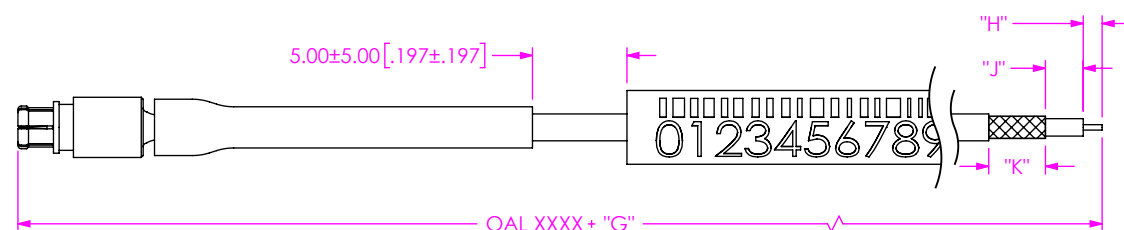


DO NOT
SCALE FROM
THIS PRINT THIS PRODUCT MANUFACTURED
WITH LEAD-FREE PROCESSING

RF047-A-XXXX-XXXXXX-XXXX-X-XX

CABLE CALLOUT
047-A: CCA-047-PFA CABLEEND 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 OPTIONPHASE MATCHING SPEC (RANGE)
-1: 1 PICO-SECOND
-2: 2 PICO-SECONDS
-5: 5 PICO-SECONDS
-BLANK: NO PHASE MATCHINGOVERALL 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.XDO 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-Q1SP / Q1BJ / Q1SB / Q0SJ-00MJJ-MTS: COPPER ALLOY
-Q2SP / Q2SJ-18SP / 18SJ-24SP / 24SJINSULATORS:
-M0SP / M0SJ-M0RJ / M0SJ-Q1SP / Q1BJ / Q1SB / Q0SJ-00MJJ-MTS: ULTEM
-Q2SP / Q2SJ-18SP / 18SJ-24SP / 24SJ-13BJ-13SP: PCTFE
-13BJ-13SP: PTFE
-Q0SJ-00MJJ-PEEKDO 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 55322DESCRIPTION:
RF047-A CABLE ASSEMBLY
DWG. NO.
RF047-A-XXXX-XXXXXX-XXXX-X-XX
BY: SHERRY W 2/5/2018 SHEET 1 OF 14

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
▲**-SING	SINGLE ENDED	-	-	-	-	-	-
▲**-XXXXXX	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	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
*-20VP	21.53	1.183	.03+ .03*SQRT(Freq[GHz])	DC TO 40 GHz	N/A
	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
*-20VP	21.53	1.183	.03+ .045*SQRT(Freq[GHz])	DC TO 40 GHz	N/A
	19.90	1.225		40 GHz TO 67 GHz	N/A
	18.64	1.265		67 GHz TO 110 GHz	N/A
*-MTSJ	23.69	1.140	.03+ .045*SQRT(Freq[GHz])	DC TO 40 GHz	N/A
	20.67	1.204		40 GHz TO 65 GHz	

* = NOT RELEASED
IL Max [dB] for Cable Assembly :
= (35.06*SQRT(Freq[GHz])+1.835*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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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 2 OF 14

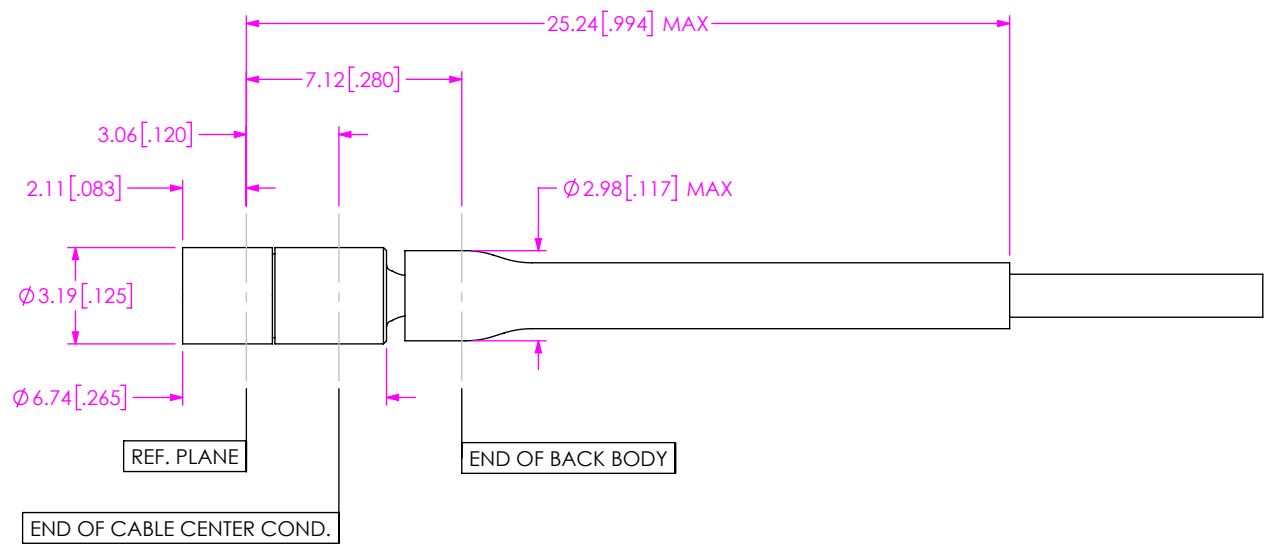


FIG 2
-MOSP SHOWN
(PROTECTIVE CAP NOT SHOWN FOR CLARITY)

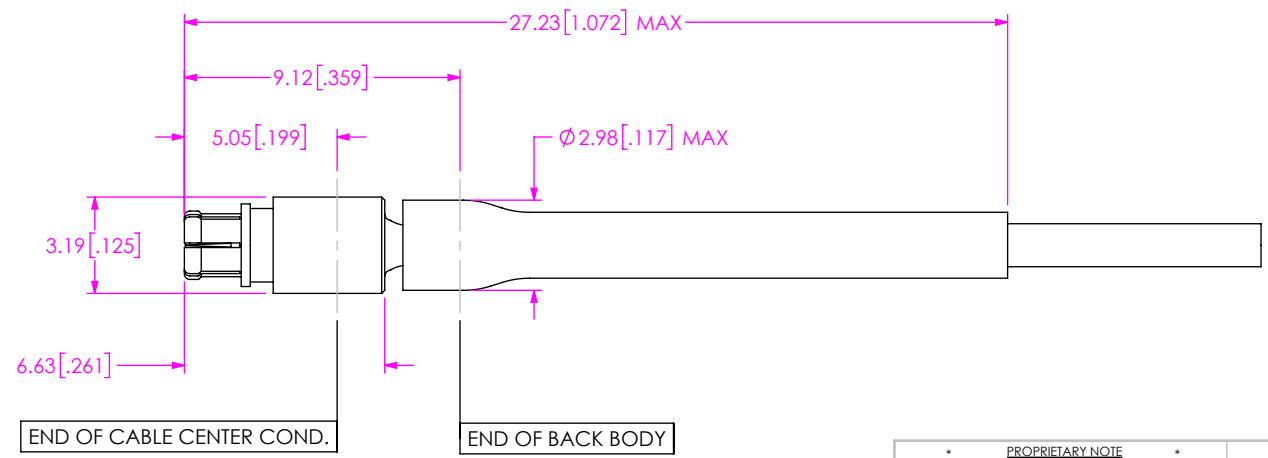


FIG 3
-MOSJ SHOWN
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BY: SHERRY W 2/5/2018 SHEET 3 OF 14

