

DO NOT
SCALE FROM
THIS PRINTDESIGNED AND DIMENSIONED IN MILLIMETERS[INCHES]
ALL DIMENSIONS REFERENCE EXCEPT AS SHOWN THIS PRODUCT MANUFACTURED
WITH LEAD-FREE PROCESSING

GC47-X-XX-XXXXXX-X-XXXX

CABLE CALLOUT
-47: CCA-047-PFA CABLE

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 GC47

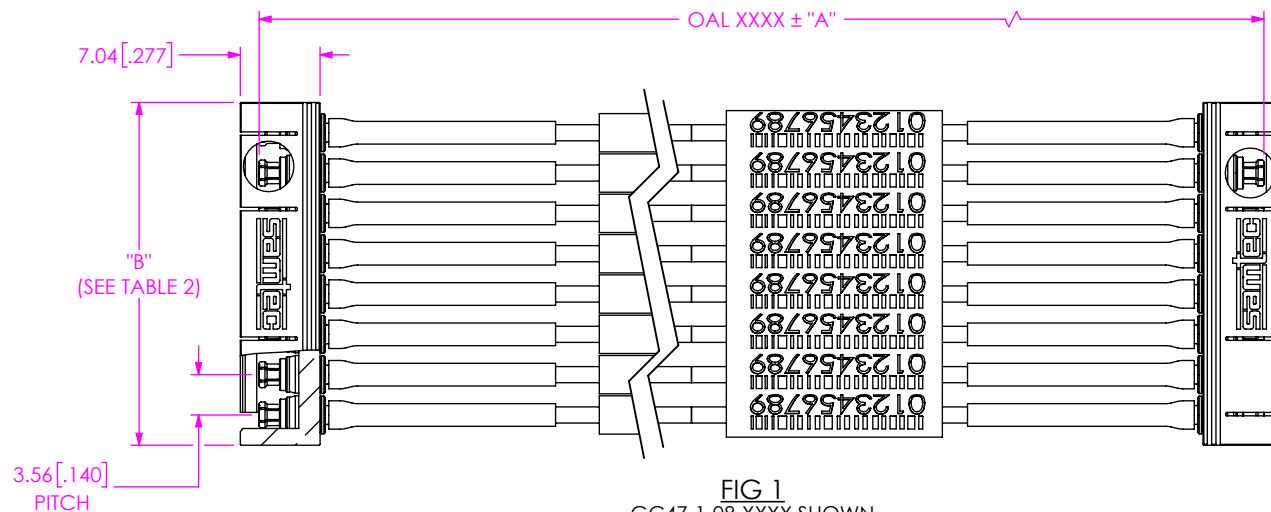
FIG 1
GC47-1-08-XXXX SHOWN
(DOUBLE ENDED GC47)
(SCALE 1.5:1)

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]	

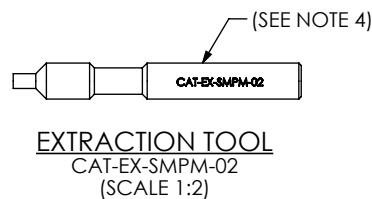
EXTRACTION TOOL
CAT-EX-SMPM-02
(SCALE 1:2)

TABLE 1	
OVERALL LENGTH	"G"
0100-0300 [3.94-11.81]	+5.0 [0.20] / -0.0 [0.00]
0301-1500 [11.85-59.06]	+12.0 [0.47] / -0.0 [0.00]
1501-3000 [59.09-118.11]	+25.0 [0.98] / -0.0 [0.00]
3001-7500 [118.15-295.28]	+50.0 [1.97] / -0.0 [0.00]
7501-9999 [295.31-393.67]	+1% / -0.0 [0.00]

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 MILLIMETERS ARE NOT SUPPORTED BY S.I. TEST DATA.
4. CAT-EX-SMPM-02 EXTRACTION TOOL AVAILABLE UPON REQUEST.
5. PCB CONNECTOR, TIGHTEN SCREW TO 0.9-1.3 IN-LBS USING 2mm HEX TOOL (NOT PROVIDED).

F:\DWG\SW\Exisprod\Assembly\RF\GCXX\GC47\GC47-X-XX-XXXXXX-X-XXXX.SLDDRW

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DO NOT SCALE DRAWING
SHEET SCALE: 3:1MATERIAL:
BEAD: ULTEM
CONTACT: FERRULE, OUTER CONTACT: BERYLLIUM COPPER
RETAINING RING & SCREW: STAINLESS STEEL
BODY: BERYLLIUM COPPER520 PARK EAST BLVD., NEW ALBANY, IN 47150
PHONE: 812-944-6733 FAX: 812-948-5047
e-Mail: info@SAMTEC.com code 55322DESCRIPTION:
GC47 GANGED CABLE ASSEMBLYDWG. NO.
GC47-X-XX-XXXXXX-X-XXXX

BY: ROSS P 7/22/22 SHEET 1 OF 18

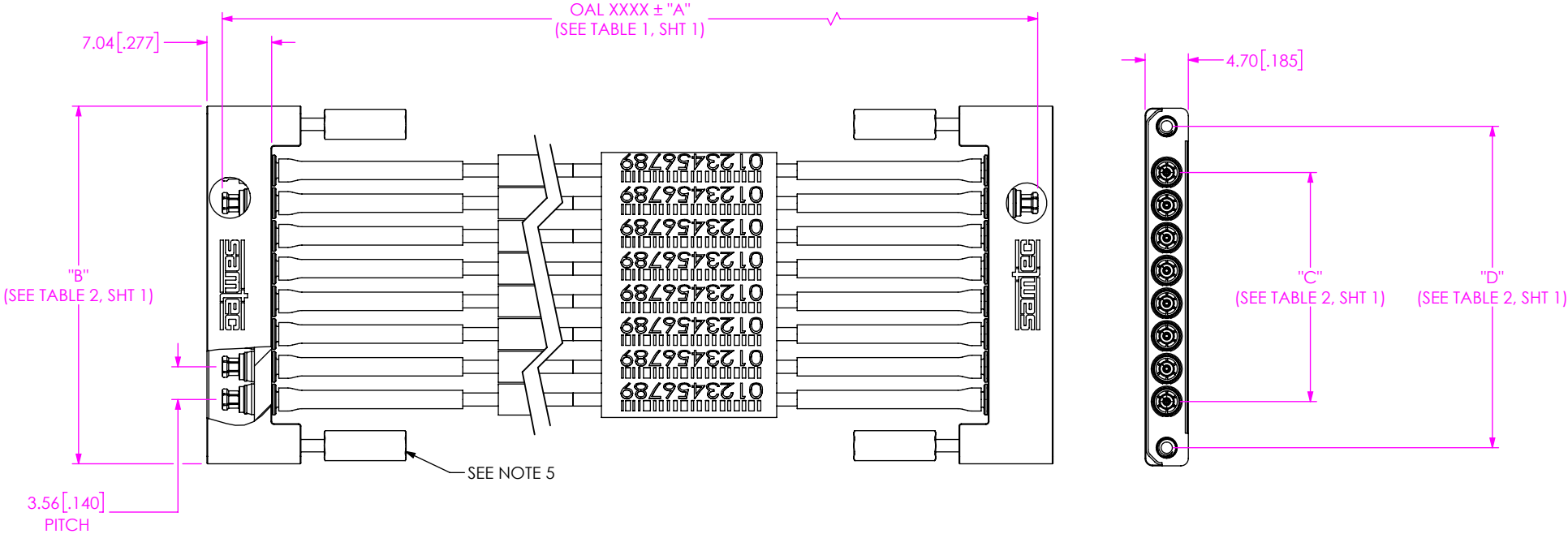


FIG 23
GC47-1-08-S-XXXX SHOWN
(DOUBLE ENDED GC47)
(SCALE 1.5:1)

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SHEET SCALE: 4:1

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520 PARK EAST BLVD, NEW ALBANY, IN 47150
PHONE: 812-944-6733 FAX: 812-948-5047
e-Mail info@SAMTEC.com code 55322

