

THIS PRODUCT MANUFACTURED
WITH LEAD-FREE PROCESSING

CABLE CALLOUT
047-A: CCA-047-PFA CABLE

END 1 CONNECTOR
(SEE TABLE 2, SHT 2)

END 2 CONNECTOR
(SEE TABLE 2, SHT 2)

NO. OF PHASE MATCHING CABLES
-XX: (XX CABLE FOR THIS PART NUMBER)
(XX CAN BE 02 TO 16)
-BLANK: 1 CABLE FOR THIS PART NUMBER, ONLY
AVAILABLE WITH NO PHASE MATCHING OPTION

PHASE MATCHING SPEC (RANGE)
-1: 1 PICO-SECOND
-2: 2 PICO-SECONDS
-5: 5 PICO-SECONDS
-BLANK: NO PHASE MATCHING

OVERALL ASSEMBLY LENGTH (OAL)
XXXX (MILLIMETERS)
(0100 MIN)
(SEE NOTE 10)

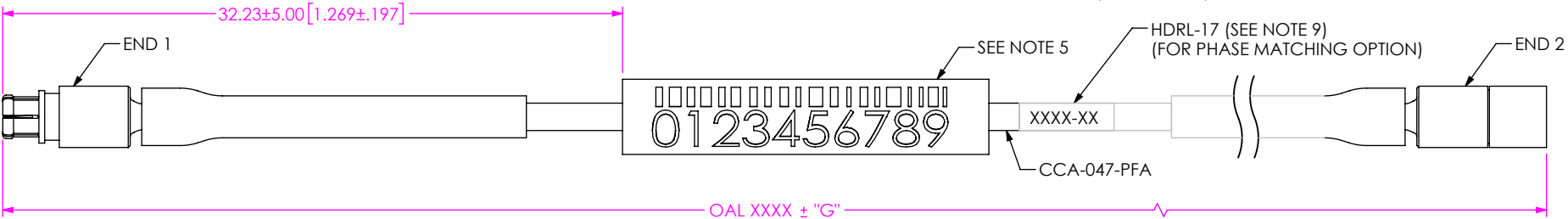


FIG 1
RF047-A-M0SJ-M0SP-XXXX SHOWN
(PROTECTIVE CAPS NOT SHOWN FOR CLARITY)

TABLE 1	
OVERALL LENGTH	"G"
0100-0300 [3.94-11.81]	+5.0 [.20] / -0.0 [.00]
0301-1500 [11.85-59.06]	+12.0 [.47] / -0.0 [.00]
1501-3000 [59.09-118.11]	+25.0 [.98] / -0.0 [.00]
3001-7500 [118.15-295.28]	+50.0 [1.97] / -0.0 [.00]
7501-9999 [295.31-393.67]	+1% / -0.0 [.00]

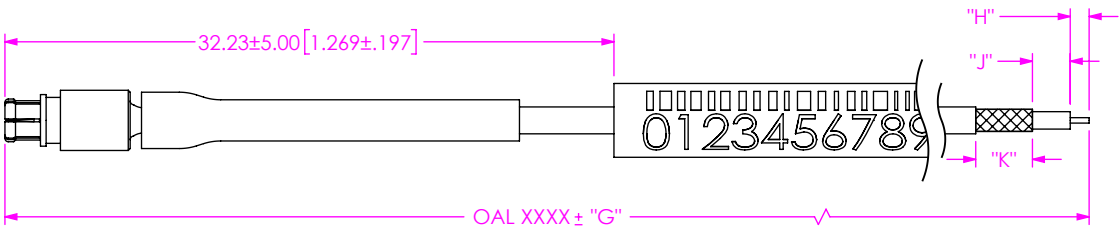


FIG 8
RF047-A-M0SJ-102030-XXXX SHOWN (SEE NOTE 7 & 8)

"K" FORMAT: X.X
"J" FORMAT: X.X
"H" FORMAT: X.X

DO NOT LEAVE ANY SPACE BLANK,
EACH MUST CONTAIN A
NUMERIC CHARACTER 0 THRU 9

NOTES:

- NOTE DELETED.
- NOTE DELETED.
- CONNECTORS TO BE ORIENTED ACCORDING TO CO-RF-WI-3048-M.
- CABLE ASSEMBLY TO HAVE PROTECTIVE CAPS ASSEMBLED ON EACH END AND INDIVIDUALLY PACKAGED IN ESD BAG.
- ASSEMBLY TO BE 100% TESTED FOR RETURN LOSS AND INSERTION LOSS. LABEL EACH INDIVIDUAL CABLE ASSEMBLY WITH 1 LABEL-SER-02. RETURN LOSS SPECIFICATION IS EQUAL TO THE HIGHEST END OPTION LIMIT.
- CABLE LENGTHS LONGER THAN 1000 MILLIMETERS ARE NOT SUPPORTED BY S.I. TEST DATA.
- DIM "H", "J", AND "K" HAVE A MINIMUM VALUE OF 0.0mm & A MAXIMUM VALUE OF 9.9mm[.39"].
- FOR STRIPPED AND TINNED OPTION, BOTH THE CENTER CONDUCTOR IS TINNED.
- XXXX-XX: LAST FOUR DIGIT OF MANUFACTURING ORDER - PHASE MATCHING GROUP NUMBER.
- USE 3 DIGITS XXX (MILLIMETERS) FOR PHASE MATCHING OPTION. 999MM MAX LENGTH.

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MATERIAL:
CENTER CONTACTS: COPPER ALLOY
OUT CONTACTS:
-M0SP / M0SJ-M0RJ / M0SJ-Q15P / Q18J / Q15B / Q05J / Q04J / MTSJ-M3RJ-11SP: COPPER ALLOY
-925P / 925J-185P / 185J-245P / 245J /
-138J-13SP: STAINLESS STEEL
INSULATORS:
-M0SP / M0SJ-M0RJ / M0SJ-Q15P / Q18J / Q15B / Q05J / Q04J-11SP: VIRGIN PTFE FLUOROCARBON
-925P / 925J-185P / 185J-245P / 245J / MTSJ-M3RJ: ULTEM
-138J-13SP: PCTFE
-138J: VIRGIN PTFE
-Q05J / Q04J: PEEK

DO NOT SCALE DRAWING
SHEET SCALE: 3:1

samtec

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

DESCRIPTION: RF047-A CABLE ASSEMBLY

DWG. NO. RF047-A-XXXX-XXXXXX-XXXX-X-XX

BY: SHERRY W 2/5/2018 SHEET 1 OF 17

TABLE 2							
END OPTION	SERIES	GENDER	FINISH			CONNECTOR KIT P/N	FIGURE
			CENTER CONTACT	OUTER CONTACT	CABLE BODY		
-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-1	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
-20VP	SIZE 20	PIN(JACK)	10µ" GOLD	30µ" GOLD	10µ" GOLD	GPCC-20-V-P-C-GG-047A-SD-1	SHT 13, FIG 23
-20VS	SIZE 20	SOCKET(JACK)	10µ" GOLD	20µ" GOLD	10µ" GOLD	GPCC-20-V-S-C-GG-047A-SD-2	SHT 13, FIG 24
-MTSJ	SMPM	JACK	30µ" GOLD	10µ" GOLD	3µ" GOLD	PRFMT-J-C-EE-047A-SD-1	SHT 14, FIG 25
-M0UP	SMPM	PLUG SMOOTH BORE	30µ" GOLD	50µ" GOLD	50µ" GOLD	PRFM0-P-C-HE-047A-JR	SHT 14, FIG 26
-M0UJ	SMPM	JACK	50µ" GOLD	50µ" GOLD	50µ" GOLD	PRFM0-J-C-EE-047A-SD-3	SHT 15, FIG 27
-M3RJ	SMP3	JACK	50µ" GOLD	50µ" GOLD	50µ" GOLD	PRFM3-J-C-EE-047A-RD	SHT 15, FIG 28
*-N5SP	NANORF	PIN(JACK)	50µ" GOLD	50µ" GOLD	50µ" GOLD	PRFN5-P-C-EE-047A-SD	SHT 16, FIG 29
*-N5SS	NANORF	SOCKET(PLUG)	50µ" GOLD	50µ" GOLD	50µ" GOLD	PRFN5-S-C-EE-047A-SD	SHT 16, FIG 30
*-11SP	HMHF1	PLUG	30µ" GOLD	10µ" GOLD	10µ" GOLD	HMHF1-P-C-HG-ST-C47A	SHT 17, FIG 31
▲**SING	SINGLE ENDED	-	-	-	-	-	-
▲**XXXXX	STRIPPED & TINNED	-	-	-	-	-	SHT 1, FIG 8

** = END 2 OPTION ONLY
* = NOT RELEASED
▲ = NOT RELEASED 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 19.90	1.162 1.225	.03+.06*SQRT(Freq[GHz])	DC TO 26.5 GHz 26.5 GHz TO 50 GHz	N/A
-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 19.90	1.183 1.225	.03+.045*SQRT(Freq[GHz])	DC TO 90 GHz 90 GHz TO 110 GHz	WHITE
-10BJ	21.53 19.90	1.183 1.225	.03+.045*SQRT(Freq[GHz])	DC TO 90 GHz 90 GHz TO 110 GHz	WHITE
-00SJ	25.08 19.90	1.118 1.225	.03+.03*SQRT(Freq[GHz])	DC TO 26.5 GHz 26.5 GHz TO 40 GHz	WHITE
-00MJ	25.08	1.118	.03+.03*SQRT(Freq[GHz])	DC TO 26.5 GHz	WHITE
-20VP	23.69	1.140	.03+.045*SQRT(Freq[GHz])	DC TO 40 GHz	N/A
-20VS	23.69	1.140	.03+.045*SQRT(Freq[GHz])	DC TO 40 GHz	N/A
-MTSJ	23.69 20.67	1.140 1.204	.03+.045*SQRT(Freq[GHz])	DC TO 40 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 19.90	1.183 1.225	.03+.03*SQRT(Freq[GHz])	DC TO 40 GHz 40 TO 67 GHz	N/A
*-N5SS	21.53 19.90	1.183 1.225	.03+.03*SQRT(Freq[GHz])	DC TO 40 GHz 40 TO 67 GHz	N/A
*-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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	DESCRIPTION: RF047-A CABLE ASSEMBLY		
	DWG. NO. RF047-A-XXXX-XXXXXX-XXXX-X-XX		
	BY:SHERRY W 2/5/2018 SHEET 2 OF 17		
DO NOT SCALE DRAWING			
SHEET SCALE: 4:1			

