



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)

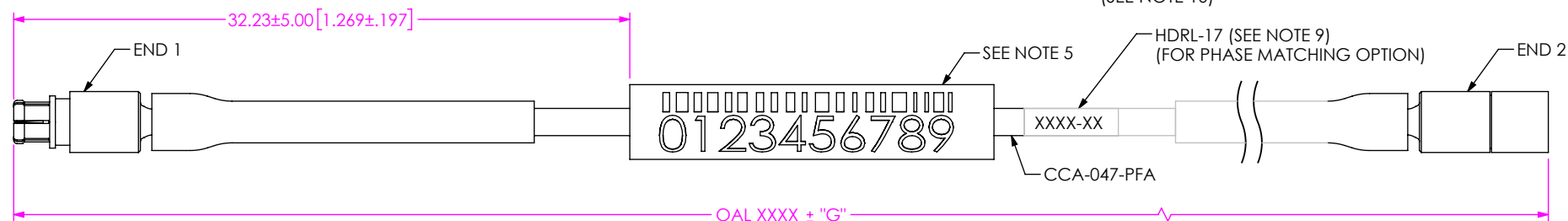


FIG 1
RF047-A-M0SJ-M0SP-XXXX SHOWN
(PROTECTIVE CAPS NOT SHOWN FOR CLARITY)

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]

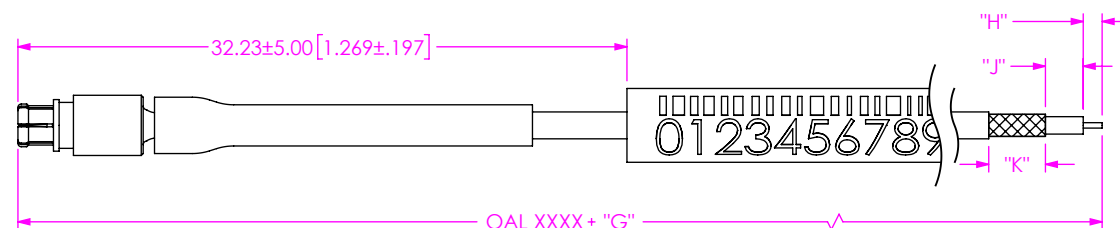


FIG 8
RF047-A-MOSJ-102030-XXXX SHOWN (SEE NOTE 7 & 8)

- "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:

1. NOTE DELETED.
2. NOTE DELETED.
3. CONNECTORS TO BE ORIENTED ACCORDING TO CO-RF-WI-3048-M.
4. CABLE ASSEMBLY TO HAVE PROTECTIVE CAPS ASSEMBLED ON EACH END AND INDIVIDUALLY PACKAGED IN ESD BAG.
5. 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.
6. CABLE LENGTHS LONGER THAN 1000 MILLIMETERS ARE NOT SUPPORTED BY S.I. TEST DATA.
7. DIM "H", "J", AND "K" HAVE A MINIMUM VALUE OF 0.0mm & A MAXIMUM VALUE OF 9.9mm[.39"].
8. FOR STRIPPED AND TINNED OPTION, BOTH THE CENTER CONDUCTOR IS TINNED.
9. XXXX-XX: LAST FOUR DIGIT OF MANUFACTURING ORDER - PHASE MATCHING GROUP NUMBER.
10. USE 3 DIGITS XXX (MILLIMETERS) FOR PHASE MATCHING OPTION. 999MM MAX LENGTH.

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MATERIAL: DO NOT SCALE DRAWING
CENTER CONTACTS: COPPER ALLOY SHEET SCALE: 3"
OUT CONTACTS:
 -MDSF/MDSJ/MOJ/MOJ-01SP/01B/01B-00SJ/00MJ/MTSJ/MSRJ: COPPER ALLOY
 -2SP/2PS/1BSP/1BSJ/2SP/24SJ/24SJ
 -13BJ/13SP: STAINLESS STEEL
INSULATORS:
 -MDSF/MDSJ/MOJ/MOJ-01SP/01B/01B-00SJ/00MJ: VIRGIN PTFE FLUOROCARBON
 -2SP/2PS/1BSP/1BSJ/2SP/24SJ/MTSJ/MSRJ: ULTEMA
 -13BJ/13SP: PC/PPE
 -13BJ/13SP: VIRGIN PTFE -00SJ/00MJ/PC/PPE

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G-1	DESCRIPTION: RF047-A CABLE ASSEMBLY		
	DWG. NO. RF047-A-XXXX-XXXXXX-XXXX-X-XX		
	BY: SHERRY W	2/5/2018	SHEET 1 OF 16

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 FULL DETENT	30µ" GOLD	50µ" GOLD	50µ" GOLD	PRFM0-P-C-HG-047A-UR	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
▲**-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	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	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	1.140	.03+ .045*SQRT(Freq[GHz])	DC TO 40 GHz	N/A
	20.67	1.204		40 GHz TO 65 GHz	
-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	

* = 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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DO NOT SCALE DRAWING

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 2 OF 16

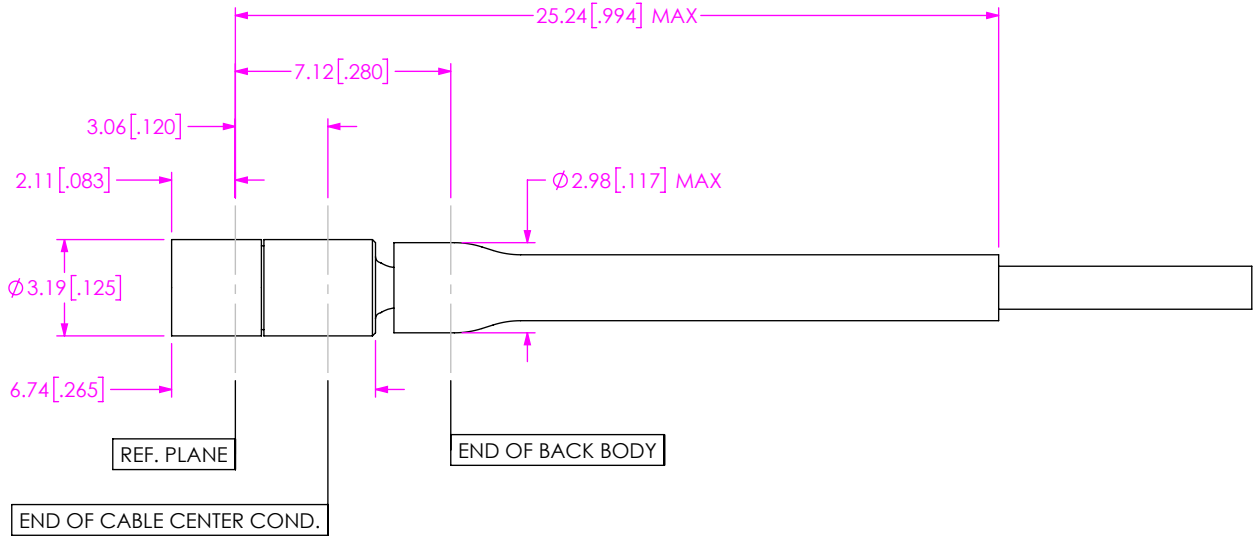


FIG 2
-MOSP SHOWN
(PROTECTIVE CAP NOT SHOWN FOR CLARITY)

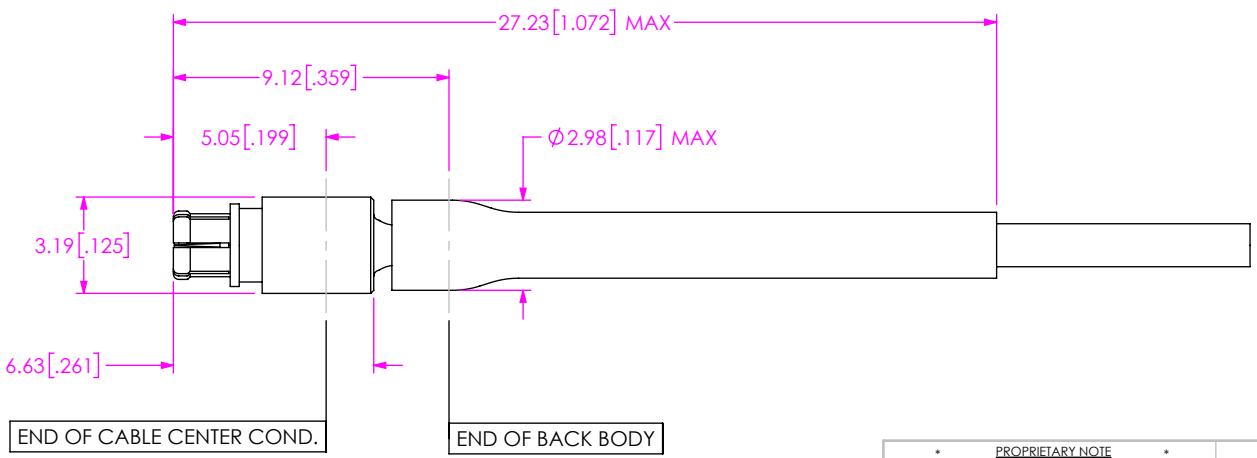


FIG 3
-MOSJ SHOWN
(PROTECTIVE CAP NOT SHOWN FOR CLARITY)

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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 16	