DESCRIPTION:
GC47 GANGED CABLE ASSEMBLY
DWG. NO.
GC47-X-XX-XXXXXX-X-XXXX

BY:ROSS P 7/22/22 SHEET 2 OF 18

TABLE 2

END OPTION	SERIES	GENDER	FINISH			SUBTRACTOR	CONNECTOR KIT P/N	FIGURE
			CENTER CONTACT	OUTER CONTACT	CABLE BODY			
-M0SP	SMPM	PLUG FULL DETENT	30μ" GOLD	10μ" GOLD	3μ" GOLD	5.17 [.204]	PRFM0-P-C-HG-047A-SD	SHT 4, FIG 2
-M0SJ	SMPM	JACK	30μ" GOLD	10μ" GOLD	3μ" GOLD	5.05 [.199]	PRFM0-J-C-HG-047A-SD	SHT 4, FIG 3
-92SP	2.92 MM	PLUG	50μ" GOLD	PASSIVATED	PASSIVATED	10.16 [.400]	PRF92-P-C-EP-047A-SS	SHT 5, FIG 4
-92SJ	2.92 MM	JACK	50μ" GOLD	PASSIVATED	PASSIVATED	10.06 [.396]	PRF92-J-C-EP-047A-SS	SHT 5, FIG 5
-18SP	1.85 MM	PLUG	50μ" GOLD	PASSIVATED	PASSIVATED	10.54 [.415]	PRF18-P-C-EP-047A-SS	SHT 6, FIG 6
-18SJ	1.85 MM	JACK	50μ" GOLD	PASSIVATED	PASSIVATED	11.18 [.440]	PRF18-J-C-EP-047A-SS	SHT 6, FIG 7
-24SP	2.4 MM	PLUG	50μ" GOLD	PASSIVATED	PASSIVATED	10.54 [.415]	PRF24-P-C-EP-047A-SS	SHT 7, FIG 9
-24SJ	2.4 MM	JACK	50μ" GOLD	PASSIVATED	PASSIVATED	11.43 [.450]	PRF24-J-C-EP-047A-SS	SHT 7, FIG 10
-M0RJ	SMPM	RIGHT ANGLE JACK	50μ" GOLD	50μ" GOLD	50μ" GOLD	1.40 [.055]	PRFM0-J-C-EE-047A-RD-1	SHT 8, FIG 11
-M0BJ	SMPM	BULKHEAD JACK	50μ" GOLD	50μ" GOLD	50μ" GOLD	5.76 [.227]	PRFM0-J-C-EE-047A-BD	SHT 8, FIG 12
-13SP	1.35 MM	PLUG	50μ" GOLD	PASSIVATED	PASSIVATED	9.45 [.372]	PRF13-P-C-VP-047A-SS	SHT 9, FIG 13
-13BJ	1.35 MM	JACK	50μ" GOLD	PASSIVATED	PASSIVATED	12.95 [.510]	PRF13-J-C-VP-047A-BS	SHT 9, FIG 14
-GC47	SMPM	JACK	50μ" GOLD	PASSIVATED	PASSIVATED	3.86 [.152]	PRFM0-J-C-EE-047A-SD-1	SHT 10, FIG 16
-01SP	SMA	PLUG	50μ" GOLD	10μ" GOLD	10μ" GOLD	8.07 [.318]	PRF01-P-C-EG-047A-SD	SHT 10, FIG 17
-01BJ	SMA	BULKHEAD JACK	50μ" GOLD	10μ" GOLD	10μ" GOLD	13.46 [.530]	PRF01-J-C-EG-047A-BD	SHT 11, FIG 18
-01SB	SMA	SEALED BULKHEAD JACK	50μ" GOLD	10μ" GOLD	10μ" GOLD	13.46 [.530]	PRF01-J-C-EG-047A-BD-1	SHT 11, FIG 19
-10SP	1.0 MM	PLUG	50μ" GOLD	PASSIVATED	PASSIVATED	7.67 [.302]	PRF10-P-C-VP-047A-SS-X	SHT 12, FIG 20
-10BJ	1.0 MM	JACK	50μ" GOLD	PASSIVATED	PASSIVATED	7.8 [.307]	PRF10-J-C-VP-047A-BS-X	SHT 12, FIG 21
-00SJ	SMP	JACK	50μ" GOLD	50μ" GOLD	50μ" GOLD	4.85 [.191]	PRF00-J-C-EE-047A-SD-X	SHT 13, FIG 22
-00MJ	SMP	R/A JACK	50μ" GOLD	50μ" GOLD	50μ" GOLD	1.07 [.042]	PRF00-J-C-EE-047A-RD-1-X	SHT 13, FIG 23
*-20VP	SIZE 20	PIN (JACK)	10μ" GOLD	30μ" GOLD	10μ" GOLD	10.52 [.414]	GPCC-20-V-P-C-GG-047A-SD-1	SHT 14, FIG 24
*-20VS	SIZE 20	SOCKET(PLUG)	10μ" GOLD	30μ" GOLD	10μ" GOLD	9.48 [.373]	GPCC-20-V-S-C-GG-047A-SD-2	SHT 14, FIG 25
-MTSJ	SMPM	JACK	30μ" GOLD	10μ" GOLD	3μ" GOLD	3.48 [.137]	PRFMT-J-C-EE-047A-SD-1	SHT 15, FIG 26
-M0UP	SMPM	PLUG FULL DETENT	30μ" GOLD	50μ" GOLD	50μ" GOLD	5.17 [.204]	PRFM0-P-C-HG-047A-UR	SHT 15, FIG 27
-M0UJ	SMPM	JACK	50μ" GOLD	50μ" GOLD	50μ" GOLD	3.89 [.153]	PRFM0-J-C-EE-047A-SD-3	SHT 16, FIG 28
*-M3RJ	SMP3	JACK	50μ" GOLD	50μ" GOLD	50μ" GOLD	0.78 [.031]	PRFM3-J-C-EE-047A-RD	SHT 16, FIG 29
*-N5SP	NANORF	PIN (JACK)	50μ" GOLD	50μ" GOLD	50μ" GOLD	0.24 [.009]	PRFN5-P-C-EE-047A-SD	SHT 17, FIG 30
*-N5SS	NANORF	SOCKET(PLUG)	50μ" GOLD	50μ" GOLD	50μ" GOLD	0.19 [.007]	PRFN5-S-C-EE-047A-SD	SHT 17, FIG 31
*-11SP	HMHF1	PLUG	30μ" GOLD	10μ" GOLD	10μ" GOLD	2.12 [.083]	HMHF1-P-C-HG-ST-047A	SHT 18, FIG 32
▲**-SING	SINGLE ENDED	-	-	-	-	-	-	-
▲**-XXXXX	STRIPPED & TINNED	-	-	-	-	-	-	SHT 1, FIG 8

** = END 2 OPTION ONLY

* = NOT RELEASED

▲ = NOT RELEASED FOR PHASE MATCHING OPTION

TABLE 3

END OPTION	MAXIMUM RETURN LOSS (PER END)	MAXIMUM VSWR (PER END)	MAXIMUM INSERTION LOSS (IL) (PER END)	FREQUENCY	PROTECTIVE CAP COLOR
-M0SP	21.53	1.183	.03+ .035*SQRT(Freq[GHz])	DC TO 40 GHz	GRAY
-M0SJ	21.53	1.183	.03+ .03*SQRT(Freq[GHz])	DC TO 40 GHz	GRAY
-92SP	22.51	1.162	.03+ .03*SQRT(Freq[GHz])	DC TO 40 GHz	YELLOW
-92SJ	22.51	1.162	.03+ .03*SQRT(Freq[GHz])	DC TO 40 GHz	YELLOW
-18SP	21.53	1.183	.03+ .04*SQRT(Freq[GHz])	DC TO 67 GHz	BLUE
-18SJ	21.53	1.183	.03+ .04*SQRT(Freq[GHz])	DC TO 67 GHz	BLUE
-24SP	22.51	1.162	.03+ .03*SQRT(Freq[GHz])	DC TO 50 GHz	GREEN
-24SJ	22.51	1.162	.03+ .03*SQRT(Freq[GHz])	DC TO 50 GHz	GREEN
-M0RJ	21.53	1.183	.03+ .03*SQRT(Freq[GHz])	DC TO 20 GHz	N/A
-M0BJ	21.53	1.183	.03+ .04*SQRT(Freq[GHz])	DC TO 40 GHz	N/A
-13SP	21.53	1.183	.03+ .04*SQRT(Freq[GHz])	DC TO 90 GHz	GRAY
-13BJ	21.53	1.183	.08+ .07*SQRT(Freq[GHz])	DC TO 90 GHz	GRAY
-GC47	22.51	1.162	.03+ .06*SQRT(Freq[GHz])	DC TO 26.5 GHz	N/A
	19.90	1.225		26.5 GHz TO 50 GHz	
-01SP	23.69	1.140	.03+ .03*SQRT(Freq[GHz])	DC TO 26.5 GHz	BROWN
-01BJ	23.69	1.140	.03+ .03*SQRT(Freq[GHz])	DC TO 26.5 GHz	BROWN
-01SB	23.69	1.140	.03+ .03*SQRT(Freq[GHz])	DC TO 26.5 GHz	BROWN
-10SP	21.53	1.183	.03+ .045*SQRT(Freq[GHz])	DC TO 90 GHz	WHITE
	19.90	1.225		90 GHz TO 110 GHz	
-10BJ	21.53	1.183	.03+ .045*SQRT(Freq[GHz])	DC TO 90 GHz	WHITE
	19.90	1.225		90 GHz TO 110 GHz	
-00SJ	25.08	1.118	.03+ .03*SQRT(Freq[GHz])	DC TO 26.5 GHz	WHITE
	19.90	1.225		26.5 GHz TO 40 GHz	
-00MJ	25.08	1.118	.03+ .03*SQRT(Freq[GHz])	DC TO 26.5 GHz	WHITE
	21.53	1.183		DC TO 40 GHz	
*-20VP	19.90	1.225	.03+ .045*SQRT(Freq[GHz])	40 GHz TO 67 GHz	N/A
	12.74	1.600		67 GHz TO 110 GHz	N/A
	21.53	1.183		DC TO 40 GHz	N/A
*-20VP	19.90	1.225	.03+ .045*SQRT(Freq[GHz])	40 GHz TO 67 GHz	N/A
	18.64	1.285		67 GHz TO 110 GHz	N/A
	23.69	1.140		DC TO 40 GHz	N/A
-MTSJ	20.67	1.204	.03+ .06*SQRT(Freq[GHz])	40 GHz TO 65 GHz	N/A
-M0UP	21.53	1.183	.03+ .035*SQRT(Freq[GHz])	DC TO 40 GHz	N/A
-M0UJ	21.53	1.183	.03+ .03*SQRT(Freq[GHz])	DC TO 40 GHz	N/A
*-M3RJ	21.53	1.183	.03+ .06*SQRT(Freq[GHz])	DC TO 20 GHz	N/A
*-N5SP	21.53	1.183	.03+ .03*SQRT(Freq[GHz])	DC TO 40 GHz	N/A
	19.90	1.225		40 TO 67 GHz	
*-N5SS	21.53	1.183	.03+ .03*SQRT(Freq[GHz])	DC TO 40 GHz	N/A
	19.90	1.225		40 TO 67 GHz	
*-11SP	21.53	1.183	.03+ .03*SQRT(Freq[GHz])	DC TO 15 GHz	N/A

* = NOT RELEASED

IL Max [dB] for Cable Assembly :

=(42*SQRT(Freq[GHz]) + 1.15*Freq[GHz])*OAL[mm]/30480+ End Option IL#1(See Table 3)+End Option IL#2(See Table 3)

VSWR Max for cable assembly:

= End Option VSWR#1(See Table 3)*End Option VSWR#2(See Table 3)

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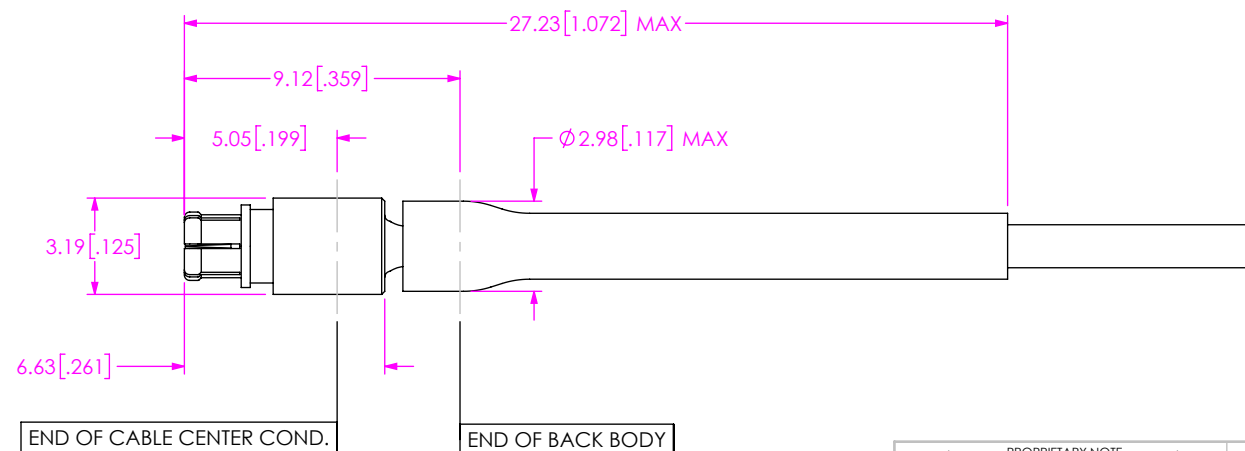
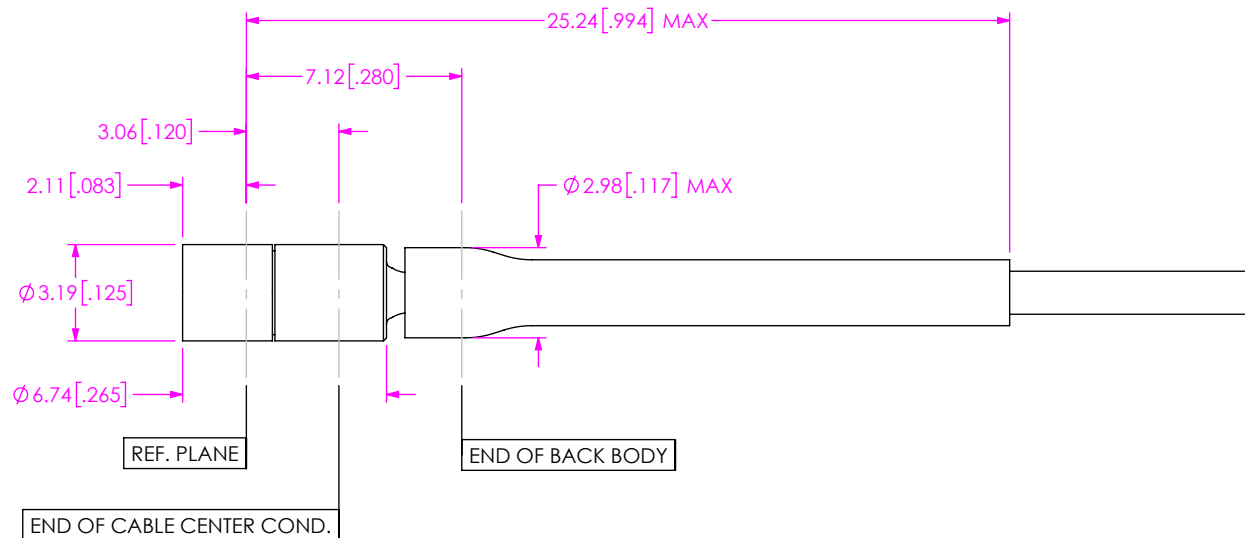
SHEET SCALE: 4:1

