

DESIGNED AND DIMENSIONED IN MILLIMETERS[INCHES]
ALL DIMENSIONS REFERENCE EXCEPT AS SHOWN

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

DO NOT
SCALE FROM
THIS PRINT

RF086-XXXX-XXXX-XXXX

CABLE CALLOUT
-086: TEMP-FLEX 1001935086 CABLE

END 1 CONNECTOR
(SEE TABLE 2, SHT 2)

OVERALL ASSEMBLY LENGTH (OAL)
XXXX (MILLIMETERS)
(0100 MIN)
(SEE NOTE 5)

END 2 CONNECTOR
(SEE TABLE 2, SHT 2)

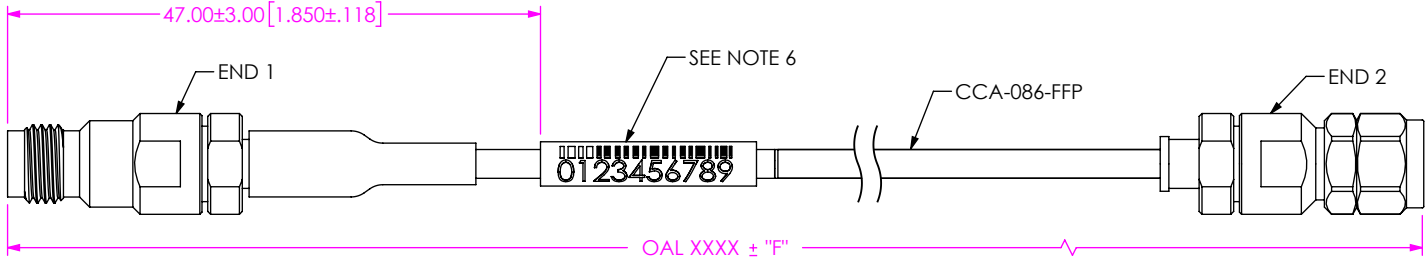


FIG 1
RF086-24SJ-18SP-XXXX SHOWN
(PROTECTIVE CAPS NOT SHOWN FOR CLARITY)

TABLE 1	
OVERALL LENGTH	"F"
0100-0300 [5.98-11.81]	+5.0 [.20] / -0.0 [.00]
0301-1500 [11.85-59.01]	+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]

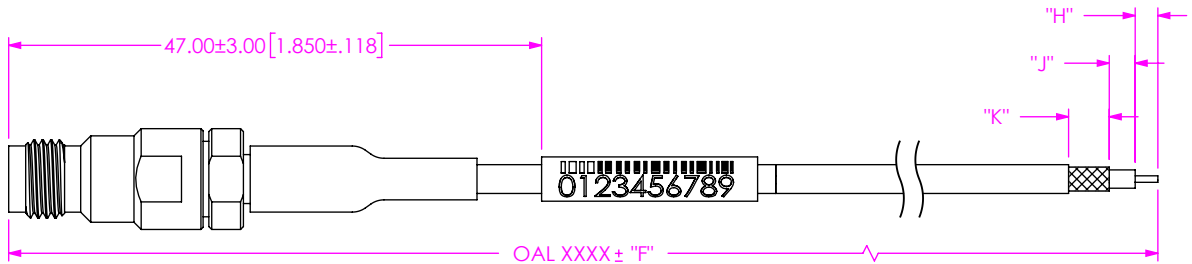


FIG 8
RF086-24SJ-102030-XXXX SHOWN (SEE NOTE 7 & 8)

"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 CAP ASSEMBLED ON EACH END AND TO BE INDIVIDUALLY PACKAGED IN ESD BAG.
- CABLE LENGTHS LONGER THAN 1000 MILLIMETERS ARE NOT SUPPORTED BY S.I. TEST DATA.
- 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.
- 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.

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MATERIAL: DO NOT SCALE DRAWING
CENTER CONTACTS: COPPER ALLOY SHEET SCALE: 1:5:1
OUT CONTACTS:
-MOSP/-MOSJ/-01SP/-01BJ/-01SB/-00SJ/-GC86: COPPER
ALLOY
-24SP/-24SJ/-18SP/-18SJ/-92SP/-92SJ/
-00BC/-00BF/-00BL/-00BS: STAINLESS STEEL
INSULATORS:
-MOSP/-MOSJ/-01SP/-01BJ/-01SB/-00SJ/-GC86: COPPER
ALLOY
-00BC/-00BF/-00BL/-00BS: VIRGIN PTFE FLUOROCARBON
-24SP/-24SJ/-18SP/-18SJ/-92SP/-92SJ/-GC86: ULTEM

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520 PARK EAST BLVD, NEW ALBANY, IN 47150
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e-Mail: info@SAMTEC.com code 55322

DESCRIPTION:
RF086 CABLE ASSEMBLY

DWG. NO.
RF086-XXXX-XXXX-XXXX

BY: SHERRY W 1/15/2019 SHEET 1 OF 10

REVISION Q

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 3, FIG 2
-24SJ	2.40 MM	JACK	50μ" GOLD	PASSIVATED	PASSIVATED	PRF24-J-C-EP-086-SS (4216)	SHT 3, FIG 3
-18SP	1.85 MM	PLUG	50μ" GOLD	PASSIVATED	PASSIVATED	PRF18-P-C-EP-086-SS-1	SHT 4, FIG 4
-18SJ	1.85 MM	JACK	50μ" GOLD	PASSIVATED	PASSIVATED	PRF18-J-C-EP-086-SS-1	SHT 4, FIG 5
-M0SP	SMPM	PLUG, FULL DETENT	30μ" GOLD	10μ" GOLD	3μ" GOLD	PRFM0-P-C-EE-086-SD (N/A)	SHT 5, FIG 6
-M0SJ	SMPM	JACK	30μ" GOLD	10μ" GOLD	3μ" GOLD	PRFM0-J-C-EE-086-SD (N/A)	SHT 5, FIG 7
-92SP	2.92 MM	PLUG	50μ" GOLD	PASSIVATED	PASSIVATED	PRF92-P-C-EP-086-SS-1-X (N/A)	SHT 6, FIG 9
-92SJ	2.92 MM	JACK	50μ" GOLD	PASSIVATED	PASSIVATED	PRF92-J-C-EP-086-SS-X (N/A)	SHT 6, FIG 10
-01SP	SMA	PLUG	50μ" GOLD	10μ" GOLD	10μ" GOLD	PRF01-P-C-EG-086-SD (N/A)	SHT 7, FIG 11
-01BJ	SMA	BULKHEAD JACK	50μ" GOLD	10μ" GOLD	10μ" GOLD	PRF01-J-C-EG-086-BD (N/A)	SHT 7, FIG 12
-01SB	SMA	SEALED BULKHEAD JACK	50μ" GOLD	10μ" GOLD	10μ" GOLD	PRF01-J-C-EG-086-BD-1 (N/A)	SHT 8, FIG 13
-00SJ	SMP	JACK	50μ" GOLD	50μ" GOLD	50μ" GOLD	PRF00-J-C-EE-086-SD	SHT 8, FIG 14
-00MJ	SMP	R/A JACK	50μ" GOLD	50μ" GOLD	50μ" GOLD	PRF00-J-C-EE-086-RD	SHT 9, FIG 15
*-00BC	SMP	BULKHEAD PLUG	50μ" GOLD	10μ" GOLD	10μ" GOLD	PRF00-PC-C-EG-086-BD (N/A)	SHT 10, FIG 17
*-00BF	SMP	BULKHEAD PLUG	50μ" GOLD	10μ" GOLD	10μ" GOLD	PRF00-PF-C-EG-086-BD (N/A)	
*-00BL	SMP	BULKHEAD PLUG	50μ" GOLD	10μ" GOLD	10μ" GOLD	PRF00-PL-C-EG-086-BD (N/A)	
*-00BS	SMP	BULKHEAD PLUG	50μ" GOLD	10μ" GOLD	10μ" GOLD	PRF00-PS-C-EG-086-BD (N/A)	
*-GC86	SMPM	JACK	50μ" GOLD	50μ" GOLD	10μ" GOLD	PRFM0-J-C-EE-086-SD-1	SHT9, FIG 16
**SING	SINGLE ENDED	-	-	-	-	-	SHT 1, FIG 8
**XXXXXX	STRIPPED & TINNED	-	-	-	-	-	

