

DO NOT SCALE FROM THIS PRINT

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

RF047-A-XXXX-XXXXXX-XXXX

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

END 1 CONNECTOR  
(SEE TABLE 2, SHT 2)

OVERALL ASSEMBLY LENGTH (OAL)  
XXXX (MILLIMETERS)  
(0100 MIN)

END 2 CONNECTOR  
(SEE TABLE 2, SHT 2)

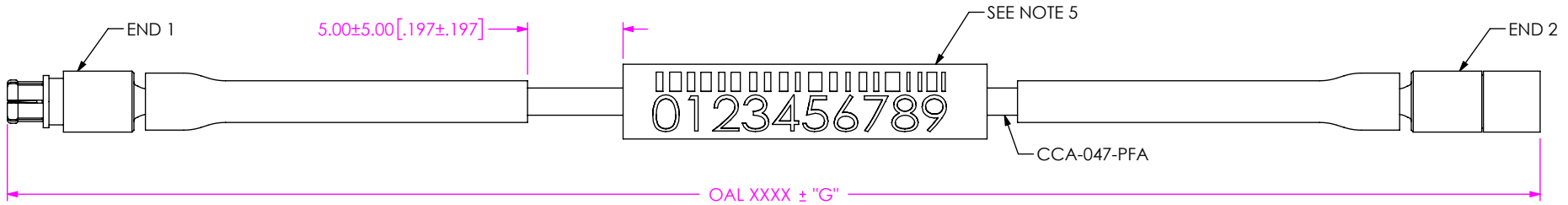


FIG 1  
RF047-A-M0SJ-M0SP-XXXX SHOWN  
(PROTECTIVE CAPS NOT SHOWN FOR CLARITY)

TABLE 1	
OVERALL LENGTH	"G"
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]

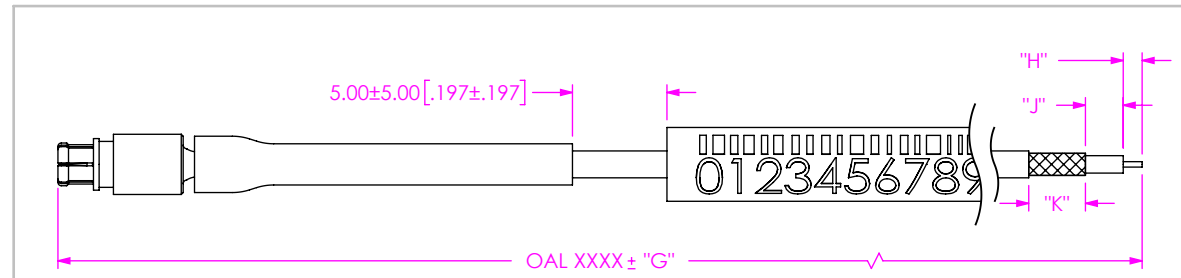


FIG 8  
RF047-A-M0SJ-102030-XXXX SHOWN (SEE NOTE 7 & 8)

"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.

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MATERIAL: DO NOT SCALE DRAWING  
CENTER CONTACTS: COPPER ALLOY SHEET SCALE: 3:1  
OUT CONTACTS:  
-M0SP/-M0SJ/M0RJ/-M0BJ/-01SP/-01BJ/-01SB/-00SJ/-00MJ  
-92SP/-92SJ/-18SP/-18SJ/-24SP/-24SJ  
-13BJ/-13SP- STAINLESS STEEL  
INSULATORS:  
-M0SP/-M0SJ/M0RJ/-M0BJ/-01SP/-01BJ/-01SB/-00SJ/-00MJ: VIRGIN PTFE FLUOROCARBON  
-92SP/-92SJ/-18SP/-18SJ/-24SP/-24SJ: ULTEM  
-13BJ/-13SP- PCTFE  
-13BJ: VIRGIN PTFE -00SJ/-00MJ: PEEK

DESCRIPTION: RF047-A CABLE ASSEMBLY  
DWG. NO. RF047-A-XXXX-XXXXXX-XXXX  
BY: SHERRY W 2/5/2018 SHEET 1 OF 12

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	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
**SING	SINGLE ENDED	-	-	-	-	-	-
**XXXXXX	STRIPPED & TINNED	-	-	-	-	-	SHT 1, FIG 8
**	END 2 OPTION ONLY	-	-	-	-	-	-

\*\* = NOT RELEASED

TABLE 3

END OPTION	MAXIMUM VSWR	MAXIMUM RETURN LOSS	MAXIMUM INSERTION LOSS (IL)	FREQUENCY	PROTECTIVE CAP COLOR
-M0SP	1.40:1	-15.56 dB	0.28	DC TO 40 GHz	GRAY
-M0SJ	1.40:1	-15.56 dB	0.28	DC TO 40 GHz	GRAY
-92SP	1.35:1	-18.45 dB	0.28	DC TO 40 GHz	YELLOW
-92SJ	1.35:1	-18.45 dB	0.28	DC TO 40 GHz	YELLOW
-18SP	1.40:1	-15.56 dB	0.37	DC TO 87 GHz	BLUE
-18SJ	1.40:1	-15.56 dB	0.37	DC TO 87 GHz	BLUE
-24SP	1.35:1	-18.45 dB	0.32	DC TO 50 GHz	GREEN
-24SJ	1.35:1	-18.45 dB	0.32	DC TO 50 GHz	GREEN
-M0RJ	1.40:1	-15.56 dB	0.20	DC TO 20 GHz	N/A
-M0BJ	1.40:1	-15.56 dB	0.28	DC TO 40 GHz	N/A
-13SP	1.40:1	-15.56 dB	0.39	DC TO 90 GHz	GRAY
-13BJ	1.40:1	-15.56 dB	0.39	DC TO 90 GHz	GRAY
-GC47	1.40:1	-15.56 dB	0.28	DC TO 40 GHz	N/A
-10SP	1.40:1	-15.56 dB	0.4	DC TO 90 GHz	WHITE
	1.50:1	-13.97 dB		90 GHz TO 110 GHz	
-10BJ	1.40:1	-15.56 dB	0.4	DC TO 90 GHz	WHITE
	1.50:1	-13.97 dB		90 GHz TO 110 GHz	
-01SP	1.30:1	-17.7 dB	0.23	DC TO 26.5 GHz	BROWN
-01BJ	1.30:1	-17.7 dB	0.23	DC TO 26.5 GHz	BROWN
*-01SB	1.30:1	-17.7 dB	0.23	DC TO 26.5 GHz	BROWN
*-00SJ	1.20:1	20.83 dB	0.5	DC TO 26.5 GHz	WHITE
	1.50:1	14.0 dB		26.5 GHz TO 40 GHz	
*-00MJ	1.20:1	20.83 dB	0.5	DC TO 26.5 GHz	WHITE

IL Max [dB] for cable assembly:  
 =  $(35.06 \cdot \sqrt{\text{Freq[GHz]}} + 1.835 \cdot \text{Freq[GHz]}) \cdot \text{OAL[mm]} / 30480 + \text{End Option IL\#1[See Table 3]} + \text{End Option IL\#2[See Table 3]}$   
 \* = NOT RELEASED

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DO NOT SCALE DRAWING  SHEET SCALE: 4:1	DESCRIPTION: RF047-A CABLE ASSEMBLY  DWG. NO. <b>RF047-A-XXXX-XXXXXX-XXXX</b>  BY: SHERRY W 2/5/2018 SHEET 2 OF 12