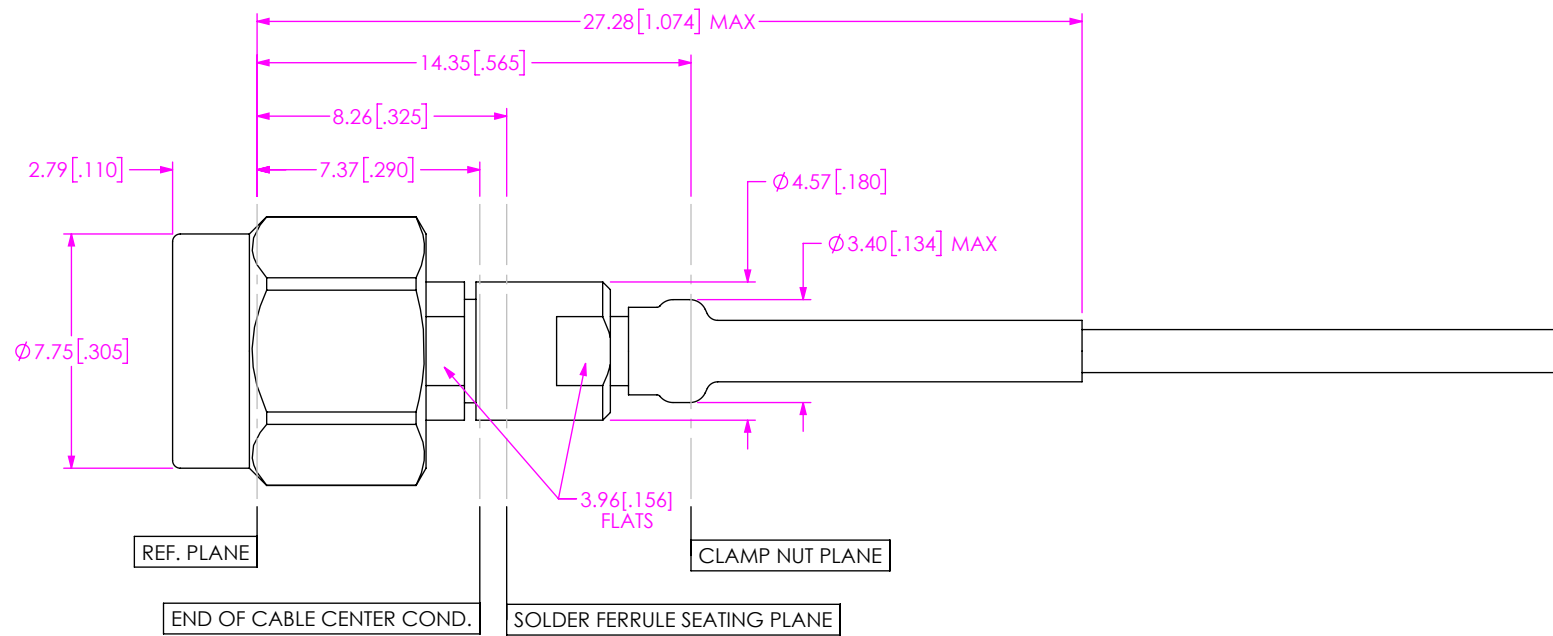


FIG 4
-92SP SHOWN
(PROTECTIVE CAP NOT SHOWN FOR CLARITY)

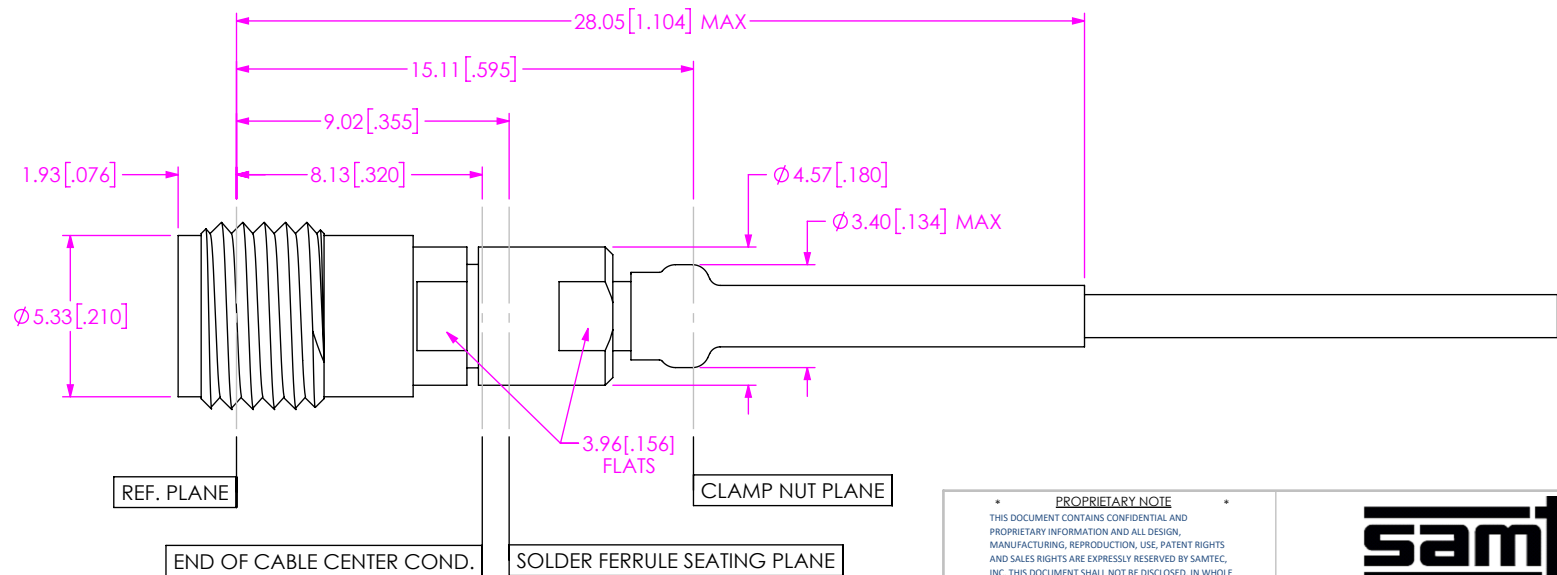


FIG 5
-92SJ SHOWN
(PROTECTIVE CAP NOT SHOWN FOR CLARITY)

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

BY:SHERRY W	2/5/2018	SHEET 4 OF 14
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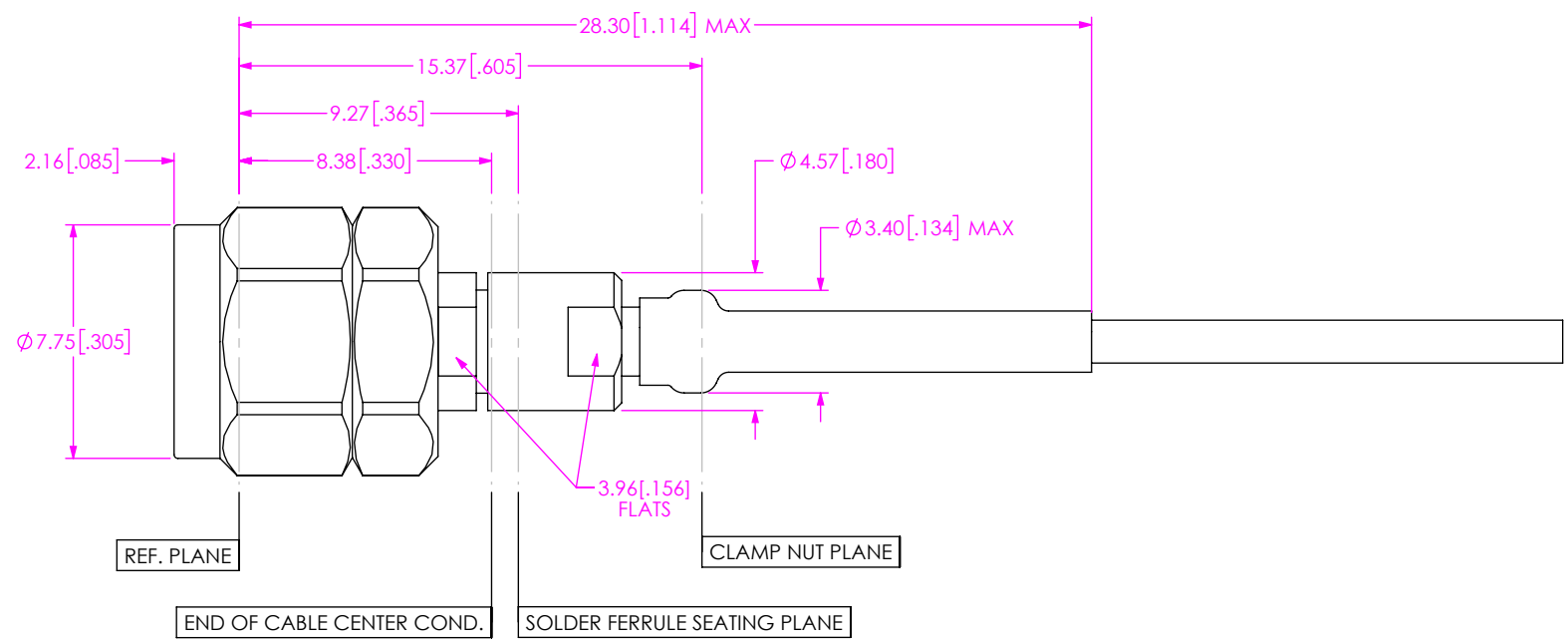