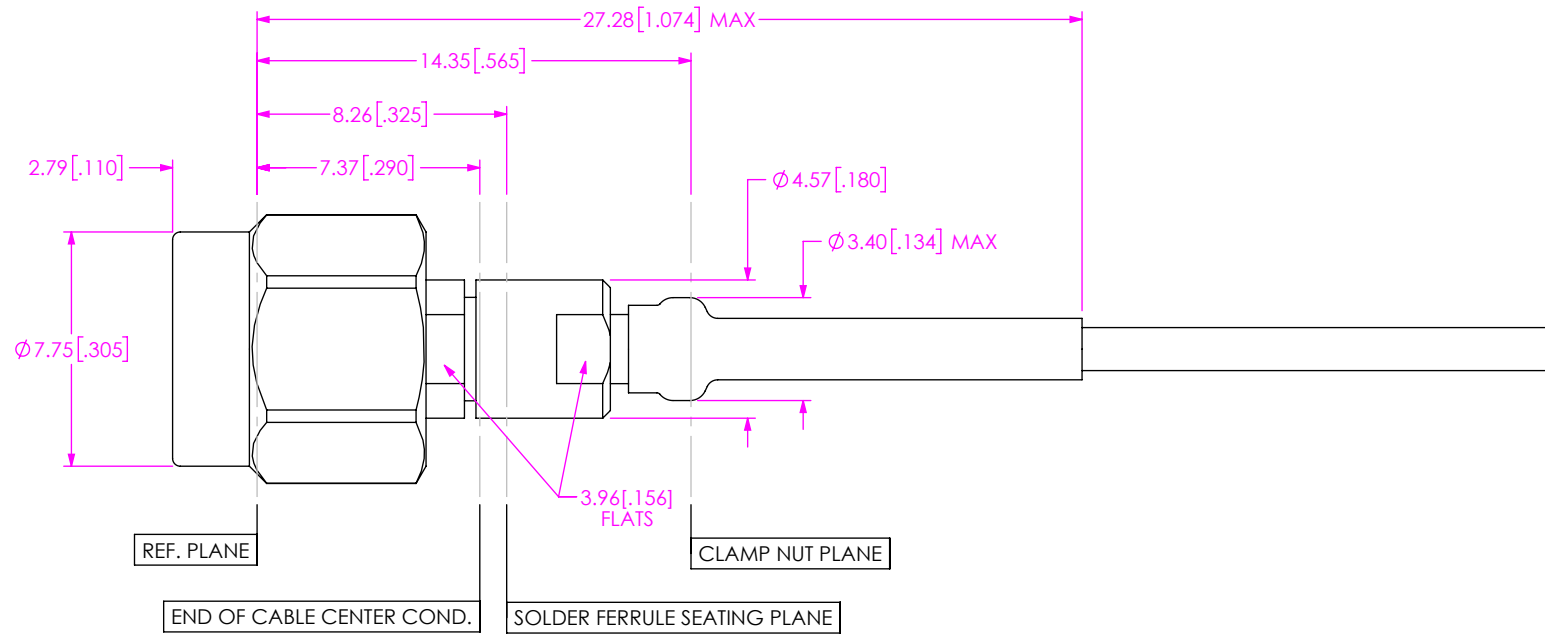


FIG 4
-92SP SHOWN
(PROTECTIVE CAP NOT SHOWN FOR CLARITY)

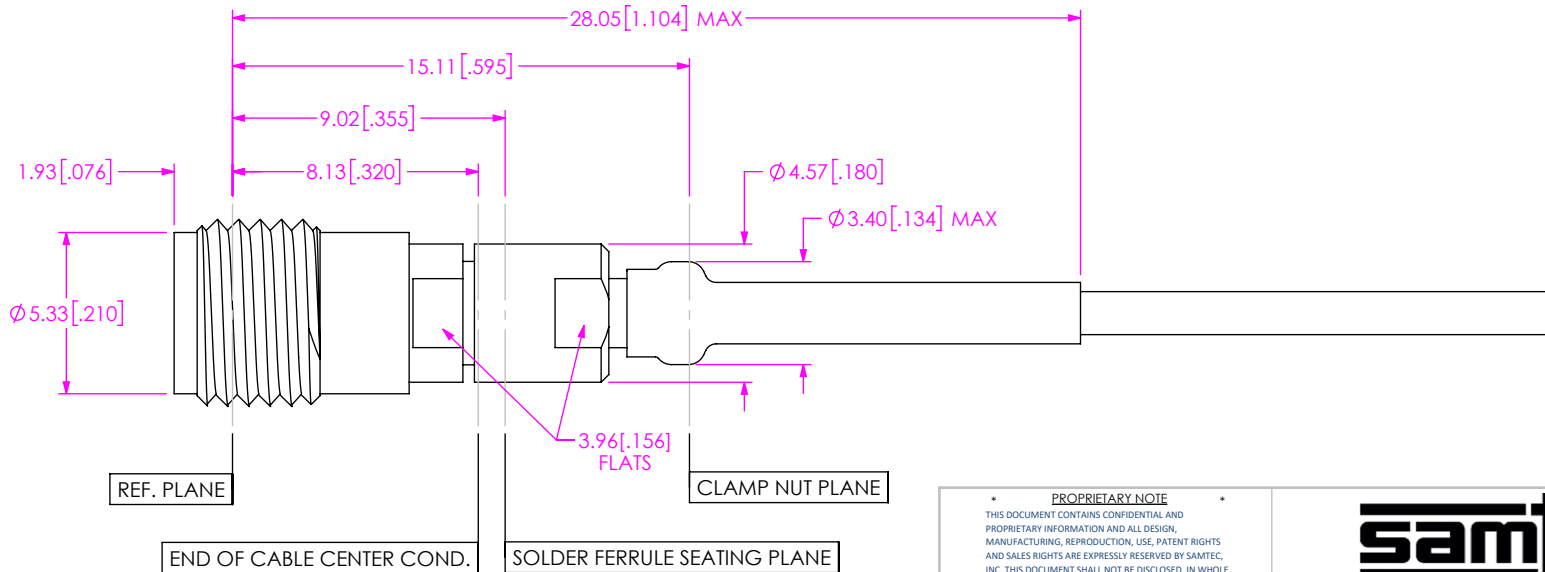


FIG 5
-92SJ SHOWN
(PROTECTIVE CAP NOT SHOWN FOR CLARITY)

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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 16
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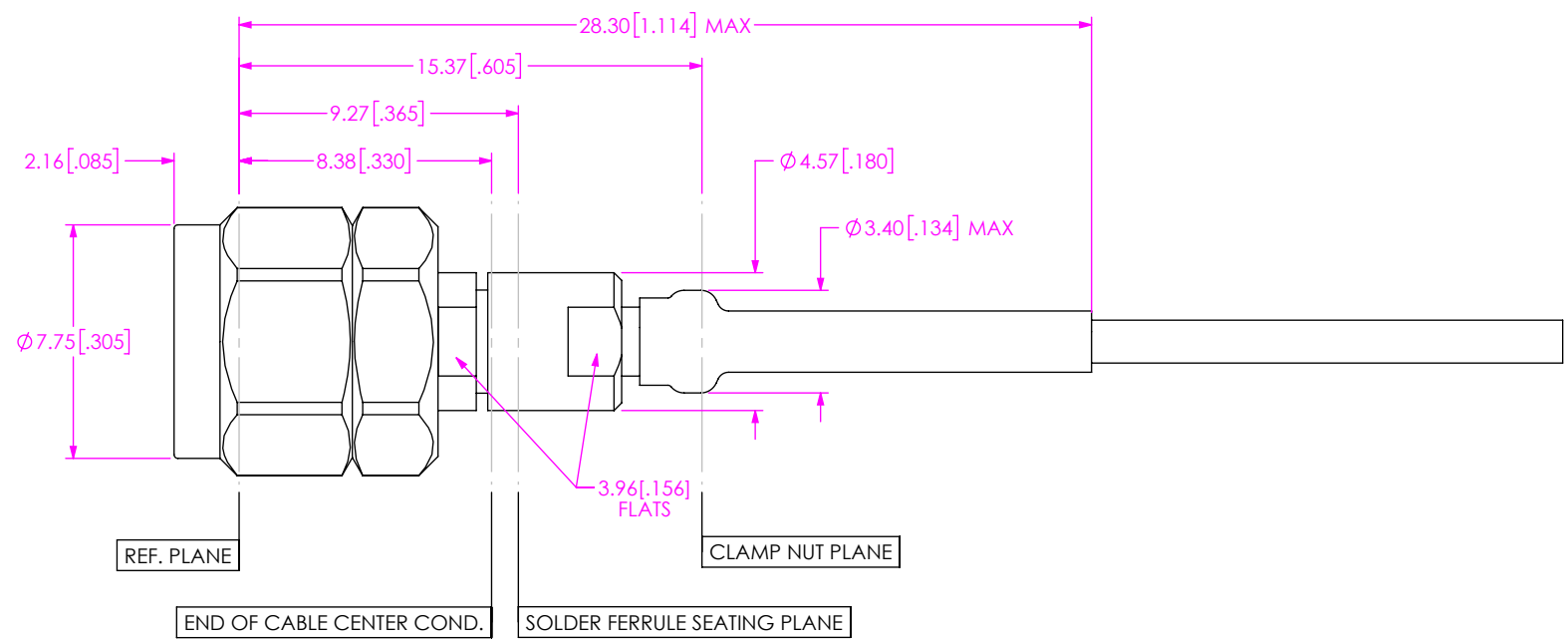


