



**THE DATASHEET OF
RFB8T-78SP4-78SP4-6600**



THIS PRODUCT MANUFACTURED WITH LEAD-FREE PROCESSING

DESIGNED & DIMENSIONED IN MILLIMETERS [INCHES]

DO NOT SCALE FROM THIS PRINT

RFX8T-XXXXX-XXXXXX-XXXX

CABLE CALLOUT
B8T: BELDEN 1855A CABLE (CCA-1855A)
C8T: BELDEN 4855R CABLE (CCA-4855R)

OVERALL ASSEMBLY LENGTH (OAL)
XXXX (MILLIMETERS) (0300 MIN)
(SEE NOTE 8)

END 1 CONNECTOR
(SEE TABLE 3, SHT 2)

END 2 CONNECTOR OR PREPARATION
(SEE TABLE 3, SHT 2)

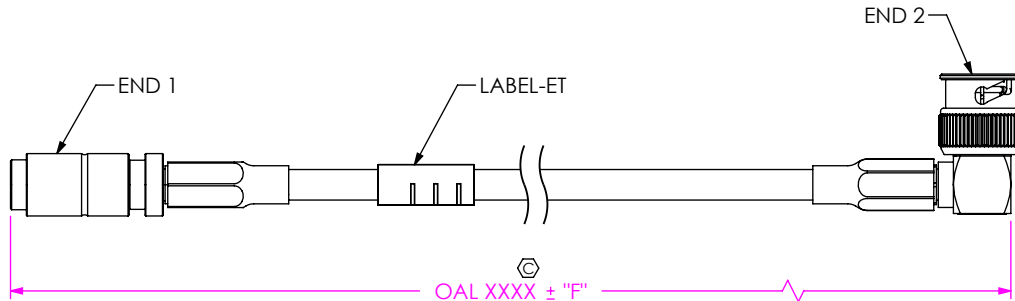


FIG 1
RF8T-78SPX-79RPX-XXXX SHOWN

TABLE 2: FINAL ASSEMBLY LENGTH TOLERANCE	
LENGTH	"F"
0300-0500 [11.81-19.69]	+5.0 [.20]/-0.0 [.00]
0501-1100 [19.72-43.30]	+10.0 [.40]/-0.0 [.00]
>1100 [43.30]	± 1%

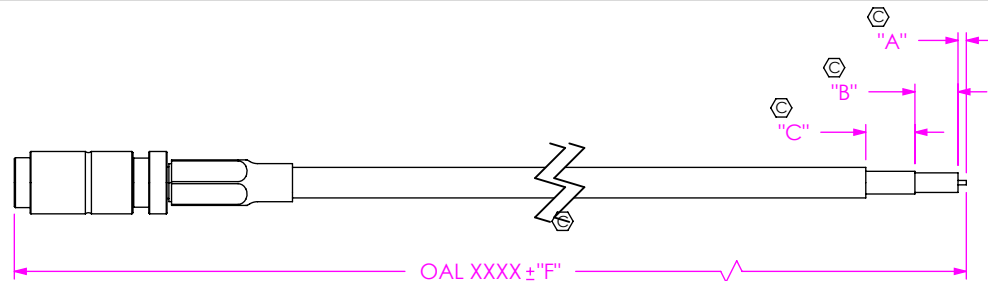


FIG 2
RF8T-78SPX-172849-XXXX SHOWN (SEE NOTES 5 & 7)

"C" FORMAT: X.X mm
"B" FORMAT: X.X mm
"A" FORMAT: X.X mm

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

NOTES:

- ③ REPRESENTS A CRITICAL DIMENSION
- ASSEMBLY TO BE 100% TESTED FOR OPENS, SHORTS & HI-POT TESTED (PER TABLE 1, AC OR DC), THE HI-POT VOLTAGE FOR THE ASSEMBLY SHOULD BE SET TO THE END OPTION WITH THE LOWEST TEST VOLTAGE RATING.
- AFTER FINAL ELECTRICAL TEST, LABEL EACH CABLE ASSEMBLY WITH 1 LABEL-ET.
- PRODUCT TO BE PACKAGE PER PRECISION RF SECTION OF THE PACKAGING MANUAL. ASSEMBLIES WITH LOCKWASHERS, NUTS, AND GASKETS TO BE SHIPPED KITTED AS ONE ASSEMBLY PER BAG, UNASSEMBLED.
- DIM "A", "B", AND "C" HAVE A MINIMUM VALUE OF 0.0mm & A MAXIMUM VALUE OF 9.9mm.
- CONNECTORS TO BE ORIENTED ACCORDING TO CO-RF-WI-3048-M.
- FOR STRIPPED AND TINNED OPTION, ONLY THE CENTER CONDUCTOR IS TINNED.
- CABLE LENGTHS LONGER THAN 1000 MILLIMETERS ARE NOT SUPPORTED BY S.I. TEST DATA.

F:\DWG\MISC\MKTG\RFX8T-XXXXX-XXXXXX-XXXX-MKT.SLDDRW

<p>UNLESS OTHERWISE SPECIFIED, DIMENSIONS ARE IN MILLIMETERS [INCHES]. TOLERANCES ARE:</p> <p>DECIMALS ANGLES .X: ±0.3 [.01] 2° .XX: ±0.13 [.005] .XXX: ±0.051 [.0020]</p>		<p>PROPRIETARY NOTE</p> <p>THIS DOCUMENT CONTAINS CONFIDENTIAL AND PROPRIETARY INFORMATION AND ALL DESIGN, MANUFACTURING, REPRODUCTION, USE, PATENT RIGHTS AND SALES RIGHTS ARE EXPRESSLY RESERVED BY SAMTEC, INC. THIS DOCUMENT SHALL NOT BE DISCLOSED, IN WHOLE OR PART, TO ANY UNAUTHORIZED PERSON OR ENTITY NOR REPRODUCED, TRANSFERRED OR INCORPORATED IN ANY OTHER PRODUCT IN ANY MANNER WITHOUT THE EXPRESS WRITTEN CONSENT OF SAMTEC, INC.</p>
<p>MATERIAL: DO NOT SCALE DRAWING SHEET SCALE: 2:1</p>		<p>DIELECTRIC: PTFE GASKET: SILICONE SPRING: STAINLESS STEEL ALL OTHER: BRASS</p>



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DESCRIPTION: TRUE 75 OHM, RF8T CABLE ASSEMBLY	
DWG. NO. RFX8T-XXXXX-XXXXXX-XXXX	
BY: J. BROWNING 05/13/2010	SHEET 1 OF 6

TABLE 3

END OPTION	SERIES	GENDER	CONFIGURATION	PLATING			FIGURE
				CENTER CONTACT	OUTER CONTACT	OTHER COMPONENTS	
-78SP4	75 OHM DIN 1.0/2.3	PLUG	STRAIGHT	10µ" GOLD	3µ" GOLD	100µ" NICKEL	SHT 3, FIG 3
-78SP5	75 OHM DIN 1.0/2.3	PLUG	STRAIGHT	10µ" GOLD	10µ" GOLD	100µ" NICKEL	
-78SP6	75 OHM DIN 1.0/2.3	PLUG	STRAIGHT	30µ" GOLD	30µ" GOLD	100µ" NICKEL	
-78SP8	75 OHM DIN 1.0/2.3	PLUG	STRAIGHT	30µ" GOLD	3µ" GOLD	100µ" NICKEL	
** -79SP2	75 OHM MINI BNC	PLUG	STRAIGHT	30µ" GOLD	100µ" NICKEL	100µ" NICKEL	SHT 3, FIG 4
** -79SP3	75 OHM MINI BNC	PLUG	STRAIGHT	10µ" GOLD	100µ" NICKEL	100µ" NICKEL	
** -79RP2	75 OHM MINI BNC	PLUG	RIGHT ANGLE	30µ" GOLD	100µ" NICKEL	100µ" NICKEL	SHT 4, FIG 5
** -79RP3	75 OHM MINI BNC	PLUG	RIGHT ANGLE	10µ" GOLD	100µ" NICKEL	100µ" NICKEL	
-H4SP2	75 OHM HIGH DENSITY BNC	PLUG	STRAIGHT	30µ" GOLD	100µ" NICKEL	100µ" NICKEL	SHT 4, FIG 6
-H4SP3	75 OHM HIGH DENSITY BNC	PLUG	STRAIGHT	10µ" GOLD	100µ" NICKEL	100µ" NICKEL	
-H4SP4	75 OHM HIGH DENSITY BNC	PLUG	STRAIGHT	10µ" GOLD	3µ" GOLD	100µ" NICKEL	
-H4SP8	75 OHM HIGH DENSITY BNC	PLUG	STRAIGHT	30µ" GOLD	3µ" GOLD	100µ" NICKEL	
*-SING	SINGLE ENDED	-	-	-	-	-	-
*-XXXXX	STRIPPED & TINNED	-	-	-	-	-	SHT 1, FIG 2