FIG 6
-18SP SHOWN
(PROTECTIVE CAP NOT SHOWN FOR CLARITY)

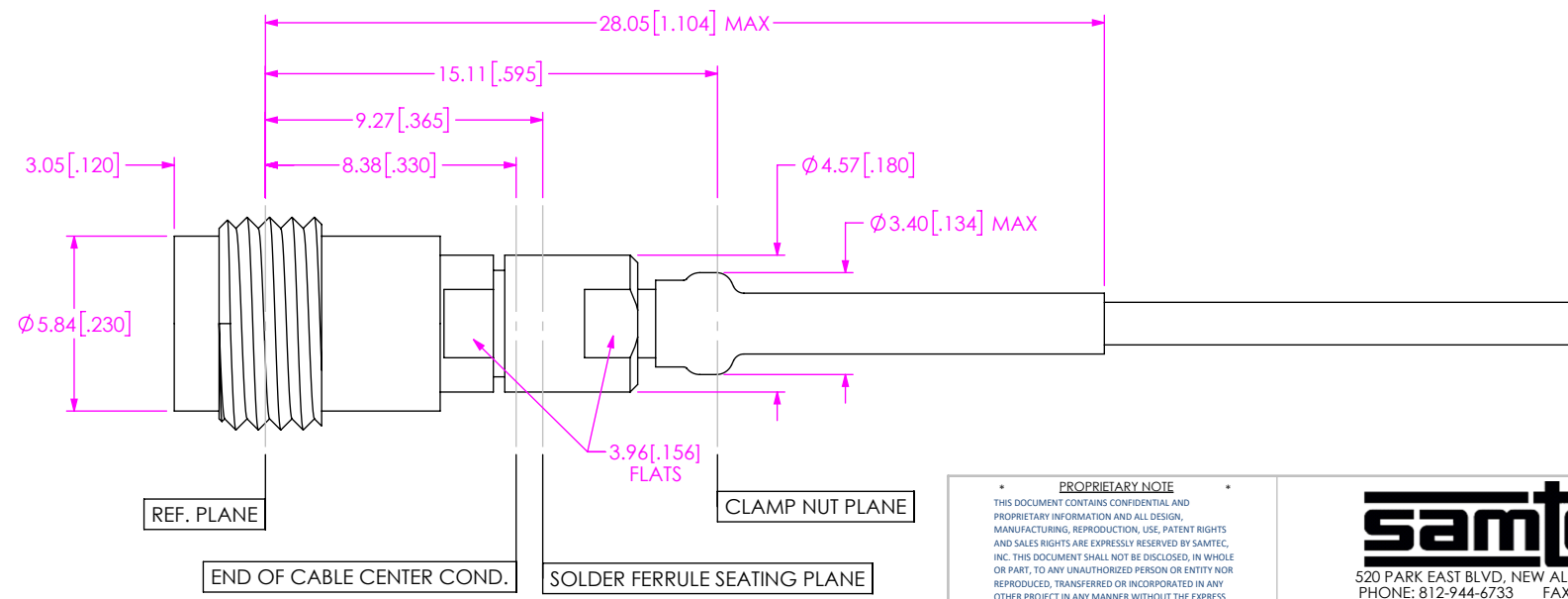


FIG 7
-18SJ SHOWN
(PROTECTIVE CAP NOT SHOWN FOR CLARITY)

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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 5 OF 14	

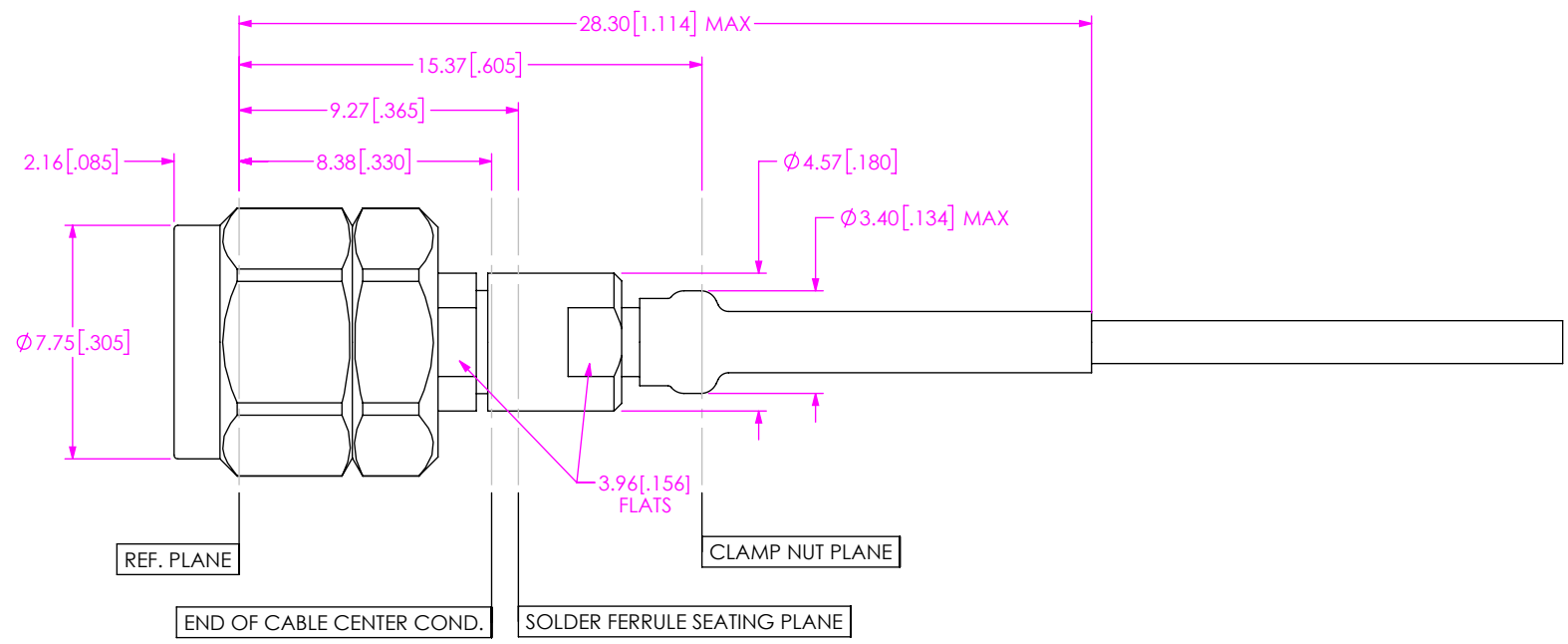


FIG 9
-24SP SHOWN
(PROTECTIVE CAP NOT SHOWN FOR CLARITY)