 DESCRIPTION:
 GC47 GANGED CABLE ASSEMBLY

 DWG. NO.
GC47-X-XX-XXXXXX-X-XXXX

BY: ROSS P 7/22/22 SHEET 3 OF 18

 520 PARK EAST BLVD. NEW ALBANY, IN 47150
 PHONE: 812-944-6733 FAX: 812-948-5047
 e-Mail info@SAMTEC.com code 53322



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DESCRIPTION:
GC47 GANGED CABLE ASSEMBLY

DWG. NO.
GC47-X-XX-XXXXXX-X-XXXX

BY: ROSS P 7/22/22 SHEET 4 OF 18

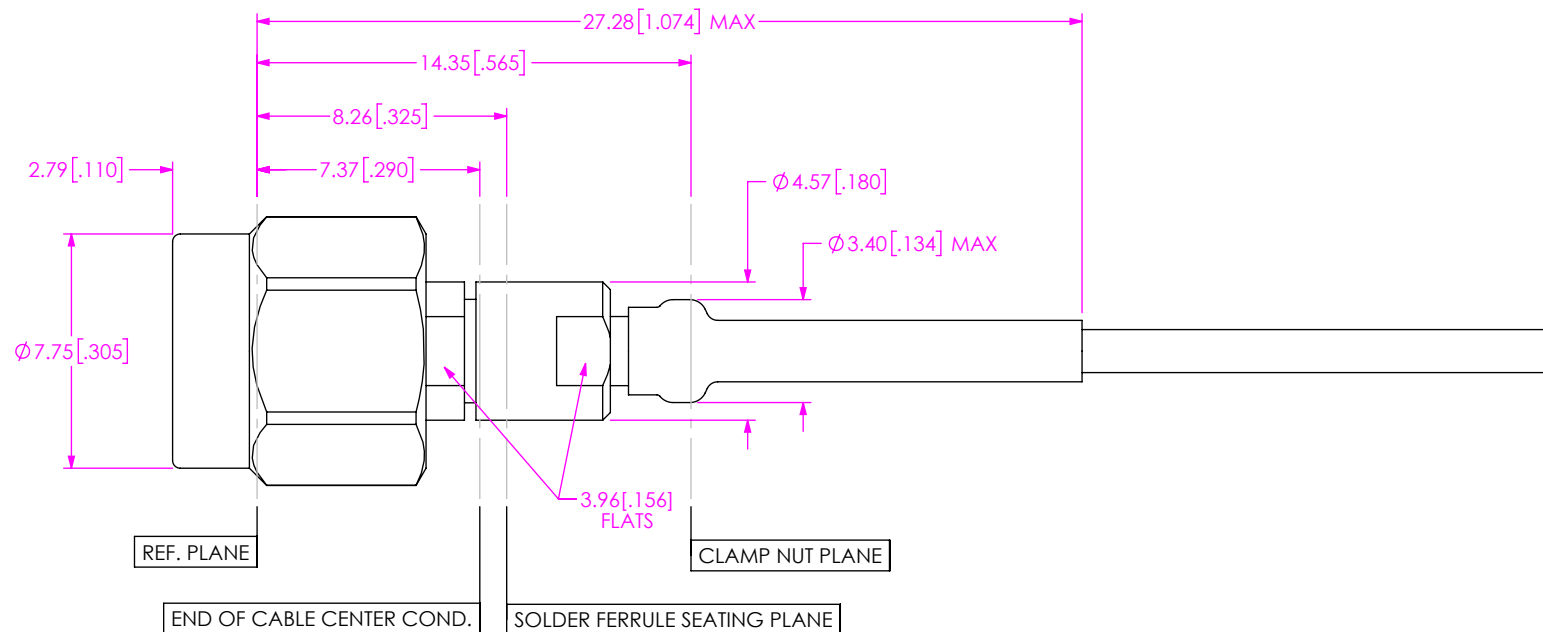


FIG 4
-92SP SHOWN
(PROTECTIVE CAP NOT SHOWN FOR CLARITY)

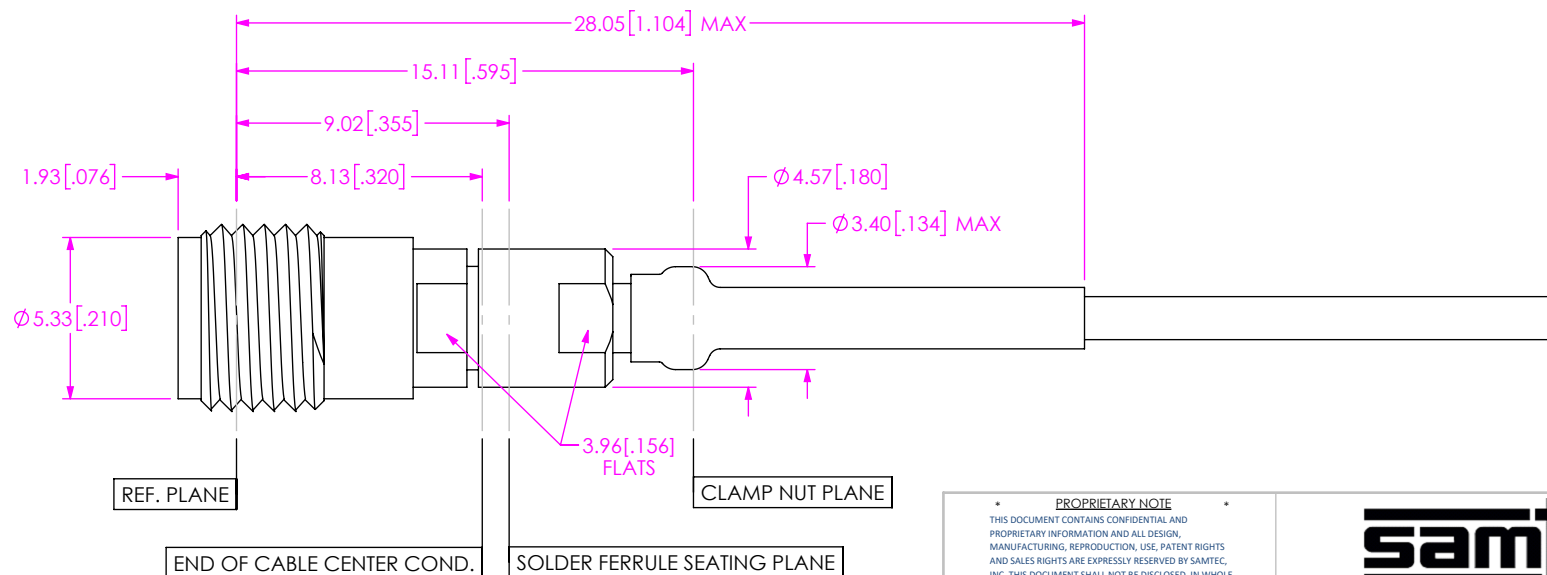


FIG 5
-92SJ SHOWN
(PROTECTIVE CAP NOT SHOWN FOR CLARITY)

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DESCRIPTION:
GC47 GANGED CABLE ASSEMBLY

DWG. NO.
GC47-X-XX-XXXXXX-X-XXXX

BY: ROSS P 7/22/22 SHEET 5 OF 18

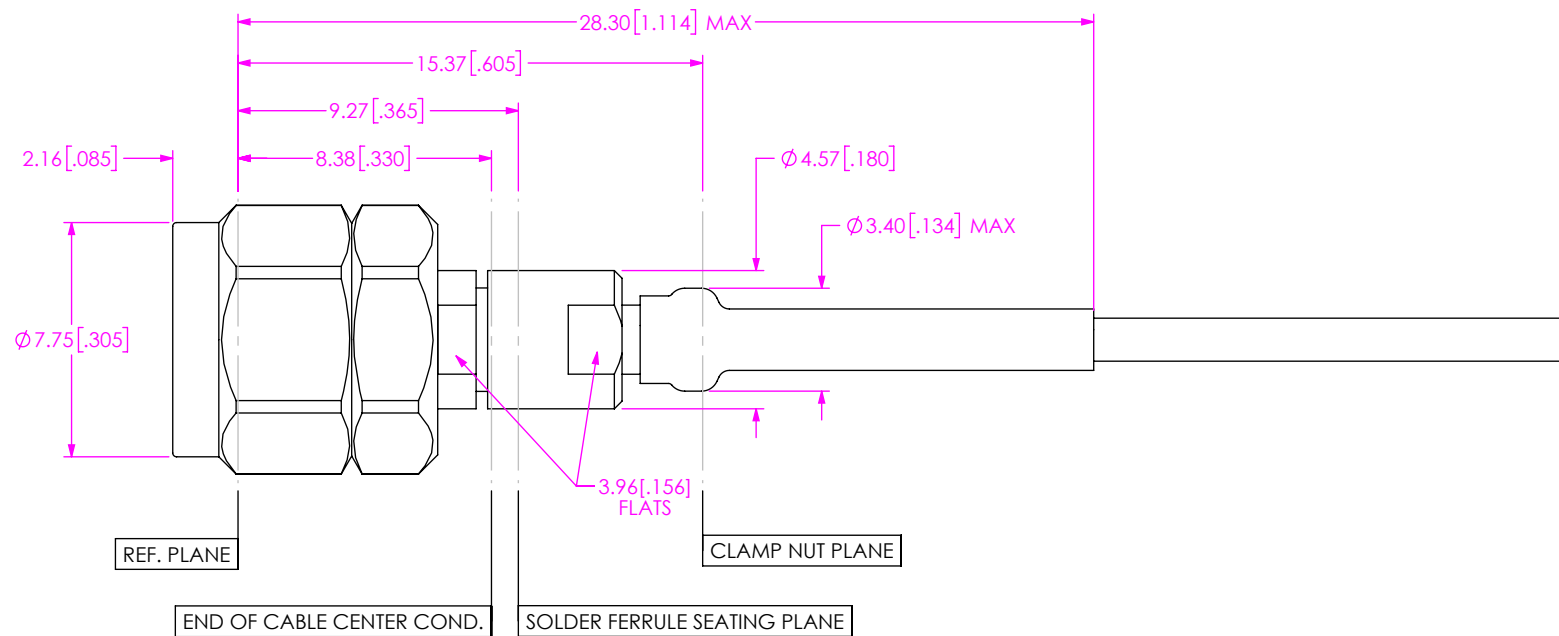


FIG 6
-18SP SHOWN
(PROTECTIVE CAP NOT SHOWN FOR CLARITY)