* = END 2 OPTION ONLY

** = FOR EXISTING CUSTOMERS ONLY

TABLE 1

END OPTION	SUBTRACTOR	STRIP DIMENSIONS			HI POT	
		"Y"	"A"	"D"	"E"	"DC"
-78SP4	15.7 [0.62]	2.6 [0.10]	5.0 [0.20]	12.3 [0.48]	1000	300
-78SP5						
-78SP6						
-78SP8						
** -79SP2	8.6 [0.34]	2.5 [0.10]	4.9 [0.19]	10.7 [0.42]	1000	300
** -79SP3						
** -79RP2	5.3 [0.21]	1.1 [0.04]	6.8 [0.27]	13.3 [0.52]	1000	300
** -79RP3						
-H4SP2	13.3 [0.52]	2.6 [0.10]	4.4 [0.17]	11.2 [0.44]	1000	300
-H4SP3						
-H4SP4						
-H4SP8						
*-SING	0.0 [0.00]	-	-	-	1000	N/A
*-XXXXX	0.0 [0.00]	"A"	"A" + "B"	"A" + "B" + "C"	1000	N/A

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** = FOR EXISTING CUSTOMERS ONLY

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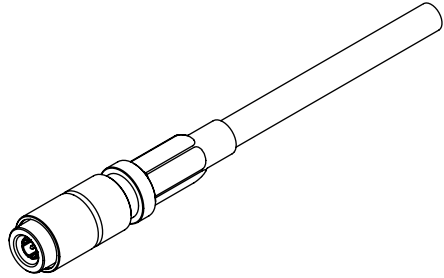
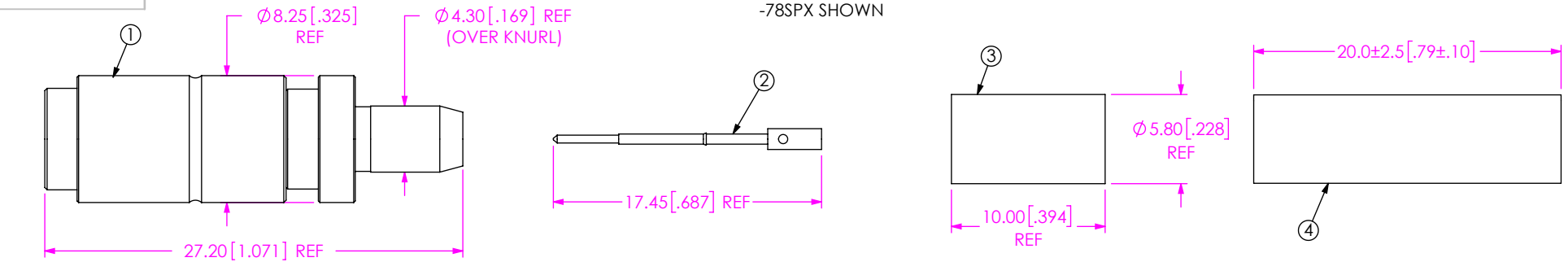
SHEET SCALE: 2:1