FIG 6
-18SP SHOWN
(PROTECTIVE CAP NOT SHOWN FOR CLARITY)

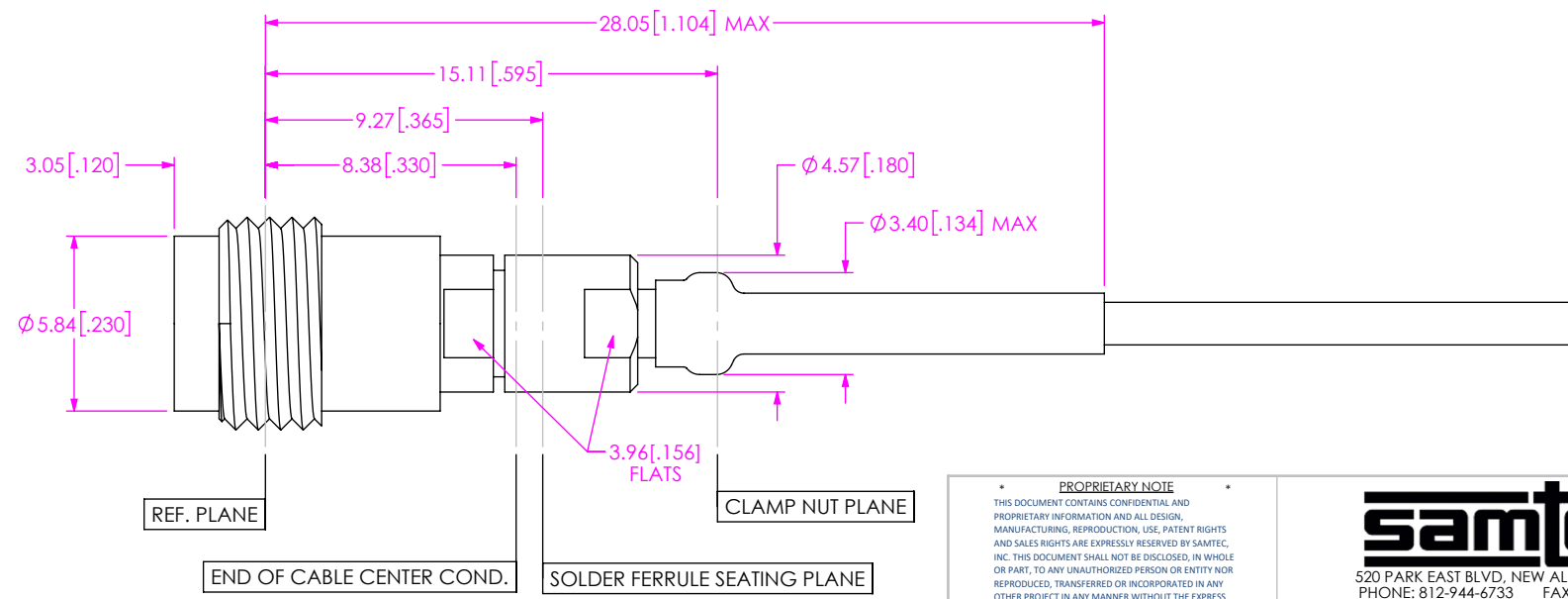


FIG 7
-18SJ SHOWN
(PROTECTIVE CAP NOT SHOWN FOR CLARITY)

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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 16

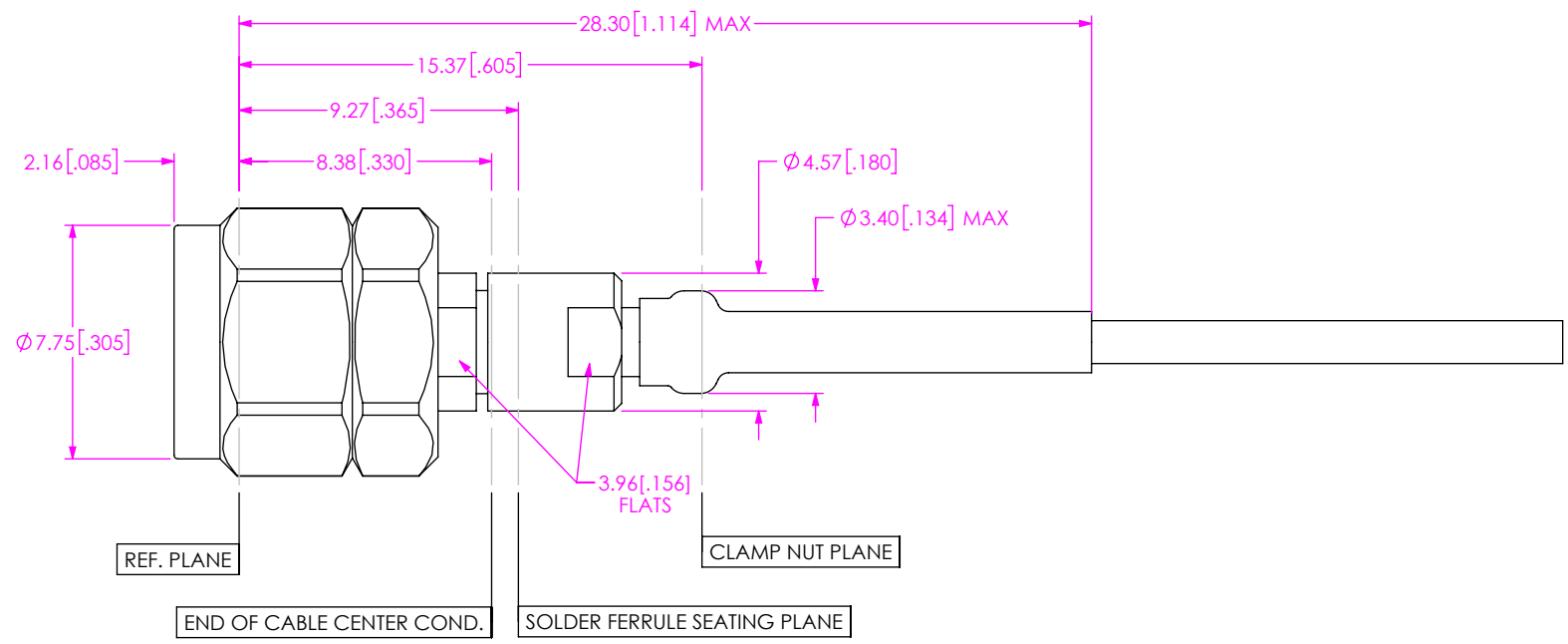


FIG 9
-24SP SHOWN
(PROTECTIVE CAP NOT SHOWN FOR CLARITY)

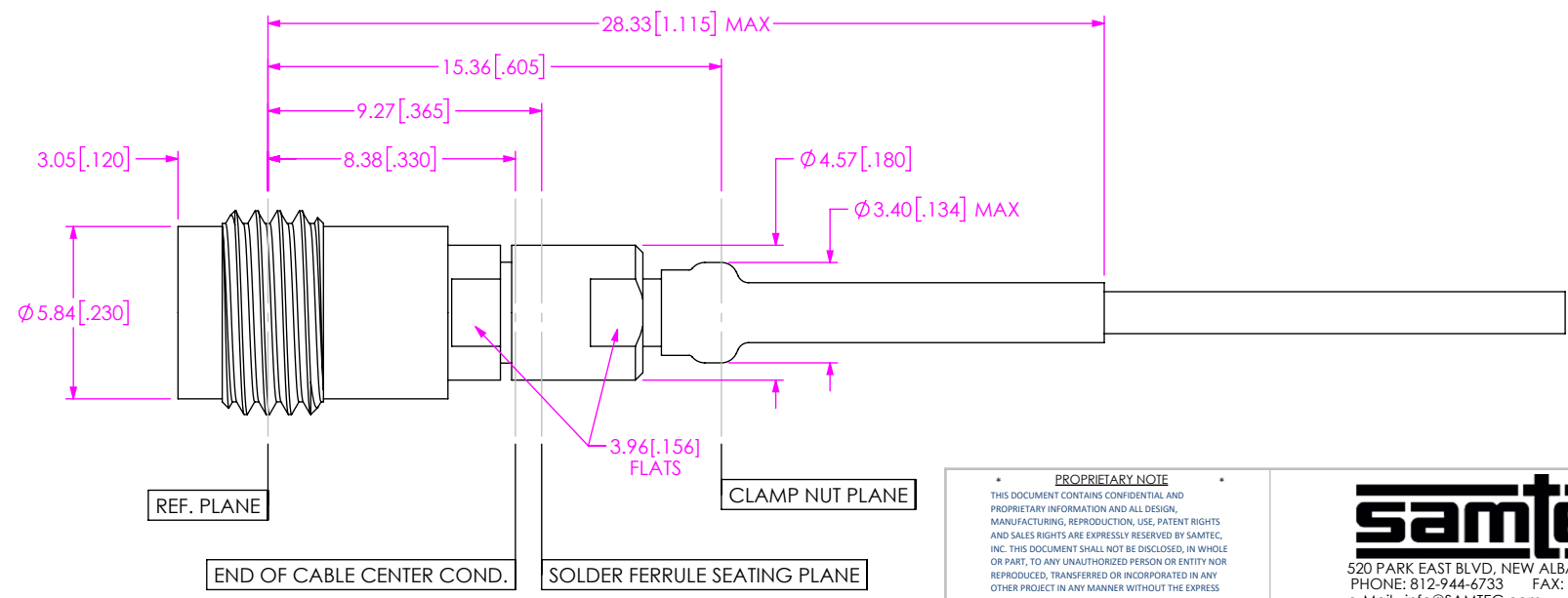


FIG 10
-24SJ SHOWN
(PROTECTIVE CAP NOT SHOWN FOR CLARITY)