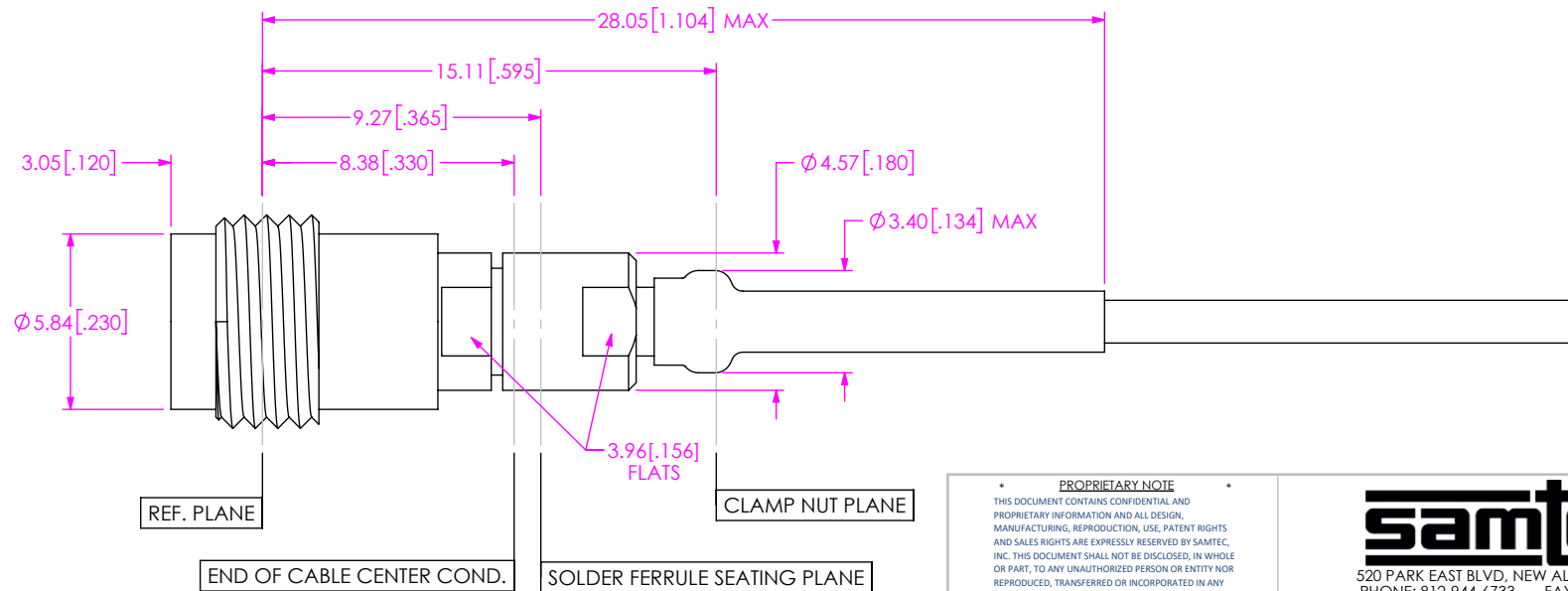


FIG 7
-18SJ SHOWN
(PROTECTIVE CAP NOT SHOWN FOR CLARITY)

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e-Mail info@SAMTEC.com code 55322

DESCRIPTION:
GC47 GANGED CABLE ASSEMBLY

DWG. NO.
GC47-X-XX-XXXXXX-X-XXXX

BY: ROSS P 7/22/22 SHEET 6 OF 18

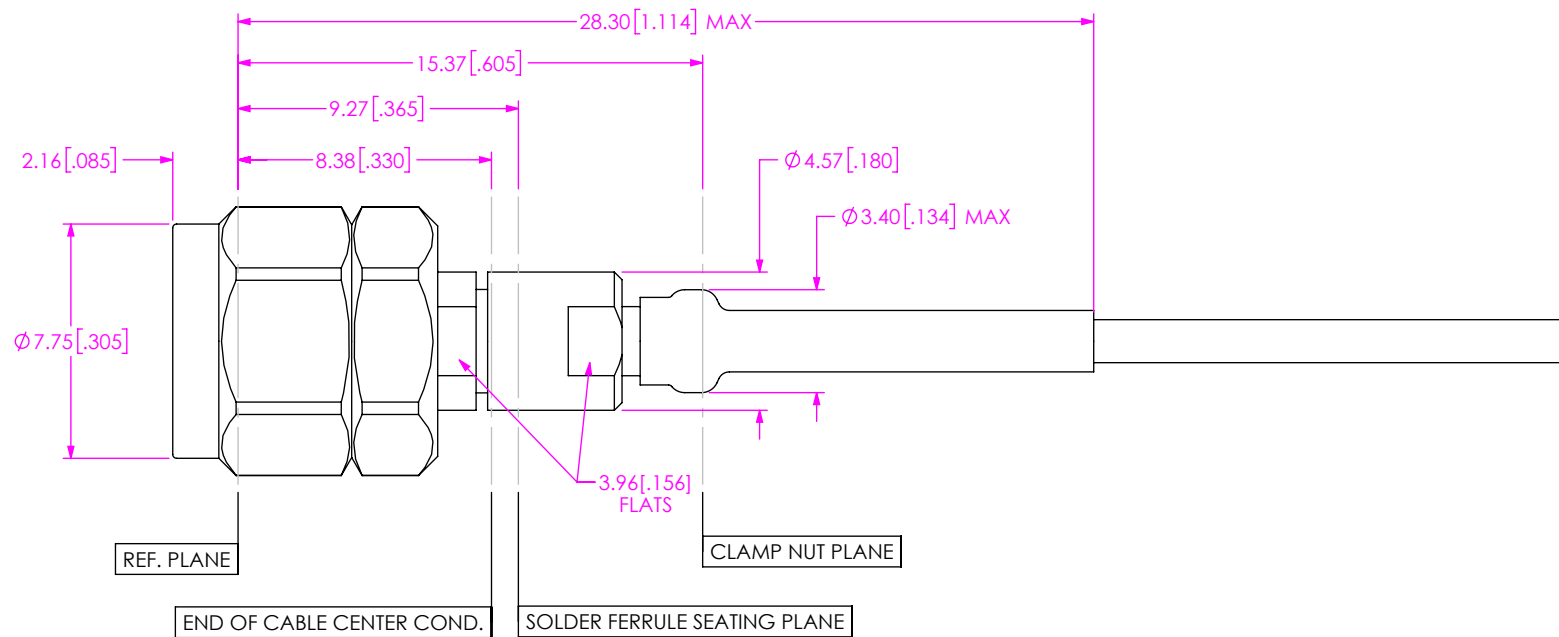


FIG 9
-24SP SHOWN
(PROTECTIVE CAP NOT SHOWN FOR CLARITY)

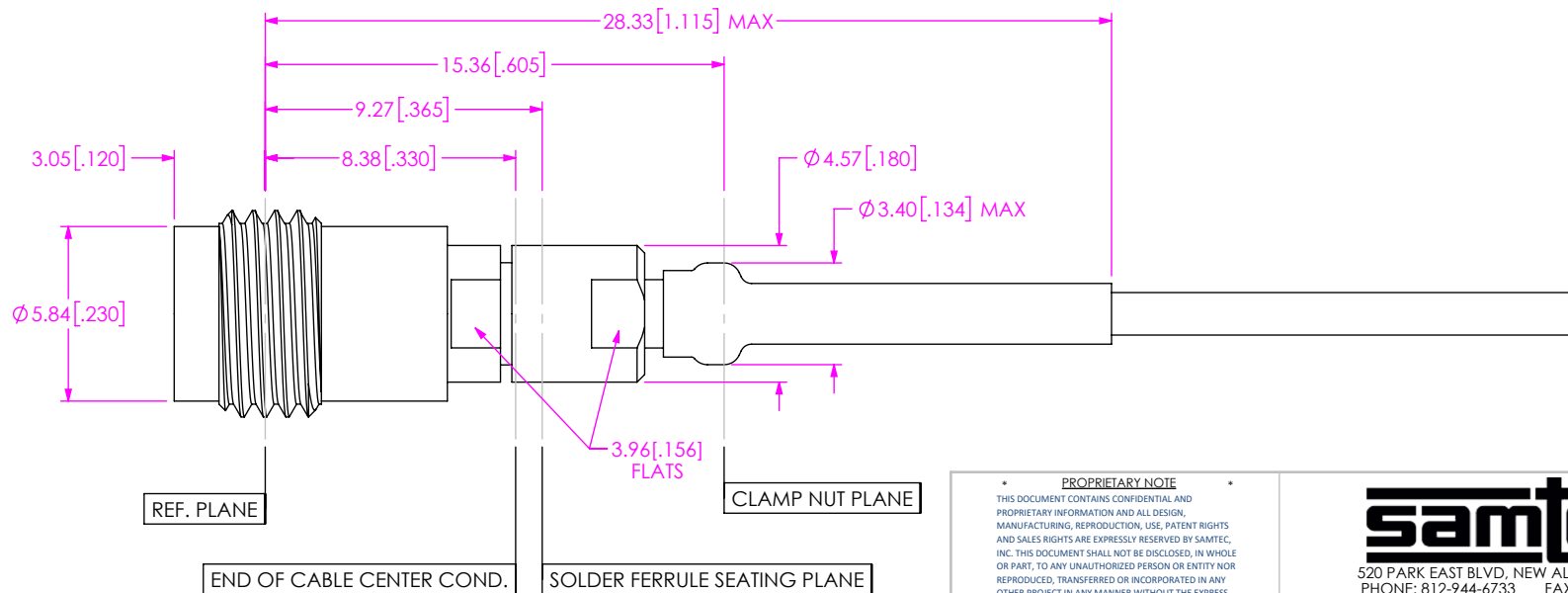


FIG 10
-24SJ SHOWN
(PROTECTIVE CAP NOT SHOWN FOR CLARITY)

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SHEET SCALE: 4:1

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DESCRIPTION:	GC47 GANGED CABLE ASSEMBLY
DWG. NO.	GC47-X-XX-XXXXXX-X-XXXX