DESCRIPTION:
 TRUE 75 OHM, RF8T CABLE ASSEMBLY

DWG. NO.
RFX8T-XXXXX-XXXXXX-XXXX

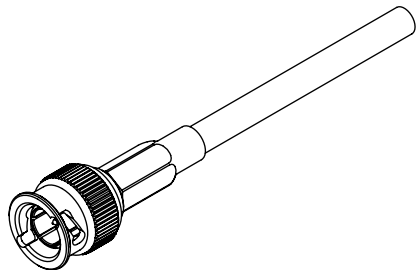
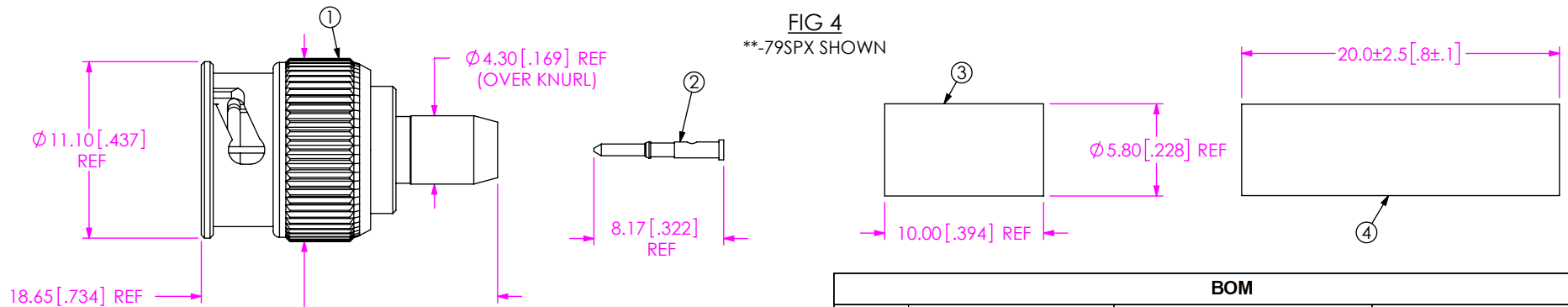
BY: J. BROWNING 05/13/2010 SHEET 2 OF 6

FIG 3
-78SPX SHOWN



BOM					
ITEM	COMPONENT	-78SP4	-78SP5	-78SP6	-78SP8
1	SUB ASSEMBLY	SUB-DIN7A-PP-C-FN-ST-CA8	SUB-DIN7A-PP-C-GN-ST-CA8	SUB-DIN7A-PP-C-HN-ST-CA8	SUB-DIN7A-PP-C-FN-ST-CA8
2	PIN	DIN7A-P-C-G-ST-CA8-PIN	DIN7A-P-C-G-ST-CA8-PIN	DIN7A-P-C-H-ST-CA8-PIN	DIN7A-P-C-H-ST-CA8-PIN
3	FERRULE	DINA-FER-001-N			
4	HEAT SHRINK TUBE	HST-0.250-02-BLK			

FIG 4
**-79SPX SHOWN



BOM			
ITEM	COMPONENT	** -79SP2	** -79SP3
1	SUB ASSEMBLY	SUB-MBNC7-P-C-N-ST-CA8	
2	PIN	MBNC7-P-C-H-ST-CA8-PIN	MBNC7-P-C-G-ST-CA8-PIN
3	FERRULE	DINA-FER-001-N	
4	HEAT SHRINK TUBE	HST-0.250-02-BLK	