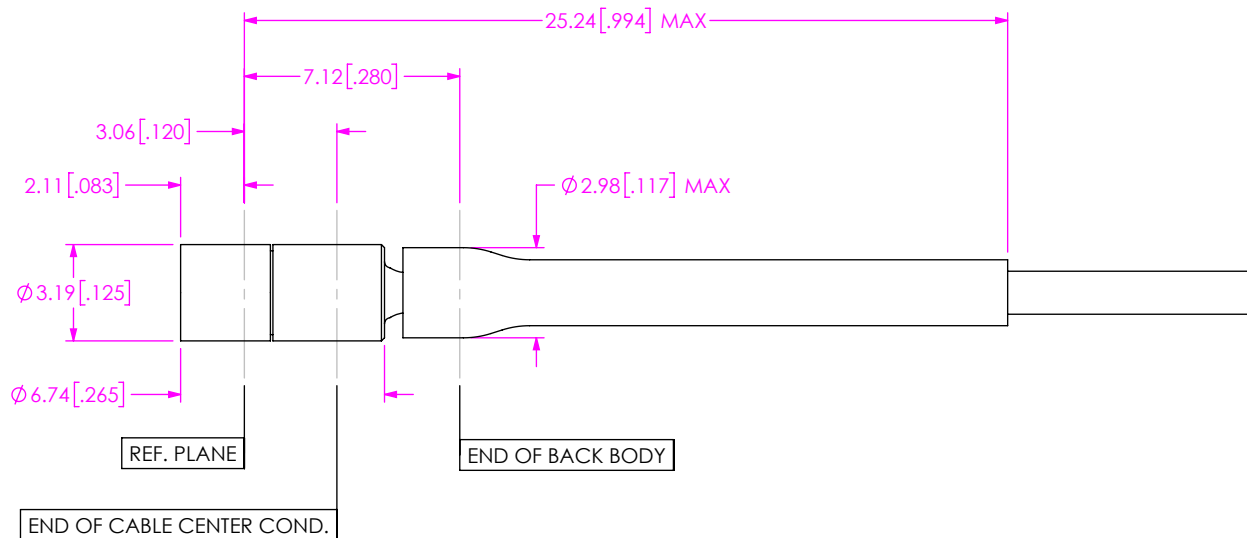


FIG 2  
 -MOSP SHOWN  
 (PROTECTIVE CAP NOT SHOWN FOR CLARITY)

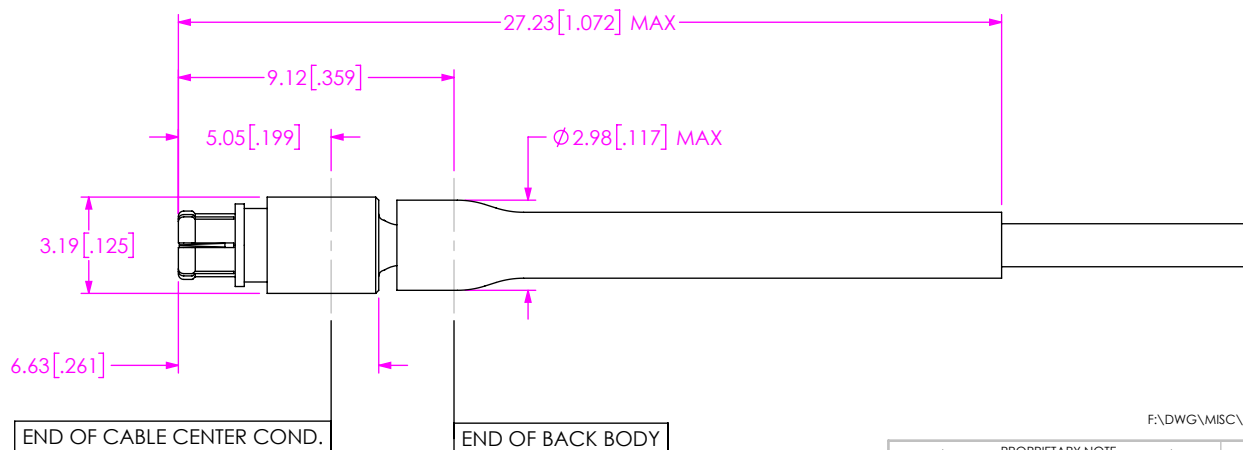


FIG 3  
 -MOSJ SHOWN  
 (PROTECTIVE CAP NOT SHOWN FOR CLARITY)

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	<p>DESCRIPTION:</p> <p>RF047-A CABLE ASSEMBLY</p>	<p>DWG. NO.</p> <p>RF047-A-XXXX-XXXXXX-XXXX</p>
<p>BY: SHERRY W 2/5/2018 SHEET 3 OF 12</p>		

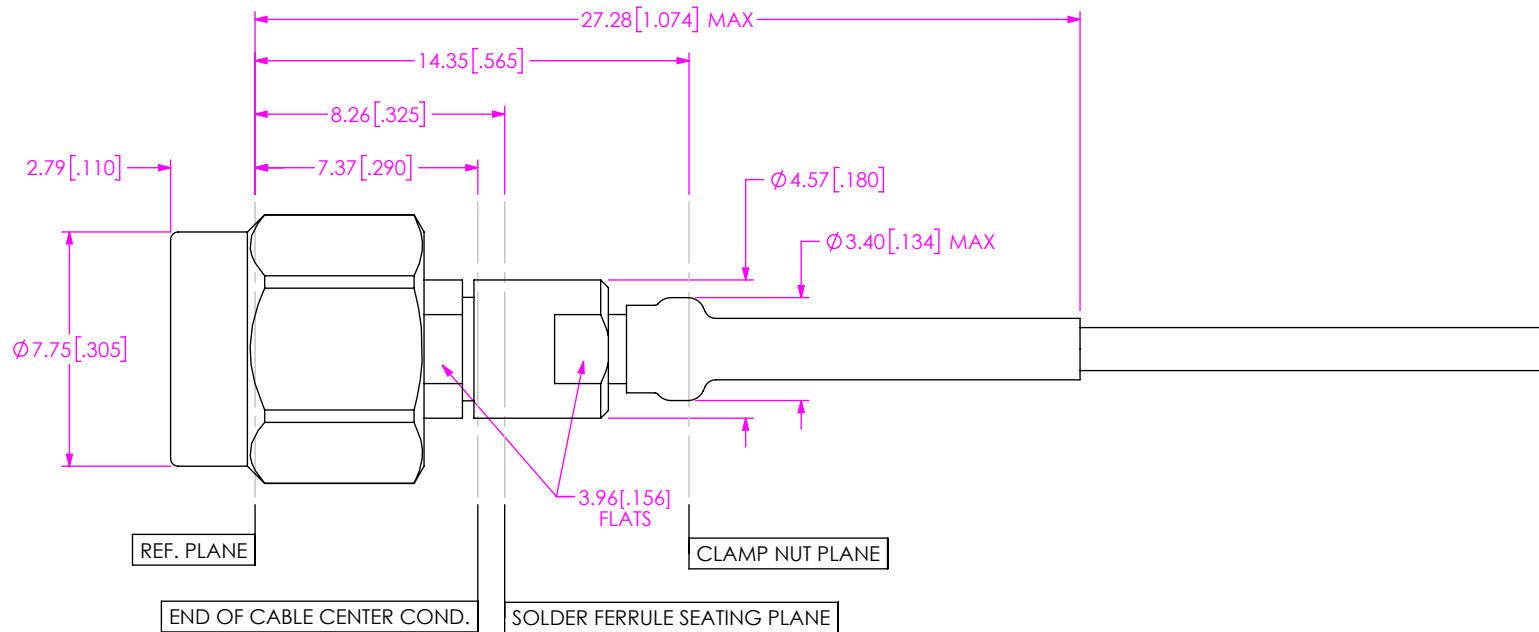


FIG 4  
-92SP SHOWN  
(PROTECTIVE CAP NOT SHOWN FOR CLARITY)