** = END 2 OPTION ONLY

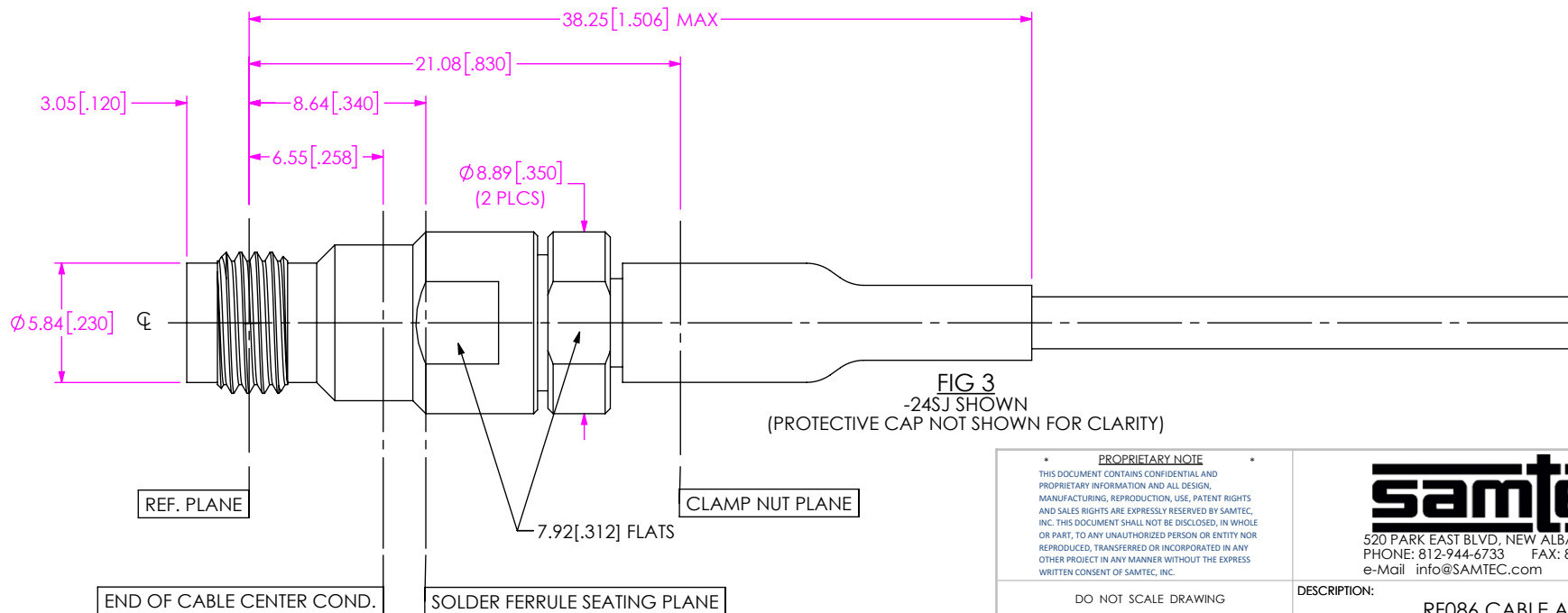
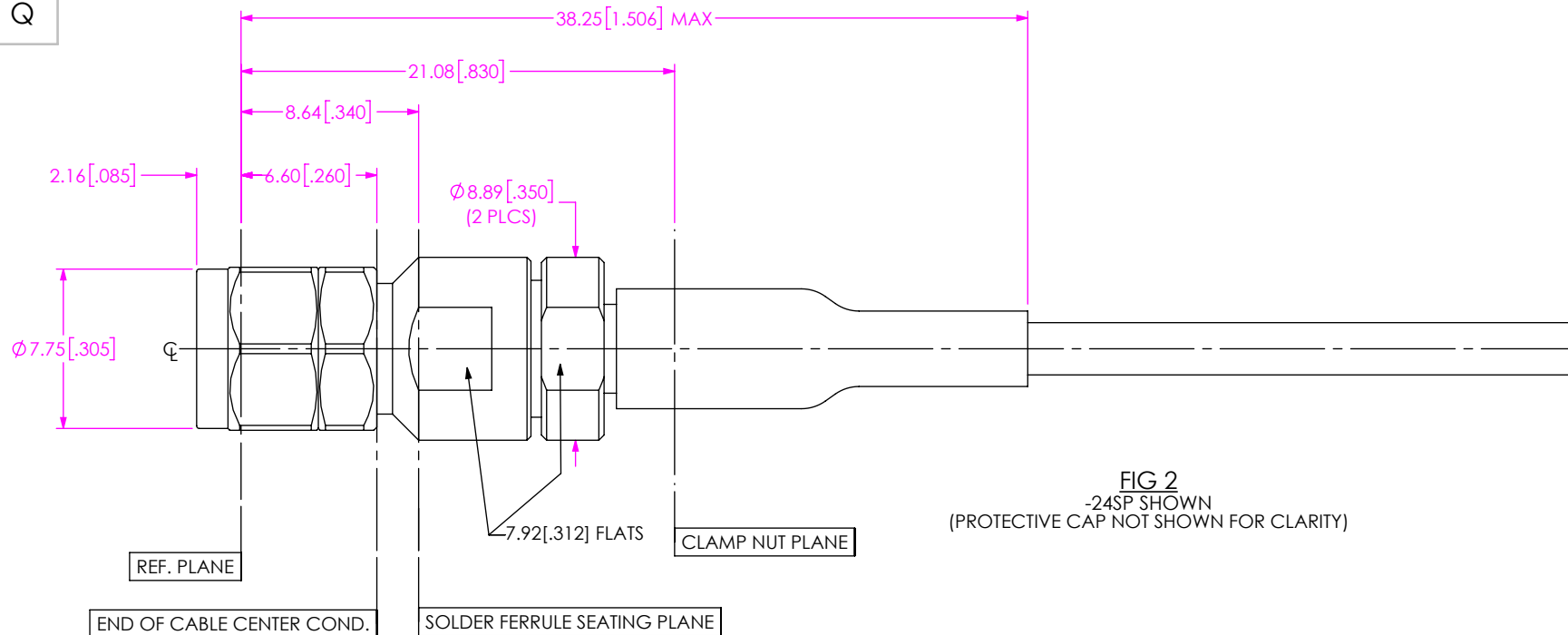
* = NOT RELEASED