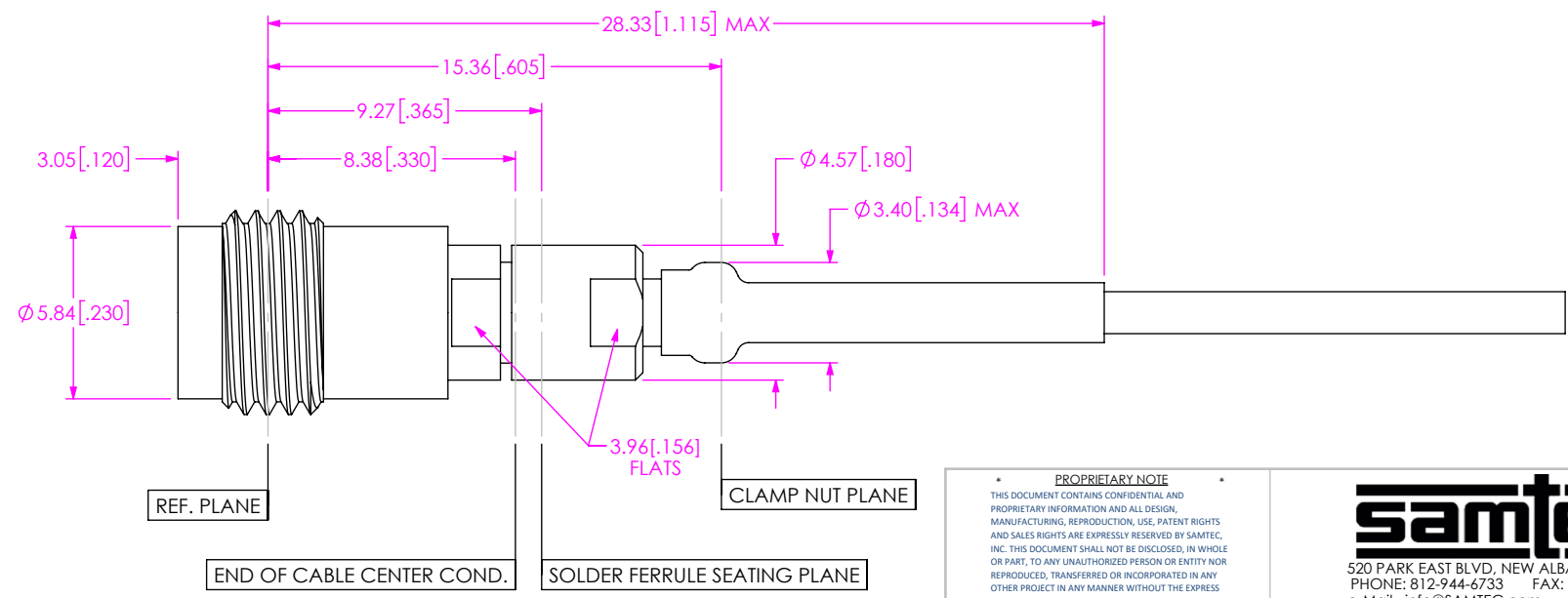


FIG 10
-24SJ SHOWN
(PROTECTIVE CAP NOT SHOWN FOR CLARITY)

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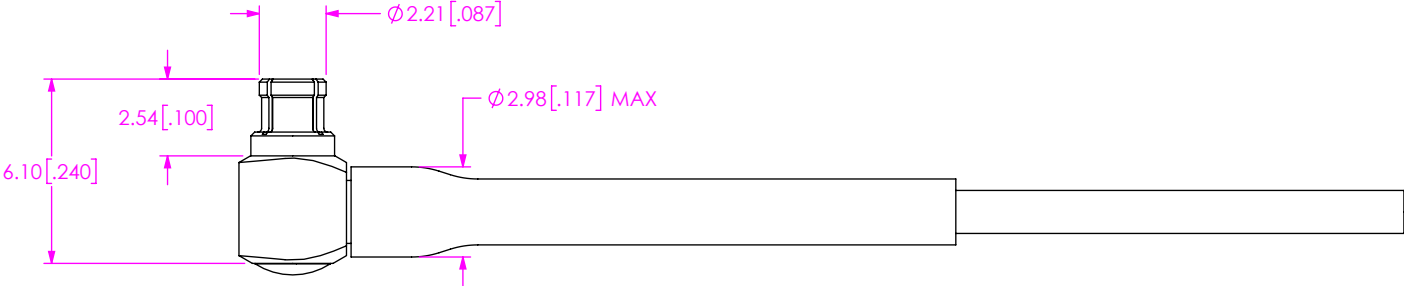


FIG 11
-M0RJ SHOWN

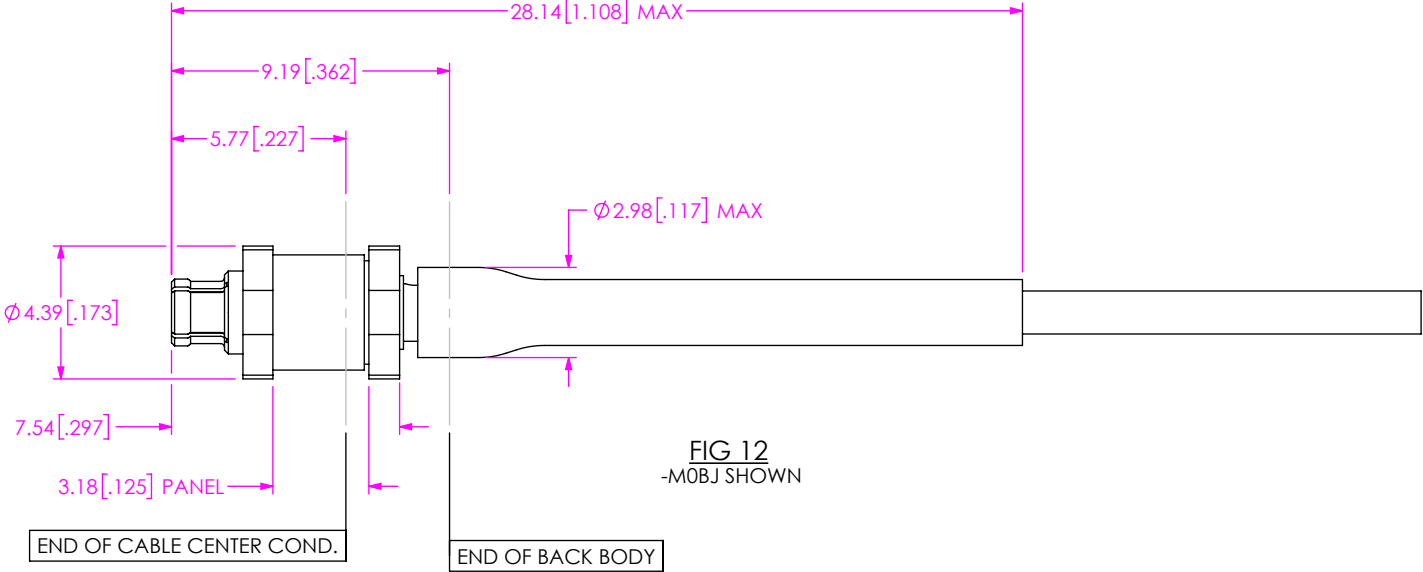
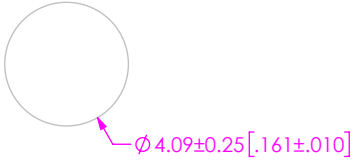