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SHEET SCALE: 4:1

DESCRIPTION: RF047-A CABLE ASSEMBLY
DWG. NO. RF047-A-XXXX-XXXXXX-XXXX-X-XX
BY: SHERRY W 2/5/2018 SHEET 6 OF 16

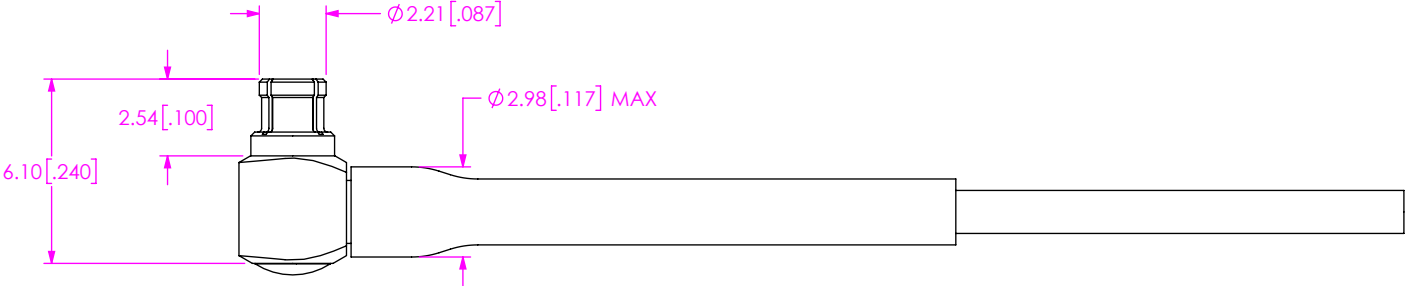


FIG 11
-M0RJ SHOWN

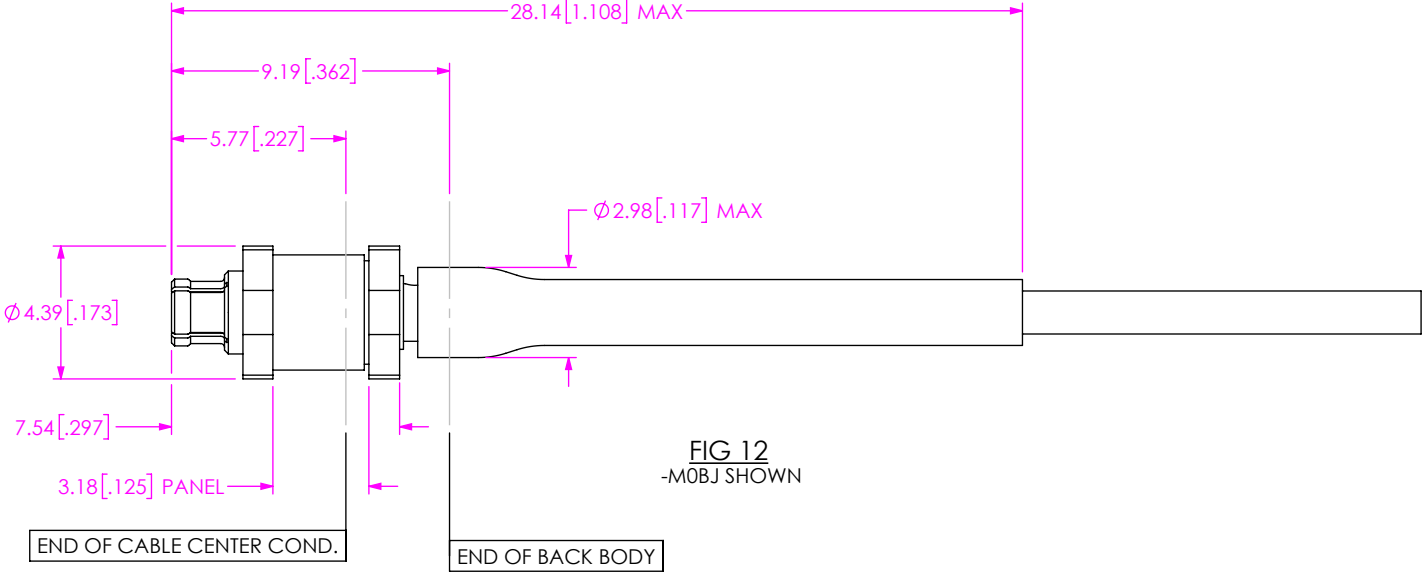
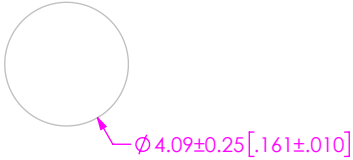


FIG 12
-MOBJ SHOWN



RECOMMENDED PANEL VIEW

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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 16

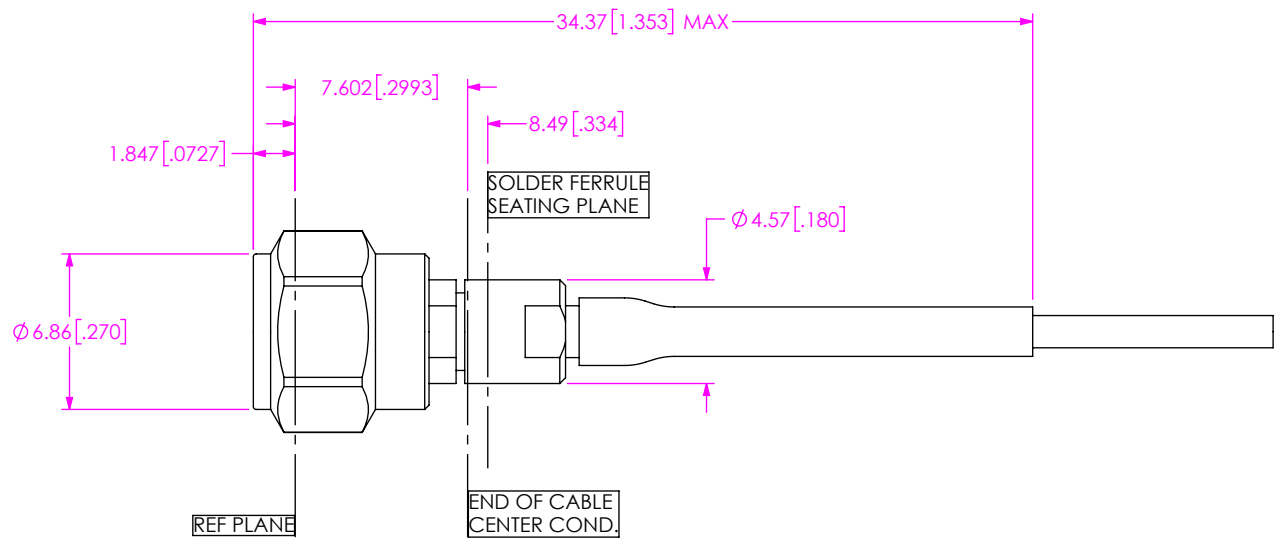


FIG 13
-13SP SHOWN

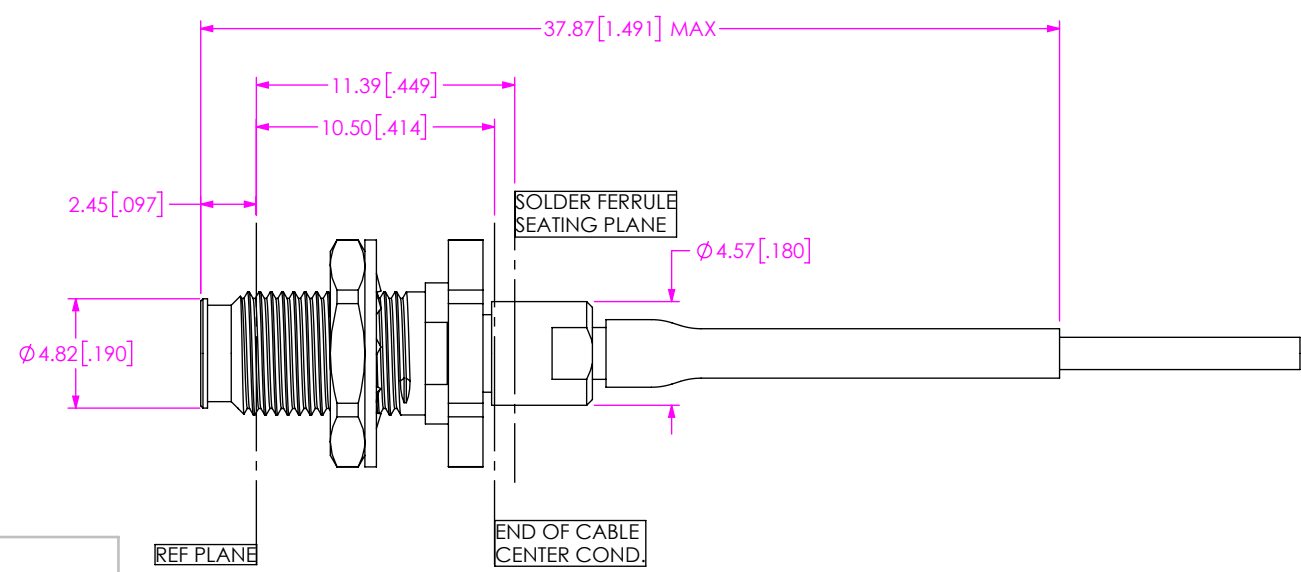
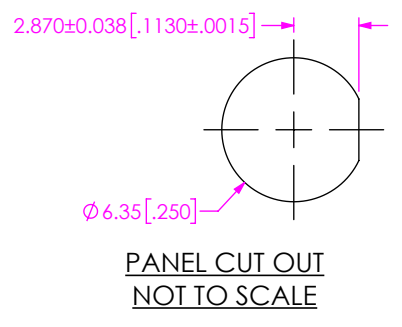