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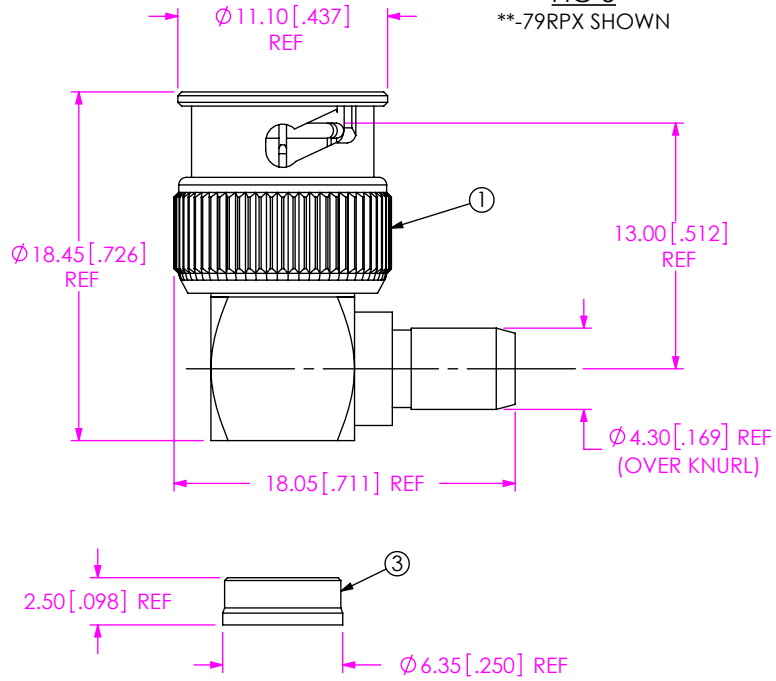
SHEET SCALE: 2.5:1

DESCRIPTION:
TRUE 75 OHM, RF8T CABLE ASSEMBLY

DWG. NO.
RFX8T-XXXXXX-XXXXXX-XXXX

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FIG 5
**-79RPX SHOWN



BOM			
ITEM	COMPONENT	**-79RP2	**-79RP3
1	SUB ASSEMBLY	SUB-MBNC7-P-C-HN-RA-CA8	SUB-MBNC7-P-C-GN-RA-CA8
2	FERRULE	DINA-FER-001-N	
3	CAP	MBNC7-P-C-N-RA-CAP	
4	HEAT SHRINK TUBE	HST-0.250-02-BLK	