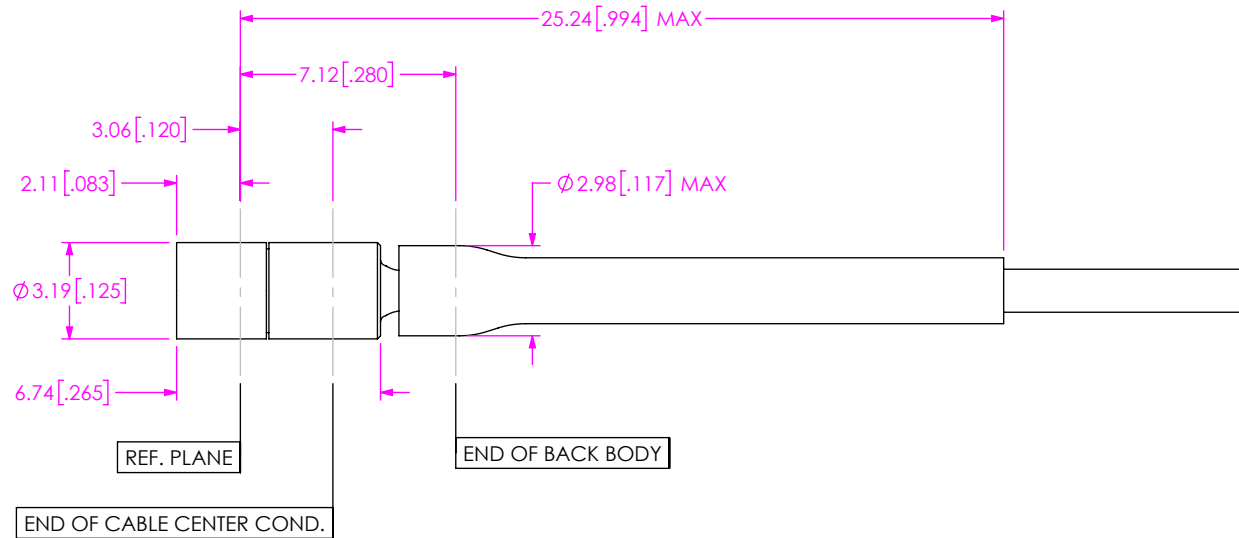


FIG 2
-MOSP SHOWN
(PROTECTIVE CAP NOT SHOWN FOR CLARITY)

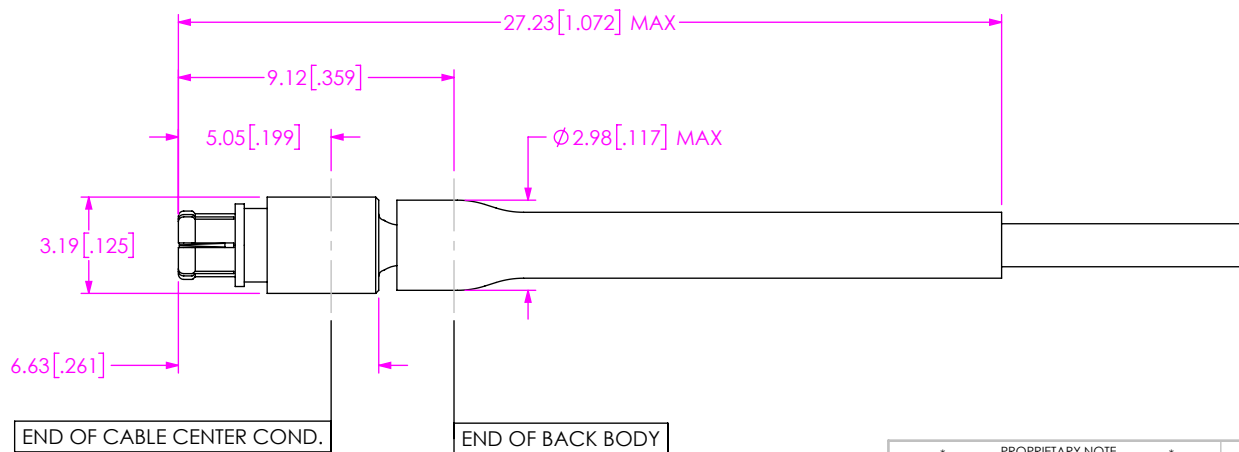


FIG 3
-MOSJ SHOWN
(PROTECTIVE CAP NOT SHOWN FOR CLARITY)

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DESCRIPTION:	RF047-A CABLE ASSEMBLY
DWG. NO.	RF047-A-XXXX-XXXXXX-XXXX-X-XX

BY:SHERRY W	2/5/2018	SHEET 3 OF 17
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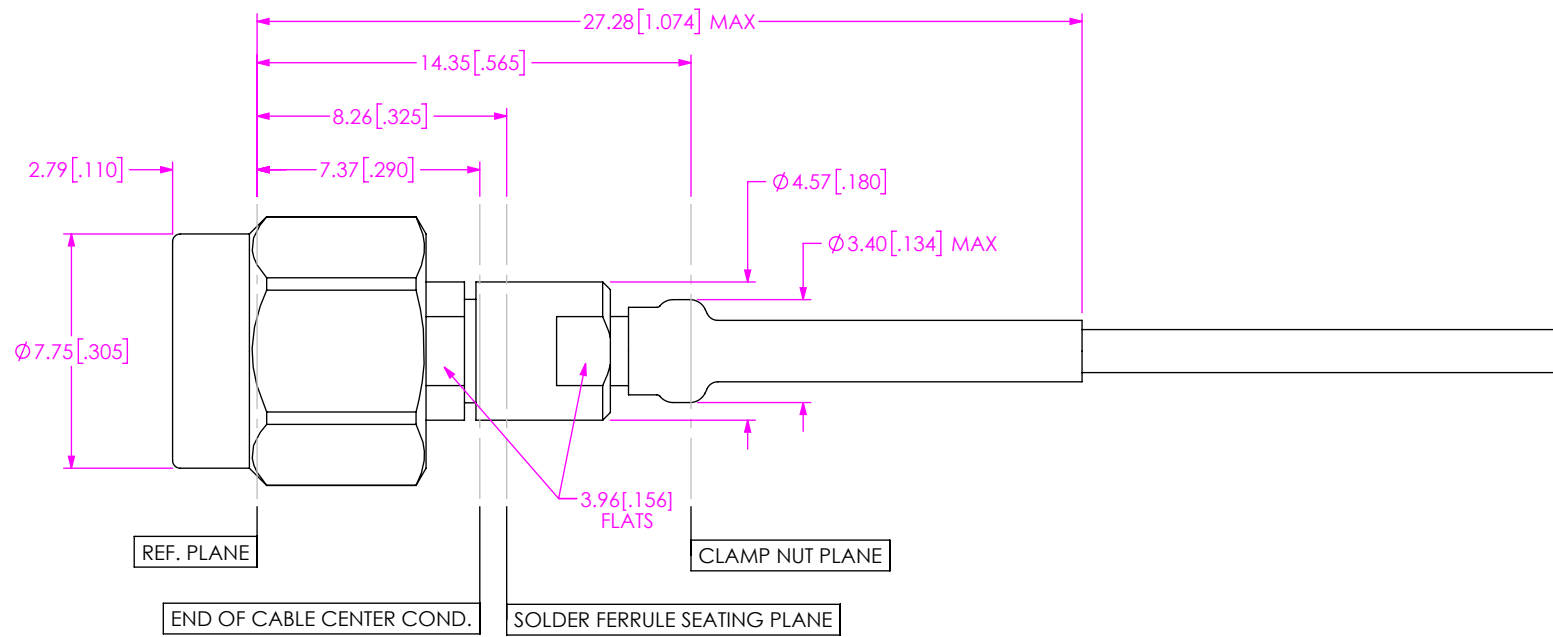


FIG 4
-92SP SHOWN
(PROTECTIVE CAP NOT SHOWN FOR CLARITY)

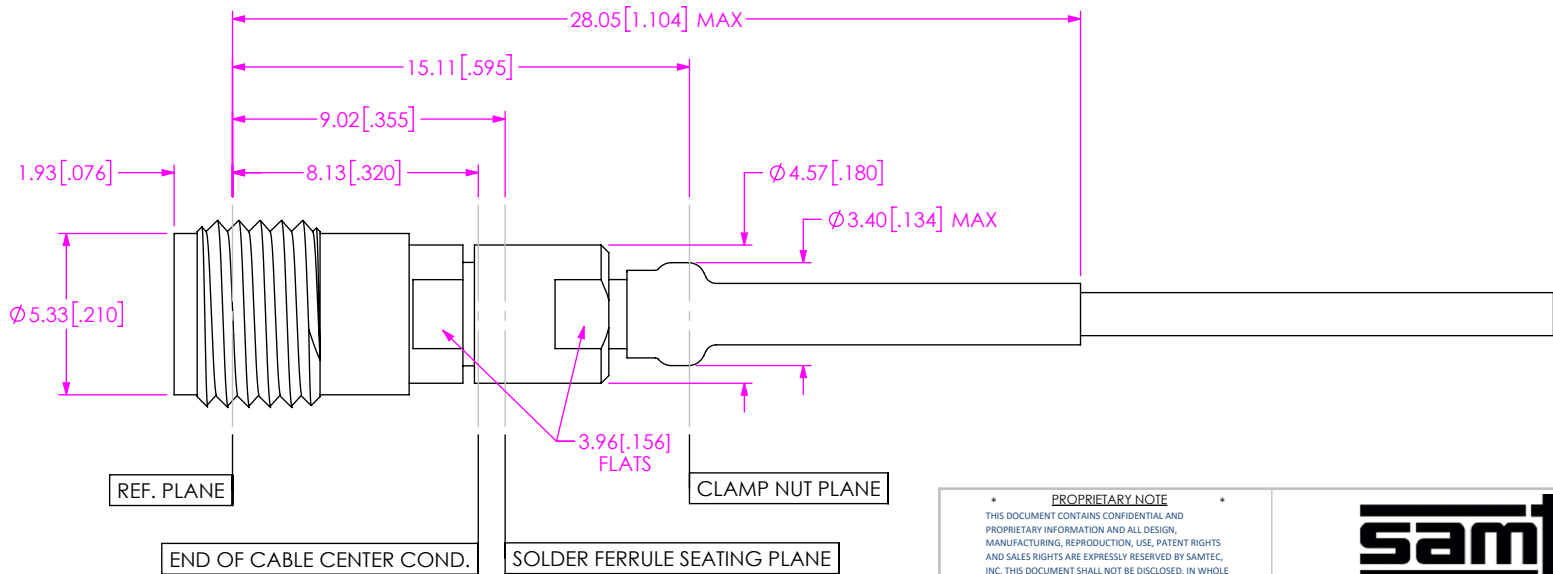


FIG 5
-92SJ SHOWN
(PROTECTIVE CAP NOT SHOWN FOR CLARITY)