FIG 14
-13BJ SHOWN



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DO NOT SCALE DRAWING	DESCRIPTION: RF047-A CABLE ASSEMBLY
	DWG. NO. RF047-A-XXXX-XXXXXX-XXXX-X-XX
SHEET SCALE: 3:1	BY: SHERRY W 2/5/2018 SHEET 8 OF 16

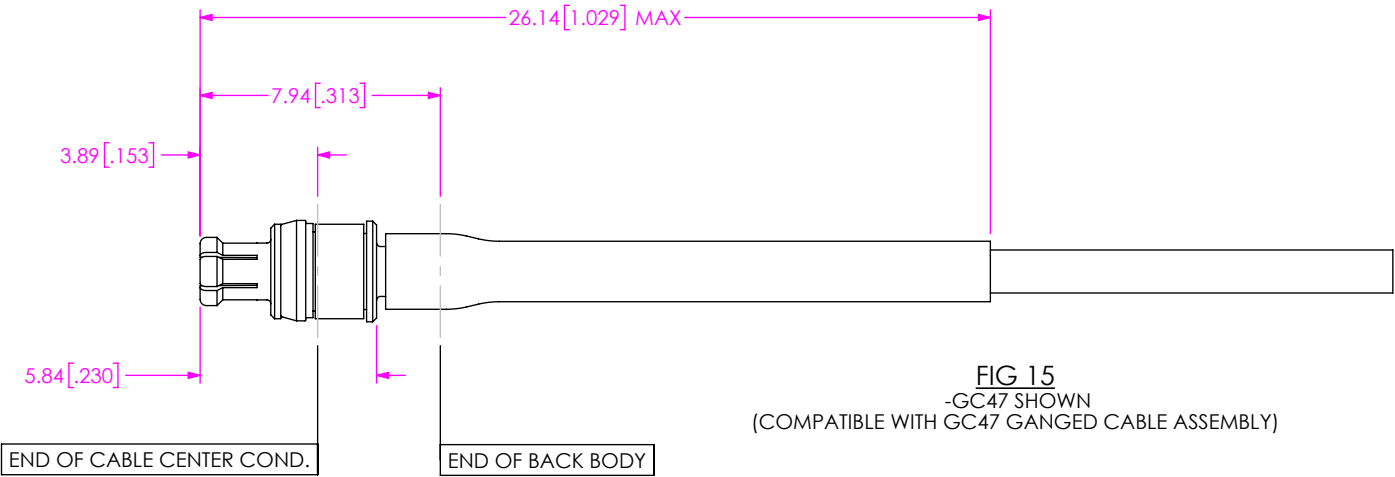


FIG 15
-GC47 SHOWN
(COMPATIBLE WITH GC47 GANGED CABLE ASSEMBLY)

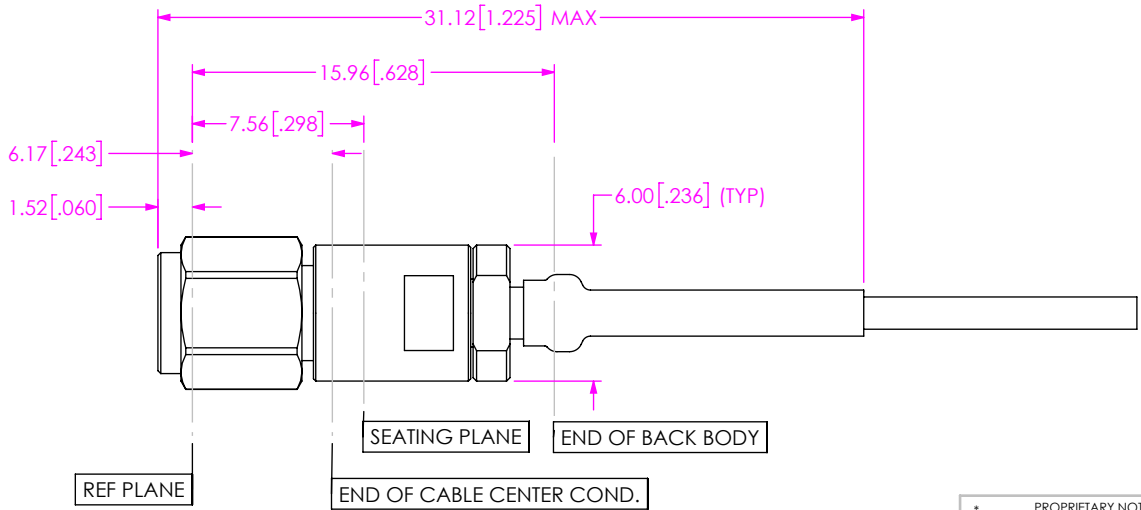


FIG 16
-10SP SHOWN
(PROTECTIVE CAP NOT SHOWN FOR CLARITY)

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	DESCRIPTION: RF047-A CABLE ASSEMBLY
	DWG. NO. RF047-A-XXXX-XXXXXX-XXXX-X-XX
SHEET SCALE: 4:1	BY: SHERRY W 2/5/2018 SHEET 9 OF 16

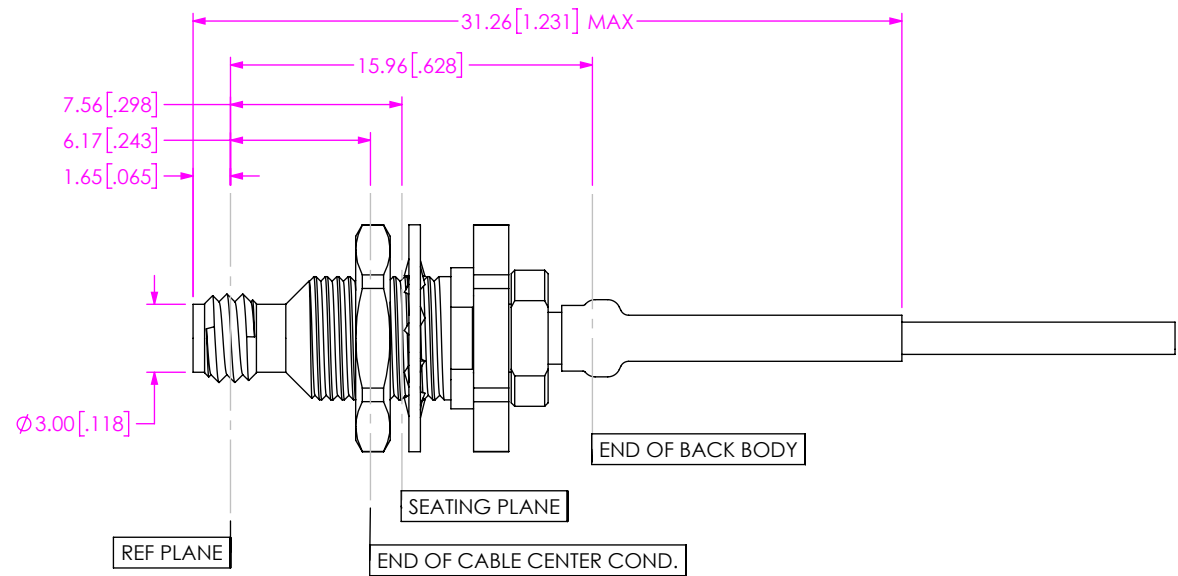


FIG 17
-10BJ SHOWN
(PROTECTIVE CAP NOT SHOWN FOR CLARITY)