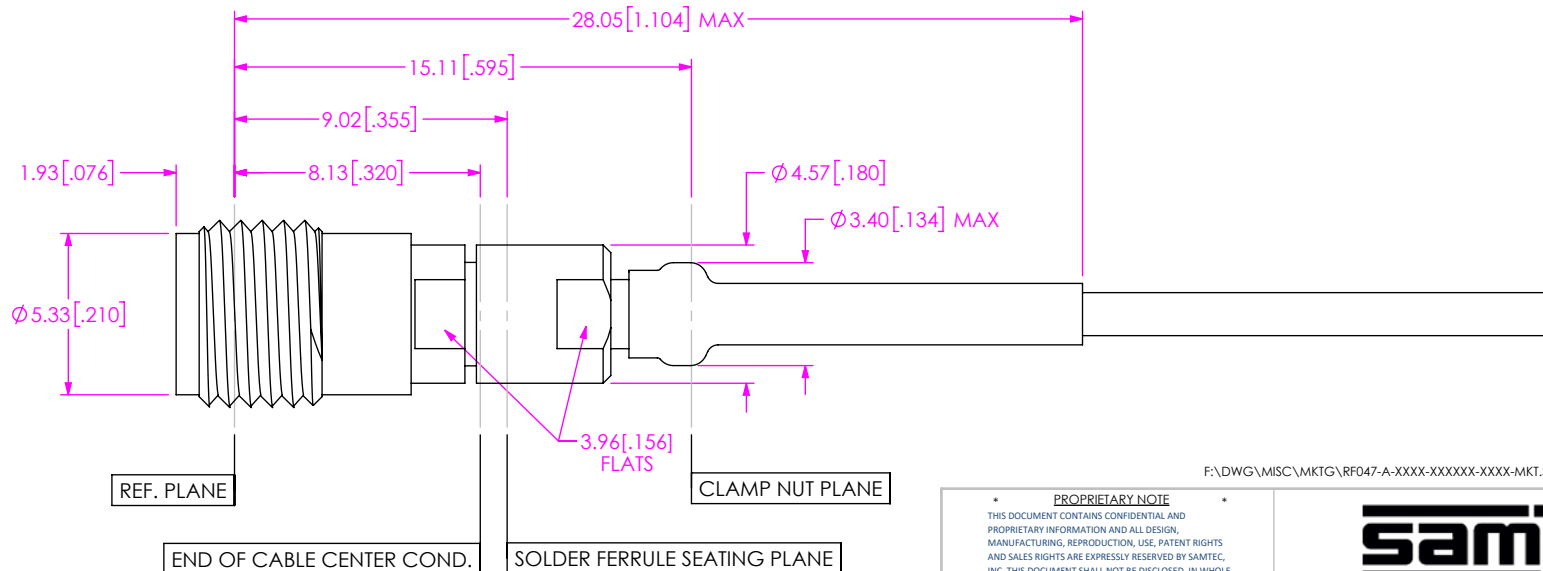


FIG 5  
-92SJ SHOWN  
(PROTECTIVE CAP NOT SHOWN FOR CLARITY)

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	<p>DESCRIPTION: RF047-A CABLE ASSEMBLY</p>	
	<p>DWG. NO. RF047-A-XXXX-XXXXXX-XXXX</p>	
<p>BY: SHERRY W 2/5/2018 SHEET 4 OF 12</p>		

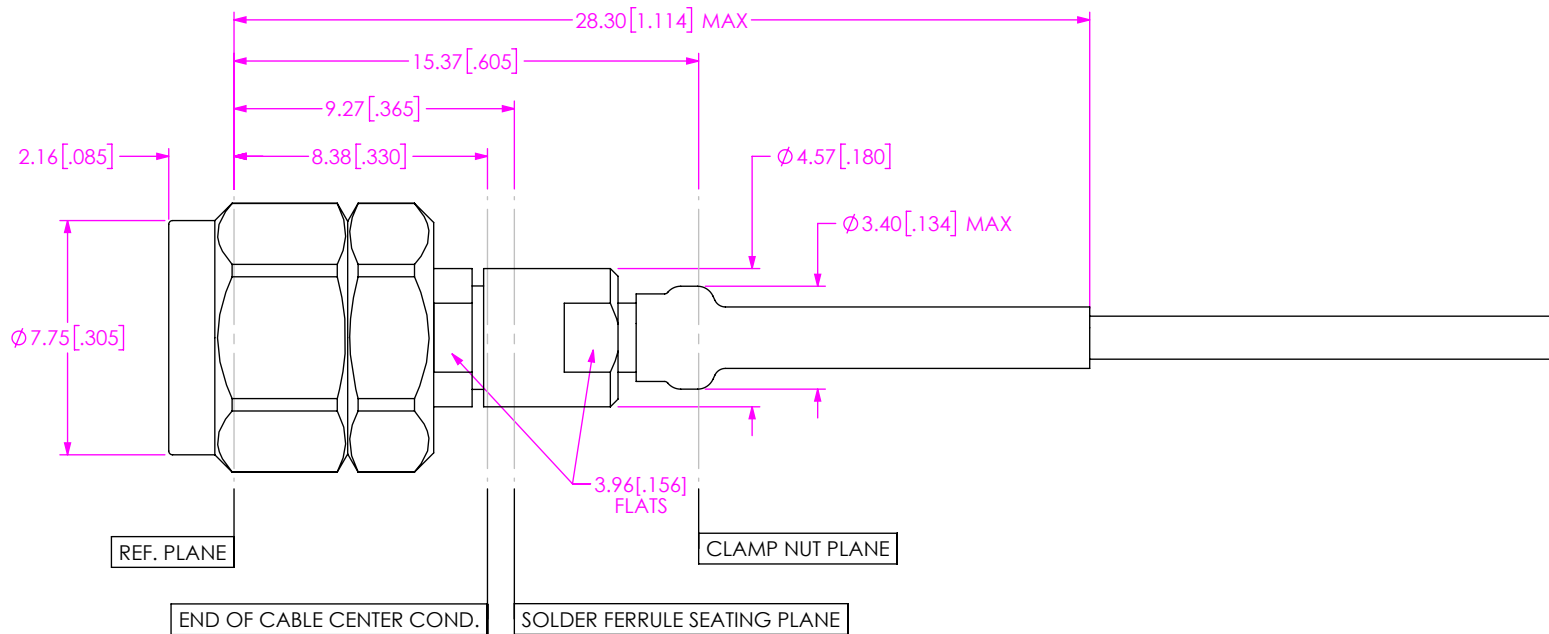


FIG 6  
-18SP SHOWN  
(PROTECTIVE CAP NOT SHOWN FOR CLARITY)