BY: ROSS P	7/22/22	SHEET 7 OF 18
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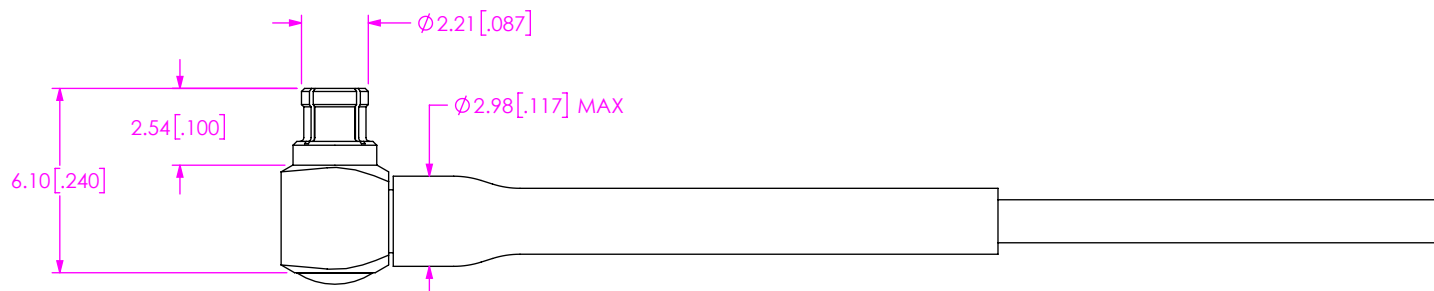


FIG 11
-MORJ SHOWN

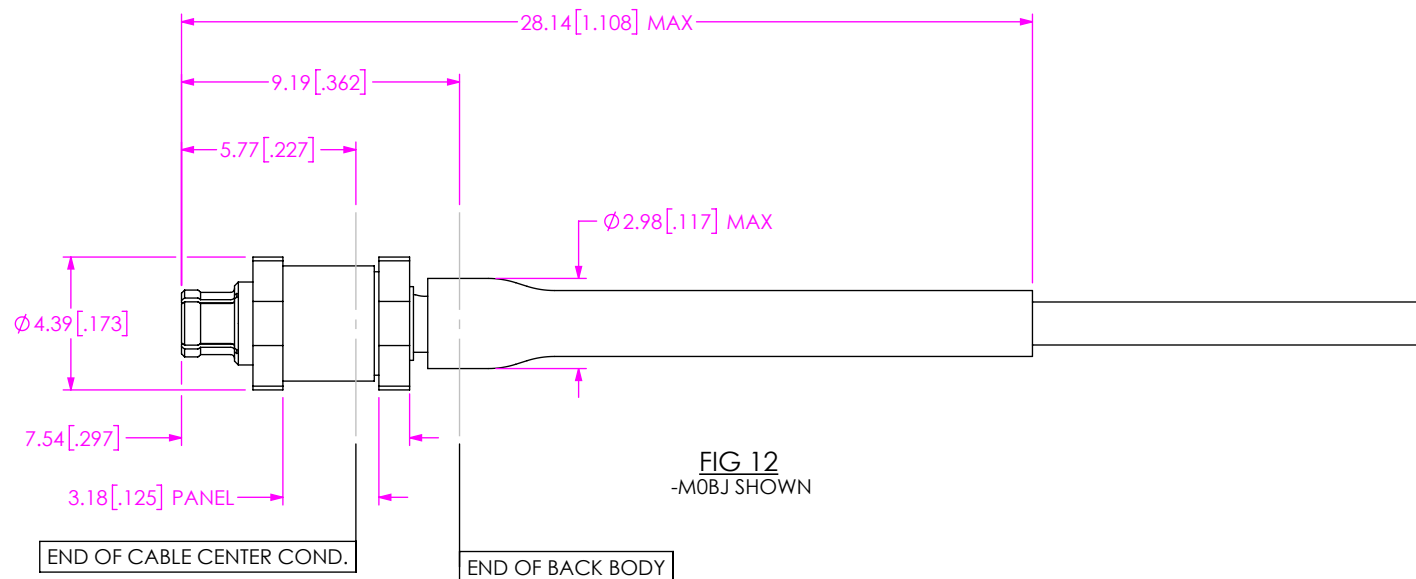


FIG 12
-MOBJ SHOWN

F:\DWG\SW\Exisprod\Assembly\RF\GCXX\GC47\GC47-X-XX-XXXXXX-X-XXXX.SLDDRW

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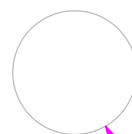
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DESCRIPTION:
GC47 GANGED CABLE ASSEMBLY

DWG. NO.
GC47-X-XX-XXXXXX-X-XXXX

BY: ROSS P 7/22/22 SHEET 8 OF 18



$\phi 4.09 \pm 0.25 [.161 \pm .010]$

RECOMMENDED PANEL VIEW

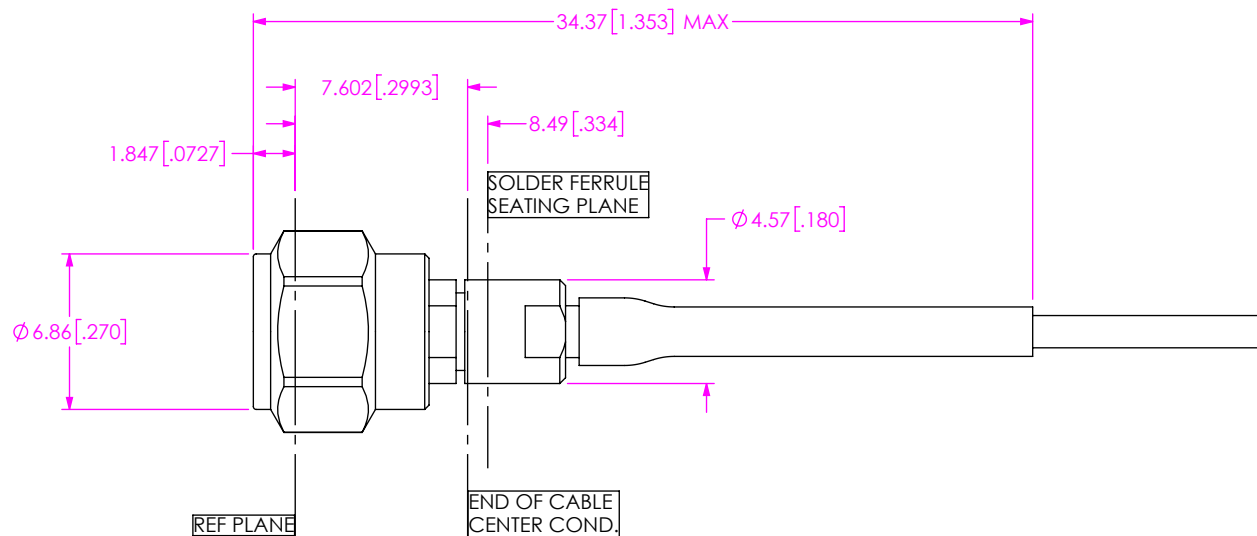


FIG 13
-13SP SHOWN

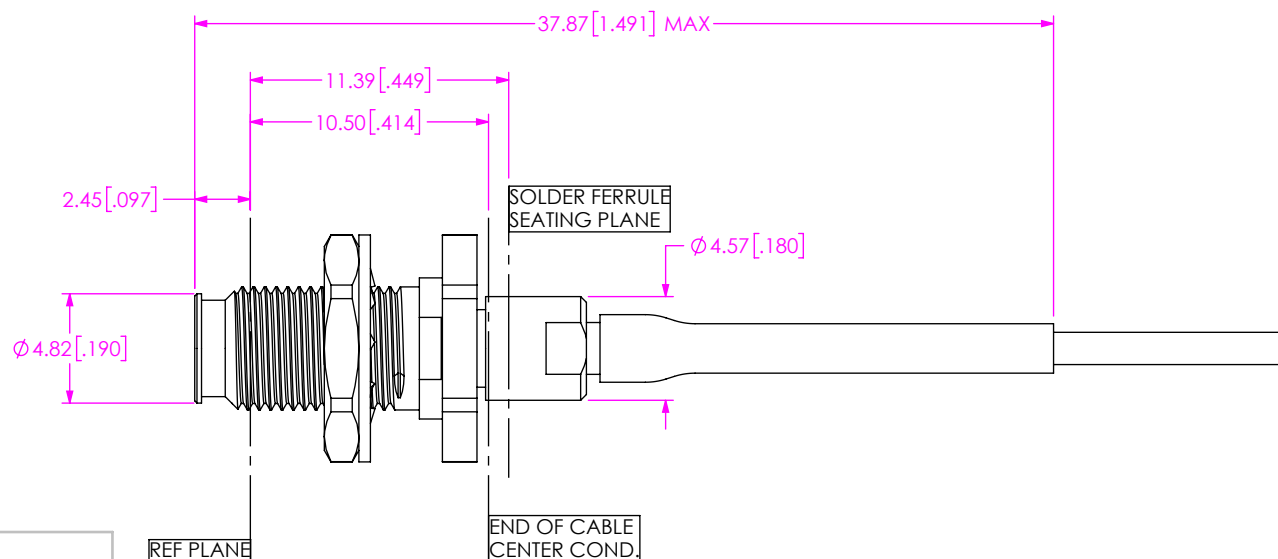
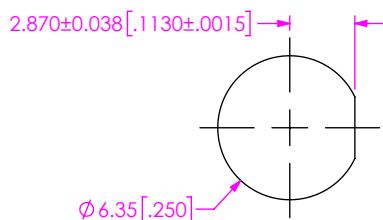
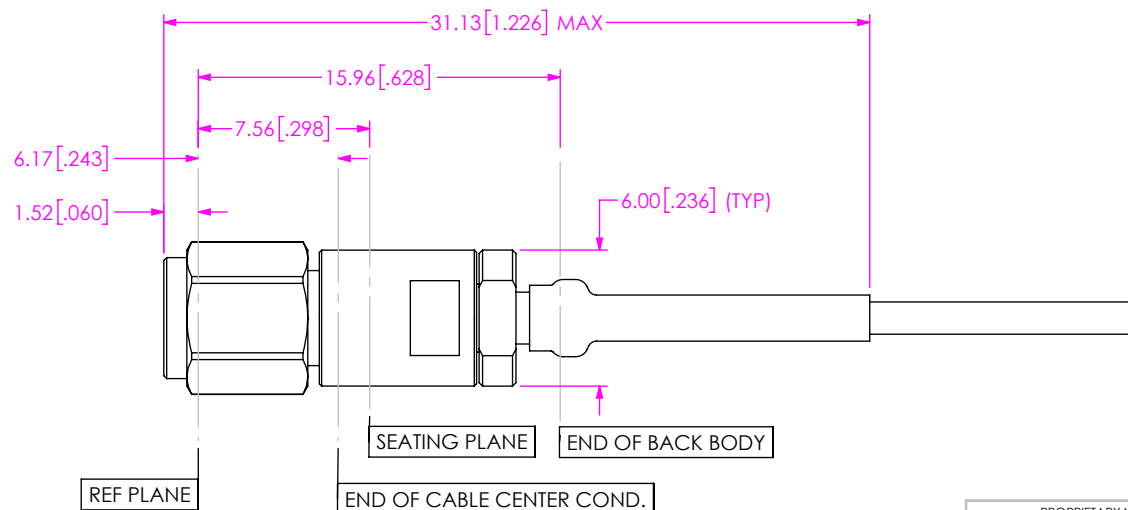
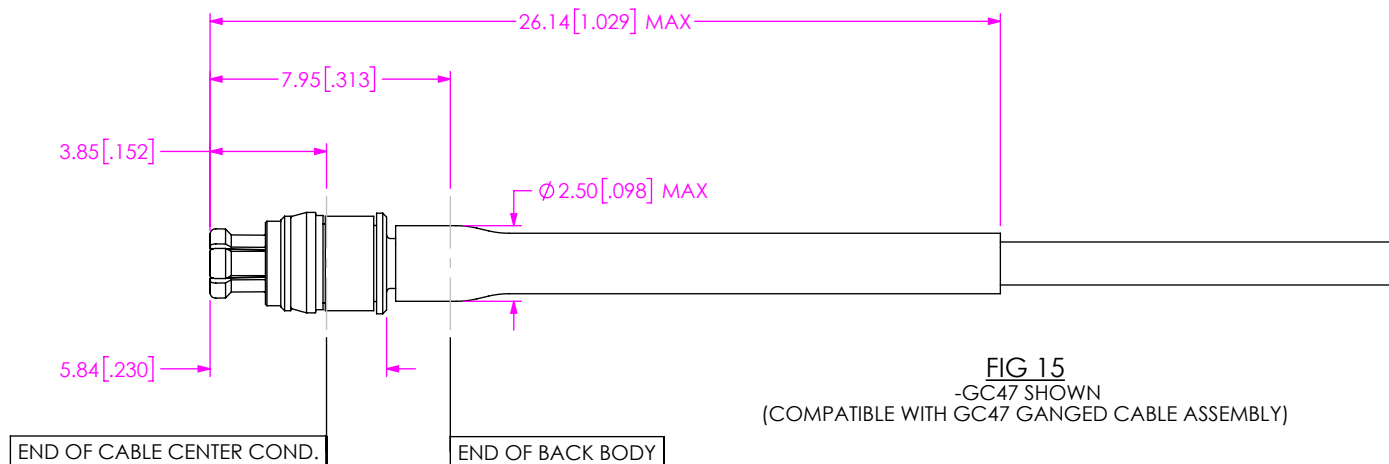