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DESCRIPTION: RF047-A CABLE ASSEMBLY
DWG. NO. RF047-A-XXXX-XXXXXX-XXXX-X-XX
BY: SHERRY W 2/5/2018 SHEET 4 OF 17

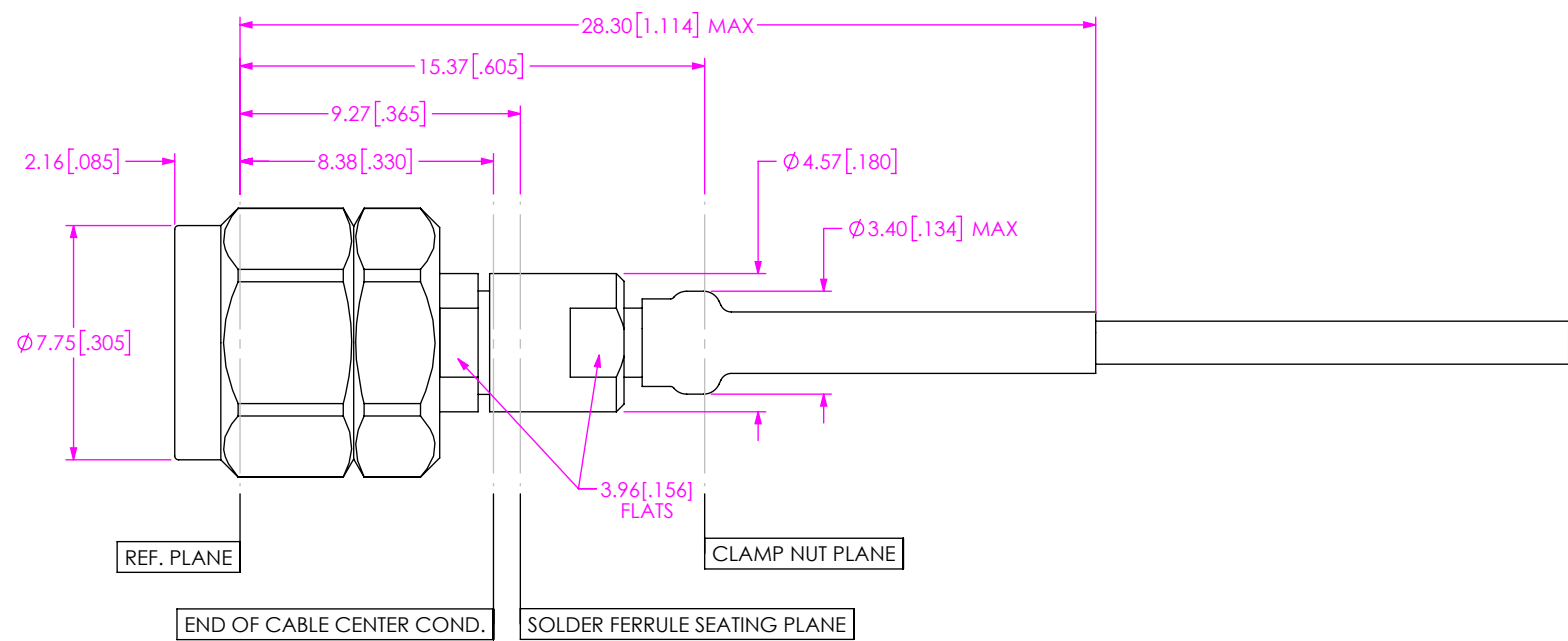


FIG 6
-18SP SHOWN
(PROTECTIVE CAP NOT SHOWN FOR CLARITY)

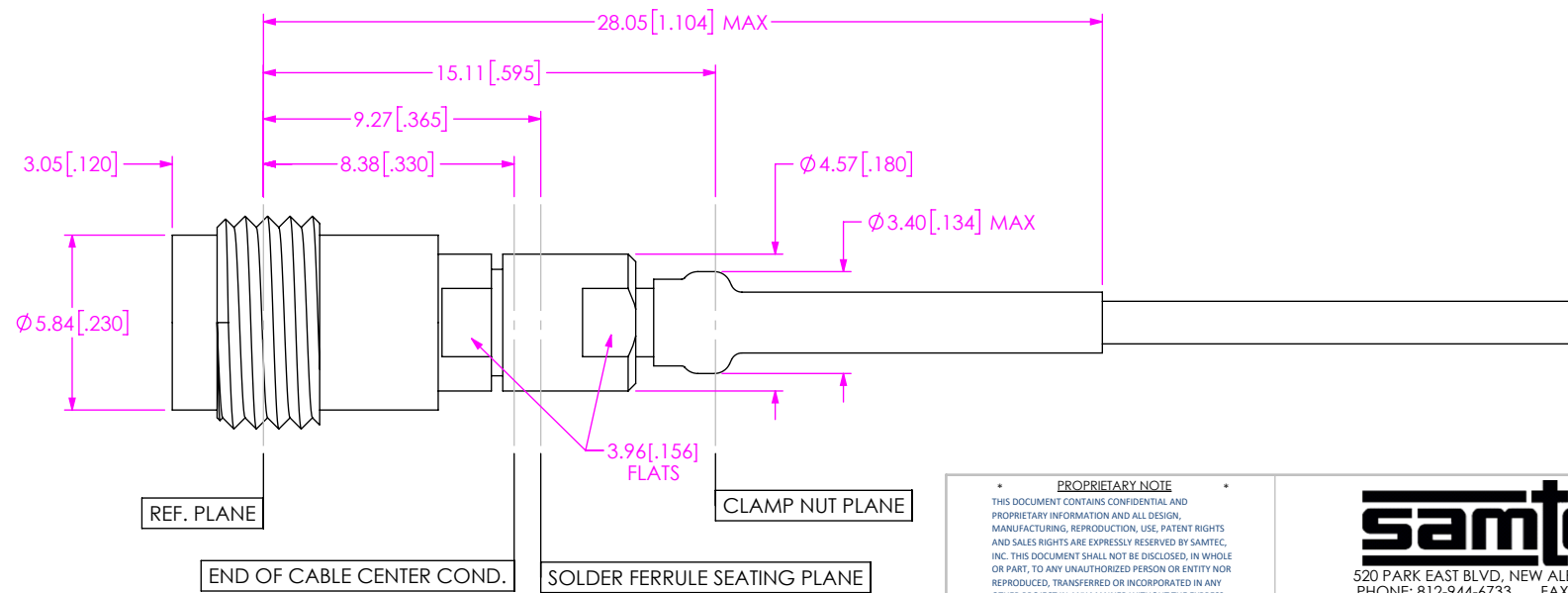


FIG 7
-18SJ SHOWN
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SHEET SCALE: 4:1

DESCRIPTION: RF047-A CABLE ASSEMBLY
DWG. NO. RF047-A-XXXX-XXXXXX-XXXX-X-XX
BY: SHERRY W 2/5/2018 SHEET 5 OF 17

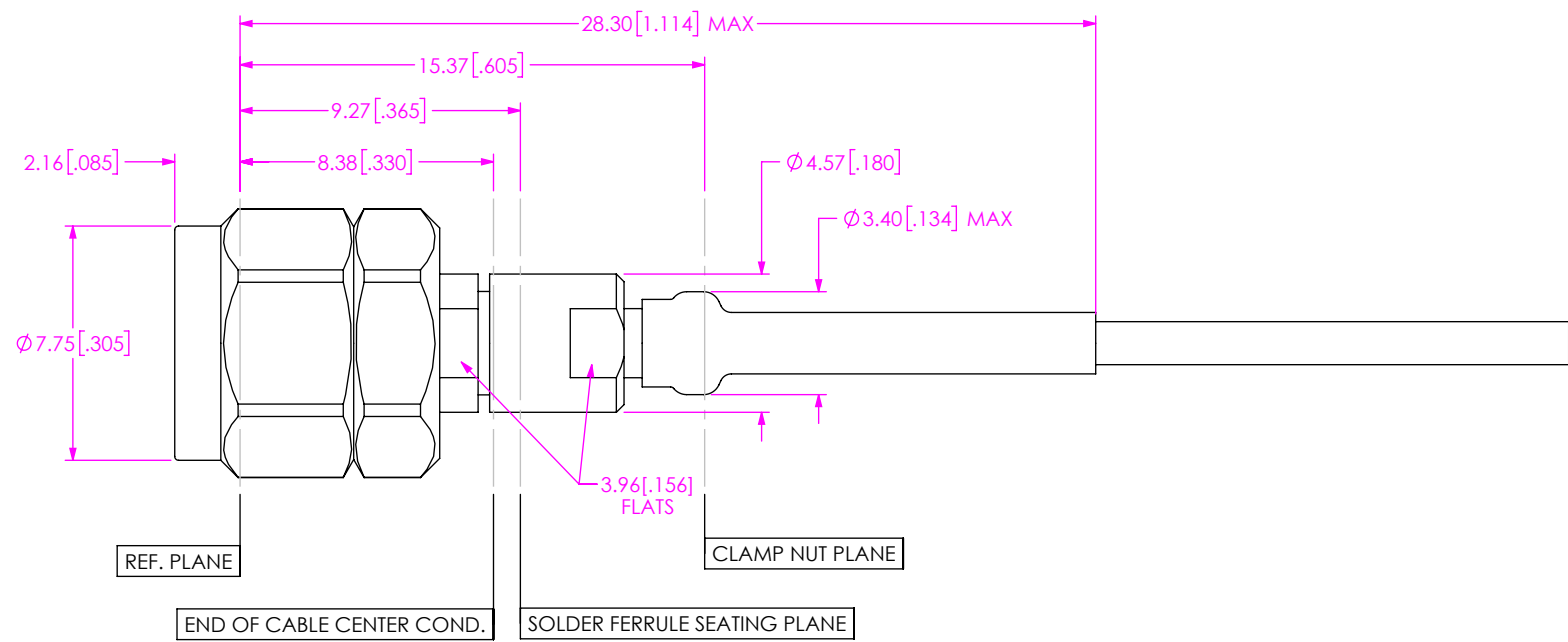


FIG 9
-24SP SHOWN
(PROTECTIVE CAP NOT SHOWN FOR CLARITY)