FIG 12
-MOBJ SHOWN



RECOMMENDED PANEL VIEW

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RF047-A CABLE ASSEMBLY

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

BY: SHERRY W 2/5/2018 SHEET 7 OF 14

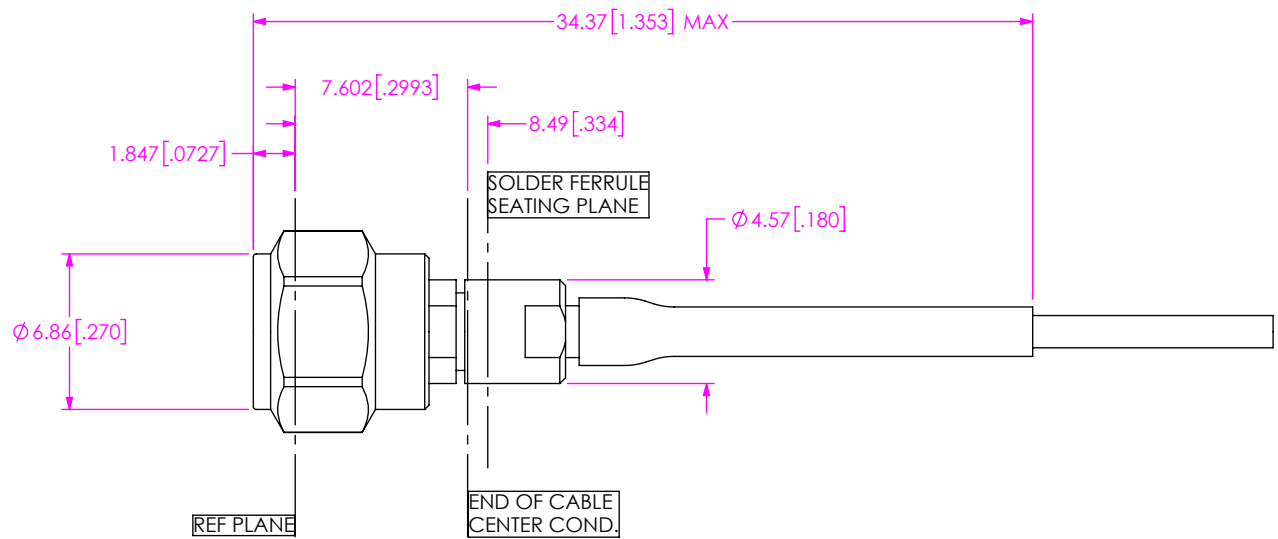


FIG 13
-13SP SHOWN

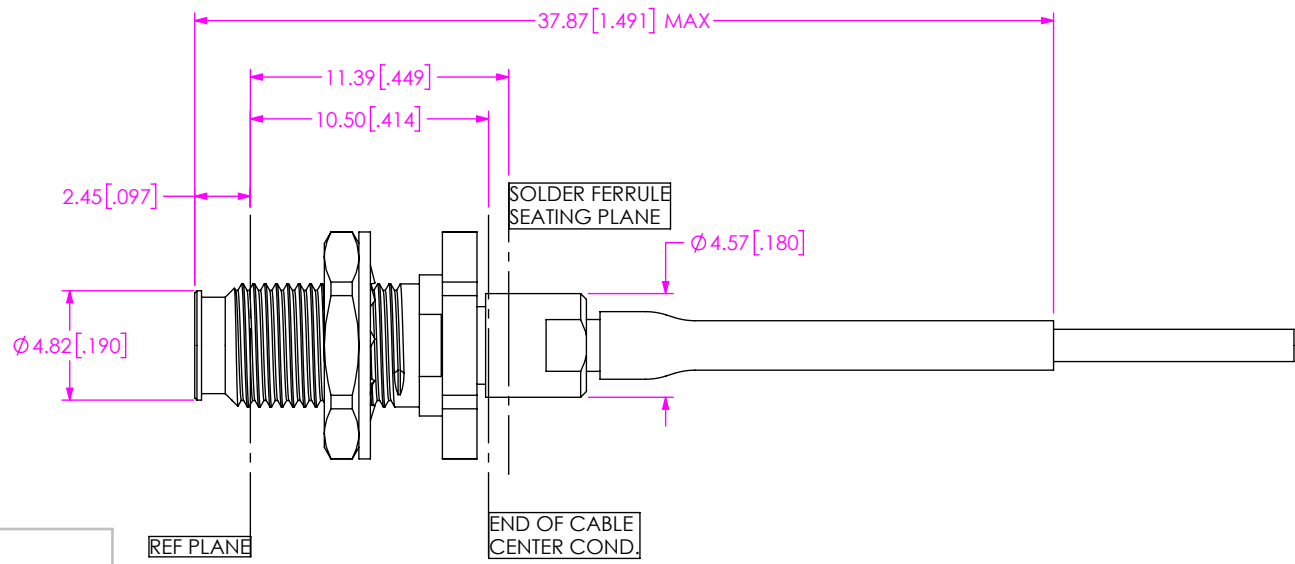
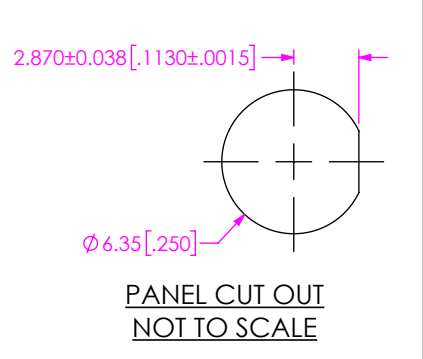
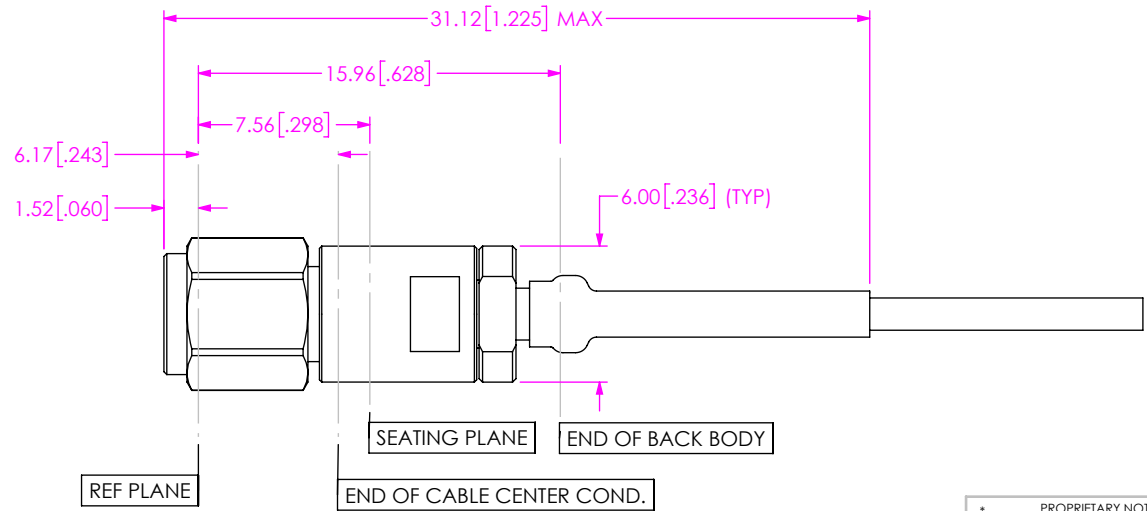
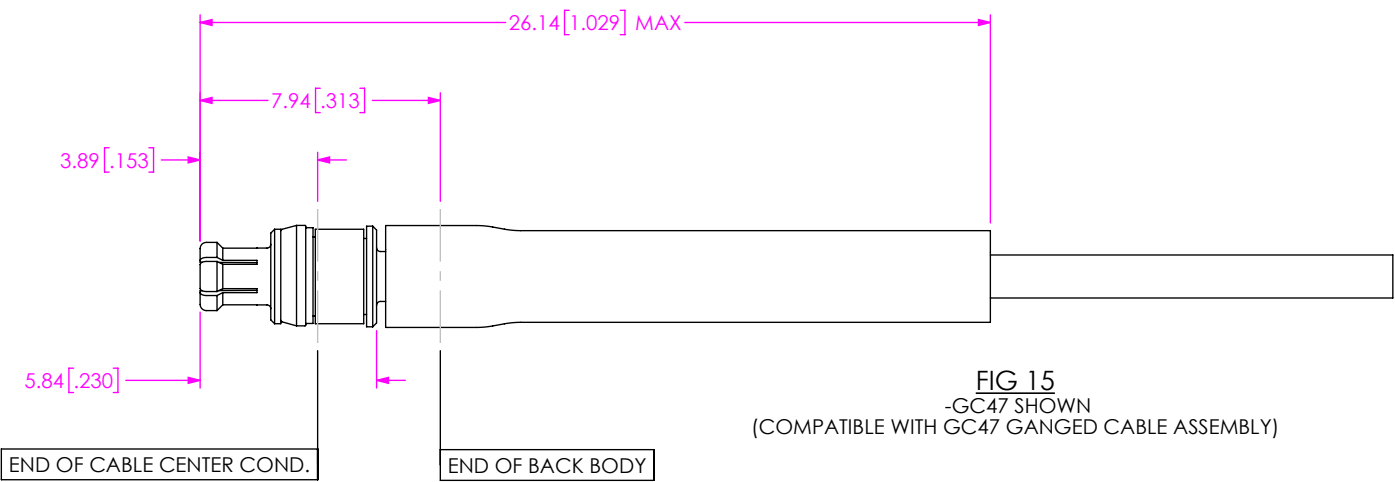