TABLE 3					
END OPTION	MAXIMUM RETURN LOSS (PER END)	MAXIMUM VSWR (PER END)	MAXIMUM INSERTION LOSS (L) (PER END)	FREQUENCY	PROTECTIVE CAP COLOR
-24SP	21.53	1.183	.03+ .03*SQRT(Freq(GHz))	DC TO 50 GHz	GREEN
-24SJ	21.53	1.183	.03+ .03*SQRT(Freq(GHz))	DC TO 50 GHz	GREEN
-18SP	21.53	1.183	.03+ .03*SQRT(Freq(GHz))	DC TO 67 GHz	BLUE
	21.53	1.183	.03+ .03*SQRT(Freq(GHz))	DC TO 50 GHz	BLUE
-18SJ	19.90	1.225	.03+ .03*SQRT(Freq(GHz))	50 GHz TO 67 GHz	BLUE
	21.53	1.183	.03+ .05*SQRT(Freq(GHz))	DC TO 50 GHz	GRAY
-MOSP	15.31	1.414	.03+ .05*SQRT(Freq(GHz))	50 GHz TO 67 GHz	GRAY
-MOSJ	21.53	1.183	.03+ .05*SQRT(Freq(GHz))	DC TO 50 GHz	GRAY
	15.31	1.414	.03+ .05*SQRT(Freq(GHz))	50 GHz TO 67 GHz	GRAY
-92SP	21.53	1.183	.03+ .03*SQRT(Freq(GHz))	DC TO 40 GHz	YELLOW
-92SJ	21.53	1.183	.03+ .03*SQRT(Freq(GHz))	DC TO 40 GHz	YELLOW
-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
-00SJ	26.87	1.095	.03+ .03*SQRT(Freq(GHz))	DC TO 26.5 GHz	WHITE
	19.90	1.225	.03+ .03*SQRT(Freq(GHz))	26.5 GHz TO 40 GHz	WHITE
-00MJ	26.87	1.095	.03+ .03*SQRT(Freq(GHz))	DC-26.5 GHz	WHITE
*-00BC	26.87	1.095	.03+ .03*SQRT(Freq(GHz))	DC TO 26.5 GHz	GRAY
	19.90	1.225	.03+ .03*SQRT(Freq(GHz))	26.5 GHz TO 40 GHz	GRAY
*-00BF	26.87	1.095	.03+ .03*SQRT(Freq(GHz))	DC TO 26.5 GHz	GRAY
	19.90	1.225	.03+ .03*SQRT(Freq(GHz))	26.5 GHz TO 40 GHz	GRAY
*-00BL	26.87	1.095	.03+ .03*SQRT(Freq(GHz))	DC TO 26.5 GHz	GRAY
	19.90	1.225	.03+ .03*SQRT(Freq(GHz))	26.5 GHz TO 40 GHz	GRAY
*-00BS	26.87	1.095	.03+ .03*SQRT(Freq(GHz))	DC TO 26.5 GHz	GRAY
	19.90	1.225	.03+ .03*SQRT(Freq(GHz))	26.5 GHz TO 40 GHz	GRAY
-GC86	21.53	1.183	.03+ .05*SQRT(Freq(GHz))	DC TO 50 GHz	N/A
	15.31	1.414	.03+ .05*SQRT(Freq(GHz))	50 GHz TO 67 GHz	N/A

$$= \{20.65 \cdot \sqrt{\text{Freq}[\text{GHz}]} + 0.98 \cdot \text{Freq}[\text{GHz}] \cdot \text{OAL}[\text{mm}] / 30480 + \text{End Option IL\#1}(\text{See Table 3}) + \text{End Option IL\#2}(\text{See Table 3})$$