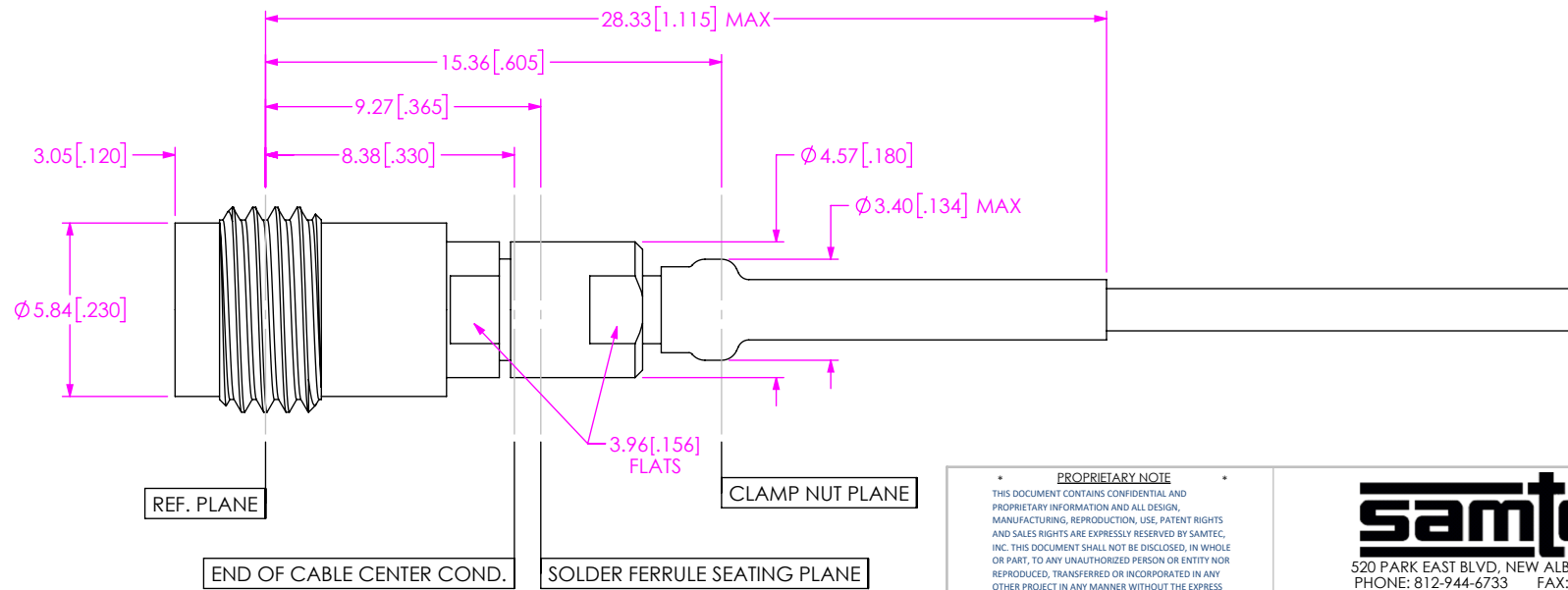


FIG 10
-24SJ SHOWN
(PROTECTIVE CAP NOT SHOWN FOR CLARITY)

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SHEET SCALE: 4:1

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e-Mail info@SAMTEC.com code 55322

DESCRIPTION: RF047-A CABLE ASSEMBLY

DWG. NO. RF047-A-XXXX-XXXXXX-XXXX-X-XX

BY: SHERRY W 2/5/2018 SHEET 6 OF 17

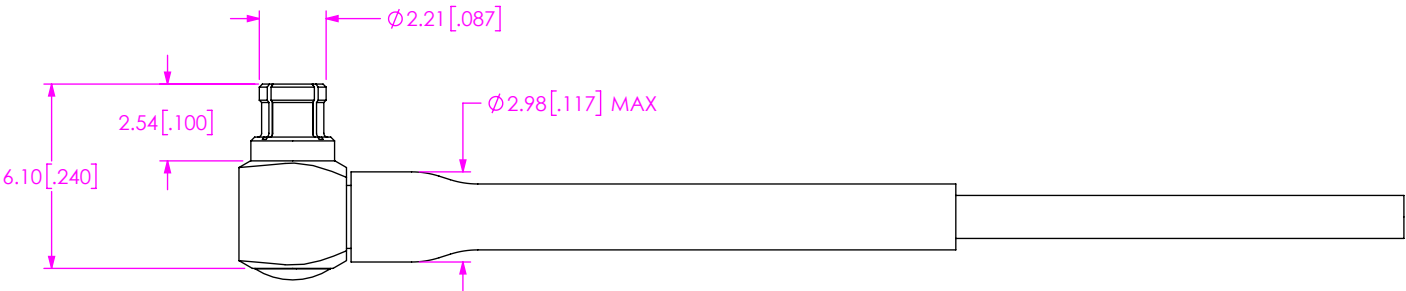


FIG 11
-M0RJ SHOWN

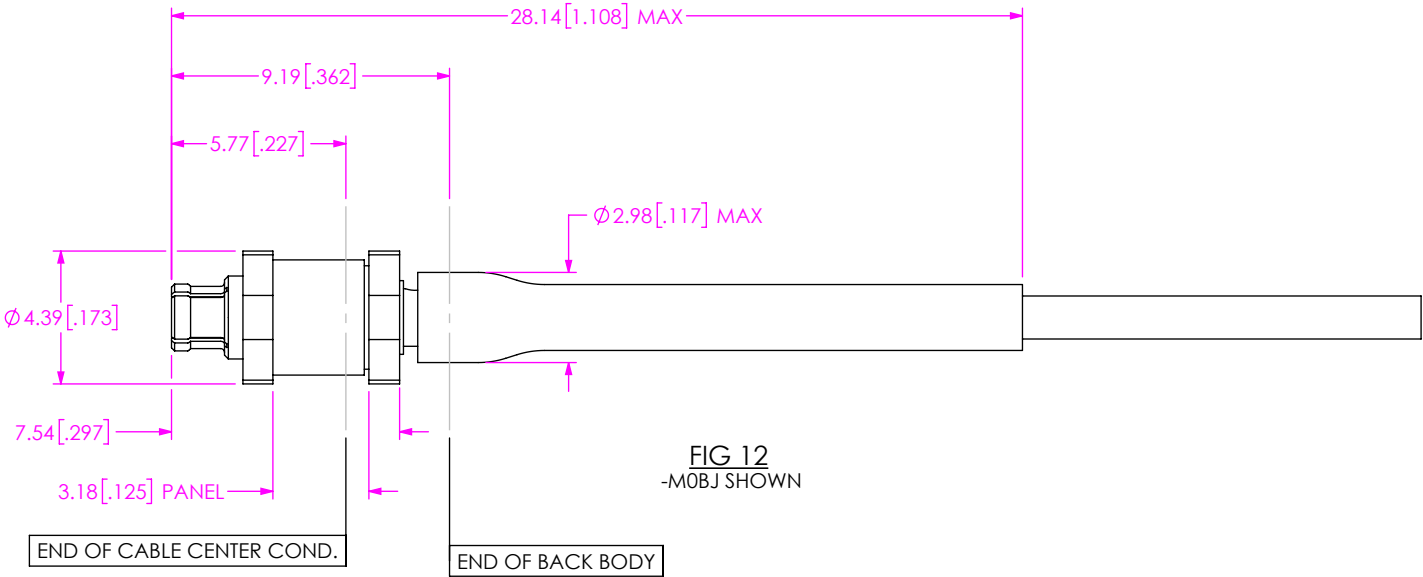
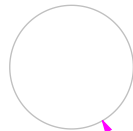


FIG 12
-MOBJ SHOWN



$\varnothing 4.09 \pm 0.25 [161 \pm 010]$

RECOMMENDED PANEL VIEW

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SHEET SCALE: 4:1

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DESCRIPTION:
RF047-A CABLE ASSEMBLY