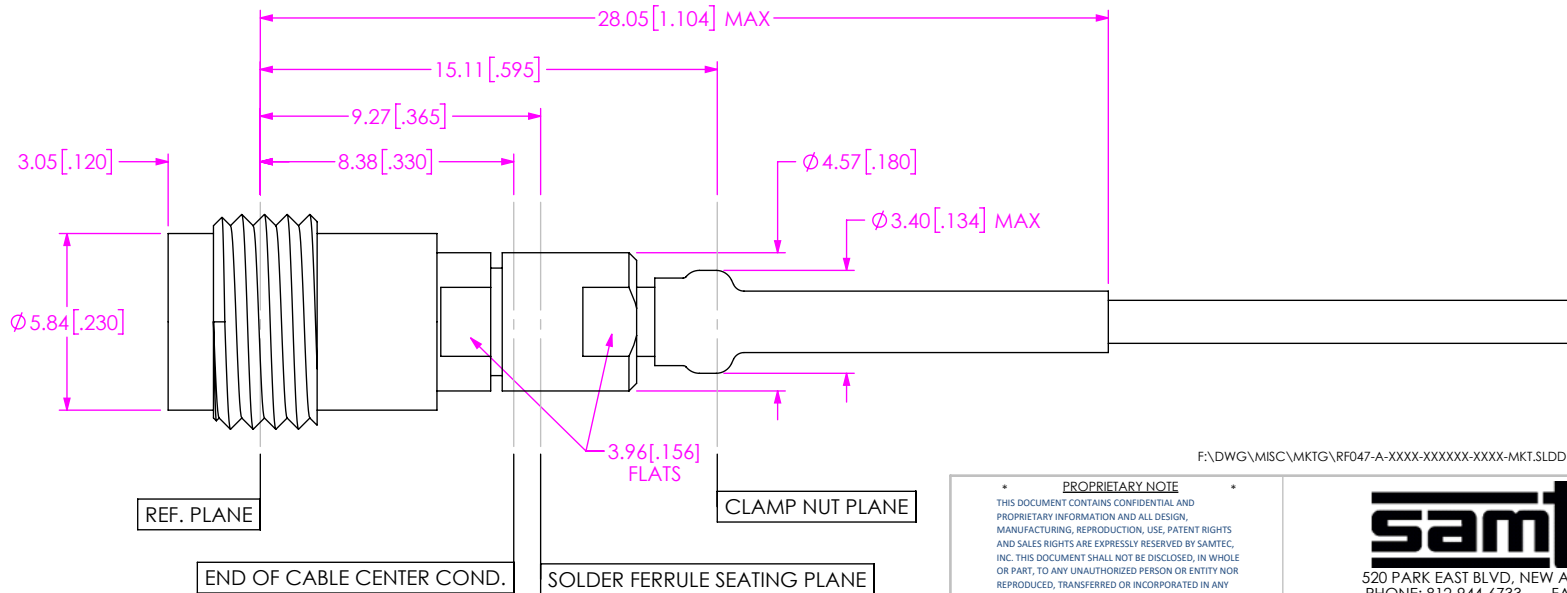


FIG 7  
-18SJ SHOWN  
(PROTECTIVE CAP NOT SHOWN FOR CLARITY)

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DESCRIPTION: RF047-A CABLE ASSEMBLY

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

BY: SHERRY W 2/5/2018 SHEET 5 OF 12

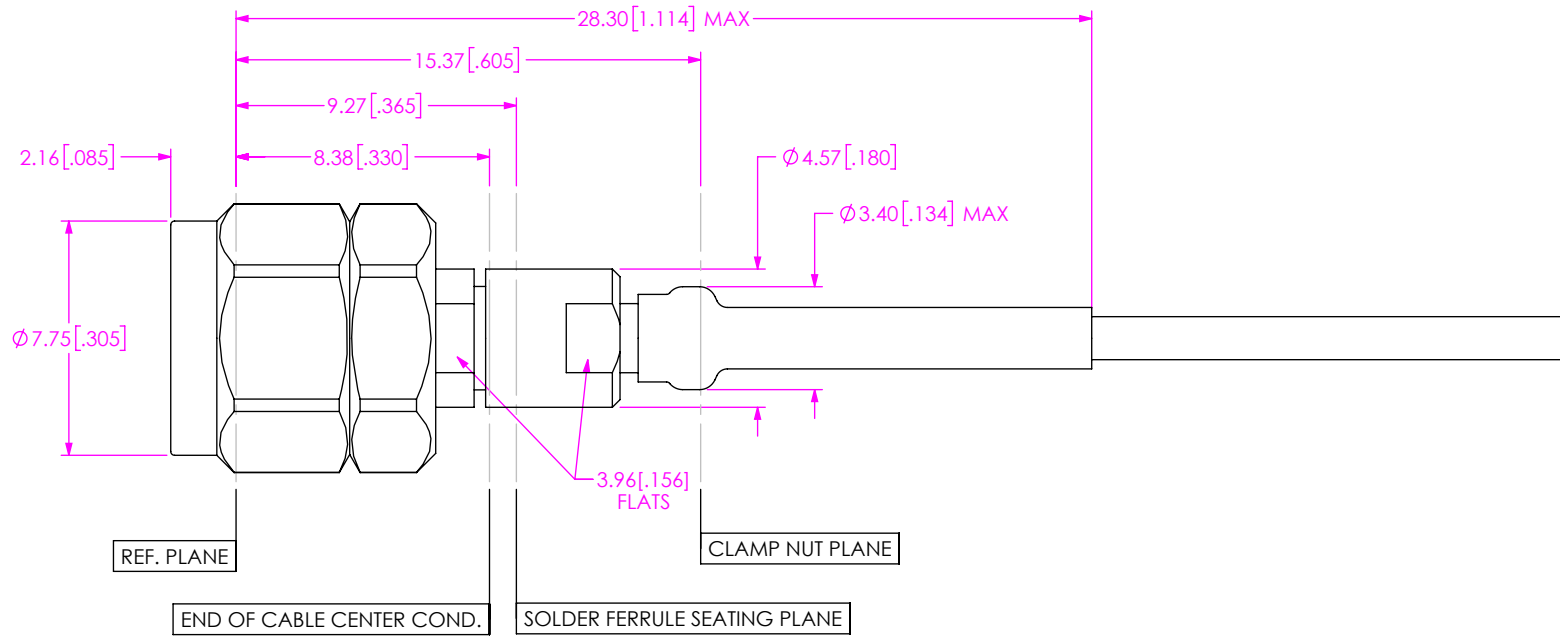


FIG 9  
-24SP SHOWN  
(PROTECTIVE CAP NOT SHOWN FOR CLARITY)

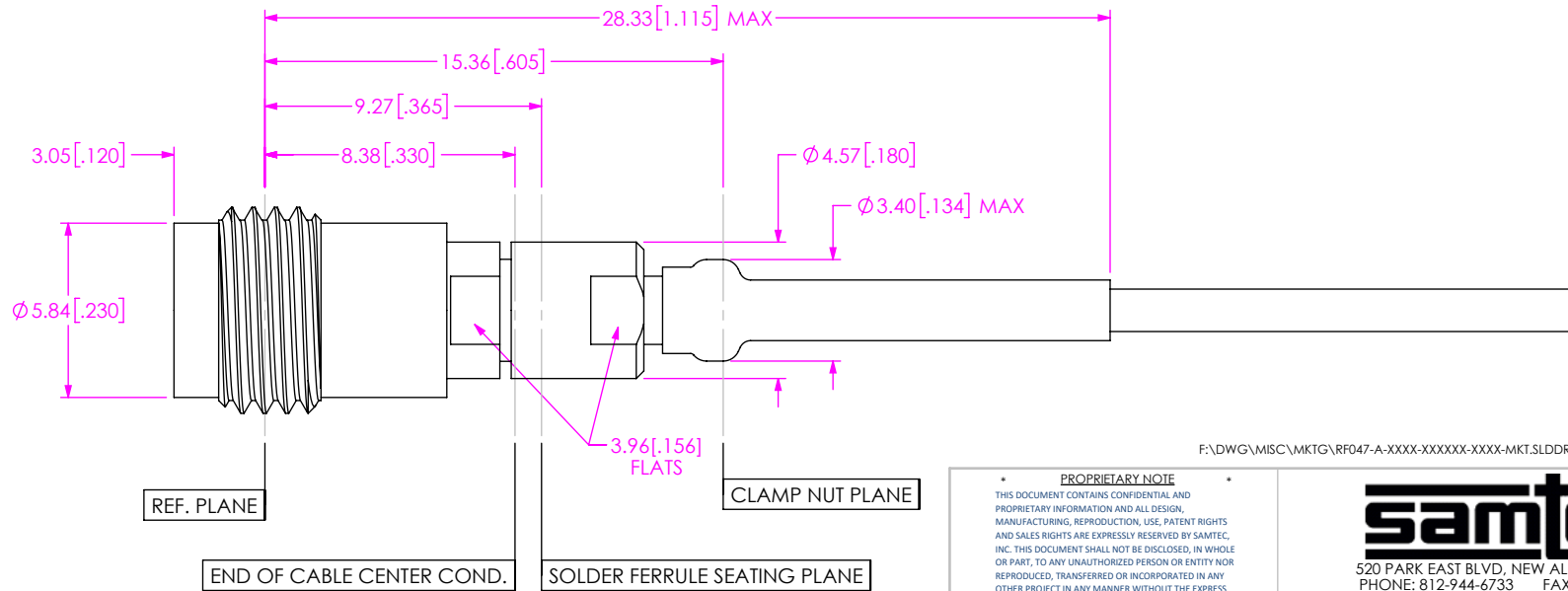


FIG 10  
-24SJ SHOWN  
(PROTECTIVE CAP NOT SHOWN FOR CLARITY)