FIG 14
-13BJ SHOWN



PANEL CUT OUT
NOT TO SCALE

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	DWG. NO.	GC47-X-XX-XXXXXX-X-XXXX
SHEET SCALE: 4:1	BY: ROSS P	7/22/22 SHEET 10 OF 18

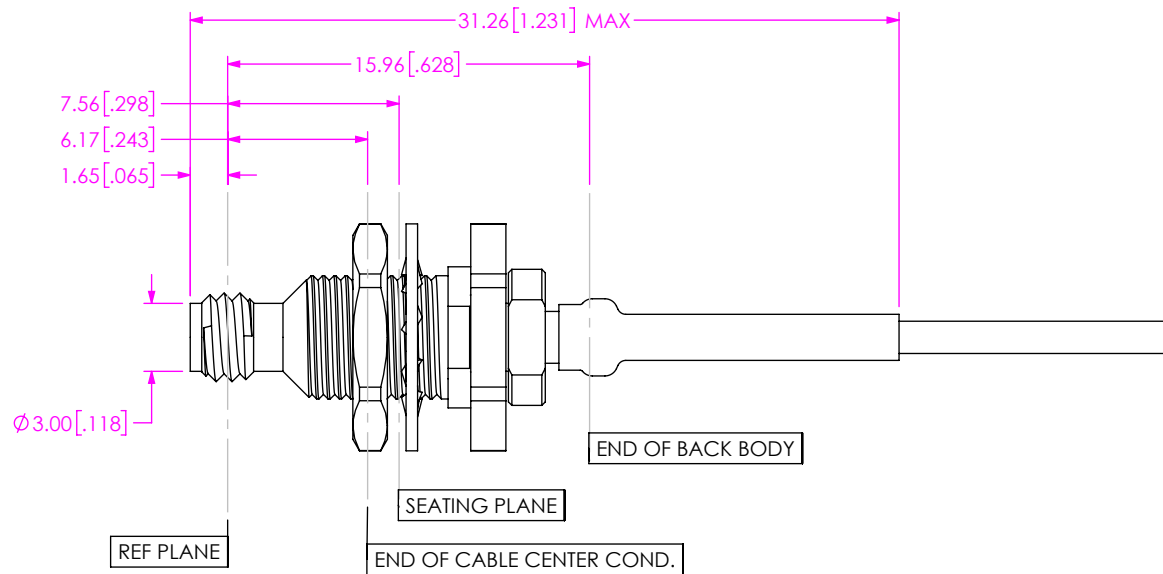


FIG 17
-10BJ SHOWN
(PROTECTIVE CAP NOT SHOWN FOR CLARITY)

RECOMMENDED PANEL CUTOUT

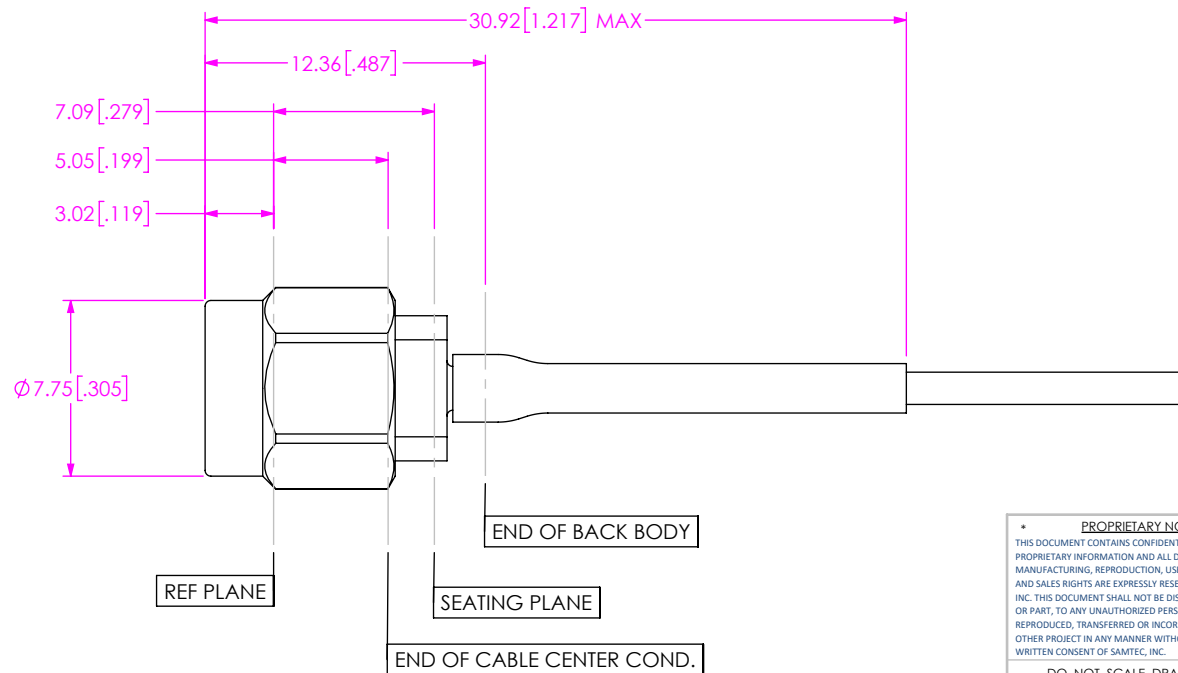
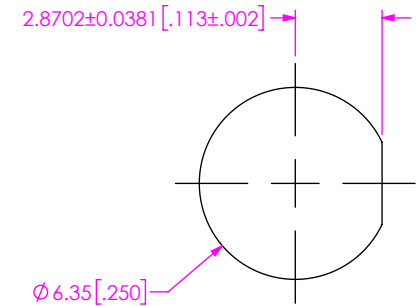


FIG 18
-01SP SHOWN
(PROTECTIVE CAP NOT SHOWN FOR CLARITY)

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e-Mail: info@SAMTEC.com code 55322

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DWG. NO.
GC47-X-XX-XXXXXX-X-XXXX

BY: ROSS P 7/22/22 SHEET 11 OF 18

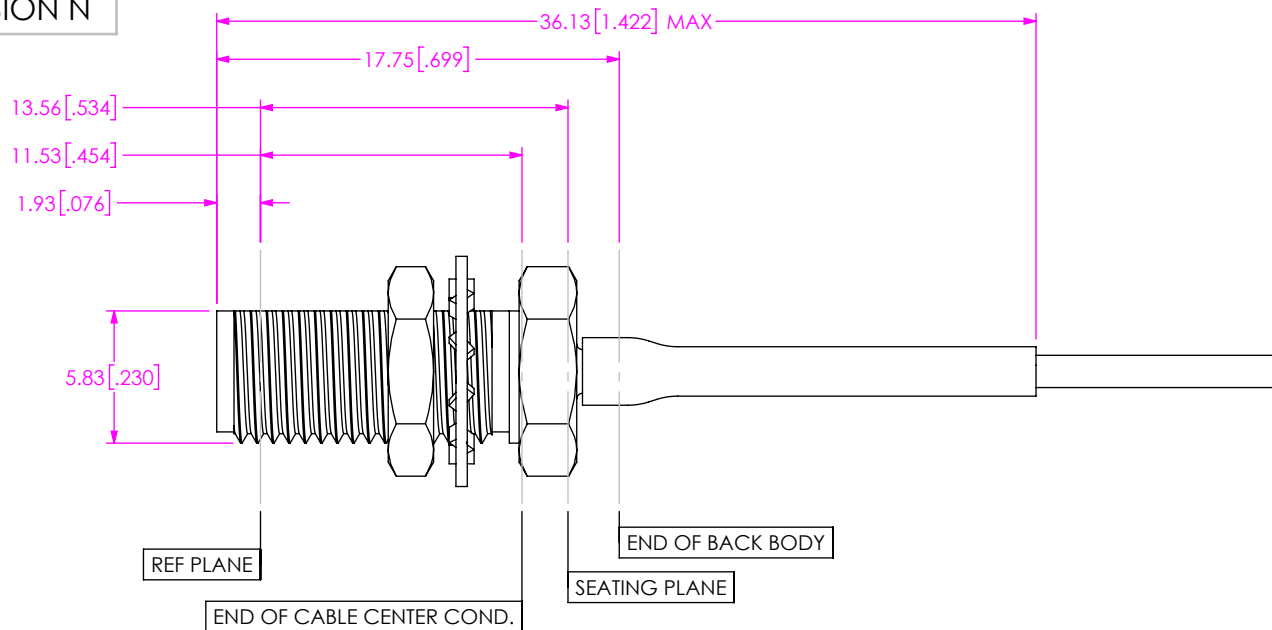


FIG 19
-01BJ SHOWN
(PROTECTIVE CAP NOT SHOWN FOR CLARITY)