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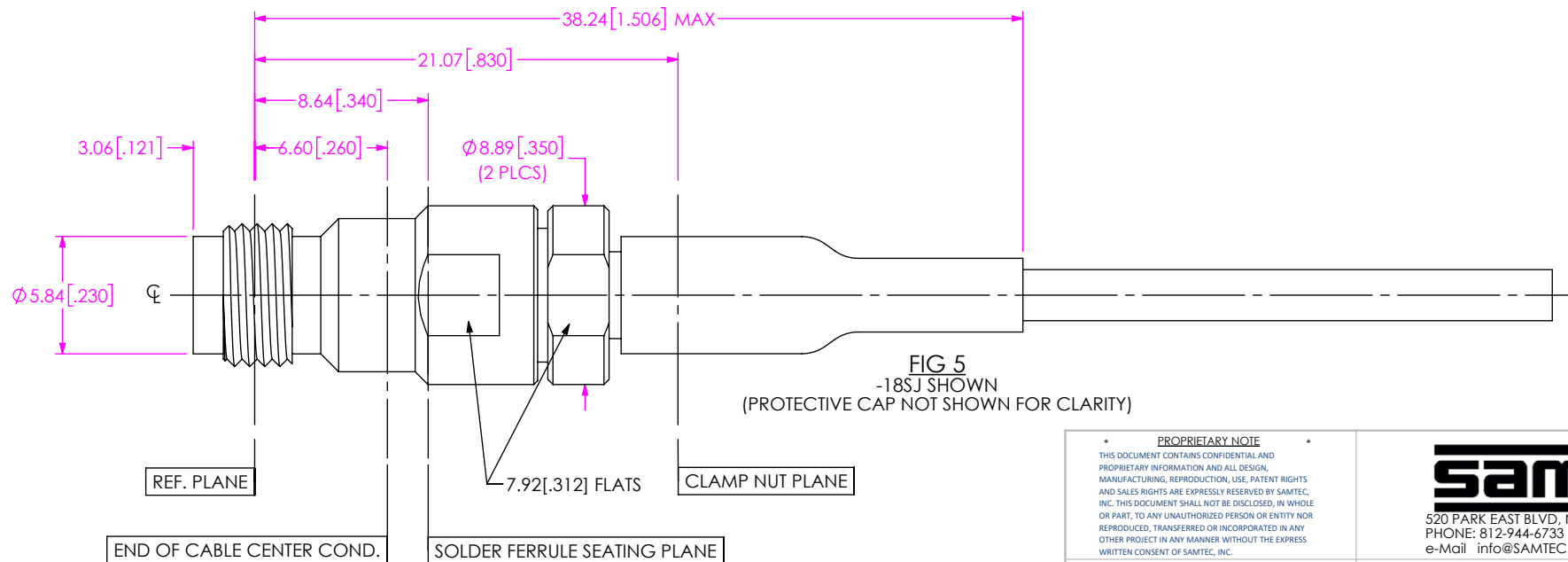
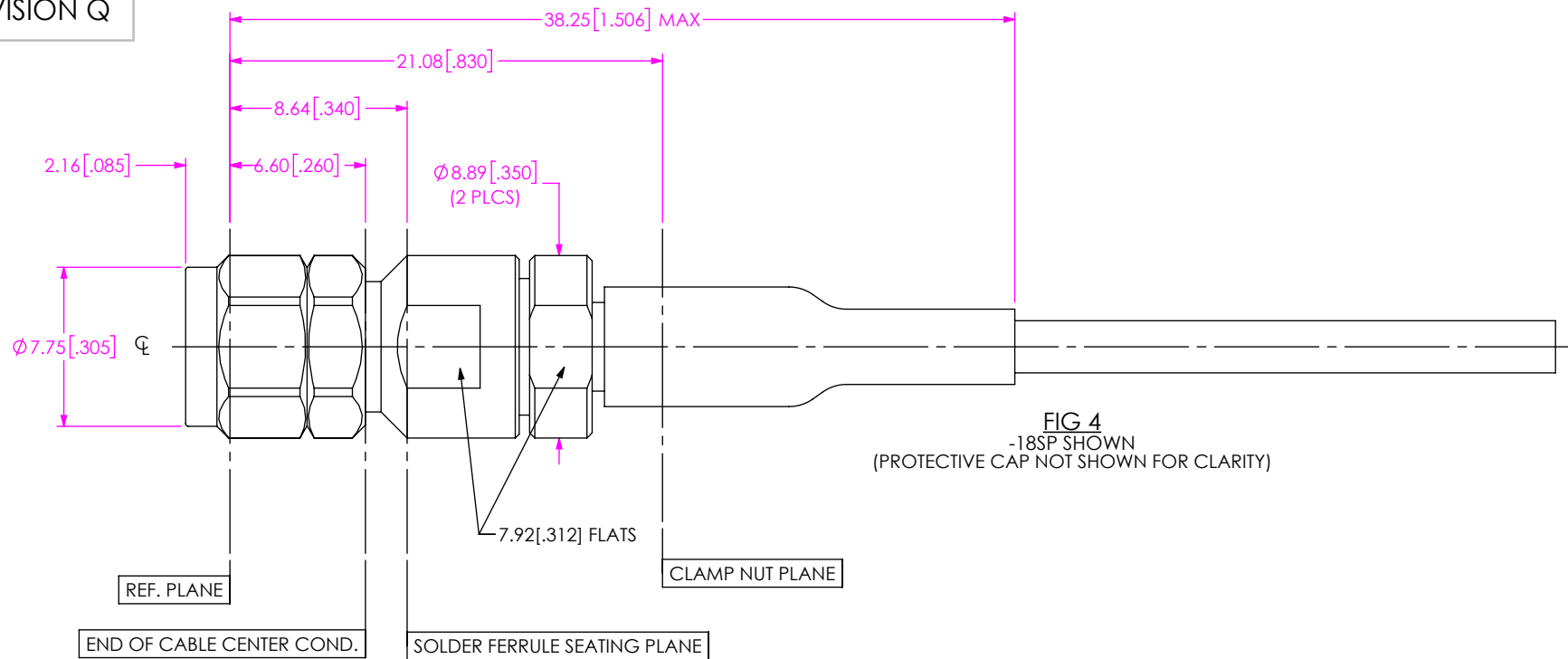
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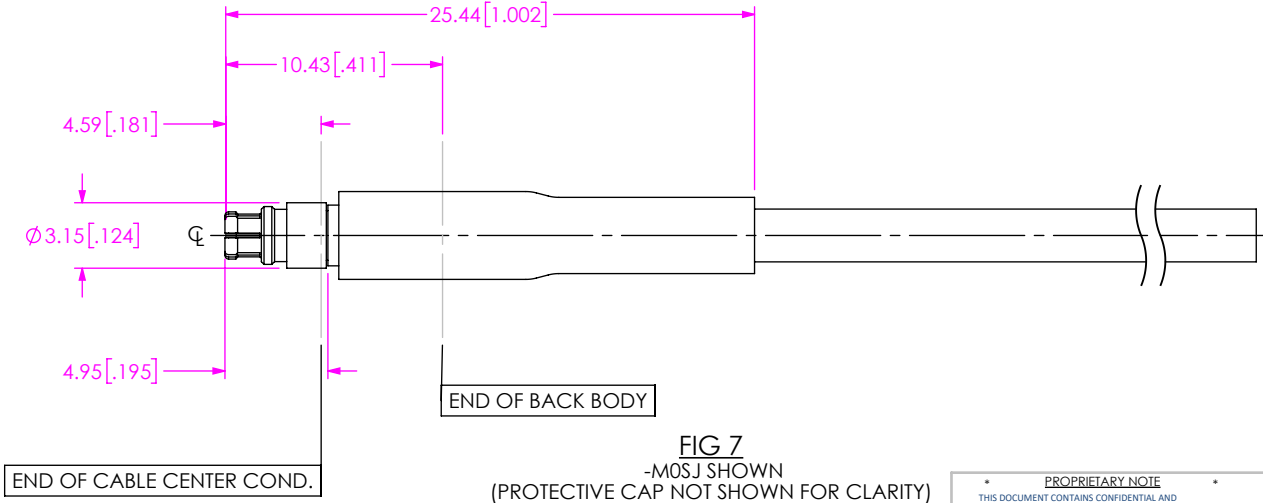
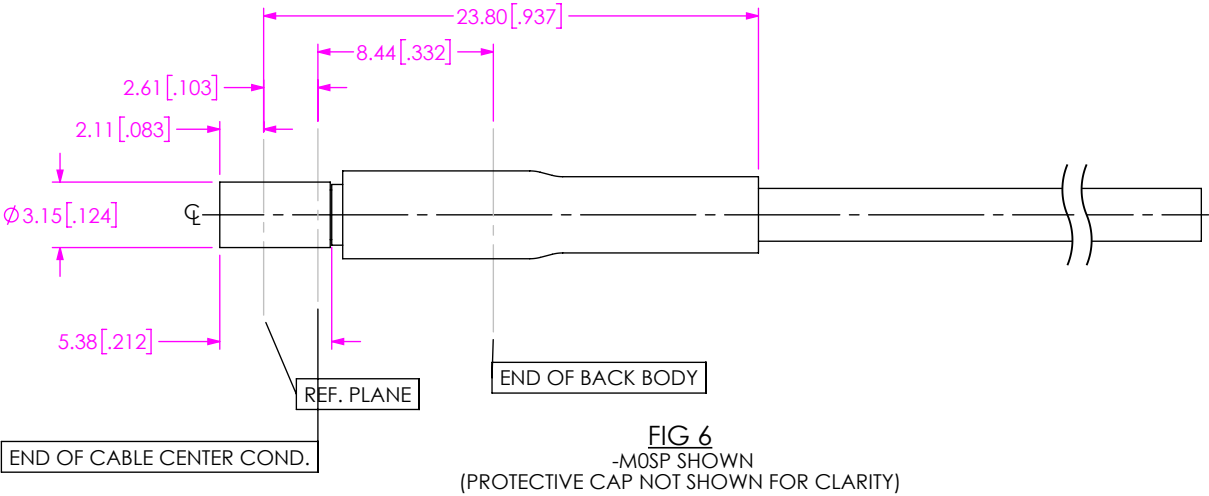