FIG 14
-13BJ SHOWN



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	DWG. NO. RF047-A-XXXX-XXXXXX-XXXX-X-XX
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	DWG. NO. RF047-A-XXXX-XXXXXX-XXXX-X-XX
SHEET SCALE: 4:1	BY: SHERRY W 2/5/2018 SHEET 9 OF 14

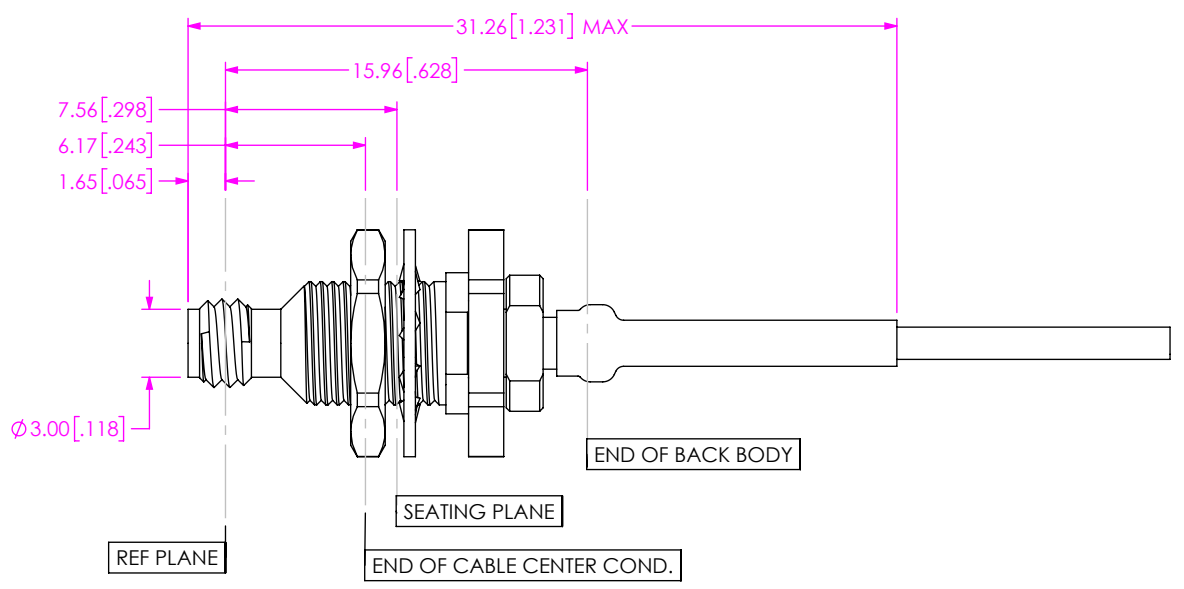


FIG 17
-10BJ SHOWN
(PROTECTIVE CAP NOT SHOWN FOR CLARITY)

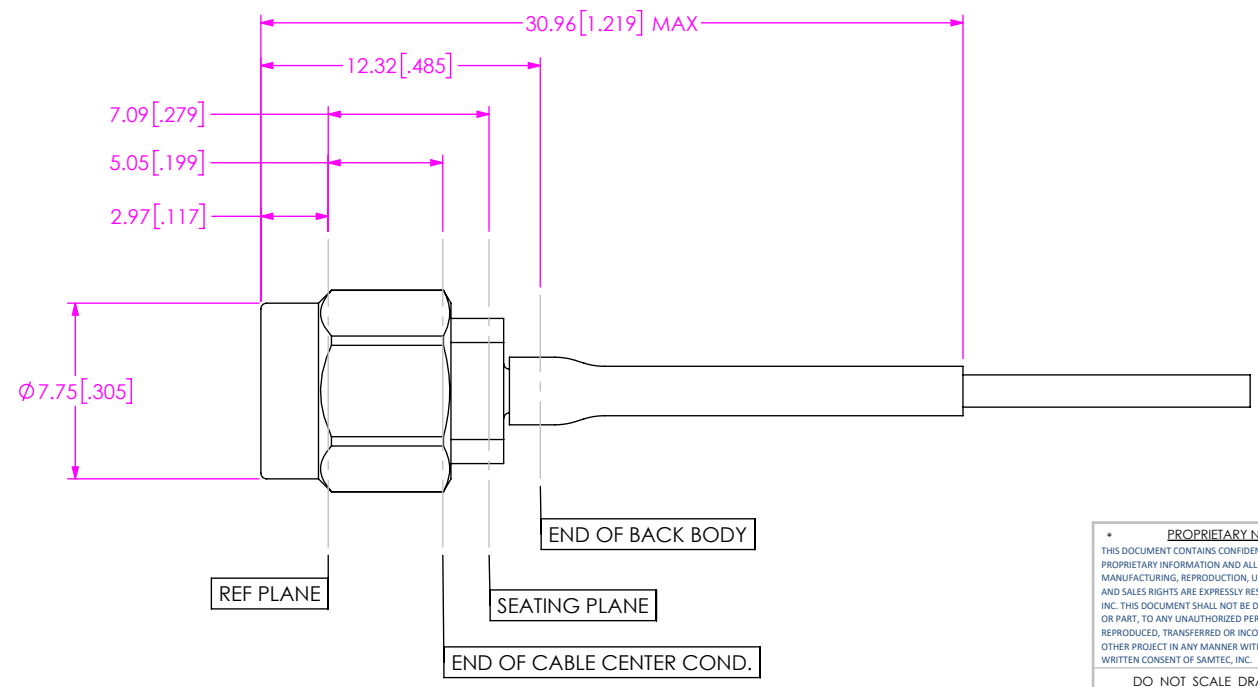
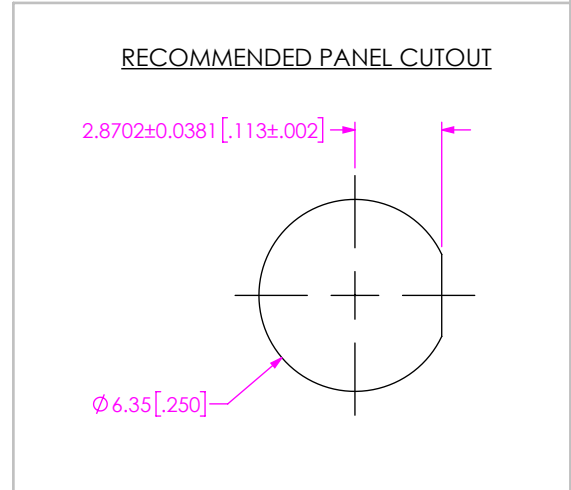