RECOMMENDED PANEL CUTOUT

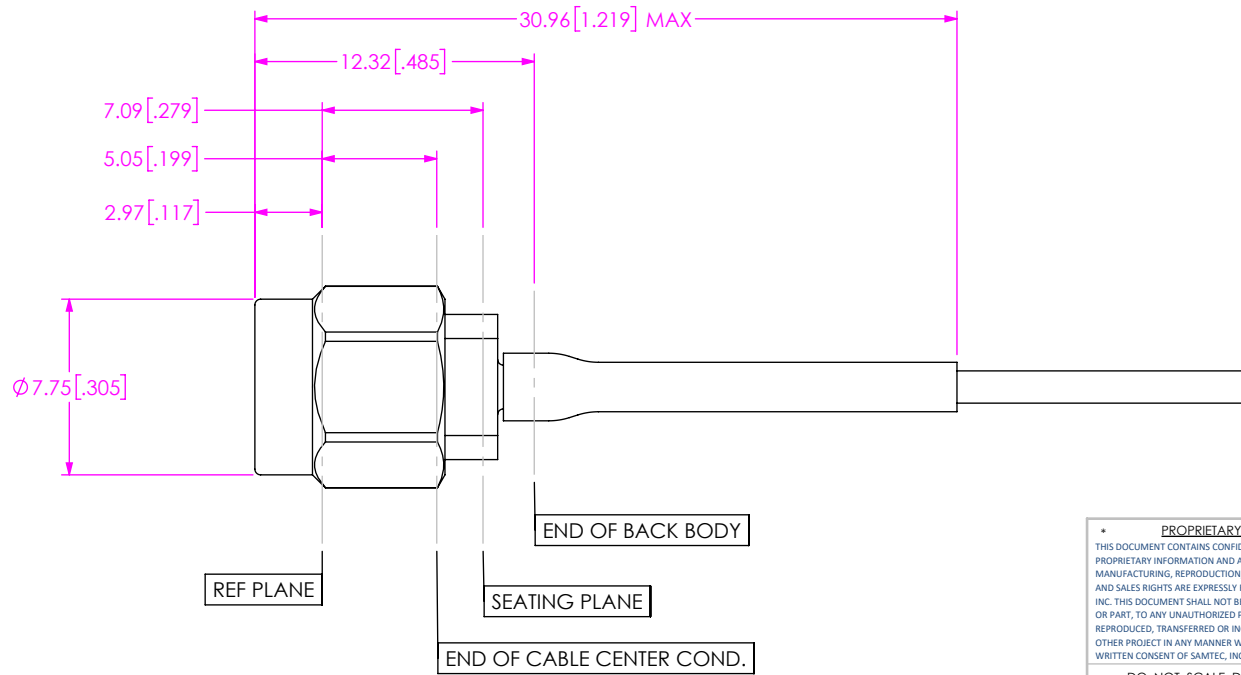
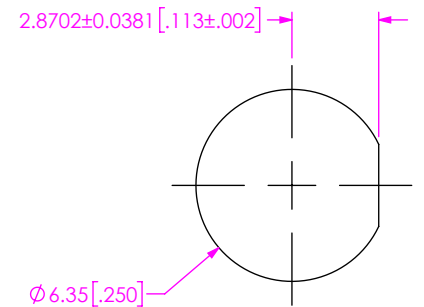
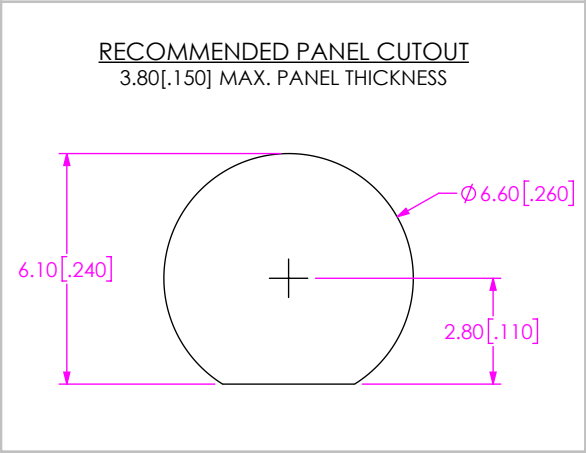
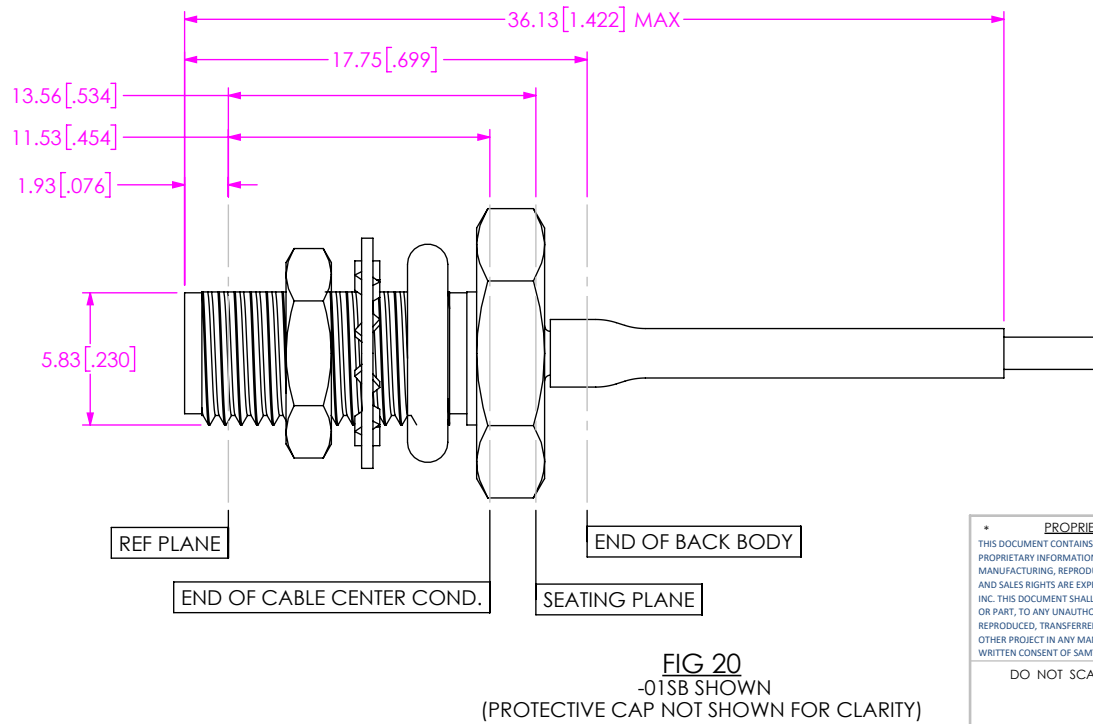
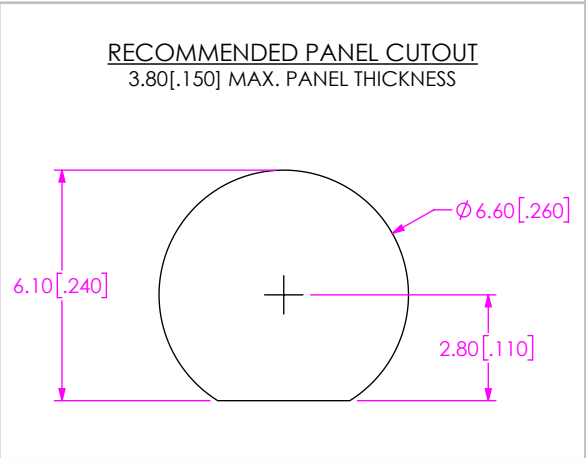
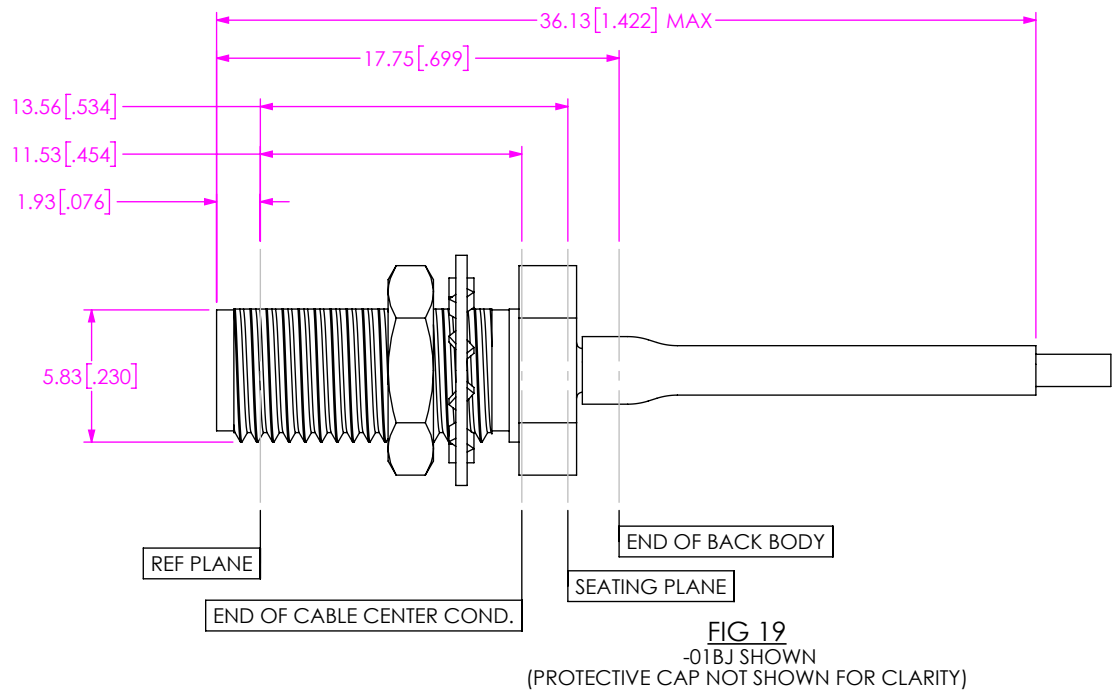