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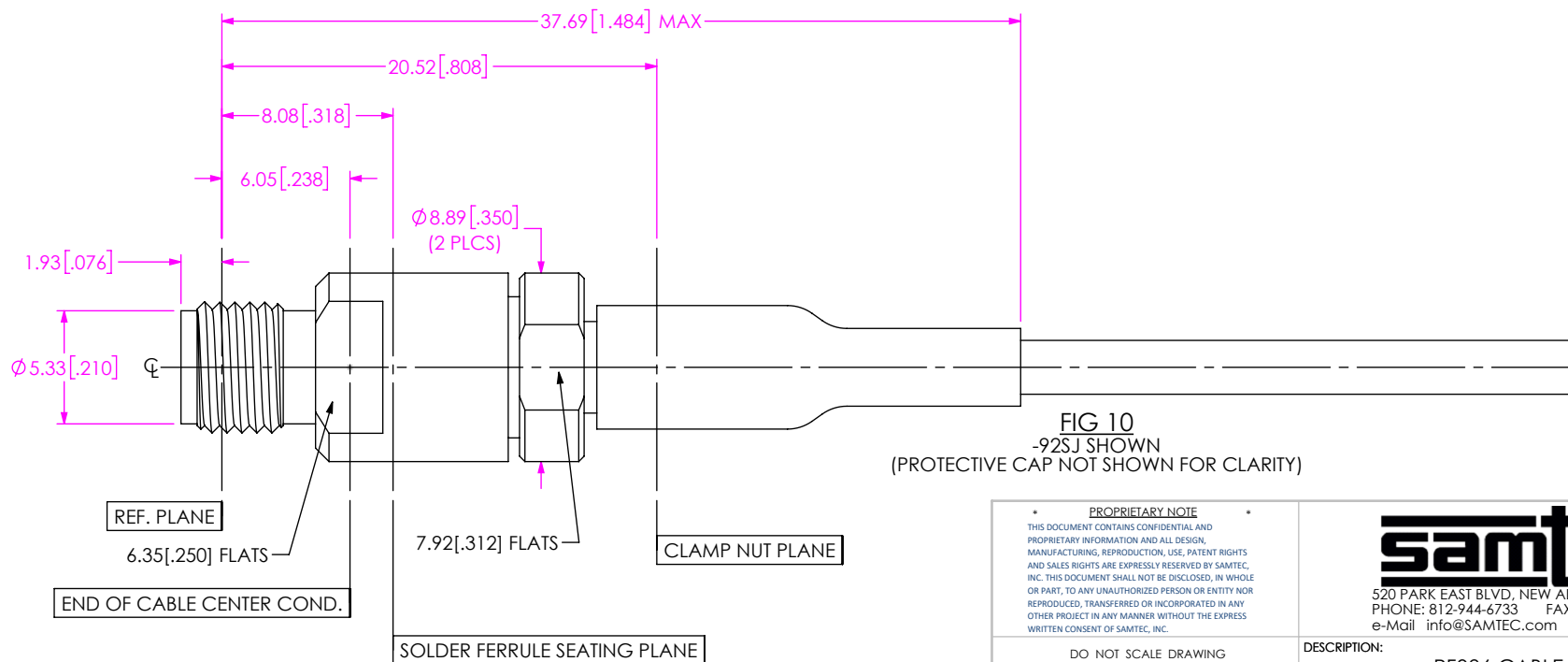
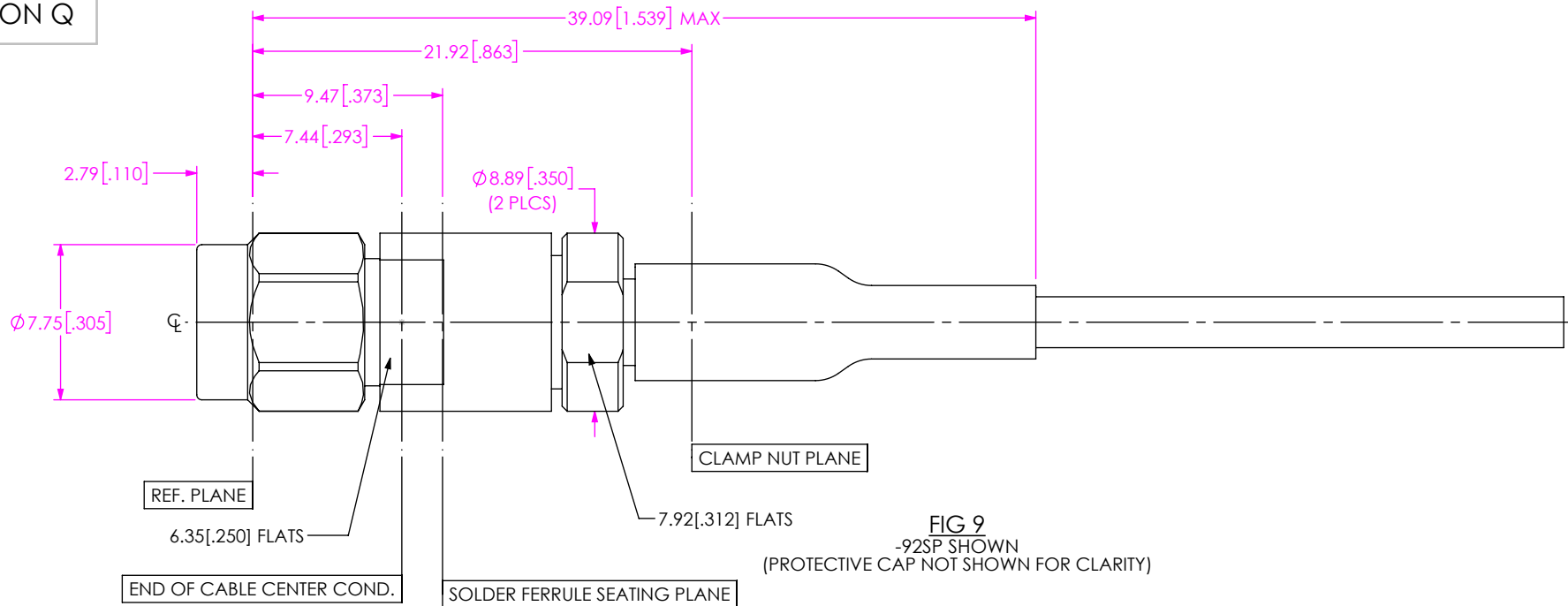
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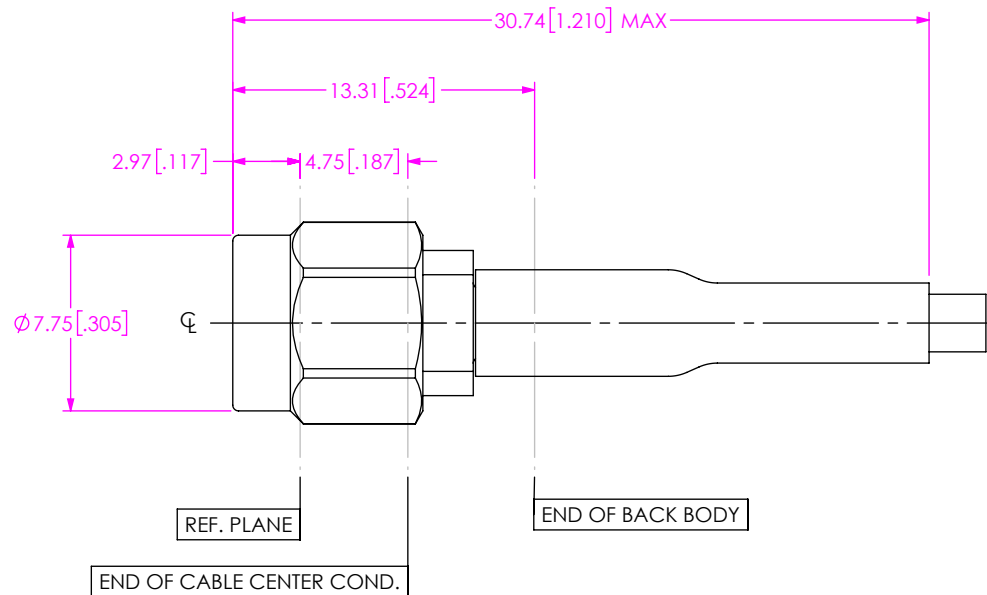