FIG 18
-01SP SHOWN
(PROTECTIVE CAP NOT SHOWN FOR CLARITY)

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	DO NOT SCALE DRAWING	DESCRIPTION: RF047-A CABLE ASSEMBLY
	SHEET SCALE: 4:1	DWG. NO. RF047-A-XXXX-XXXXXX-XXXX-X-XX BY: SHERRY W 2/5/2018 SHEET 10 OF 14

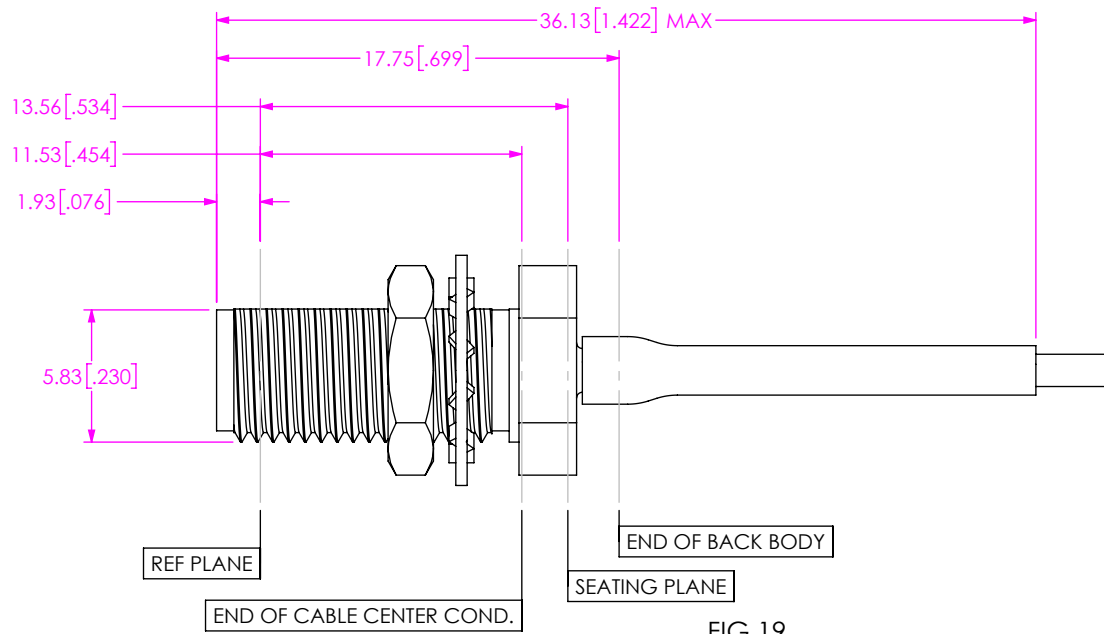


FIG 19
-01BJ SHOWN
(PROTECTIVE CAP NOT SHOWN FOR CLARITY)

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

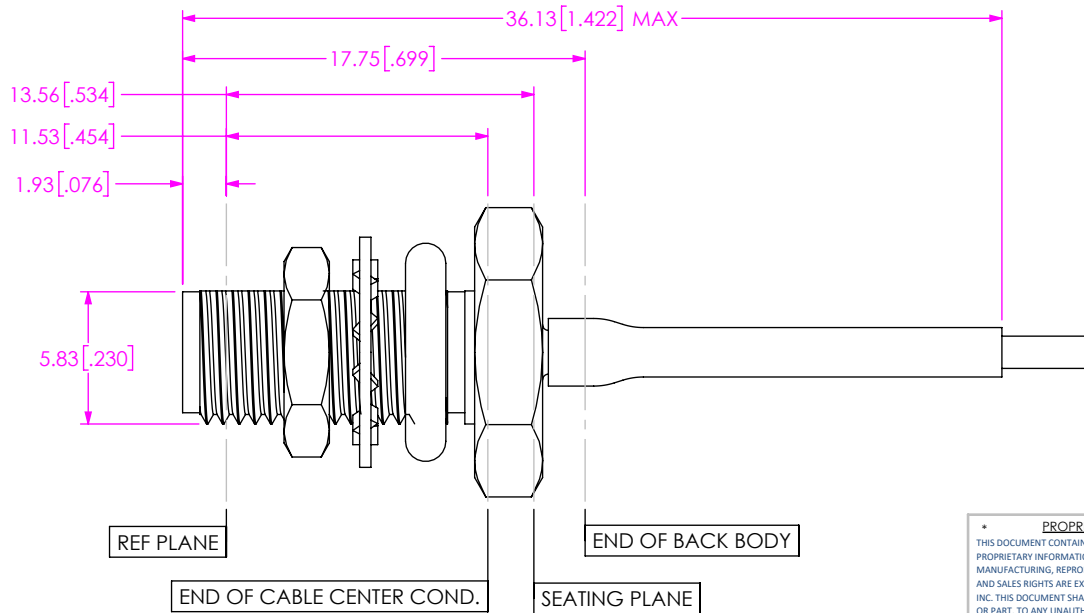
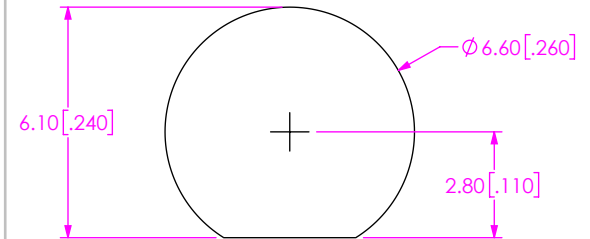
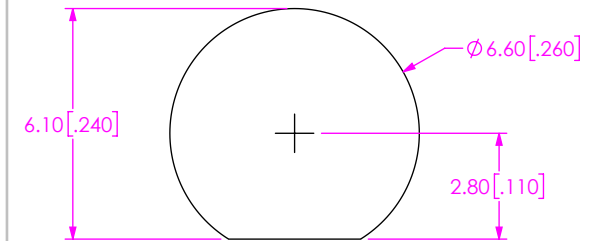


FIG 20
-01SB SHOWN
(PROTECTIVE CAP NOT SHOWN FOR CLARITY)

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



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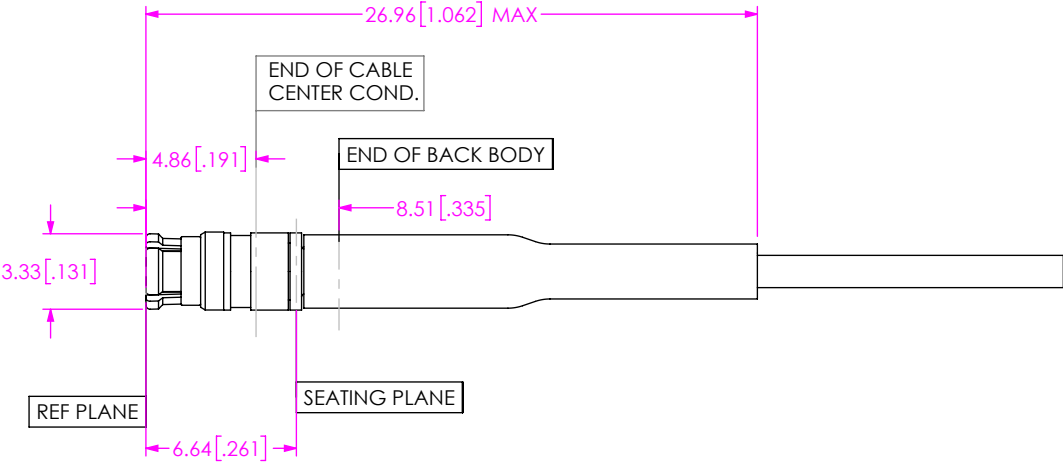


FIG 21
-00SJ SHOWN
(PROTECTIVE CAP NOT SHOWN FOR CLARITY)