FIG 18
-01SP SHOWN
(PROTECTIVE CAP NOT SHOWN FOR CLARITY)

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

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

BY: SHERRY W 2/5/2018 SHEET 11 OF 16

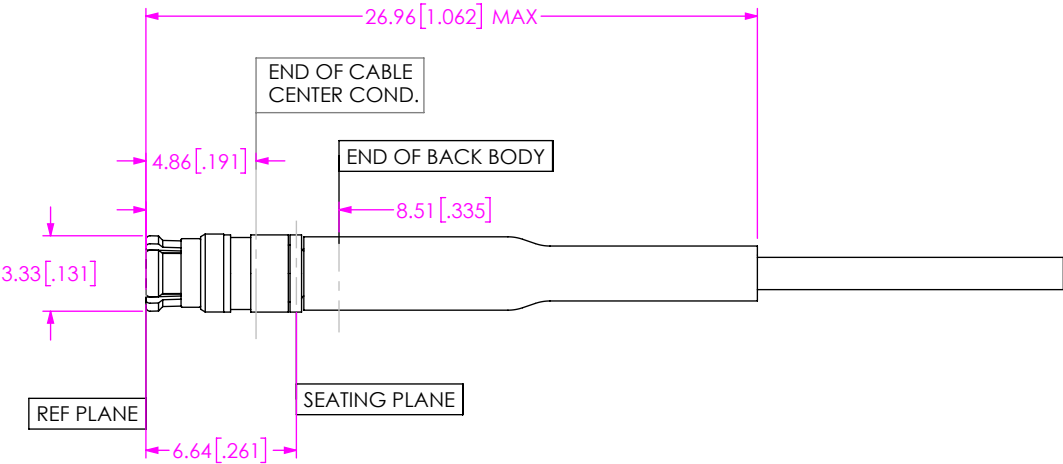


FIG 21
-00SJ SHOWN
(PROTECTIVE CAP NOT SHOWN FOR CLARITY)

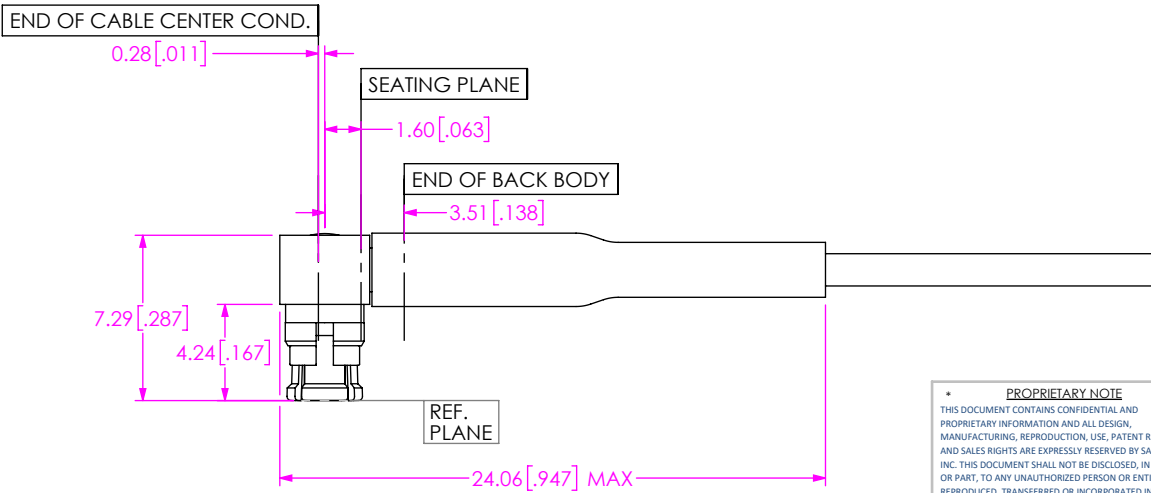


FIG 22
-00MJ SHOWN
(PROTECTIVE CAP NOT SHOWN FOR CLARITY)

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	DWG. NO. RF047-A-XXXX-XXXXXX-XXXX-X-XX
BY: SHERRY W 2/5/2018 SHEET 12 OF 16	

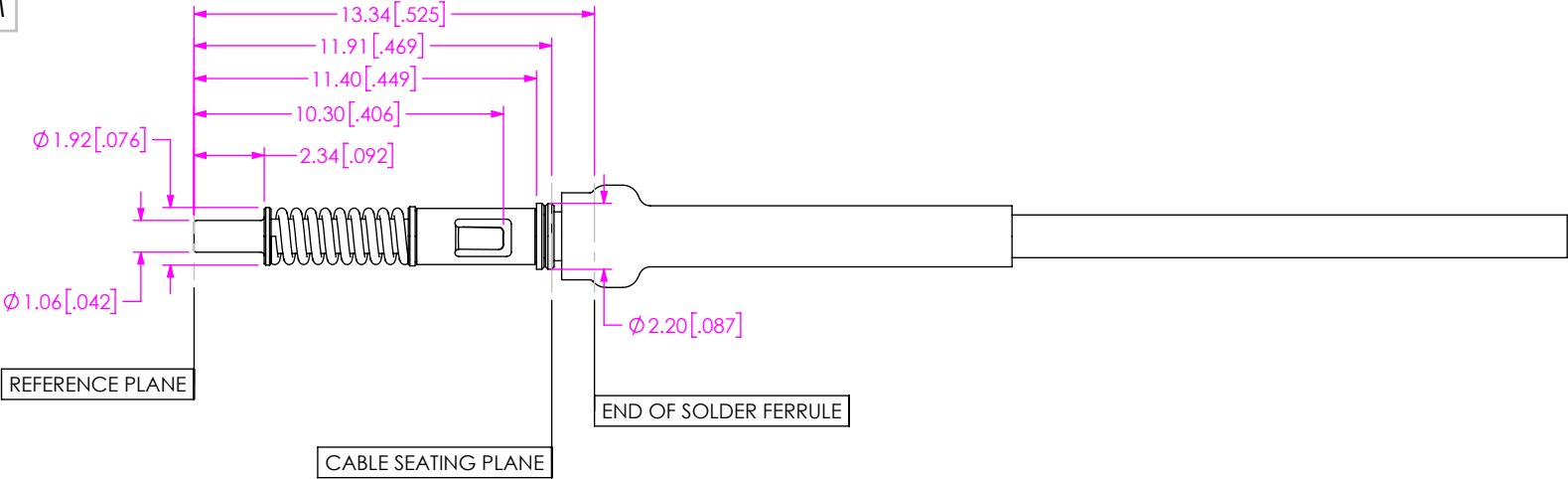


FIG 23
-20VP SHOWN

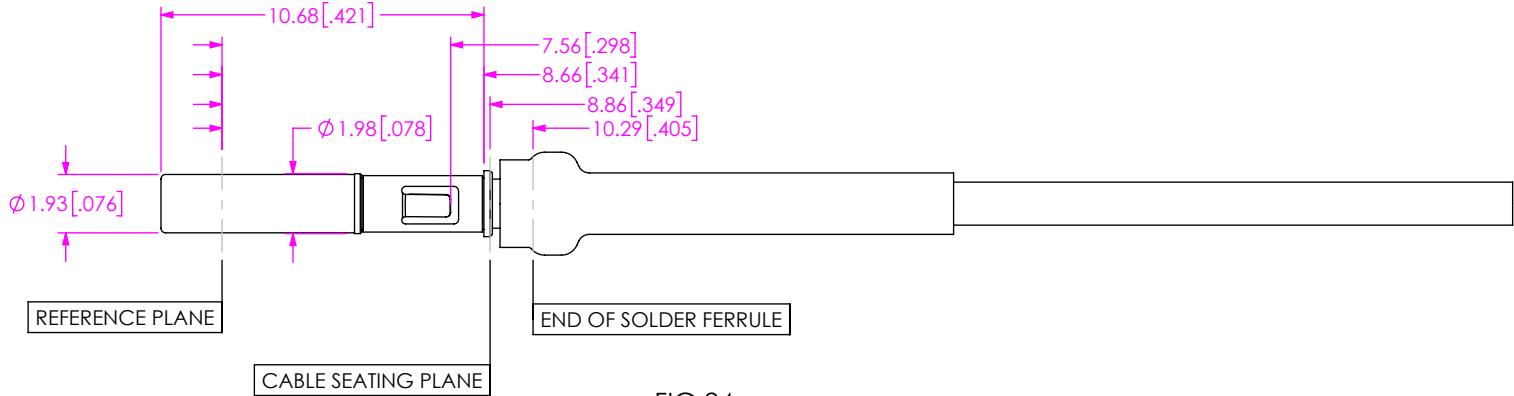


FIG 24
-20VS SHOWN

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samtec

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PHONE: 812-944-6733 FAX: 812-948-5047
e-Mail info@SAMTEC.com code 55322