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SHEET SCALE: 4:1

DESCRIPTION: RF047-A CABLE ASSEMBLY

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

BY: SHERRY W 2/5/2018 SHEET 6 OF 12

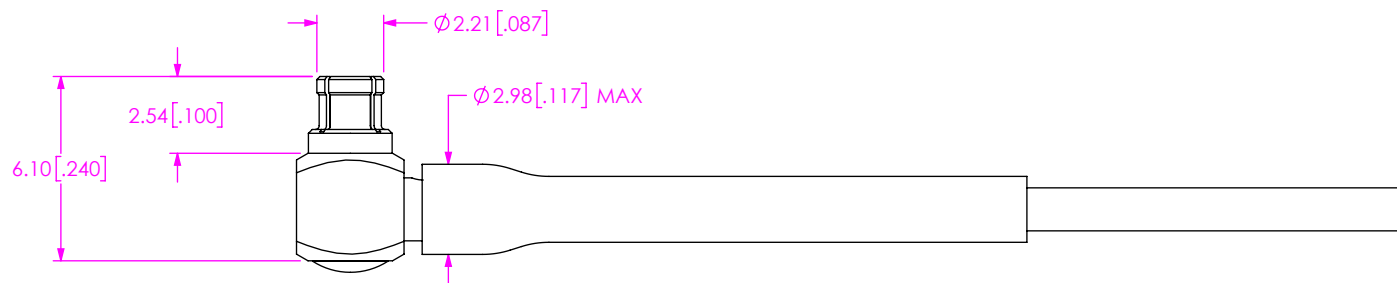


FIG 11  
-MORJ SHOWN

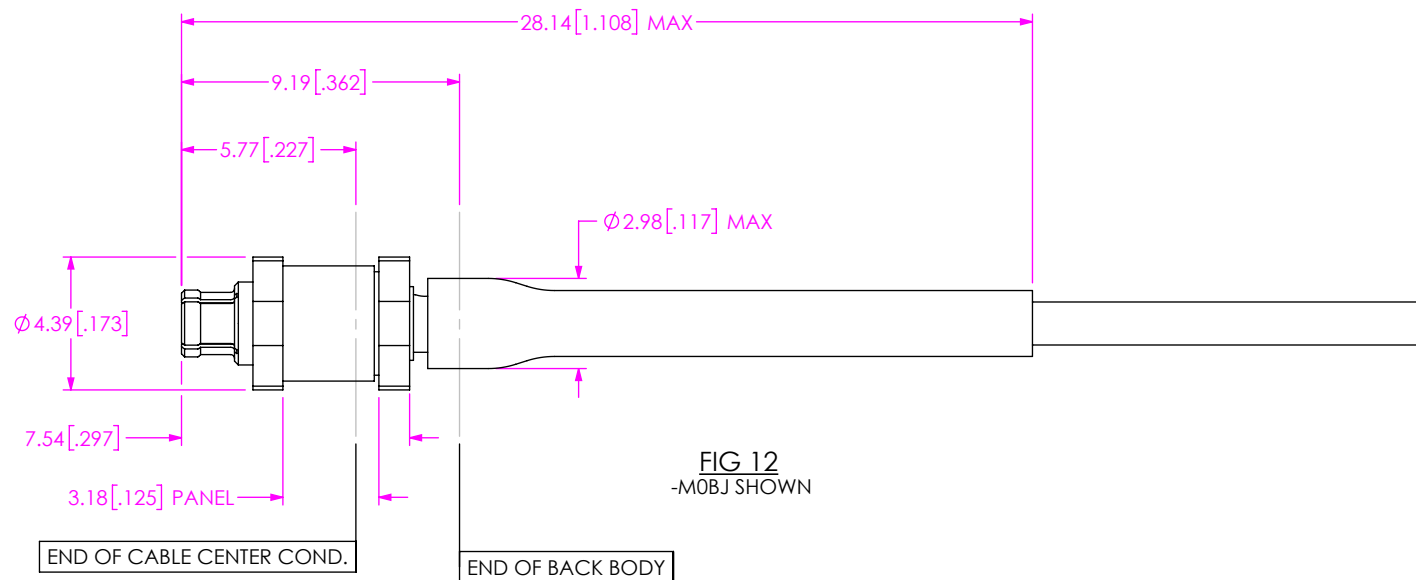


FIG 12  
-MOBJ SHOWN

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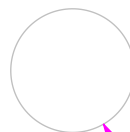
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SHEET SCALE: 4:1