DWG. NO.
RF047-A-XXXX-XXXXXX-XXXX-X-XX

BY: SHERRY W 2/5/2018 SHEET 7 OF 17

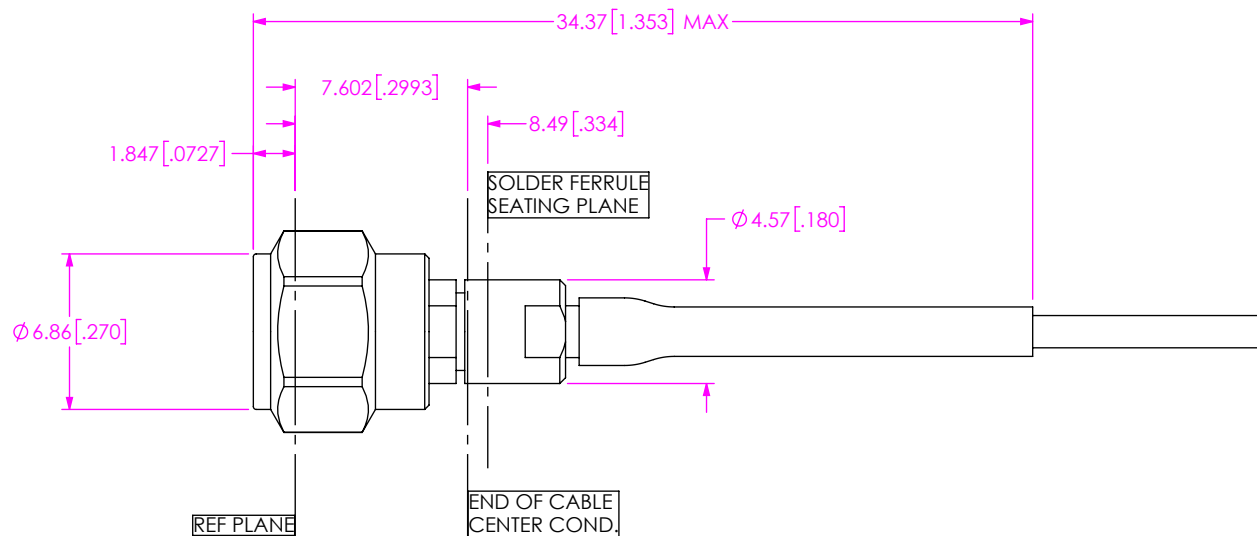


FIG 13
-13SP SHOWN

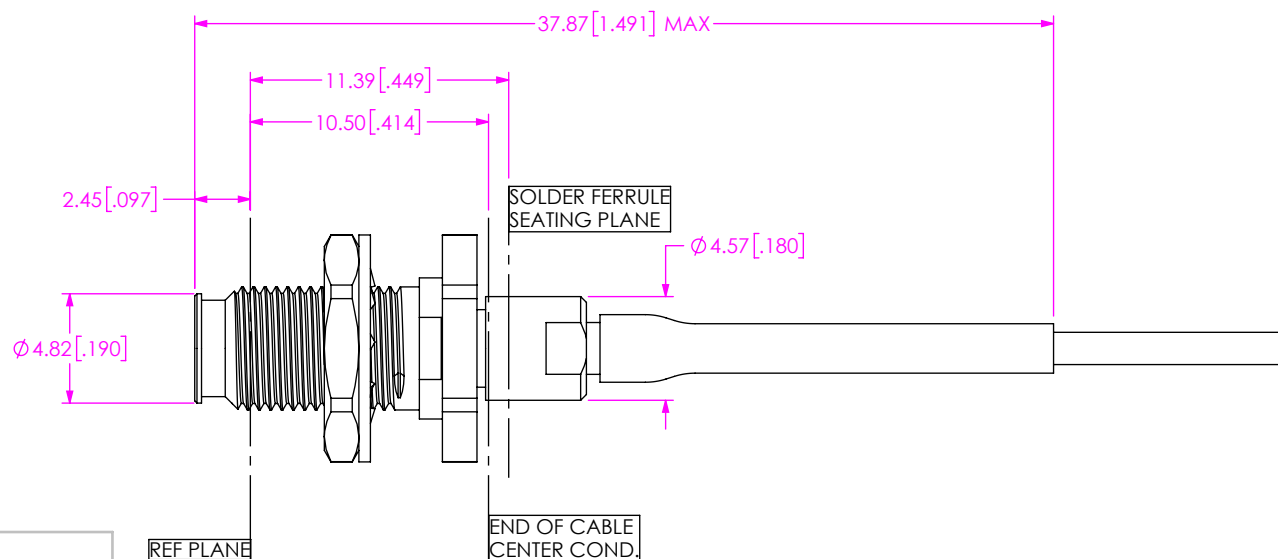
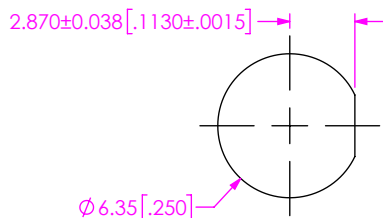


FIG 14
-13BJ SHOWN



PANEL CUT OUT
NOT TO SCALE

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	DESCRIPTION: RF047-A CABLE ASSEMBLY
SHEET SCALE: 3:1	DWG. NO. RF047-A-XXXX-XXXXXX-XXXX-X-XX
	BY: SHERRY W 2/5/2018 SHEET 8 OF 17

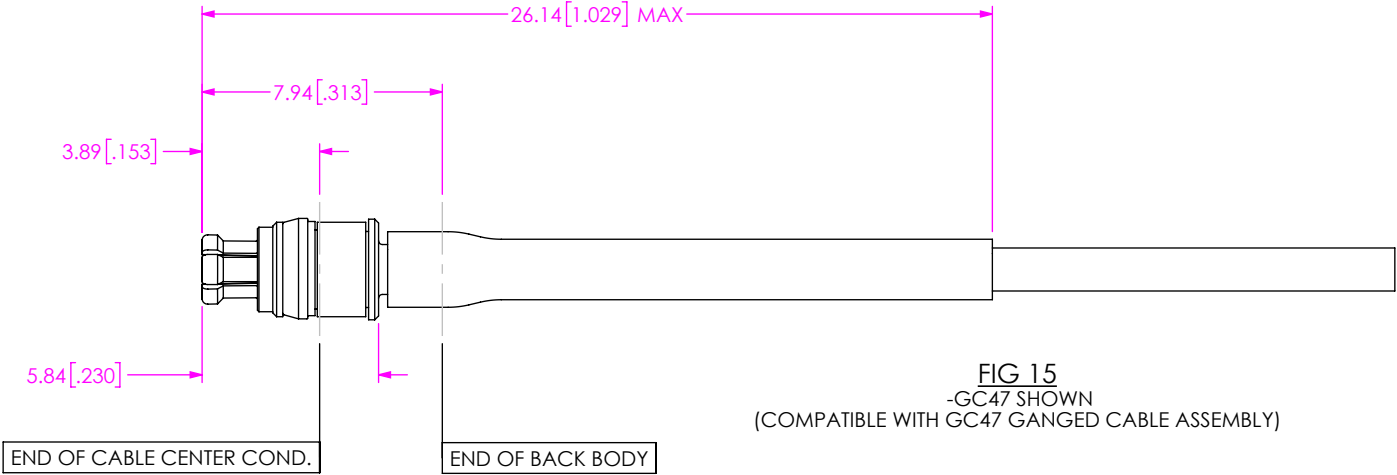


FIG 15
-GC47 SHOWN
(COMPATIBLE WITH GC47 GANGED CABLE ASSEMBLY)

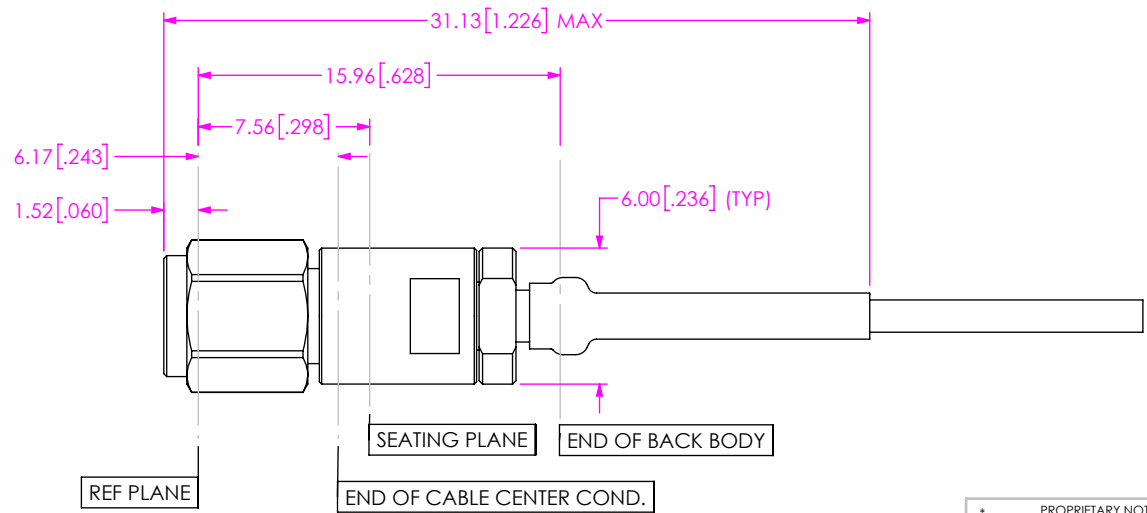


FIG 16
-10SP SHOWN
(PROTECTIVE CAP NOT SHOWN FOR CLARITY)

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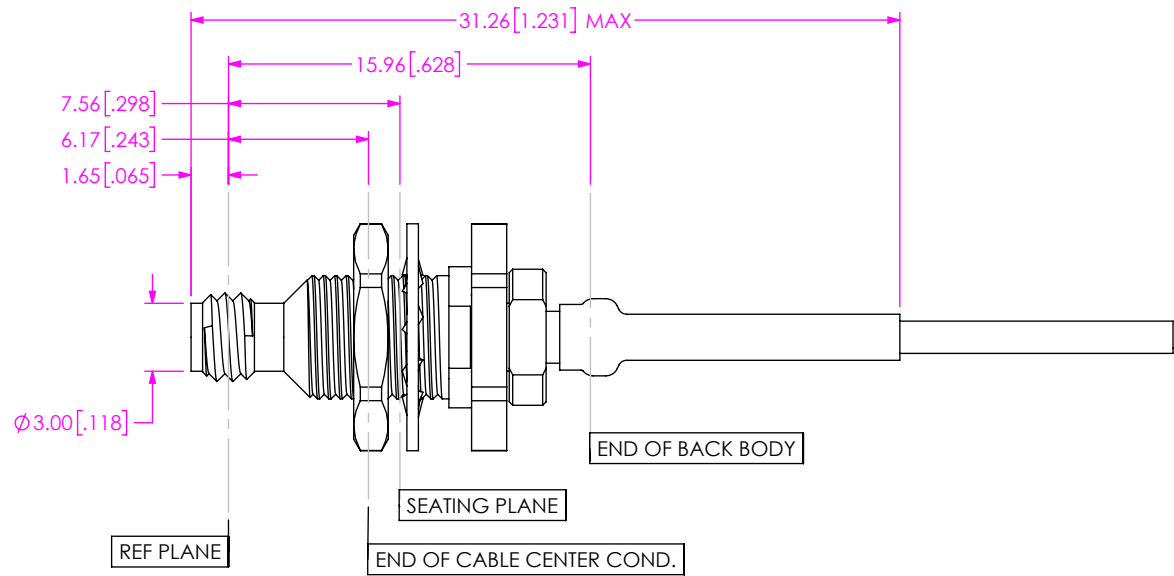


