

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

DO NOT  
SCALE FROM  
THIS PRINT

CABLE CALLOUT  
179: RG179 CABLE (CCA-179)

OVERALL ASSEMBLY LENGTH (OAL)  
XXXX (MILLIMETERS) (0100 MIN)  
(SEE NOTE 8)

END 1 CONNECTOR  
(SEE TABLE 3, SHEET 2)

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

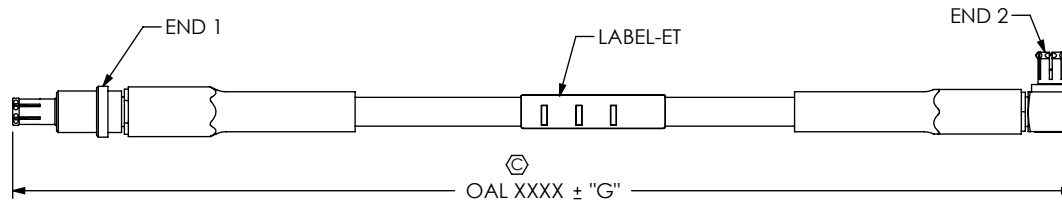


FIG 1  
RF179-73SPX-73RPX-XXXX SHOWN

TABLE 2	
OVERALL LENGTH	"G"
0100-0200 [3.92-7.87]	+3.0 [.12]/-0.0 [.00]
0200-0500 [7.87-19.69]	+5.0 [.20]/-0.0 [.00]
0500-1000 [19.69-39.37]	+10.0 [.40]/-0.0 [.00]

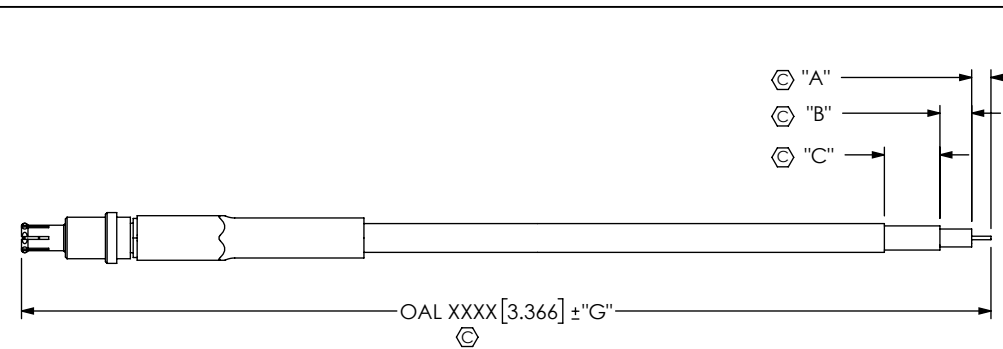


FIG 2  
RF179-73SPX-172849-XXXX SHOWN (SEE NOTE 5 & 7)

"C" (FORMAT: X.X)  
"B" (FORMAT: X.X)  
"A" (FORMAT: X.X)

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

NOTES:

1.  $\text{Ⓢ}$  REPRESENTS A CRITICAL DIMENSION
2. ASSEMBLY TO BE 100% TESTED FOR OPENS, SHORTS & HI-POT TESTED (PER TABLE 3, AC OR DC), THE HI-POT VOLTAGE FOR THE ASSEMBLY SHOULD BE SET TO THE END OPTION WITH THE LOWEST TEST VOLTAGE RATING.
3. AFTER FINAL ELECTRICAL TEST, LABEL EACH CABLE ASSEMBLY WITH 1 LABEL-ET
4. FINISHED ASSEMBLIES TO BE PACKAGED PER PACKAGING STANDARD CO-RF-WI-3040-M. ASSEMBLIES WITH LOCK WASHERS, NUTS, AND GASKETS TO BE SHIPPED KITTED AS ONE ASSEMBLY PER BAG, UNASSEMBLED.
5. DIM "A", "B", AND "C" HAVE A MINIMUM VALUE OF 0.0mm & A MAXIMUM VALUE OF 9.9mm
6. CONNECTORS TO BE ORIENTED ACCORDING TO CO-RF-WI-3048-M.
7. FOR STRIPPED AND TINNED OPTION, ONLY THE CENTER CONDUCTOR IS TINNED.
8. CABLE LENGTHS LONGER THAN 1000 MILLIMETERS ARE NOT SUPPORTED BY S.J. TEST DATA.