DESCRIPTION:  
RF047-A CABLE ASSEMBLY

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

BY: SHERRY W 2/5/2018 SHEET 7 OF 12



$\phi 4.09 \pm 0.25 [1.61 \pm 0.10]$

RECOMMENDED PANEL VIEW

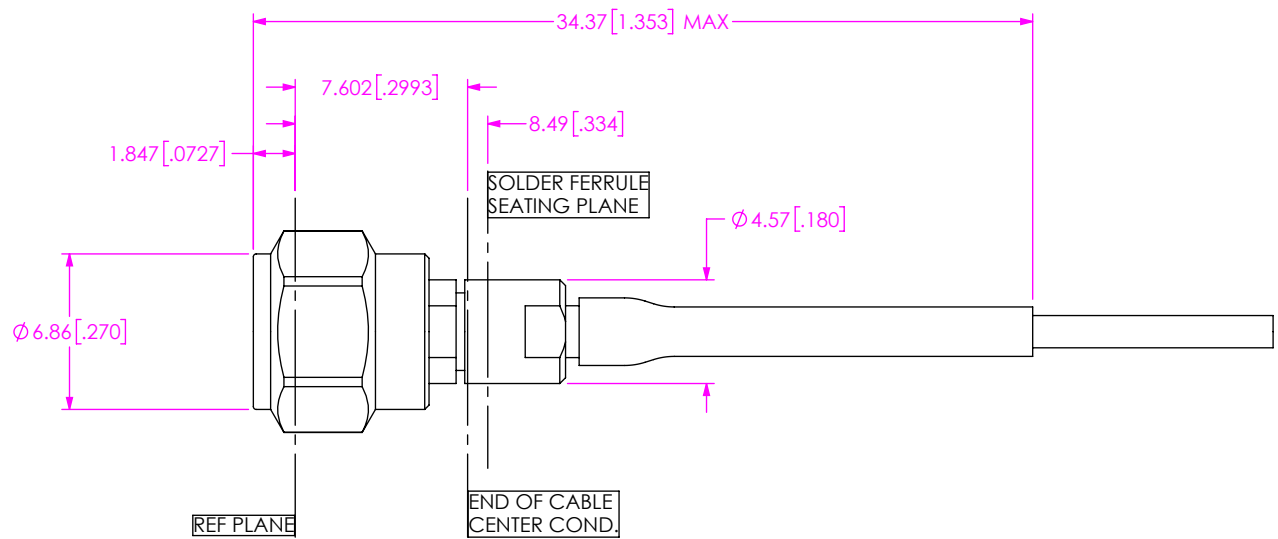


FIG 13  
-13SP SHOWN

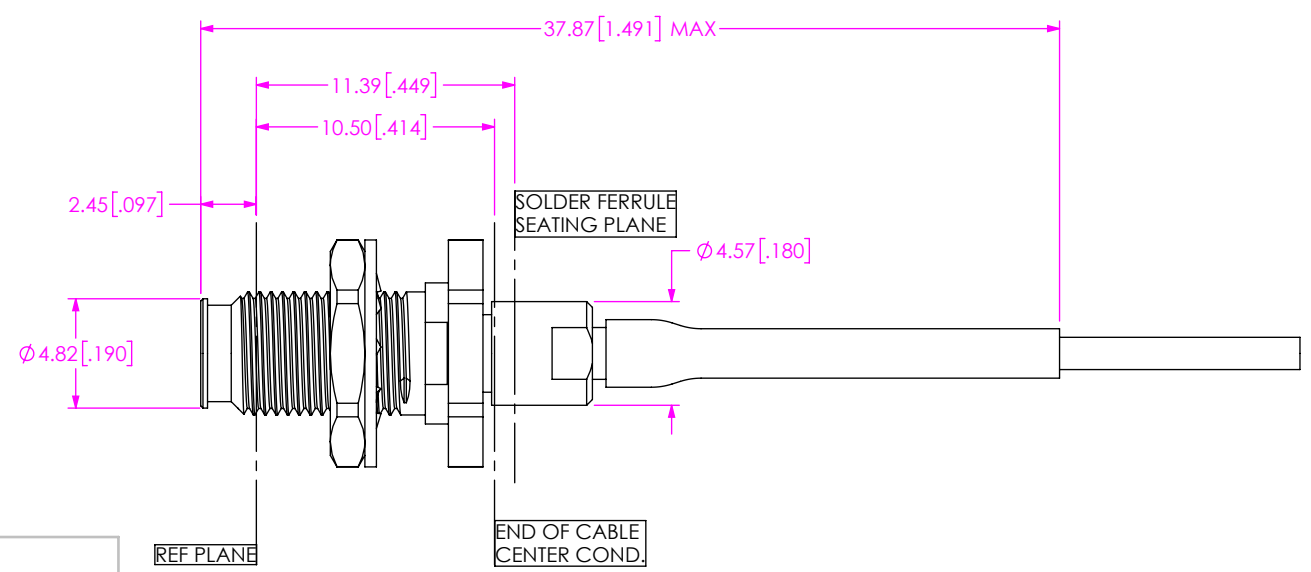
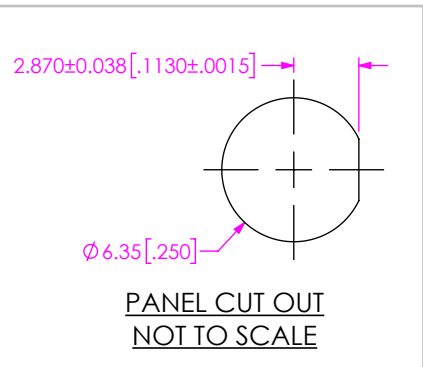


FIG 14  
-13BJ SHOWN



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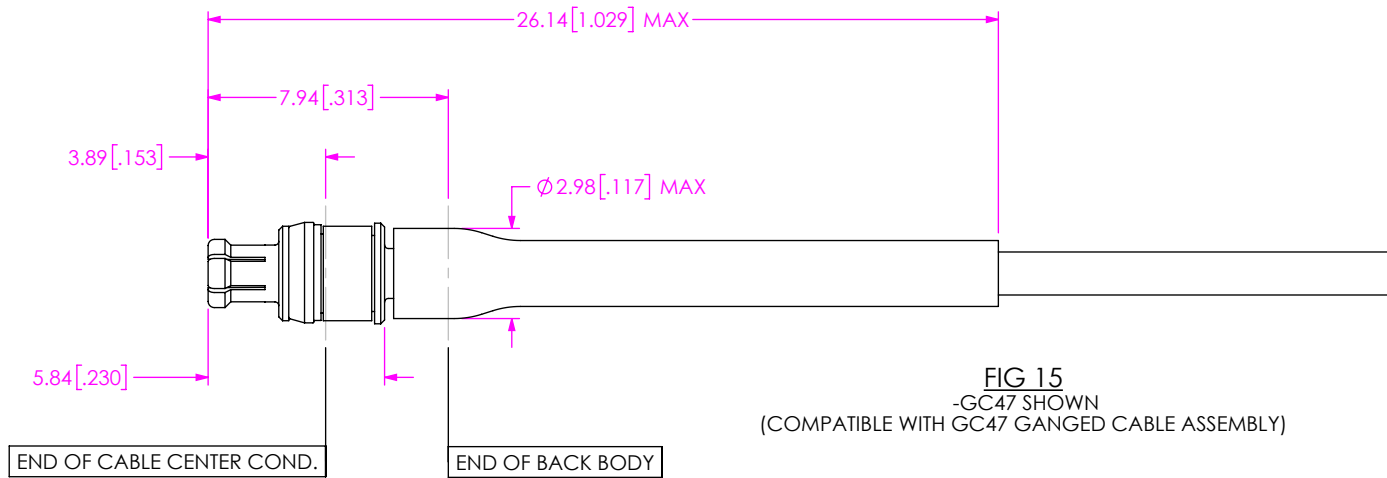
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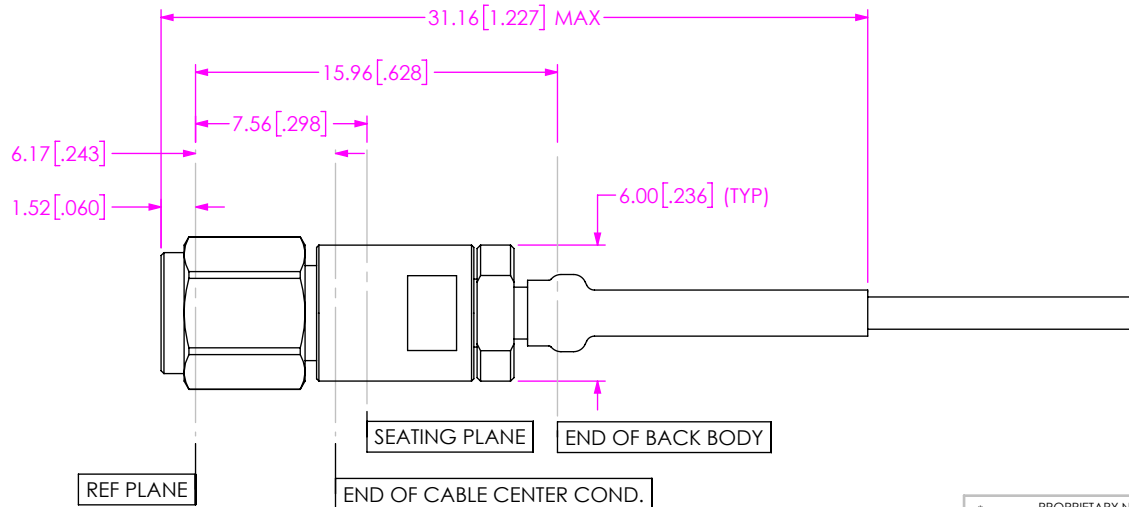
SHEET SCALE: 3:1