FIG 17
-10BJ SHOWN
(PROTECTIVE CAP NOT SHOWN FOR CLARITY)

RECOMMENDED PANEL CUTOUT

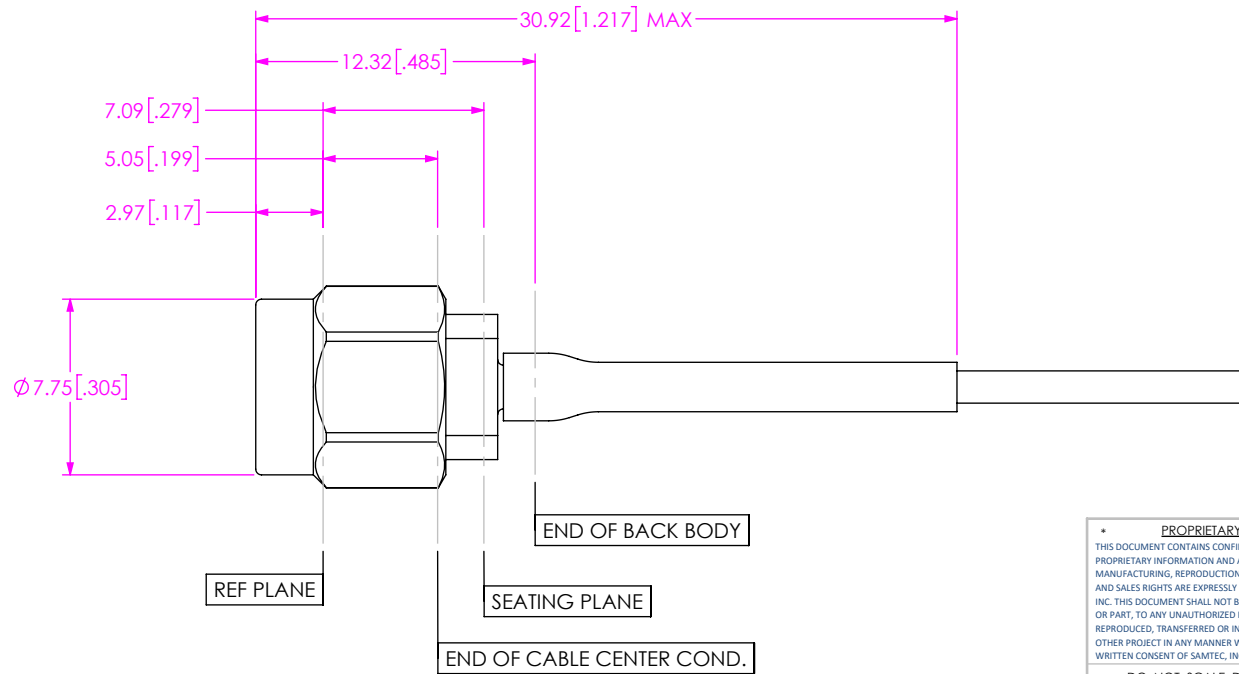
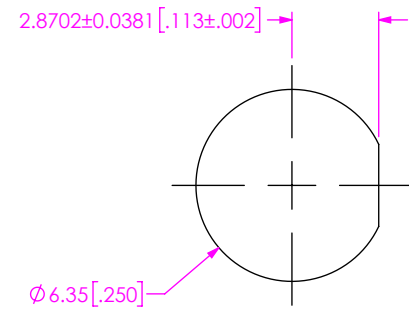


FIG 18
-01SP SHOWN
(PROTECTIVE CAP NOT SHOWN FOR CLARITY)

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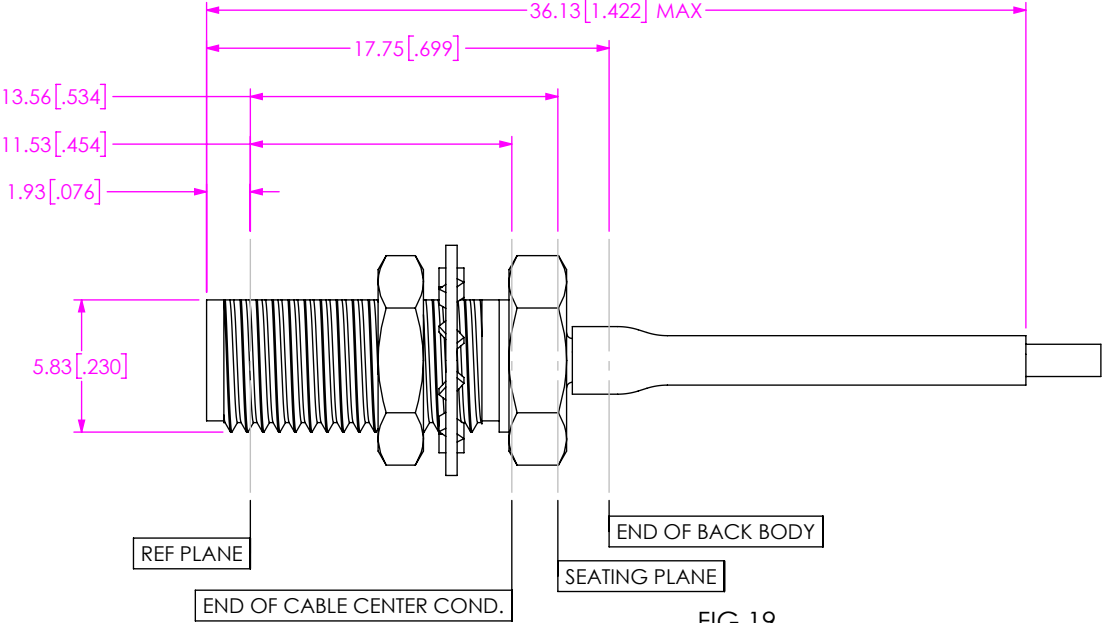


FIG 19
-01BJ SHOWN
(PROTECTIVE CAP NOT SHOWN FOR CLARITY)

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

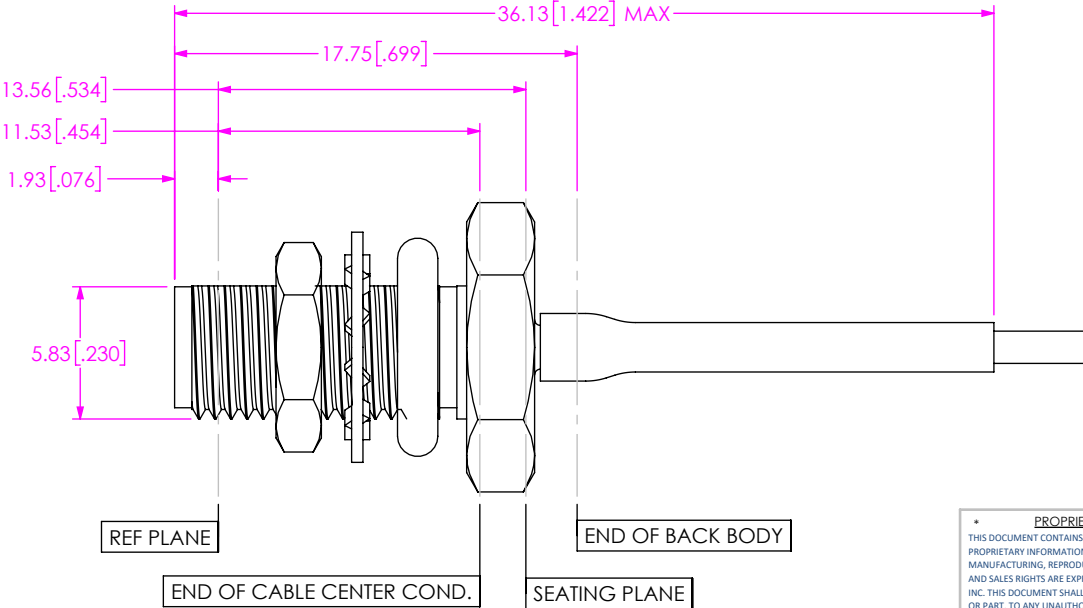
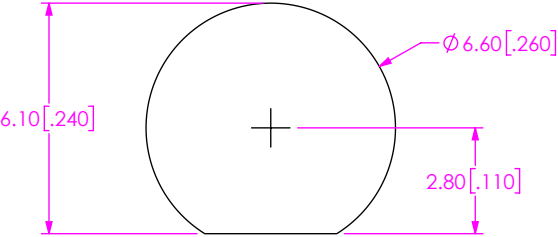
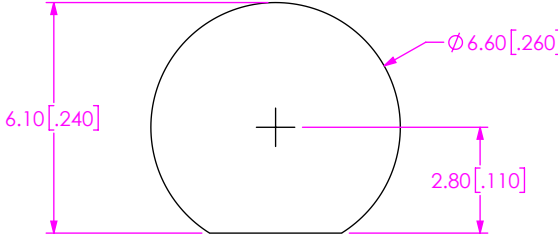


FIG 20
-01SB SHOWN
(PROTECTIVE CAP NOT SHOWN FOR CLARITY)