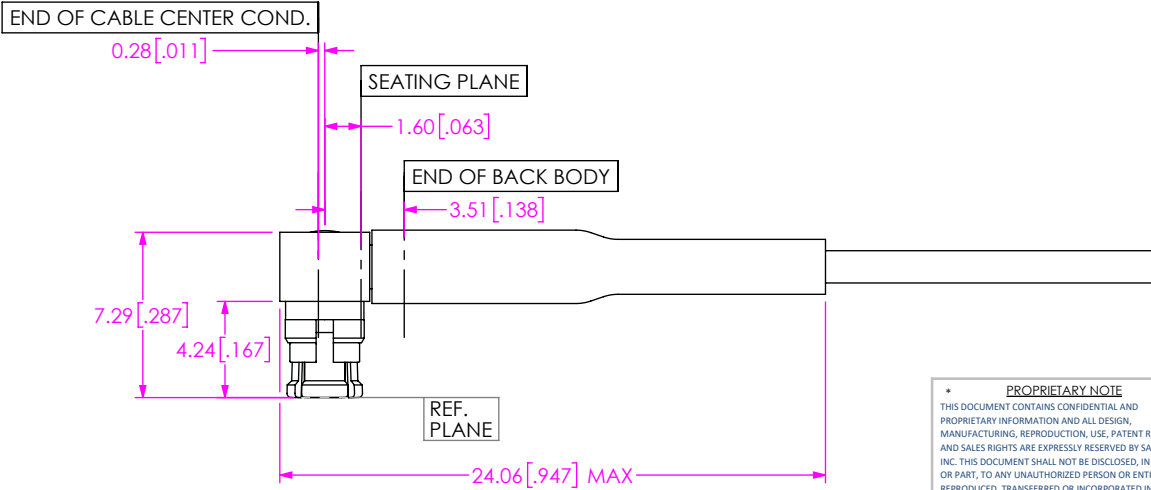


FIG 22
-00MJ SHOWN
(PROTECTIVE CAP NOT SHOWN FOR CLARITY)

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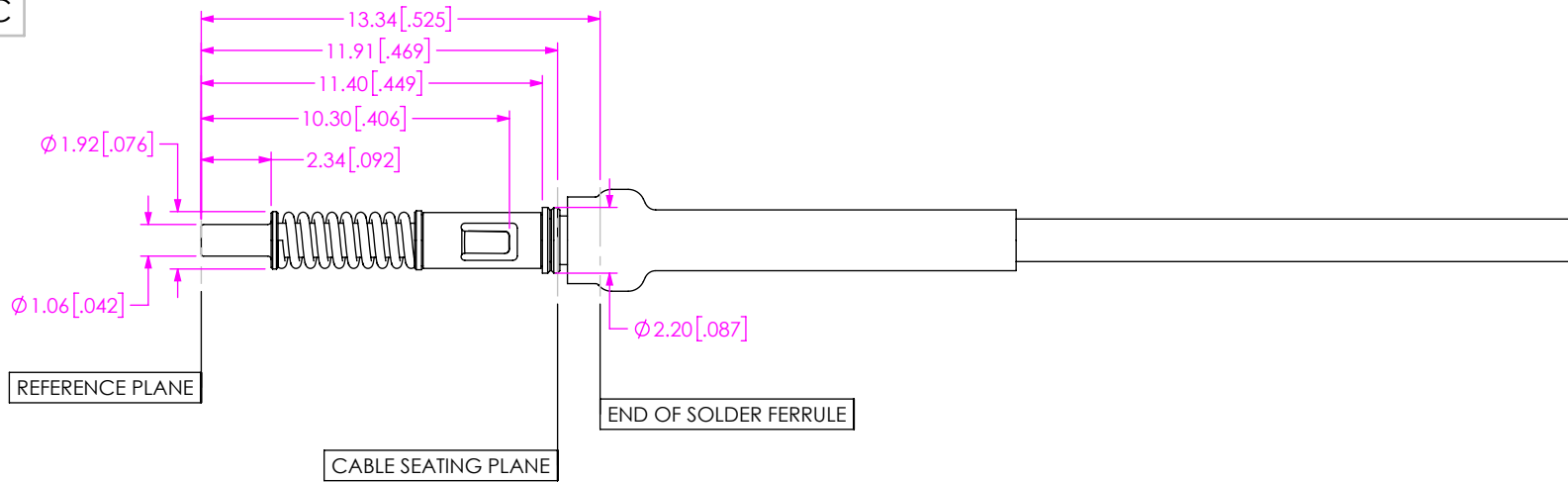


FIG 23
-20VP SHOWN

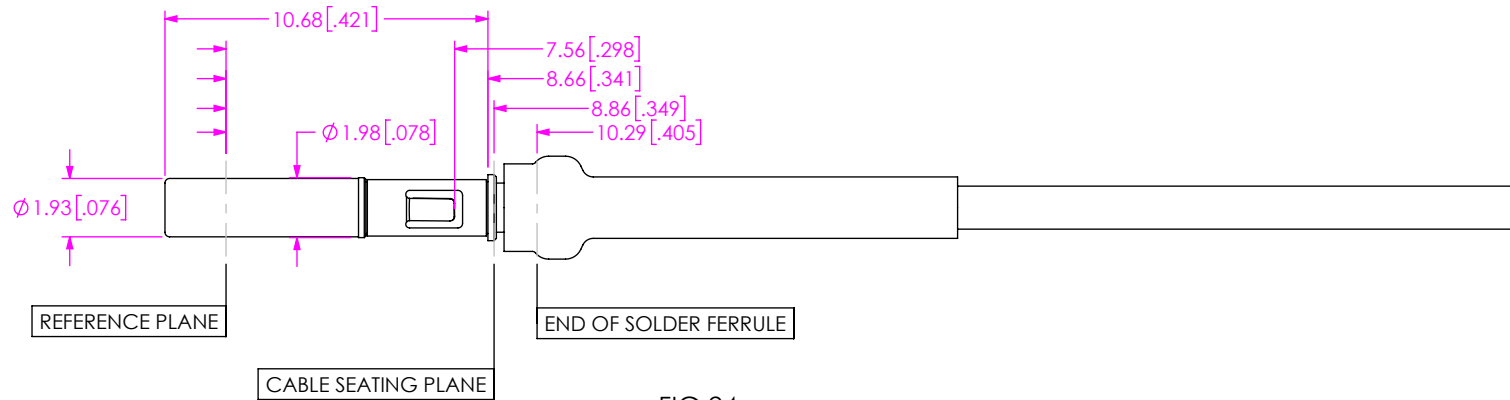


FIG 24
-20VS SHOWN

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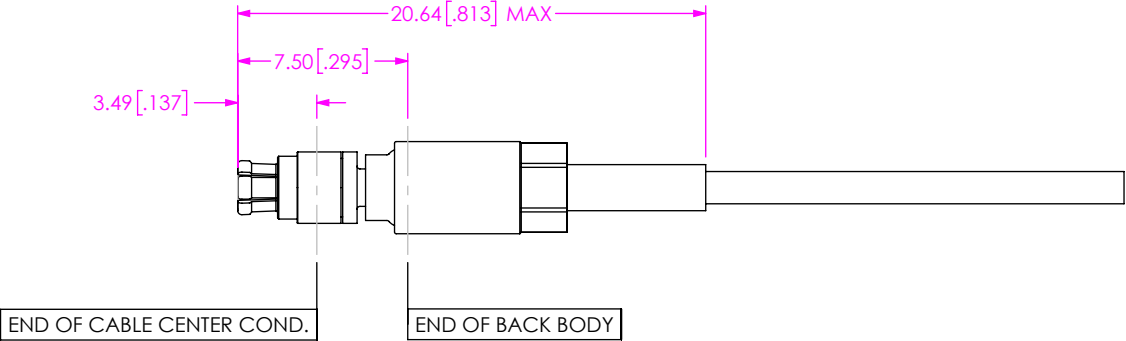


FIG 25
-MTSJ SHOWN

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