DESCRIPTION:	RF047-A CABLE ASSEMBLY
DWG. NO.	RF047-A-XXXX-XXXXXX-XXXX
BY: SHERRY W	2/5/2018 SHEET 8 OF 12





**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**

SHEET SCALE: 4:1

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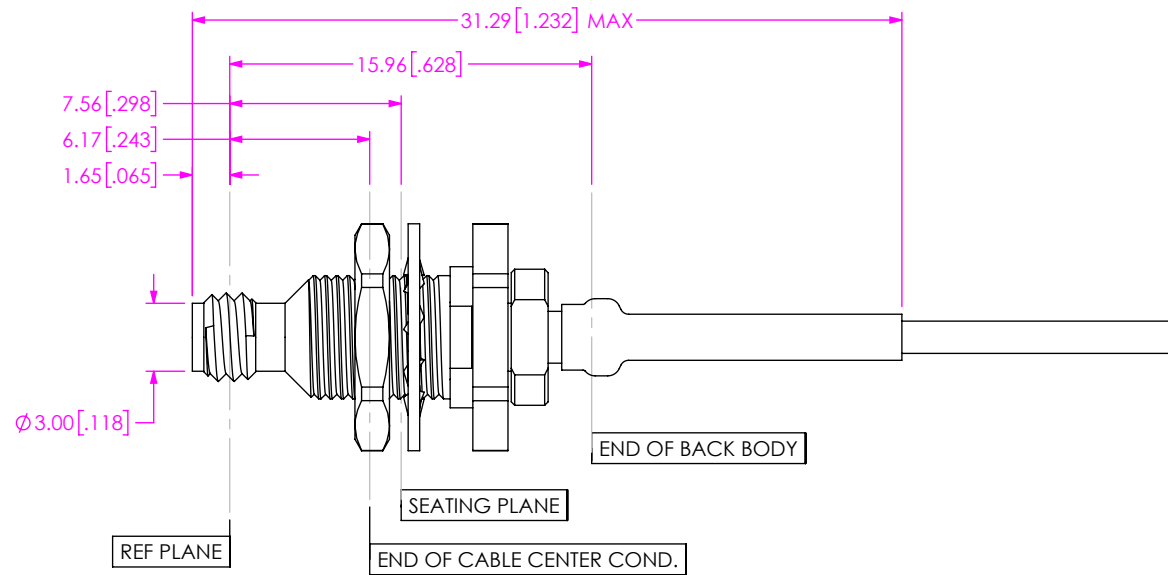


FIG 17  
-10BJ SHOWN  
(PROTECTIVE CAP NOT SHOWN FOR CLARITY)

RECOMMENDED PANEL CUTOUT

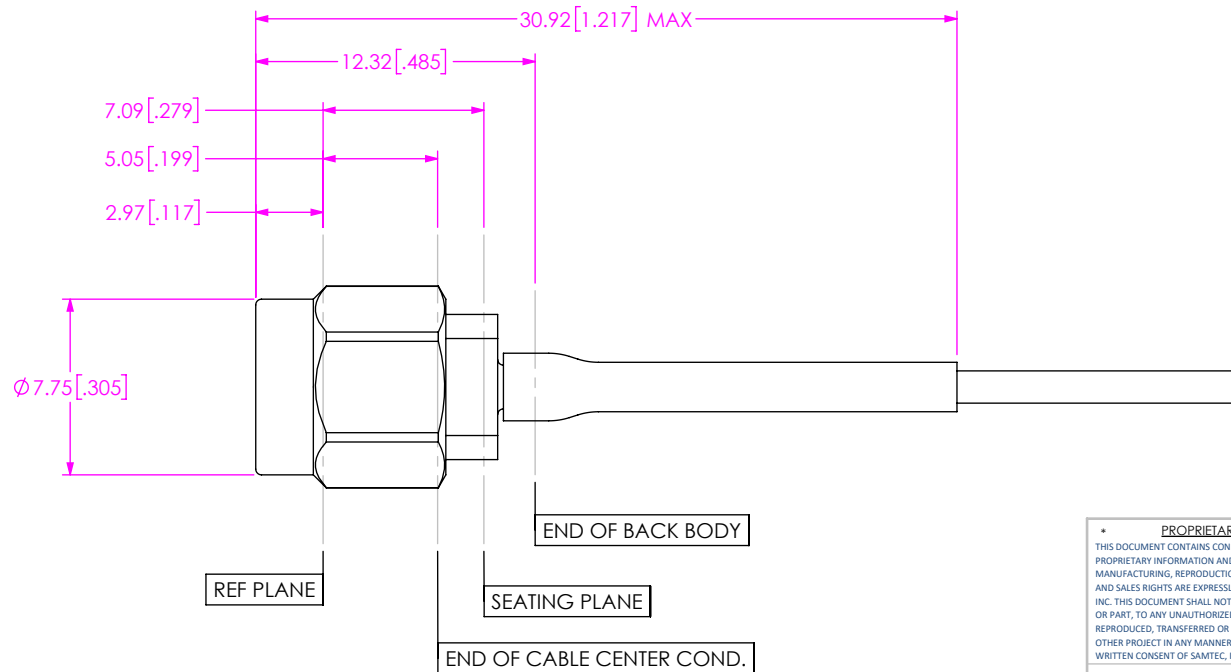
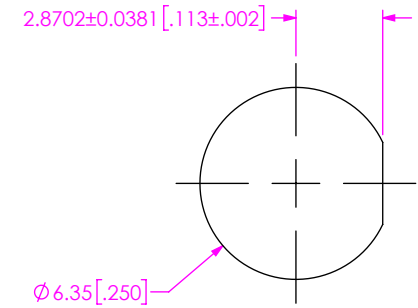


FIG 18  
-01SP SHOWN  
(PROTECTIVE CAP NOT SHOWN FOR CLARITY)

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DESCRIPTION:  
RF047-A CABLE ASSEMBLY

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

SHEET SCALE: 4:1

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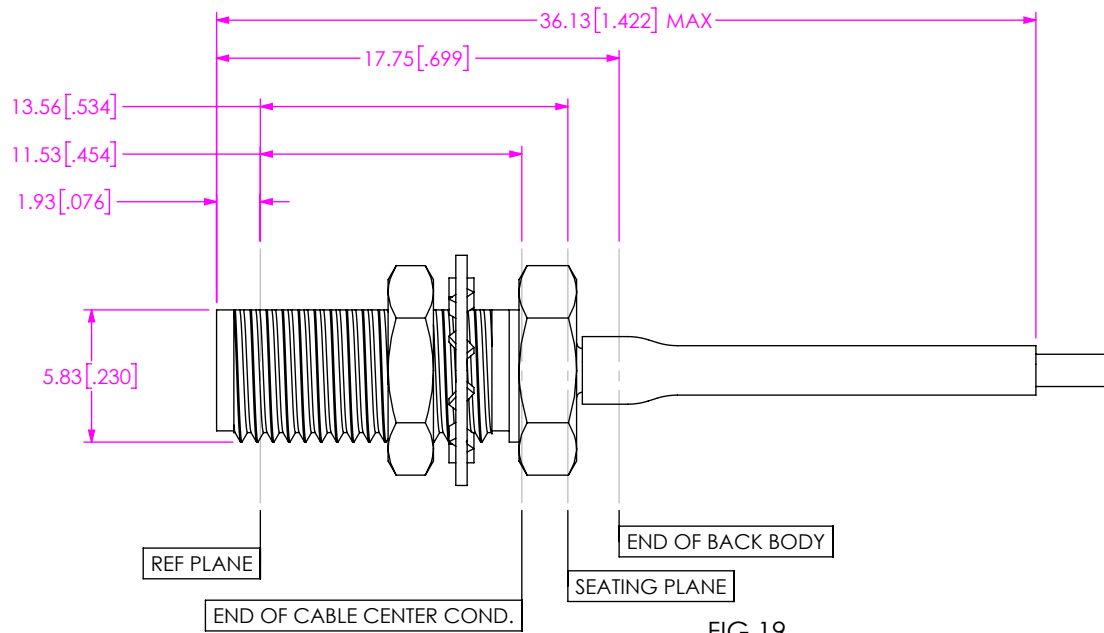


FIG 19  
-01BJ SHOWN  
(PROTECTIVE CAP NOT SHOWN FOR CLARITY)