FIG 11
-01SP SHOWN
(PROTECTIVE CAP NOT SHOWN FOR CLARITY)

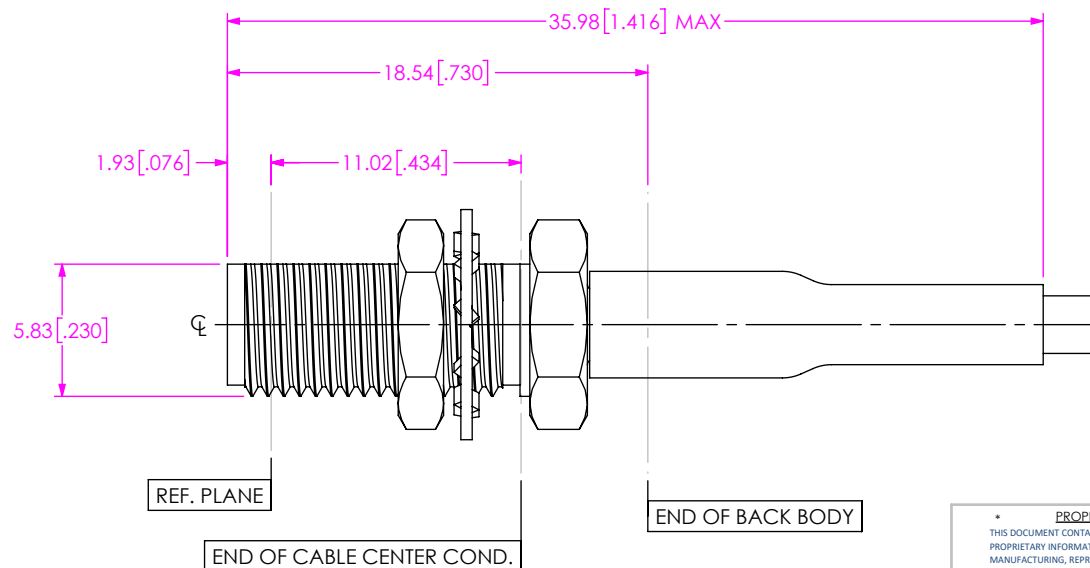
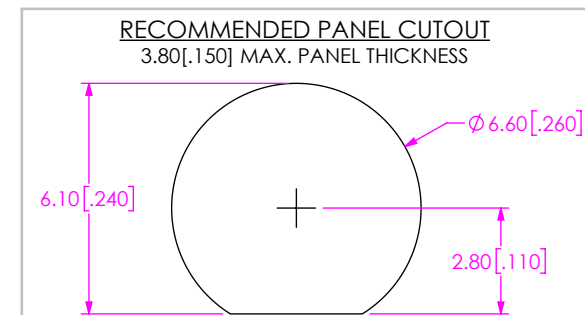


FIG 12
-01BJ SHOWN
(PROTECTIVE CAP NOT SHOWN FOR CLARITY)