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



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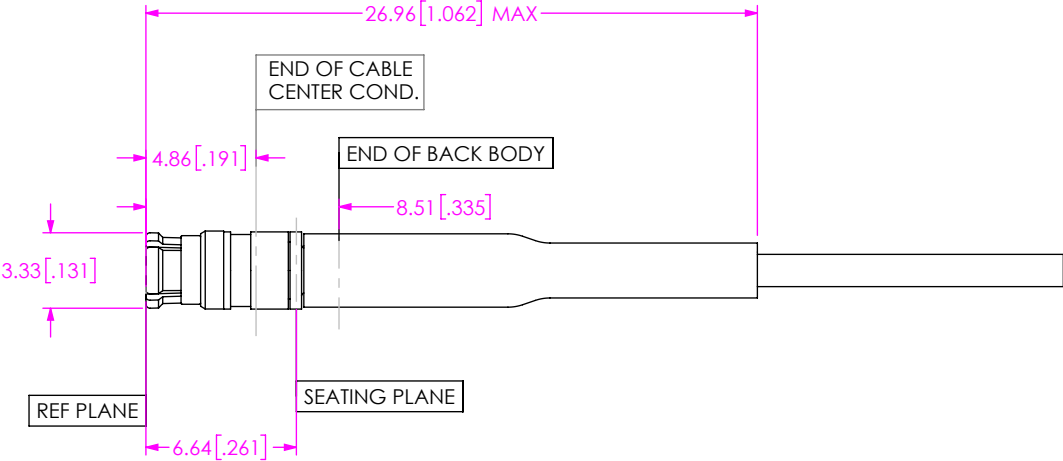


FIG 21
-00SJ SHOWN
(PROTECTIVE CAP NOT SHOWN FOR CLARITY)

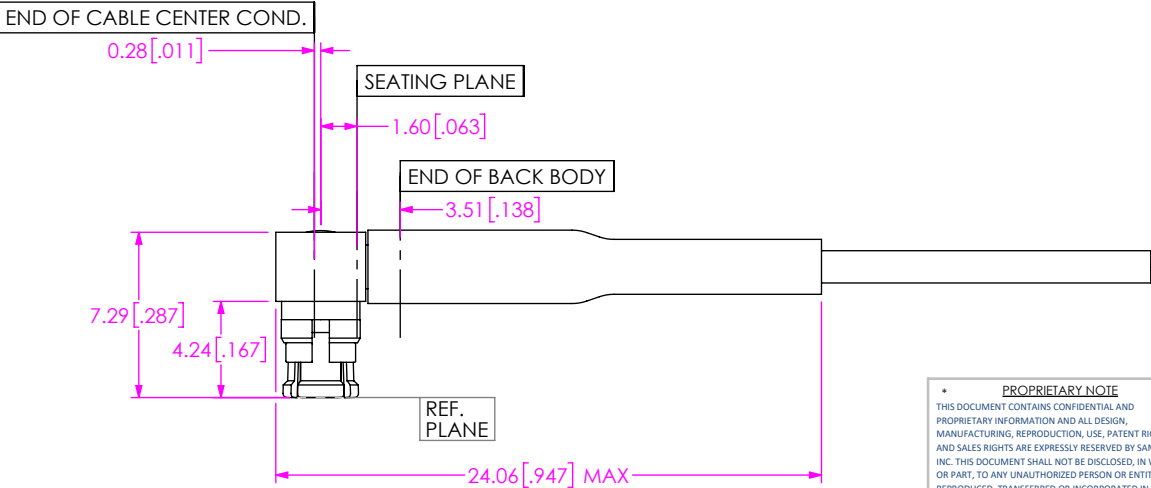


FIG 22
-00MJ SHOWN
(PROTECTIVE CAP NOT SHOWN FOR CLARITY)

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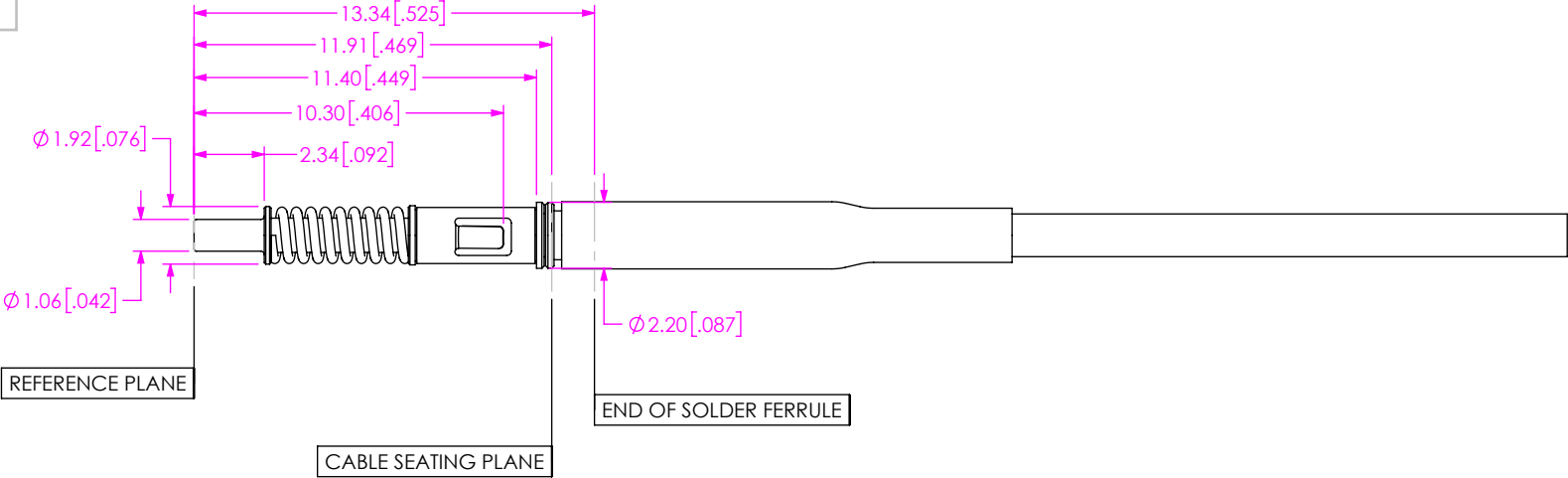


FIG 23
-20VP SHOWN

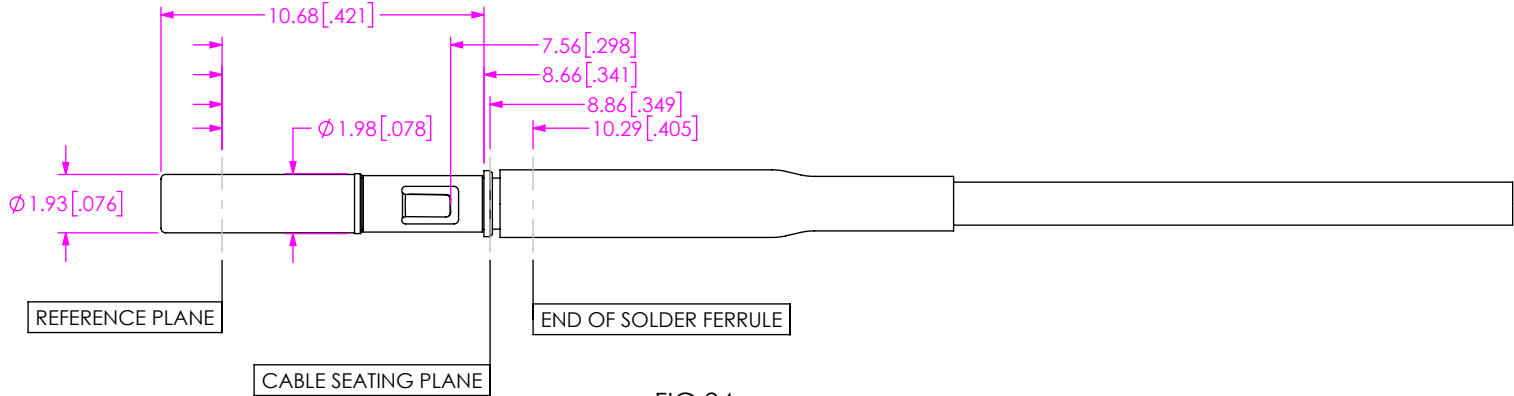


FIG 24
-20VS SHOWN

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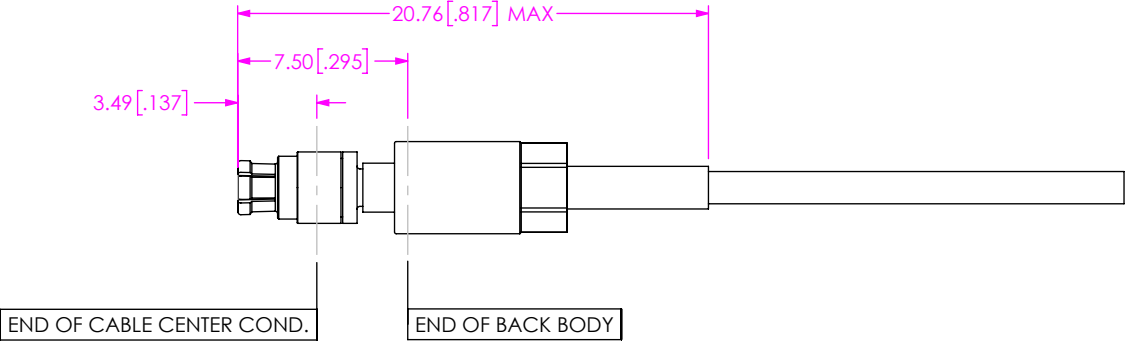


FIG 25
-MTSJ SHOWN

NOTE: RECOMMENDED MATING TORQUE 25 ± 2 IN-OZ.