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RF047-A CABLE ASSEMBLY

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

SHEET SCALE: 3:1

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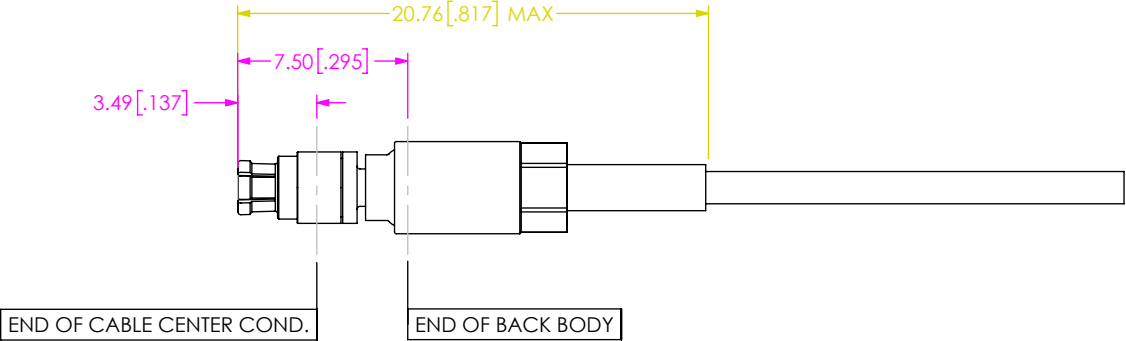


FIG 25
-MTSJ SHOWN

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

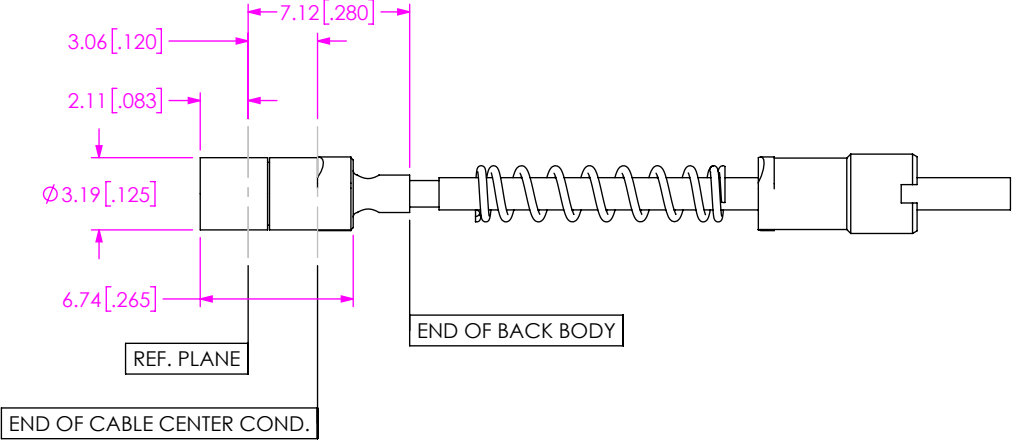


FIG 26
-MOUP SHOWN
(COMPATIBLE WITH BISM GANGED ASSEMBLY)

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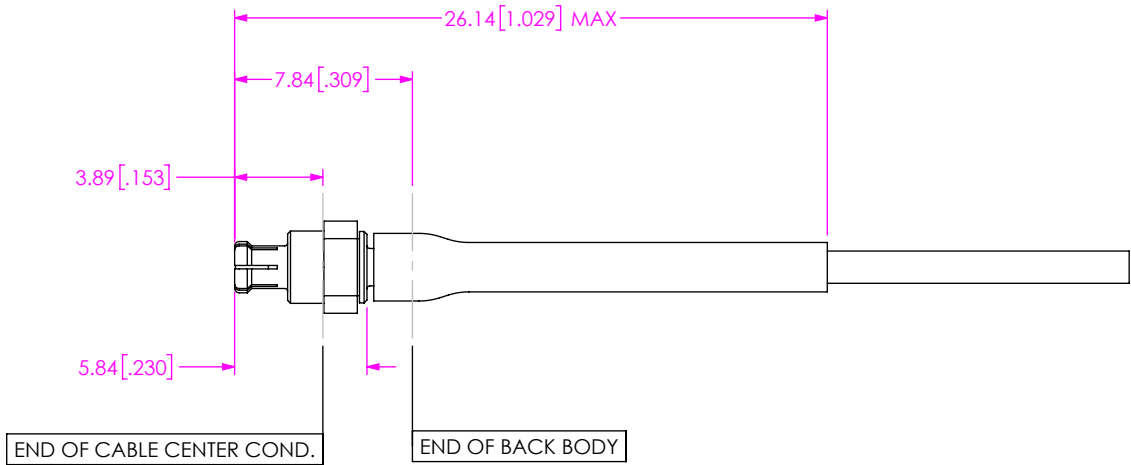


FIG 27
-M0UJ SHOWN
(COMPATIBLE WITH P1SM GANGED ASSEMBLY)

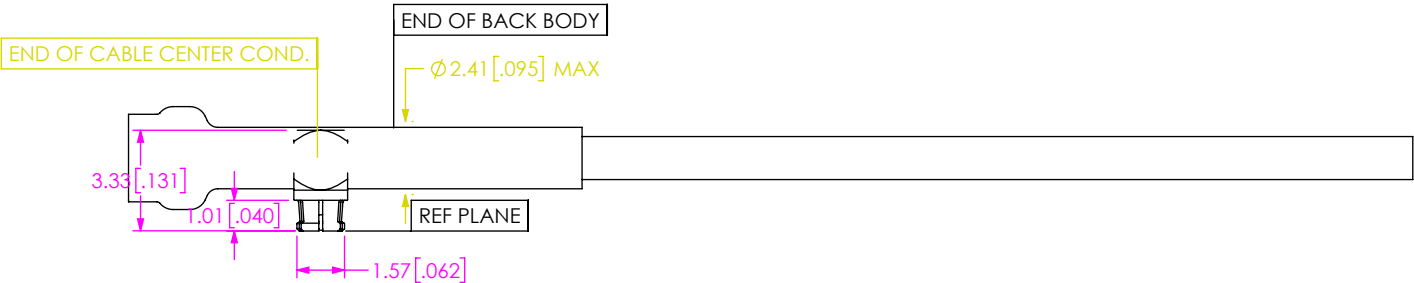
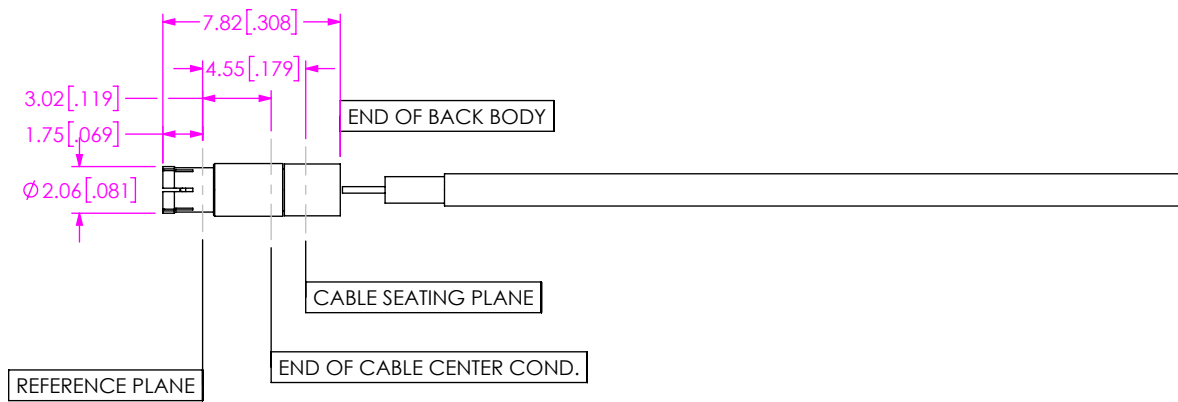
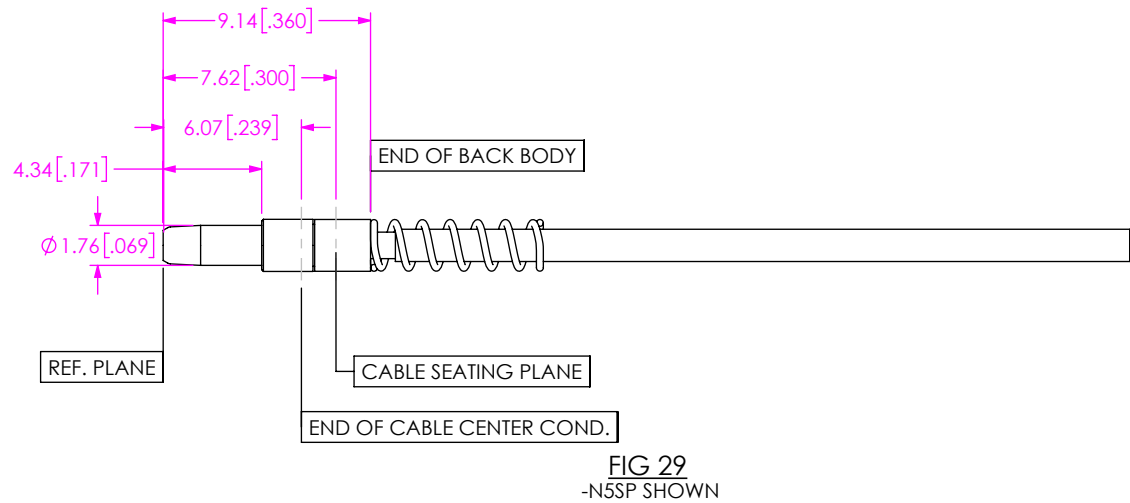


FIG 28
-M3RJ SHOWN

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