** = FOR EXISTING CUSTOMERS ONLY

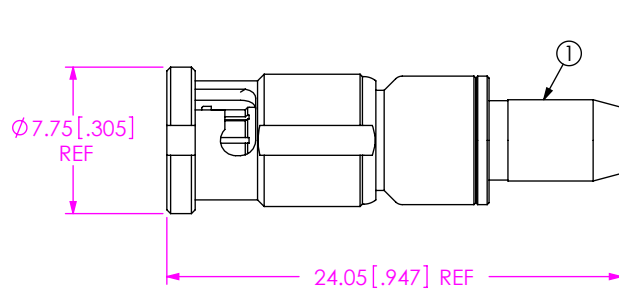
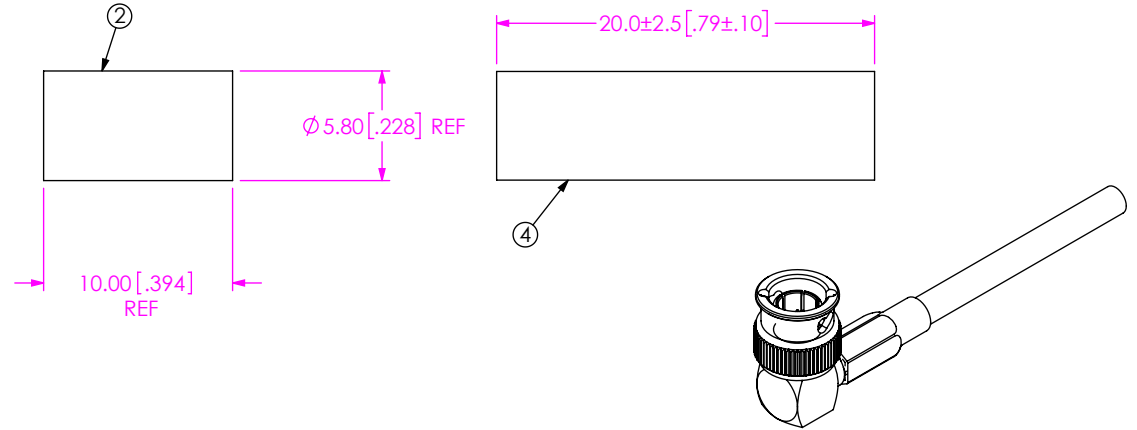
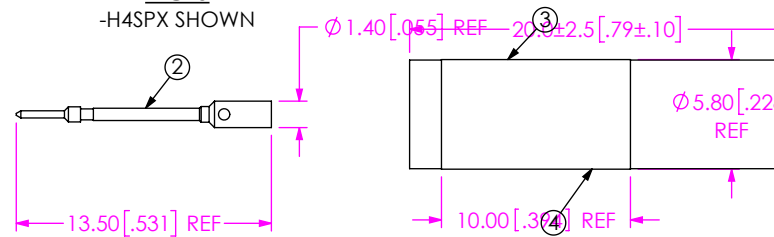
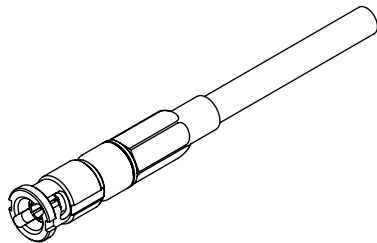


FIG 6
-H4SPX SHOWN



BOM					
ITEM	COMPONENT	-H4SP2	-H4SP3	-H4SP4	-H4SP8
1	SUB ASSEMBLY	SUB-HDBNC-P-C-NN-ST-CA8	SUB-HDBNC-P-C-NN-ST-CA8	SUB-HDBNC-P-C-FN-ST-CA8	SUB-HDBNC-P-C-FN-ST-CA8
2	PIN	HDBNC-P-C-H-ST-CA8-PIN	HDBNC-P-C-G-ST-CA8-PIN	HDBNC-P-C-G-ST-CA8-PIN	HDBNC-P-C-H-ST-CA8-PIN-X
3	FERRULE	DINA-FER-001-N			
4	HEAT SHRINK TUBE	HST-0.250-02-BLK			



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DESCRIPTION:
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DWG. NO.
RFX8T-XXXXXX-XXXXXX-XXXX

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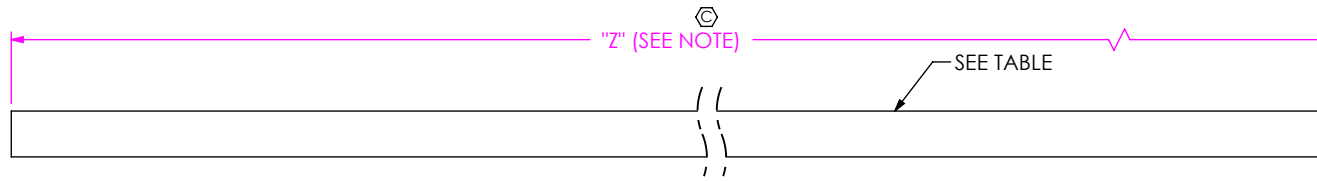
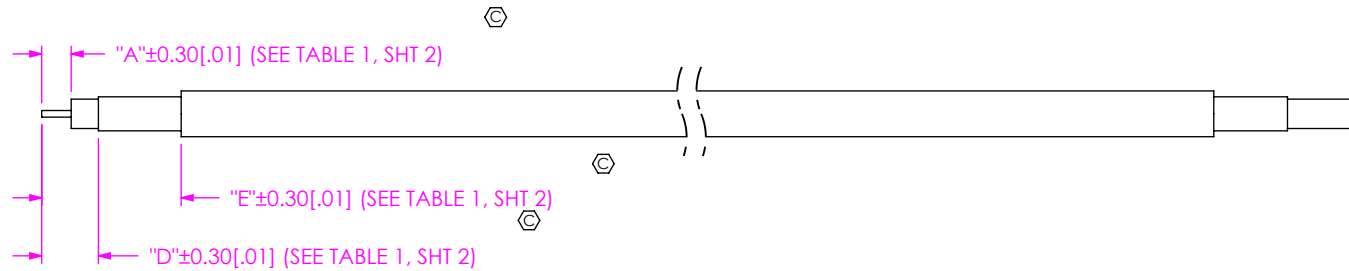