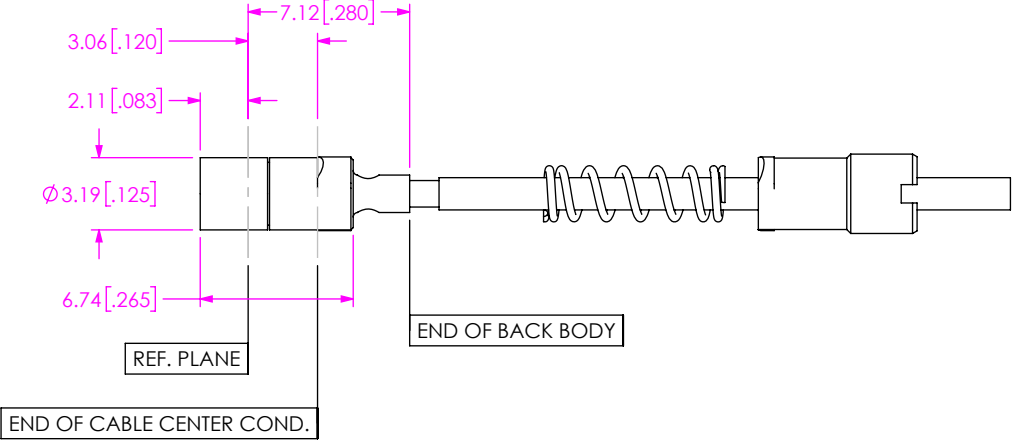


FIG 26
-MOUP SHOWN
(COMPATIBLE WITH BISM GANGED ASSEMBLY)

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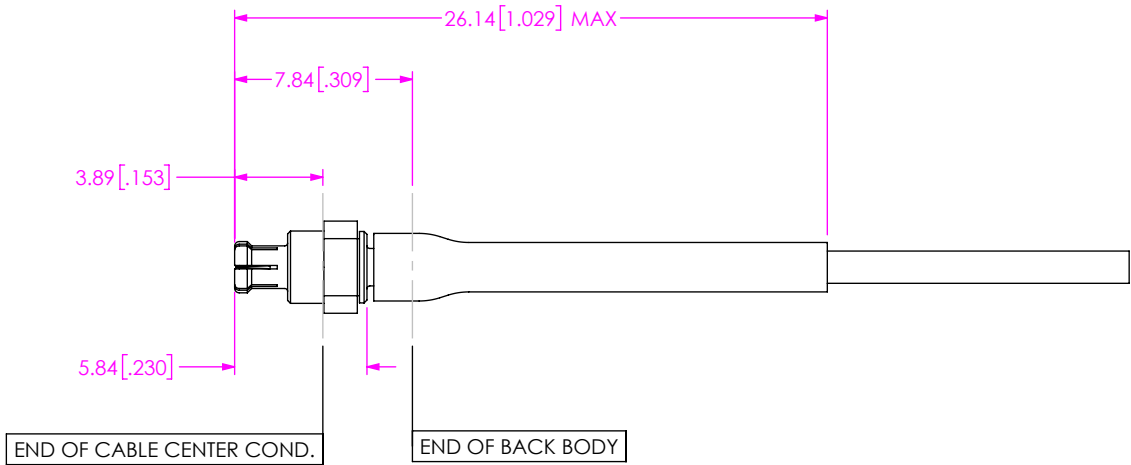


FIG 27
-M0UJ SHOWN
(COMPATIBLE WITH P1SM GANGED ASSEMBLY)

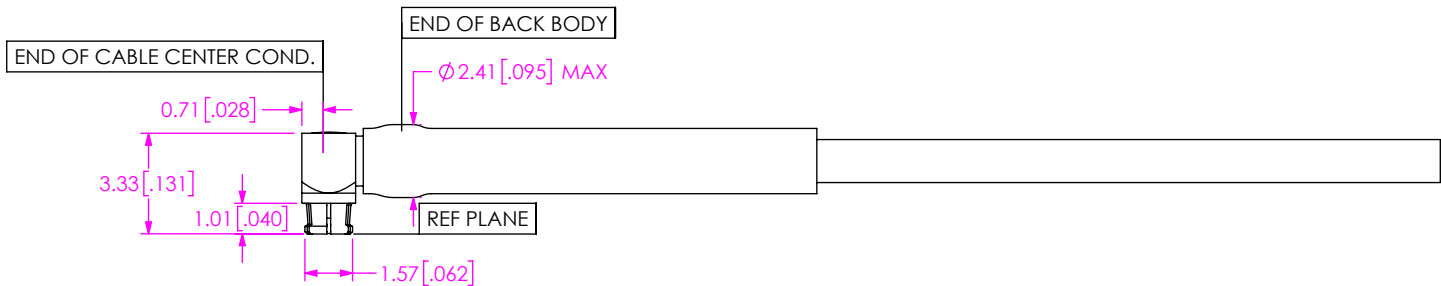
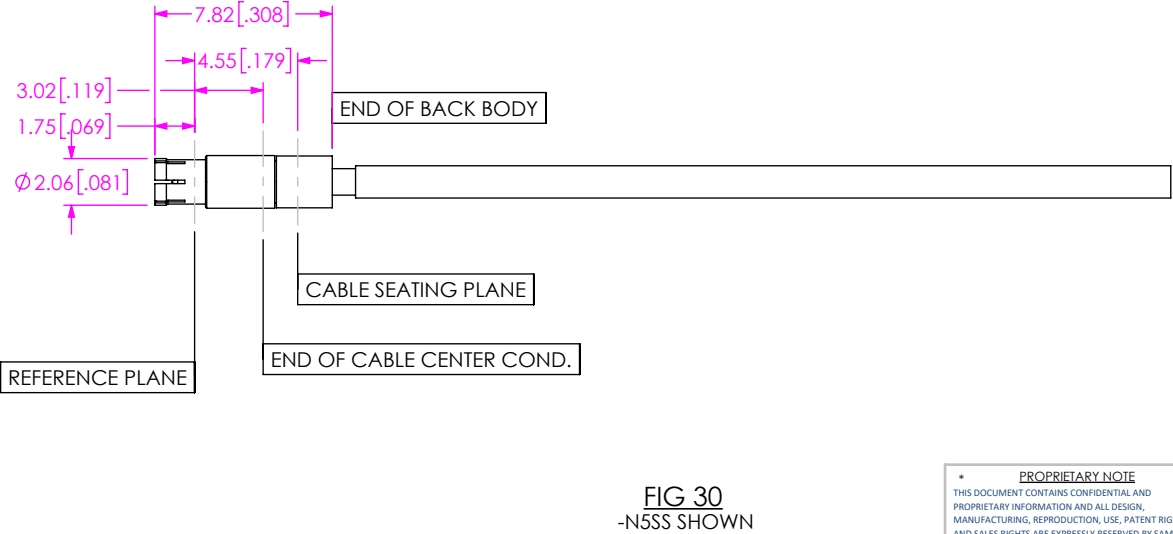
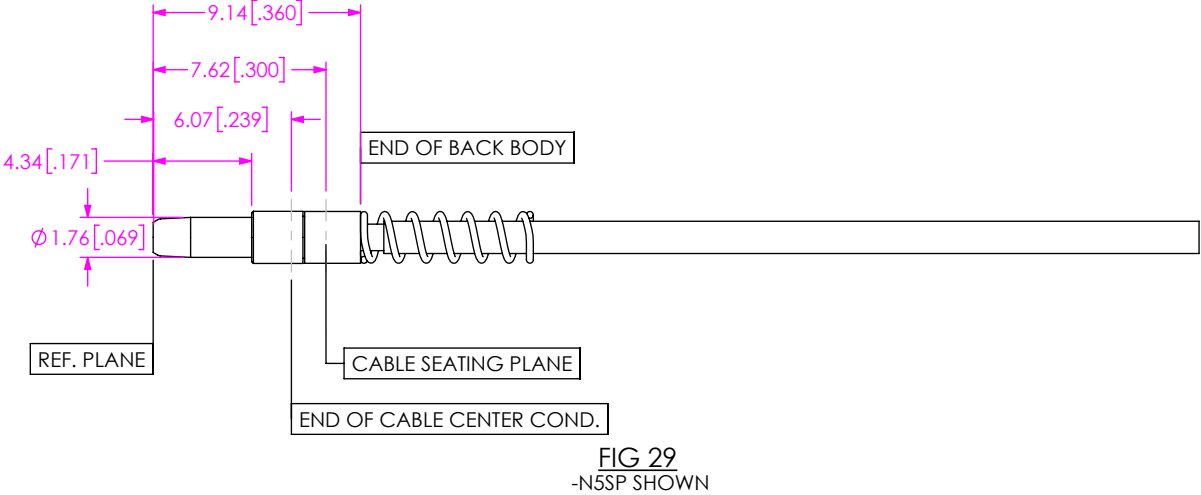


FIG 28
-M3RJ SHOWN

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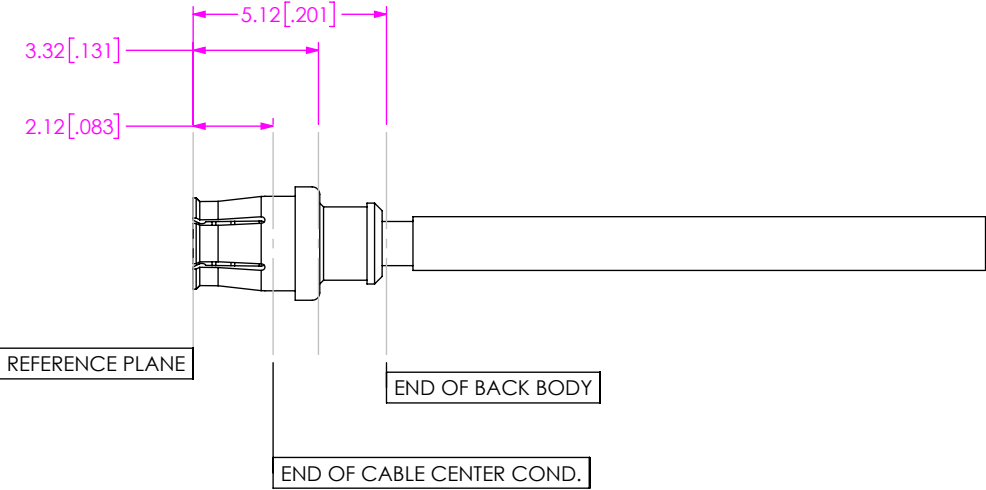


FIG 31
-11SP SHOWN

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