RECOMMENDED PANEL CUTOUT
3.80 [.150] MAX. PANEL THICKNESS

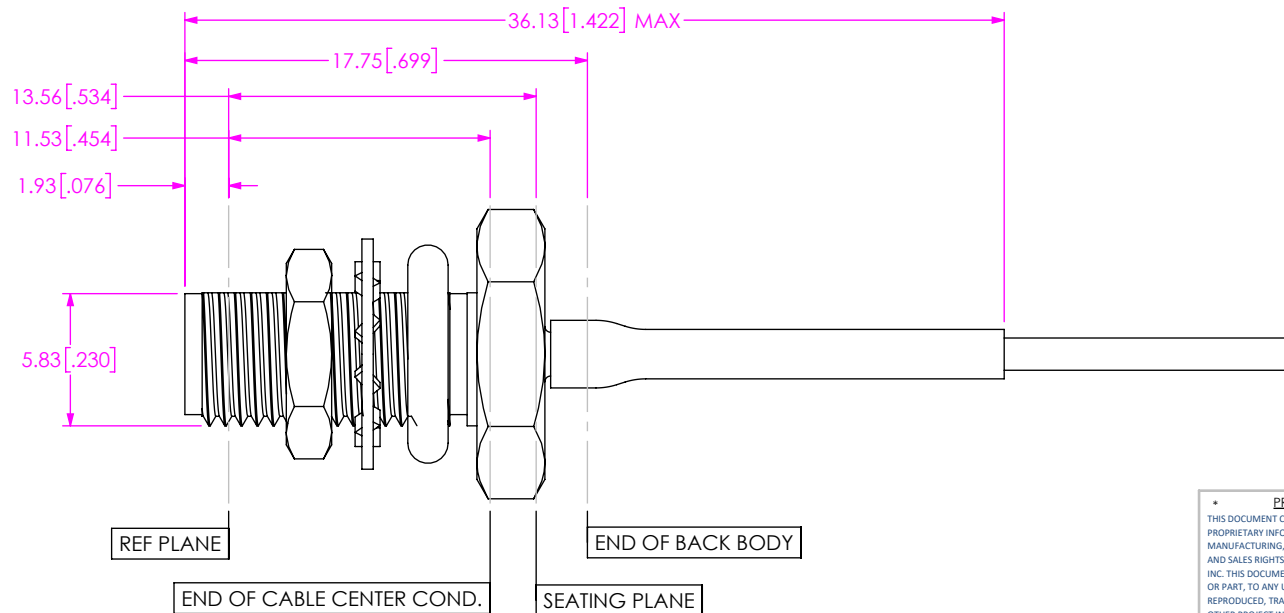
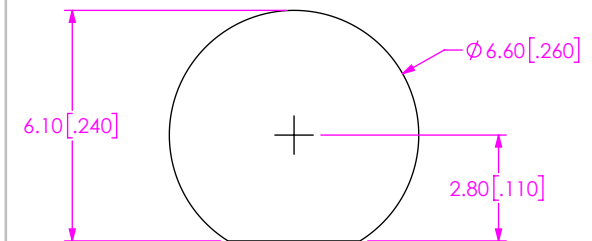
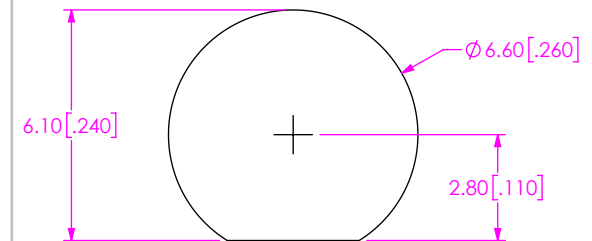


FIG 20
-01SB SHOWN
(PROTECTIVE CAP NOT SHOWN FOR CLARITY)

RECOMMENDED PANEL CUTOUT
3.80 [.150] MAX. PANEL THICKNESS



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DESCRIPTION:
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DWG. NO.
GC47-X-XX-XXXXXX-X-XXXX

BY: ROSS P 7/22/22 SHEET 12 OF 18

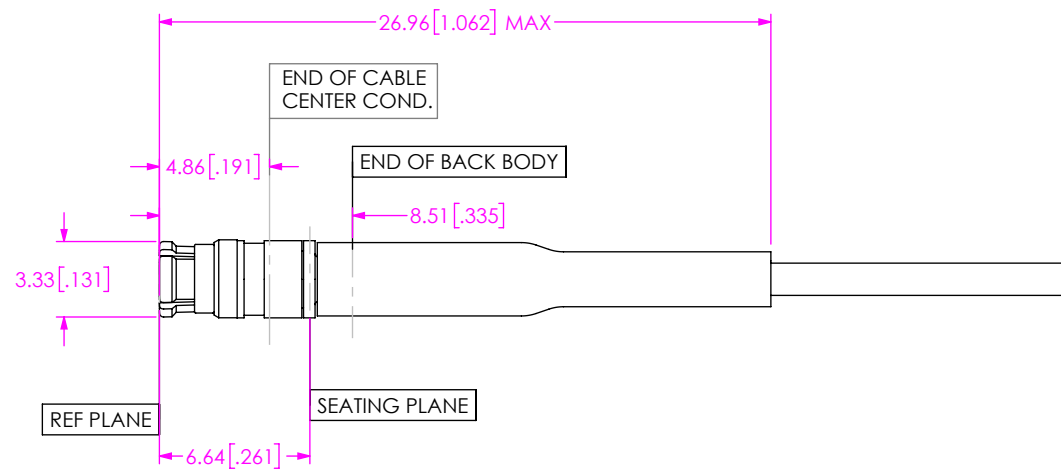


FIG 21
-00SJ SHOWN
(PROTECTIVE CAP NOT SHOWN FOR CLARITY)

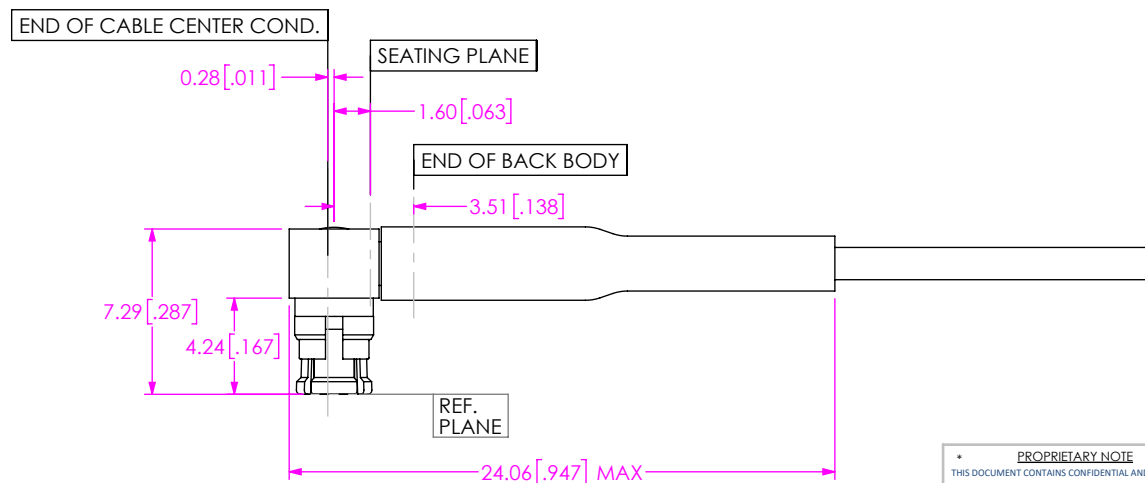


FIG 22
-00MJ SHOWN
(PROTECTIVE CAP NOT SHOWN FOR CLARITY)

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e-Mail info@SAMTEC.com code 55322

DESCRIPTION:

GC47 GANGED CABLE ASSEMBLY

DWG. NO.