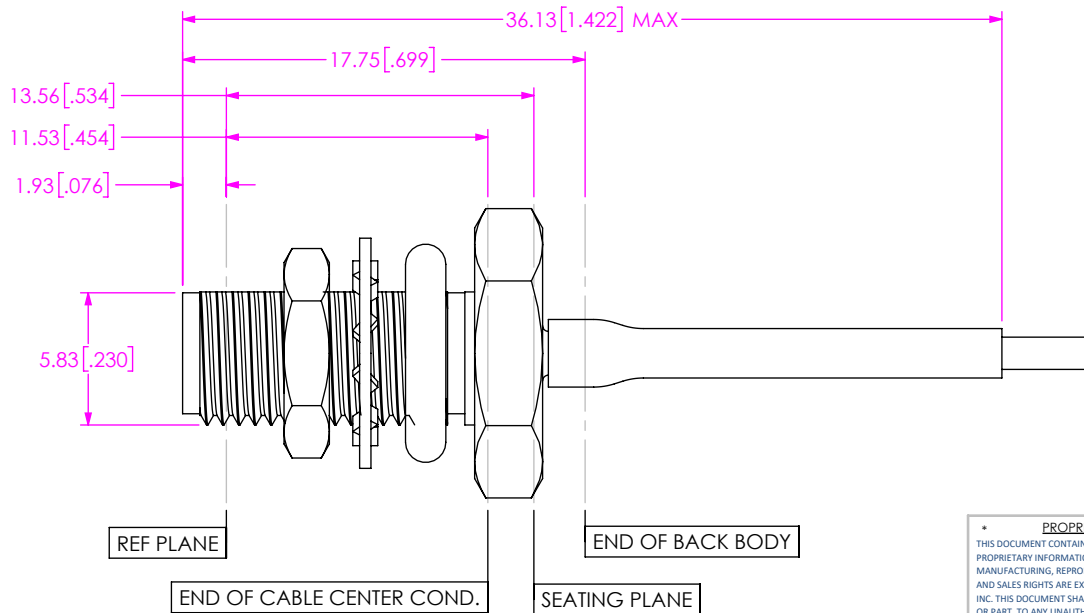
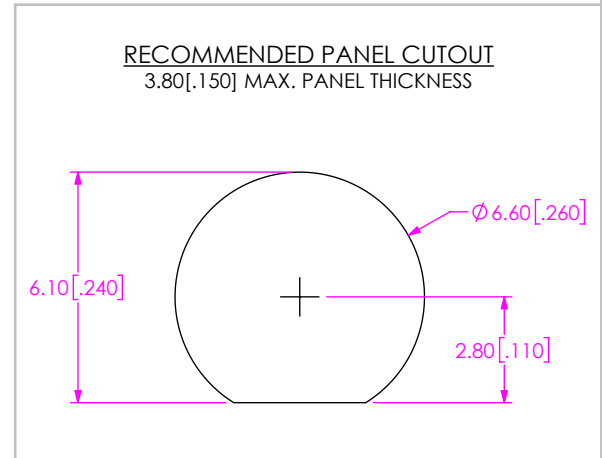
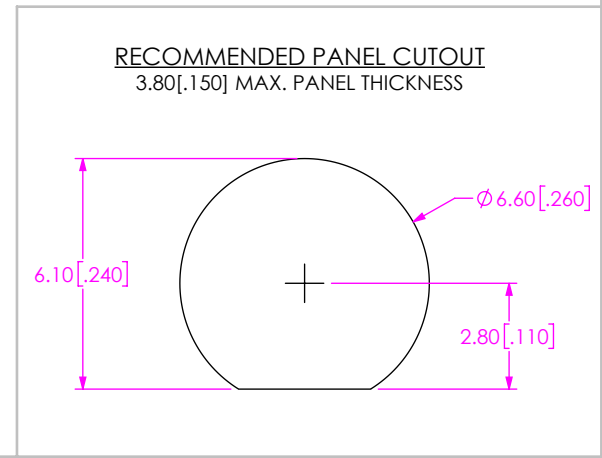


FIG 20  
-01SB SHOWN  
(PROTECTIVE CAP NOT SHOWN FOR CLARITY)



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RF047-A CABLE ASSEMBLY  
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BY: SHERRY W 2/5/2018 SHEET 11 OF 12

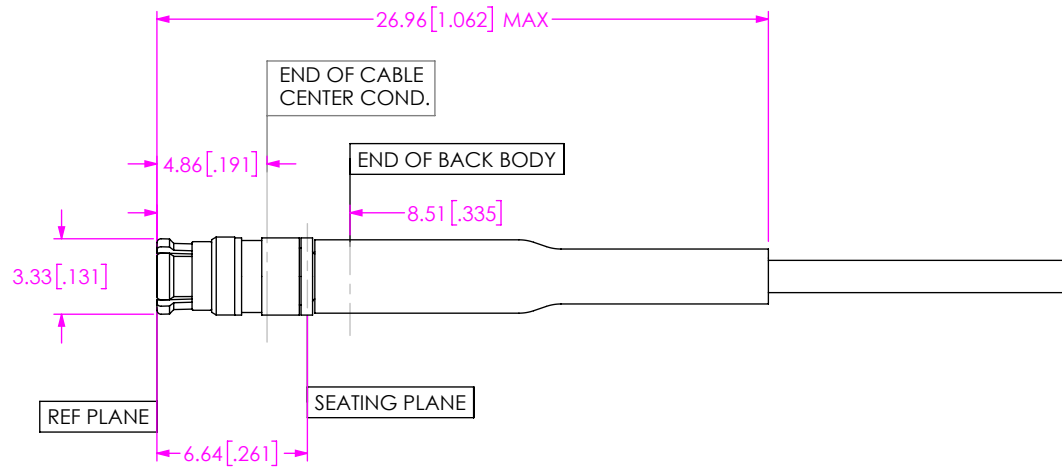


FIG 21  
-01SJ SHOWN  
(PROTECTIVE CAP NOT SHOWN FOR CLARITY)

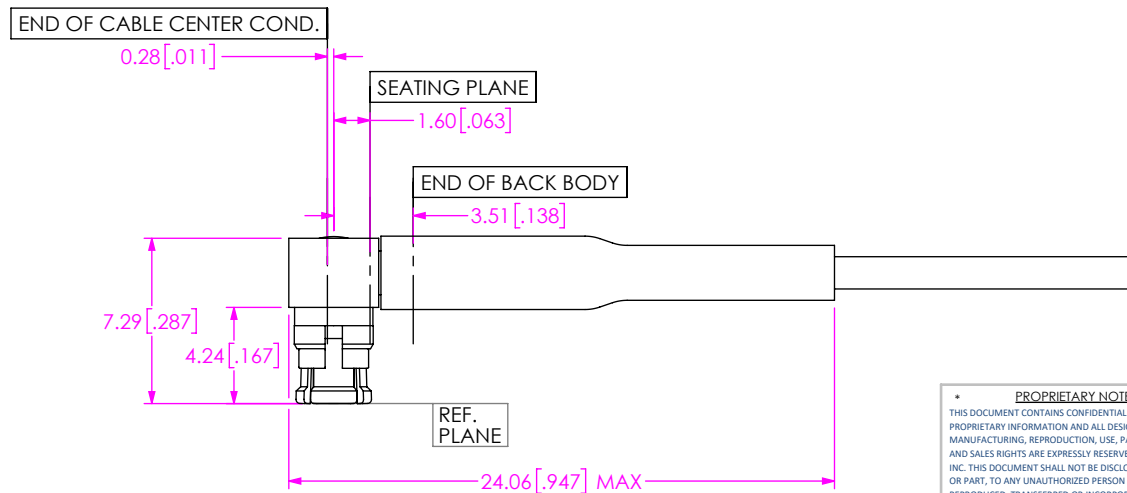


FIG 22  
-01MJ SHOWN  
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