UNLESS OTHERWISE SPECIFIED,  
DIMENSIONS ARE IN  
MILLIMETERS [INCHES].  
TOLERANCES ARE:  
DECIMALS ANGLES  
.X: ±0.3 [.01] 2°  
.XX: ±0.13 [.005]  
.XXX: ±0.051 [.0020]

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520 PARK EAST BLVD. NEW ALBANY, IN 47150  
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**MATERIAL:** DO NOT SCALE DRAWING SHEET SCALE: 2:1  
SHELLS, CONTACTS, FERRULES: BRASS  
DIELECTRIC: PTFE  
GASKETS: SILICONE  
D4SPX SHELL: ZINC

DESCRIPTION: RF179 CABLE ASSEMBLY  
DWG. NO. RF179-XXXXX-XXXXXX-XXXX  
BY: B. RAY 1-30-2007 SHEET 1 OF 10

TABLE 1

END OPTION	SUBTRACTOR	STRIP DIMENSIONS			HI POT	
		"Y"	"A"	"D"	"E"	"DC"
-74BJ3	13.4 [0.53]	4.6 [0.18]	8.2 [0.32]	17.9 [0.70]	1000	1200
-74BJ2						
-74SP3	10.3 [0.41]	3.2 [0.13]	5.4 [0.21]	12.1 [0.48]	1000	1200
-D4SP3						
-78SP4	15.7 [0.62]	2.6 [0.10]	5.0 [0.20]	12.3 [0.48]	1000	250
-78SP5						
-78SP6						
-78SP8						
-72RP1	2.0 [0.08]	1.0 [0.04]	3.1 [0.12]	7.9 [0.31]	1000	500
-72RP2						
-72SP1	7.3 [0.29]	2.0 [0.08]	3.3 [0.13]	8.6 [0.34]	1000	500
-72SP2						
** -79RP3	5.3 [0.21]	1.1 [0.04]	6.8 [0.27]	13.3 [0.52]	1000	500
** -79RP2						
** -79SP3	8.7 [0.34]	2.5 [0.10]	4.9 [0.19]	10.7 [0.42]	1000	500
** -79SP2						
-73SJ4	4.7 [0.19]	1.7 [0.07]	4.5 [0.18]	9.4 [0.37]	1000	250
-73SJ1						
-73RP4	1.7 [0.07]	1.7 [0.07]	3.0 [0.12]	8.0 [0.31]	1000	250
-73RP1						
-73SP4	5.5 [0.22]	1.7 [0.07]	4.5 [0.18]	9.4 [0.37]	1000	250
-73SP1						
-77RP1	2.9 [0.11]	1.9 [0.07]	4.9 [0.19]	10.1 [0.40]	1000	1000
-77RP2						
-77SP1	7.5 [0.30]	2.0 [0.08]	4.2 [0.17]	9.5 [0.37]	1000	1000
-77SP2						
* -SING	0.0 [0.00]	-	-	-	1000	N/A
* -XXXXXX	0.0 [0.00]	"A"	"A"+"B"	"A"+"B"+"C"	1000	N/A