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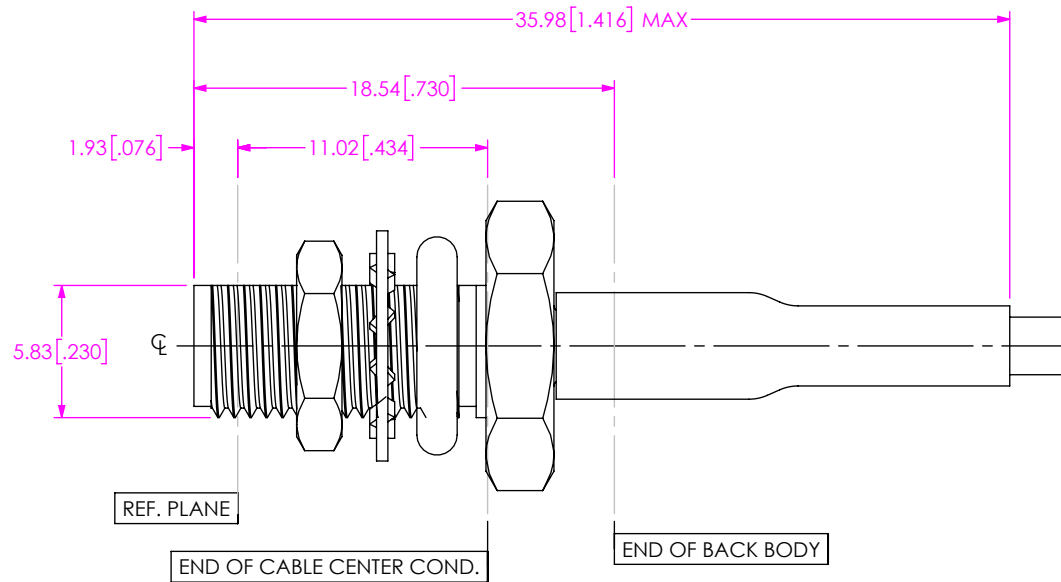


FIG 13
-01SB SHOWN
(PROTECTIVE CAP NOT SHOWN FOR CLARITY)

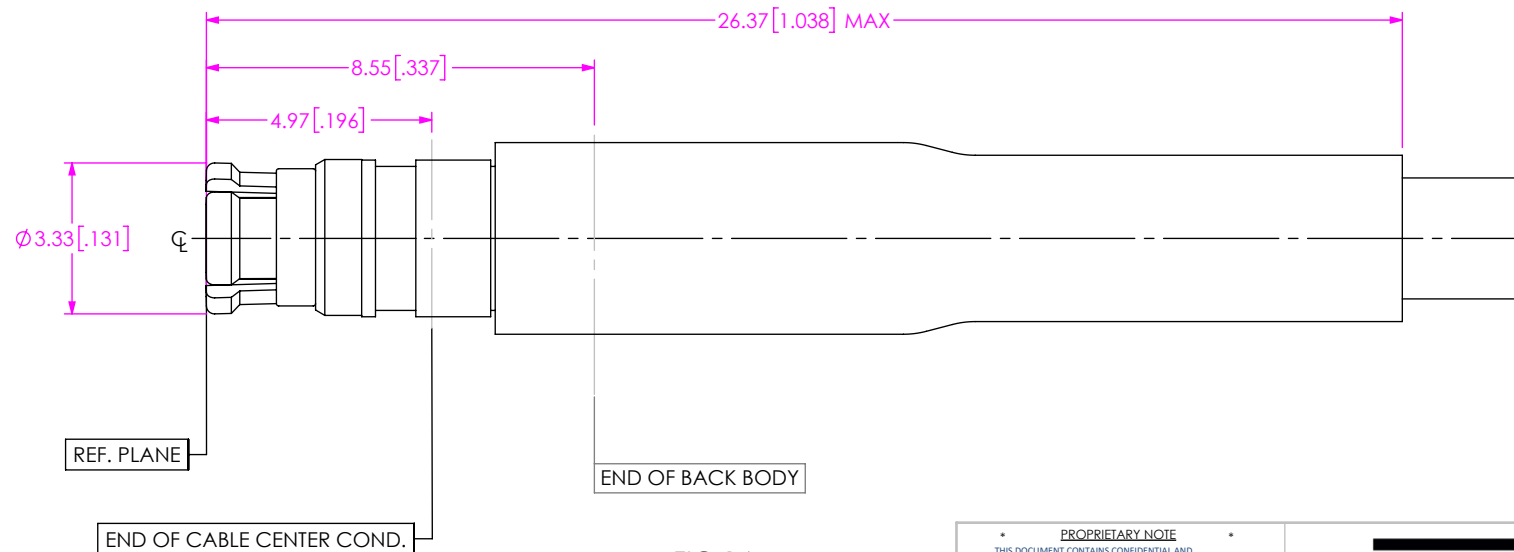
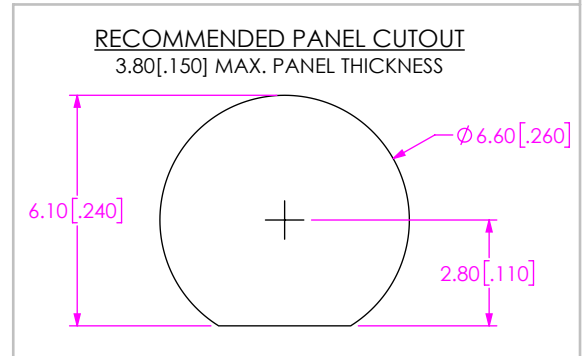


FIG 14
-00SJ SHOWN
(PROTECTIVE CAP NOT SHOWN FOR CLARITY)