TABLE	
CABLE CALLOUT	PART NUMBER
RFB8T	CCA-1855A
RFC8T	CCA-4855R

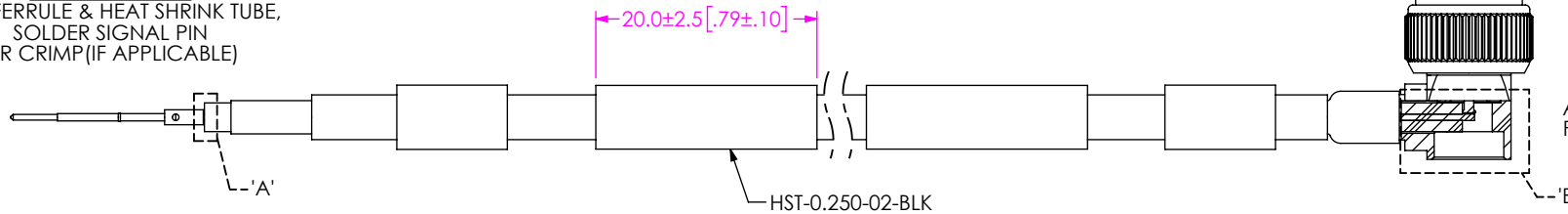
NOTE: "Z" = 2*OAL - 2*"Y"(END 1) (FOR -SING OR -XXXXX OPTIONS)
 "Z" = OAL - "Y"(END 1) - "Y"(END 2) (FOR DOUBLE ENDED OPTIONS)

IN PROCESS 1
 CUT CABLE TO LENGTH



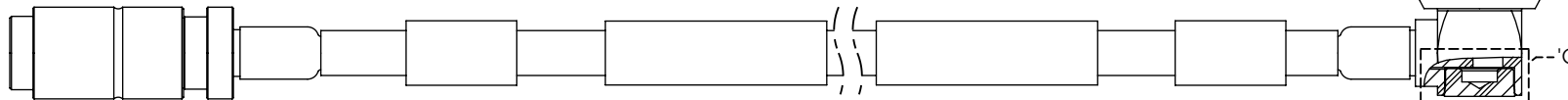
IN PROCESS 2
 STRIP AND TIN INNER CONDUCTOR

STRAIGHT
 IN PROCESS 3
 ADD FERRULE & HEAT SHRINK TUBE,
 SOLDER SIGNAL PIN
 OR CRIMP (IF APPLICABLE)



RIGHT ANGLE
 IN PROCESS 3
 ADD FERRULE & HEAT SHRINK TUBE,
 FLARE SHIELD, ADD SUB ASSEMBLY,
 AND SOLDER SIGNAL PIN
 (SEE NOTE 6)

STRAIGHT
 IN PROCESS 4
 FLARE SHIELD,
 ADD SUB ASSEMBLY
 (SEE NOTE 6)