GC47-X-XX-XXXXXX-X-XXXX

BY: ROSS P

7/22/22

SHEET 13 OF 18

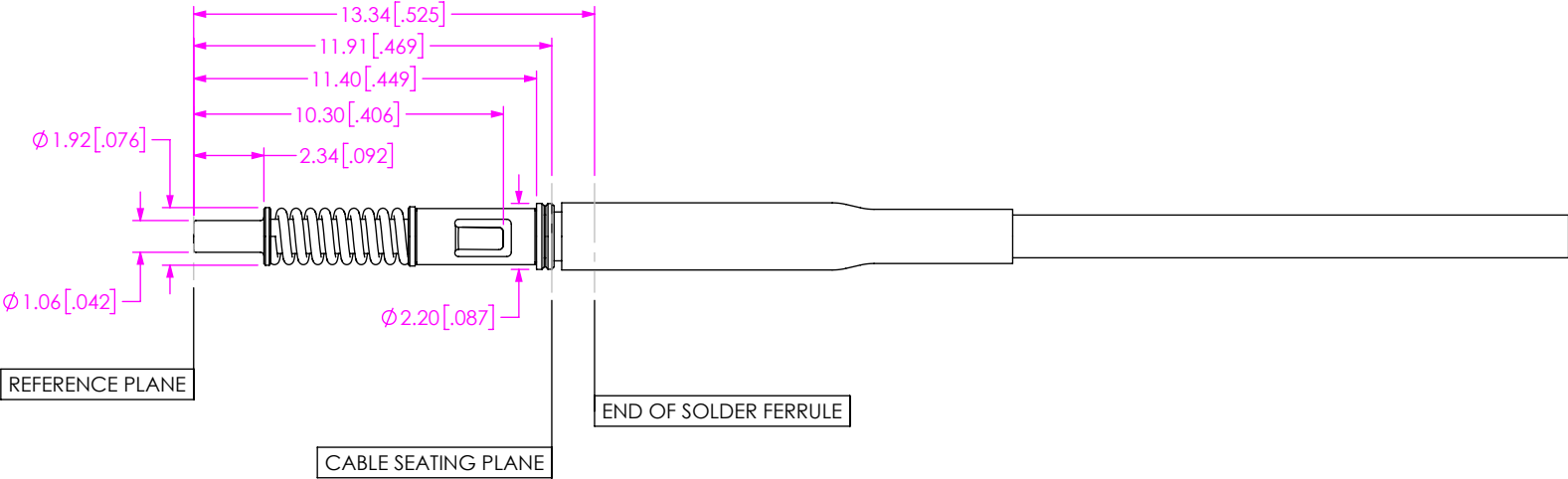


FIG 24
-20VP SHOWN

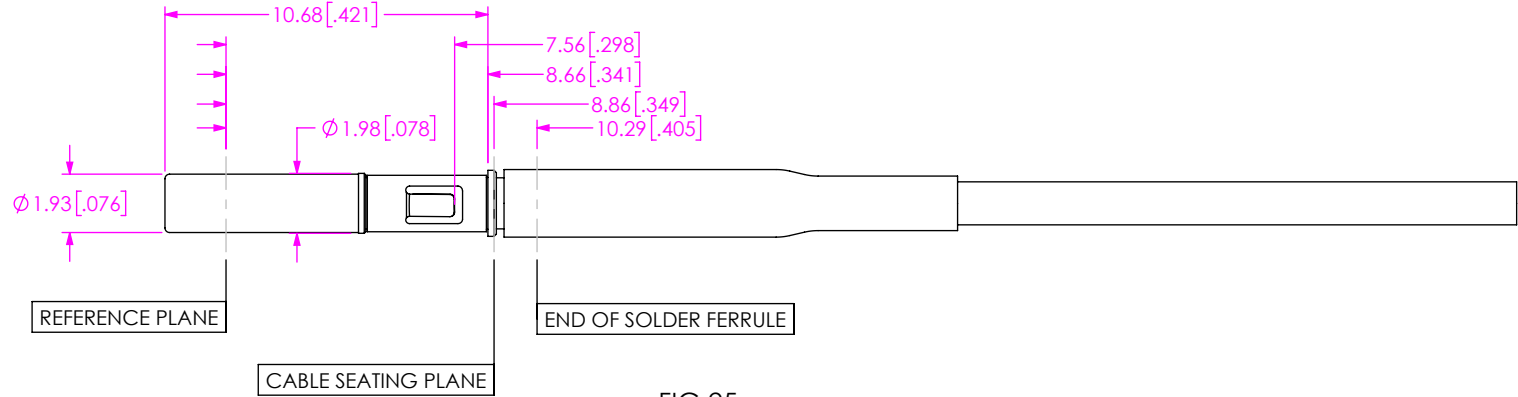


FIG 25
-20VS SHOWN

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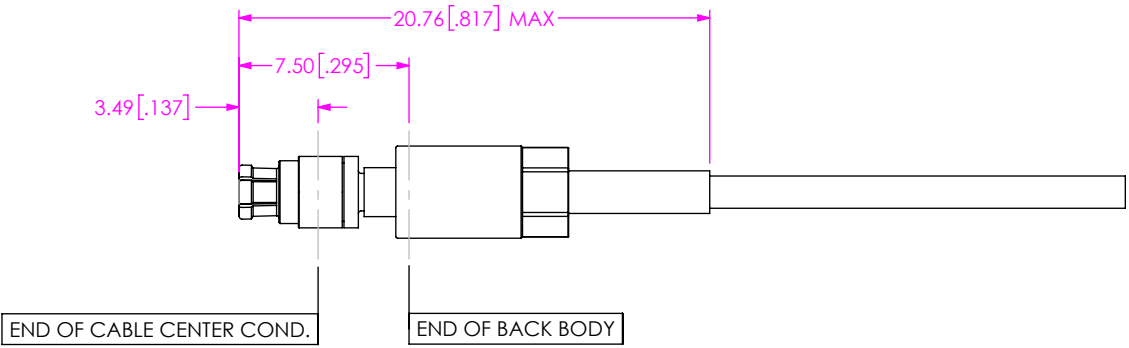


FIG 26
-MTSJ SHOWN

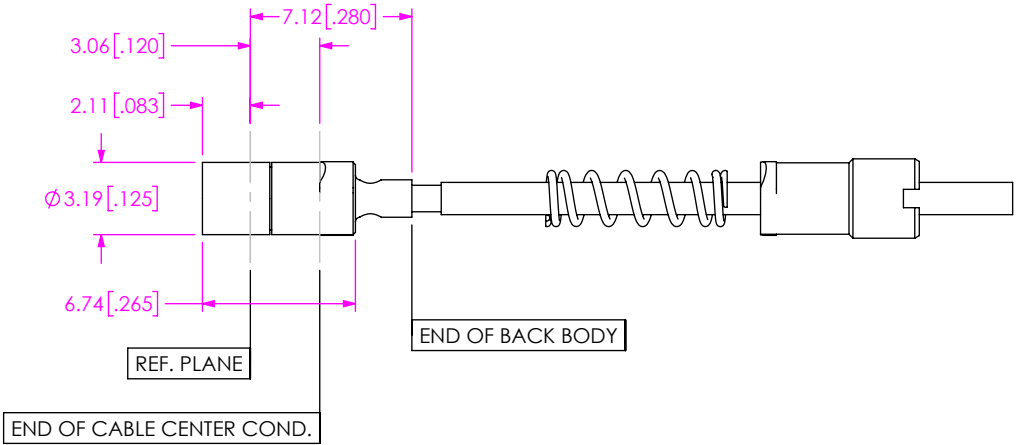


FIG 27
-MOUP SHOWN
(COMPATIBLE WITH B1SM GANGED ASSEMBLY)

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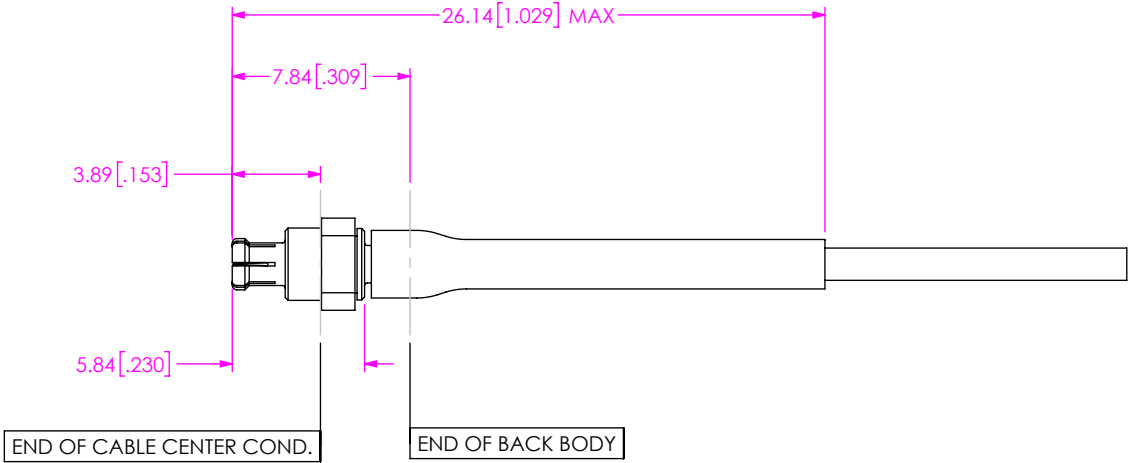


FIG 28
-M0UJ SHOWN
(COMPATIBLE WITH P1SM GANGED ASSEMBLY)

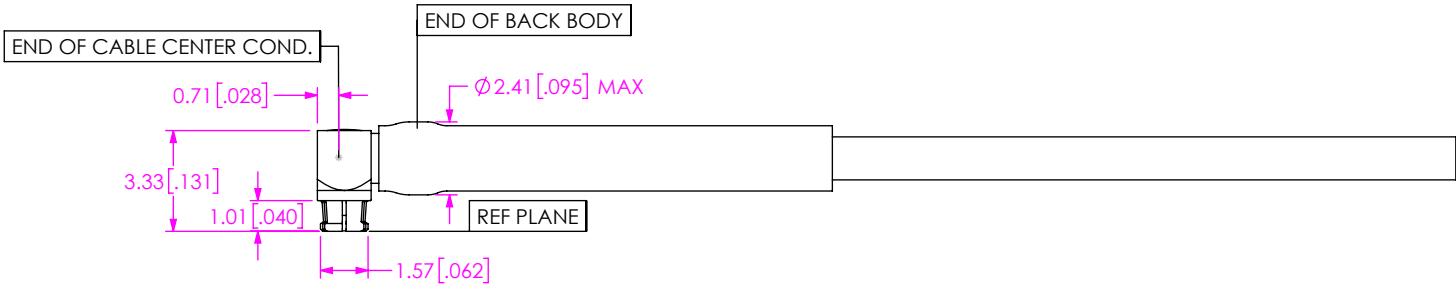


FIG 29
-M3RJ SHOWN

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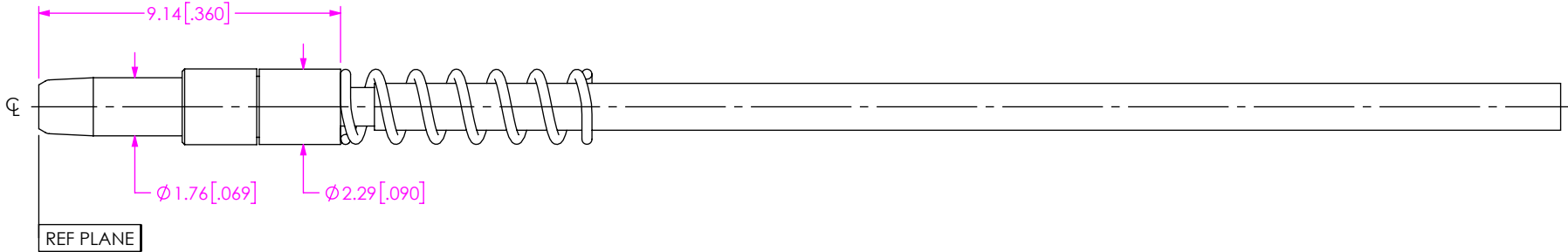


FIG 30
-N5SP SHOWN

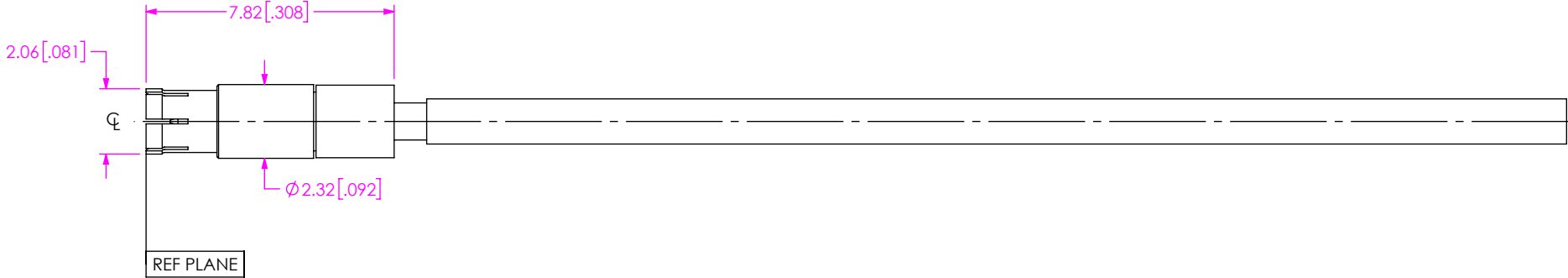


FIG 31
-N5SS SHOWN

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SHEET SCALE: 5:1	BY: ROSS P 7/22/22 SHEET 17 OF 18

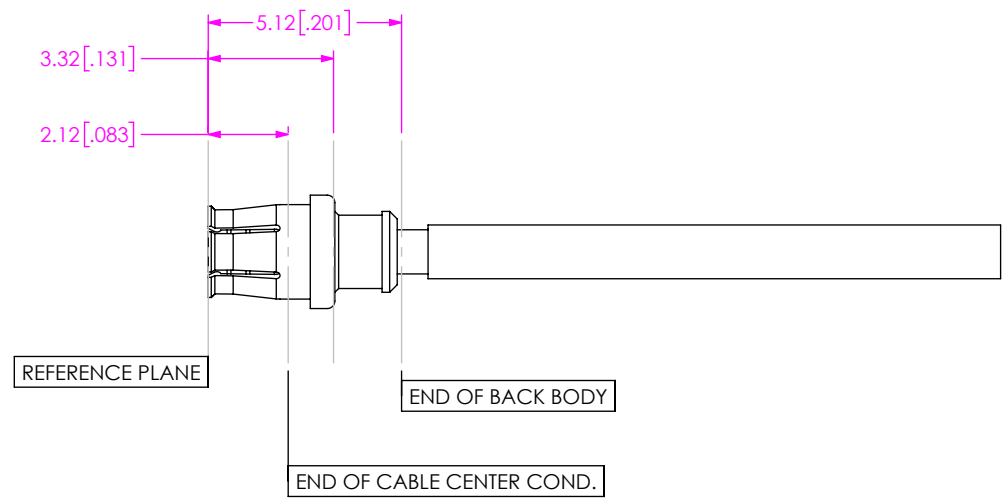


FIG 32
-11SP SHOWN

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	SHEET SCALE: 5:1	DWG. NO. GC47-X-XX-XXXXXX-X-XXXX BY: ROSS P 7/22/22 SHEET 18 OF 18