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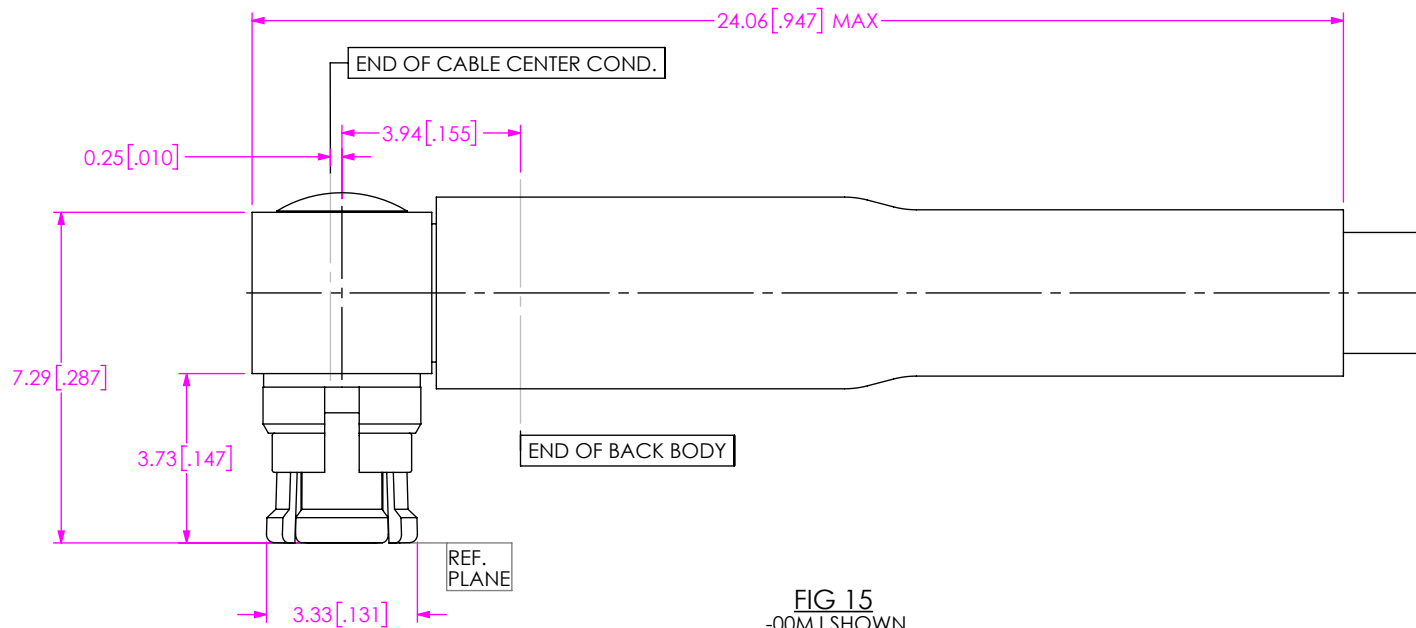


FIG 15
-00MJ SHOWN
(PROTECTIVE CAP NOT SHOWN FOR CLARITY)

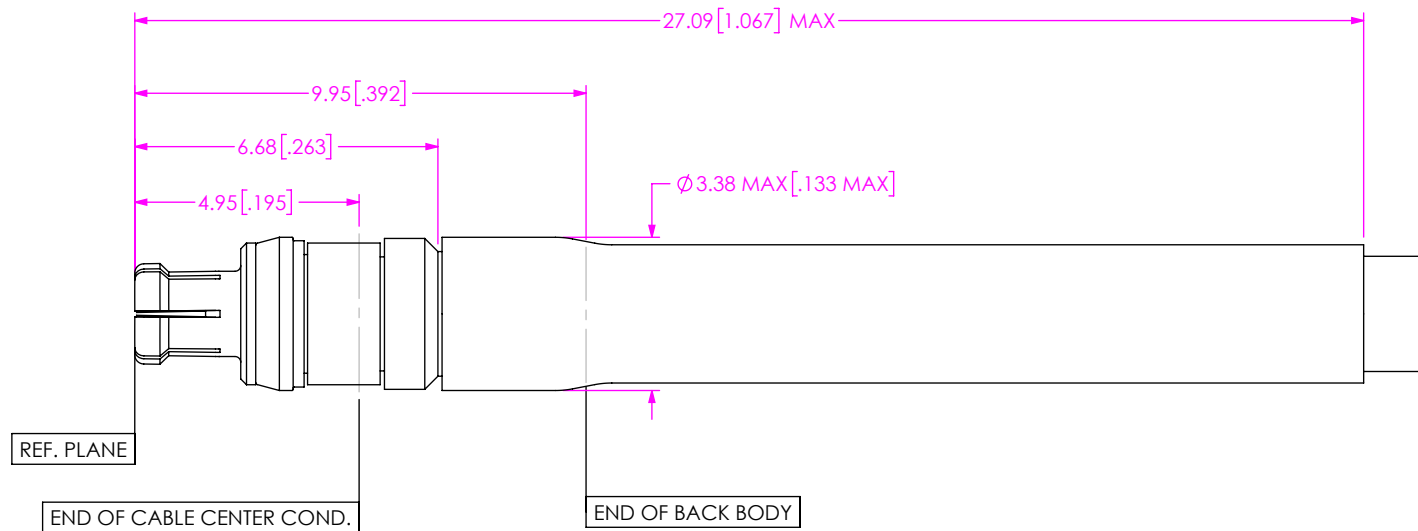


FIG 16
-GC86 SHOWN
(COMPATIBLE WITH GC86 GANGED ASSEMBLY)

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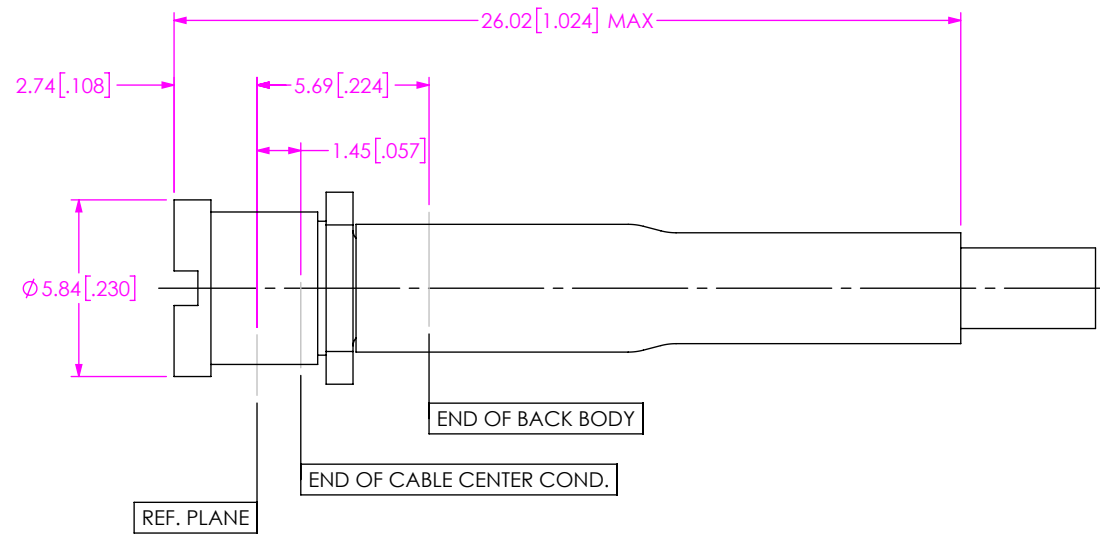


FIG 17
-00BF SHOWN
(PROTECTIVE CAP NOT SHOWN FOR CLARITY)

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