CLARITY)

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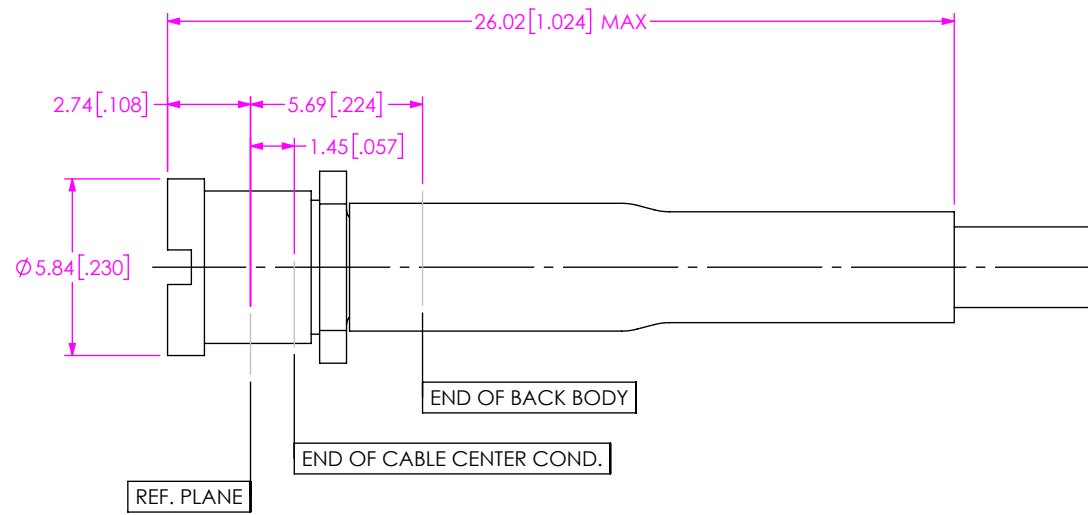
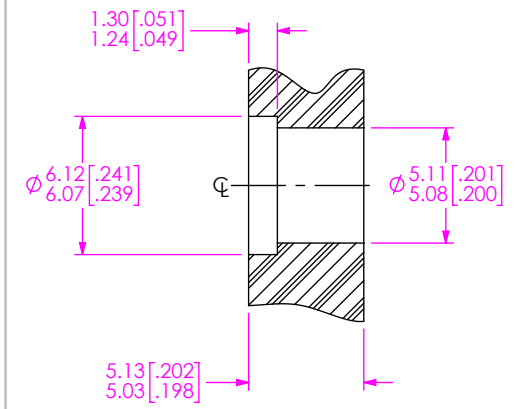


FIG 17
-00BC, -00BF, -00BL, -00BS SHOWN
(PROTECTIVE CAP NOT SHOWN FOR CLARITY)



RECOMMENDED PANEL LAYOUT

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