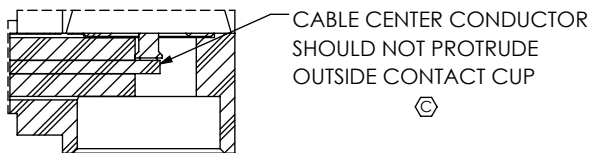


RIGHT ANGLE
 IN-PROCESS 4
 INSERT CAP

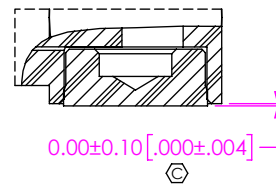
0.10[.004] MAX



DETAIL 'A'
 SCALE 3 : 1



DETAIL 'B'
 SCALE 3 : 1



DETAIL 'C'
 SCALE 3 : 1

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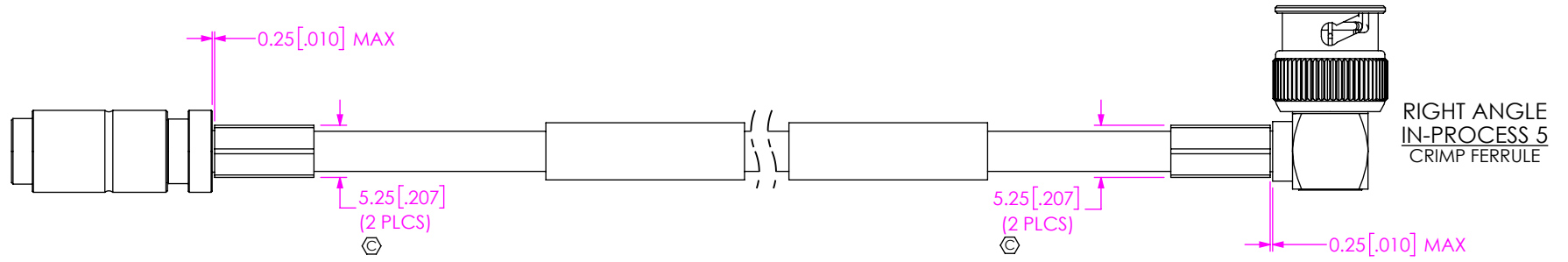
SHEET SCALE: 1.5:1



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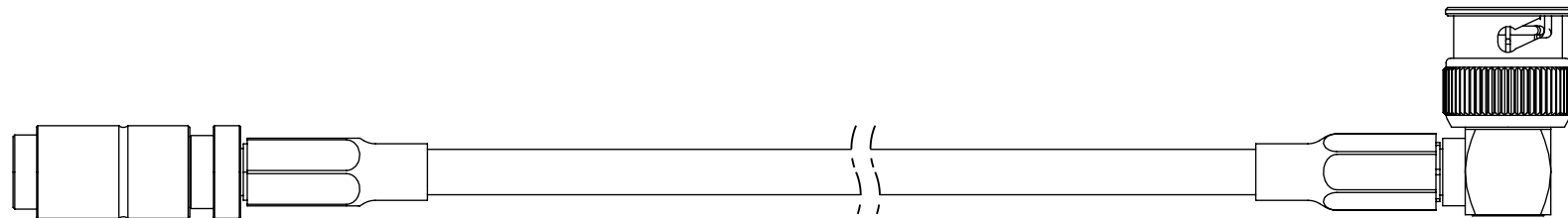
DESCRIPTION:
 TRUE 75 OHM, RF8T CABLE ASSEMBLY
 DWG. NO.
 RFX8T-XXXXX-XXXXXX-XXXX
 BY: J. BROWNING 05/13/2010 SHEET 5 OF 6

STRAIGHT
IN-PROCESS 5
CRIMP FERRULE



RIGHT ANGLE
IN-PROCESS 5
CRIMP FERRULE

STRAIGHT
IN PROCESS 6
ACTIVATE HEAT SHRINK



RIGHT ANGLE
IN-PROCESS 6
ACTIVATE HEAT SHRINK

F:\DWG\MISC\MKTG\RF8T-XXXX-XXXXX-XXXX-MKT.SLDDRW

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SHEET SCALE: 1.5:1



DESCRIPTION:
TRUE 75 OHM, RF8T CABLE ASSEMBLY

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