\* = END 2 OPTION ONLY  
 \*\* - FOR EXISTING CUSTOMERS ONLY

TABLE 3

END OPTION	SERIES	GENDER	CONFIGURATION	PLATING			FIGURE
				CENTER CONTACT	OUTER CONTACT	OTHER COMPONENTS	
-74BJ3	75 Ohm BNC	JACK	STRAIGHT BULKHEAD	10u" GOLD	100u" NICKEL	100u" NICKEL	SHT 3, FIG 3
-74BJ2	75 Ohm BNC	JACK	STRAIGHT BULKHEAD	30u" GOLD	100u" NICKEL	100u" NICKEL	
-74SP3	75 Ohm BNC	PLUG	STRAIGHT	10u" GOLD	100u" NICKEL	100u" NICKEL	SHT 3, FIG 4
-D4SP3	75 Ohm BNC	PLUG	STRAIGHT DIE CAST	10u" GOLD	100u" NICKEL	100u" NICKEL	
-78SP4	75 Ohm DIN 1.0 / 2.3	PLUG	STRAIGHT	10u" GOLD	3u" GOLD	100u" NICKEL	SHT 4, FIG 5
-78SP5	75 Ohm DIN 1.0 / 2.3	PLUG	STRAIGHT	10u" GOLD	10u" GOLD	100u" NICKEL	
-78SP6	75 Ohm DIN 1.0 / 2.3	PLUG	STRAIGHT	30u" GOLD	30u" GOLD	100u" NICKEL	
-78SP8	75 Ohm DIN 1.0 / 2.3	PLUG	STRAIGHT	30u" GOLD	3u" GOLD	100u" NICKEL	
-72RP1	75 Ohm MCX	PLUG	RIGHT ANGLE	30u" GOLD	3u" GOLD	3u" GOLD	SHT 4, FIG 6
-72RP2	75 Ohm MCX	PLUG	RIGHT ANGLE	30u" GOLD	3u" GOLD	100u" NICKEL	
-72SP1	75 Ohm MCX	PLUG	STRAIGHT	30u" GOLD	3u" GOLD	3u" GOLD	SHT 5, FIG 7
-72SP2	75 Ohm MCX	PLUG	STRAIGHT	30u" GOLD	3u" GOLD	100u" NICKEL	
** -79RP3	75 Ohm MINI BNC	PLUG	RIGHT ANGLE	10u" GOLD	100u" NICKEL	100u" NICKEL	SHT 5, FIG 8
** -79RP2	75 Ohm MINI BNC	PLUG	RIGHT ANGLE	30u" GOLD	100u" NICKEL	100u" NICKEL	
** -79SP3	75 Ohm MINI BNC	PLUG	STRAIGHT	10u" GOLD	100u" NICKEL	100u" NICKEL	SHT 6, FIG 9
** -79SP2	75 Ohm MINI BNC	PLUG	STRAIGHT	30u" GOLD	100u" NICKEL	100u" NICKEL	
-73SJ4	75 Ohm MMCX	JACK	STRAIGHT	10u" GOLD	3u" GOLD	100u" NICKEL	SHT 6, FIG 10
-73SJ1	75 Ohm MMCX	JACK	STRAIGHT	30u" GOLD	3u" GOLD	3u" GOLD	
-73RP4	75 Ohm MMCX	PLUG	RIGHT ANGLE	10u" GOLD	3u" GOLD	100u" NICKEL	SHT 7, FIG 11
-73RP1	75 Ohm MMCX	PLUG	RIGHT ANGLE	30u" GOLD	3u" GOLD	3u" GOLD	
-73SP4	75 Ohm MMCX	PLUG	STRAIGHT	10u" GOLD	3u" GOLD	100u" NICKEL	SHT 7, FIG 12
-73SP1	75 Ohm MMCX	PLUG	STRAIGHT	30u" GOLD	3u" GOLD	3u" GOLD	
-77RP1	75 Ohm SMB	PLUG	RIGHT ANGLE	30u" GOLD	3u" GOLD	3u" GOLD	SHT 8, FIG 13
-77RP2	75 Ohm SMB	PLUG	RIGHT ANGLE	30u" GOLD	3u" GOLD	100u" NICKEL	
-77SP1	75 Ohm SMB	PLUG	STRAIGHT	30u" GOLD	3u" GOLD	3u" GOLD	SHT 8, FIG 14
-77SP2	75 Ohm SMB	PLUG	STRAIGHT	30u" GOLD	3u" GOLD	100u" NICKEL	
* -SING	SINGLE ENDED	-	-	-	-	-	-
* -XXXXXX	STRIPPED & TINNED	-	-	-	-	-	SHT 1, FIG 2

\* = END 2 OPTION ONLY  
 \*\* - FOR EXISTING CUSTOMERS ONLY

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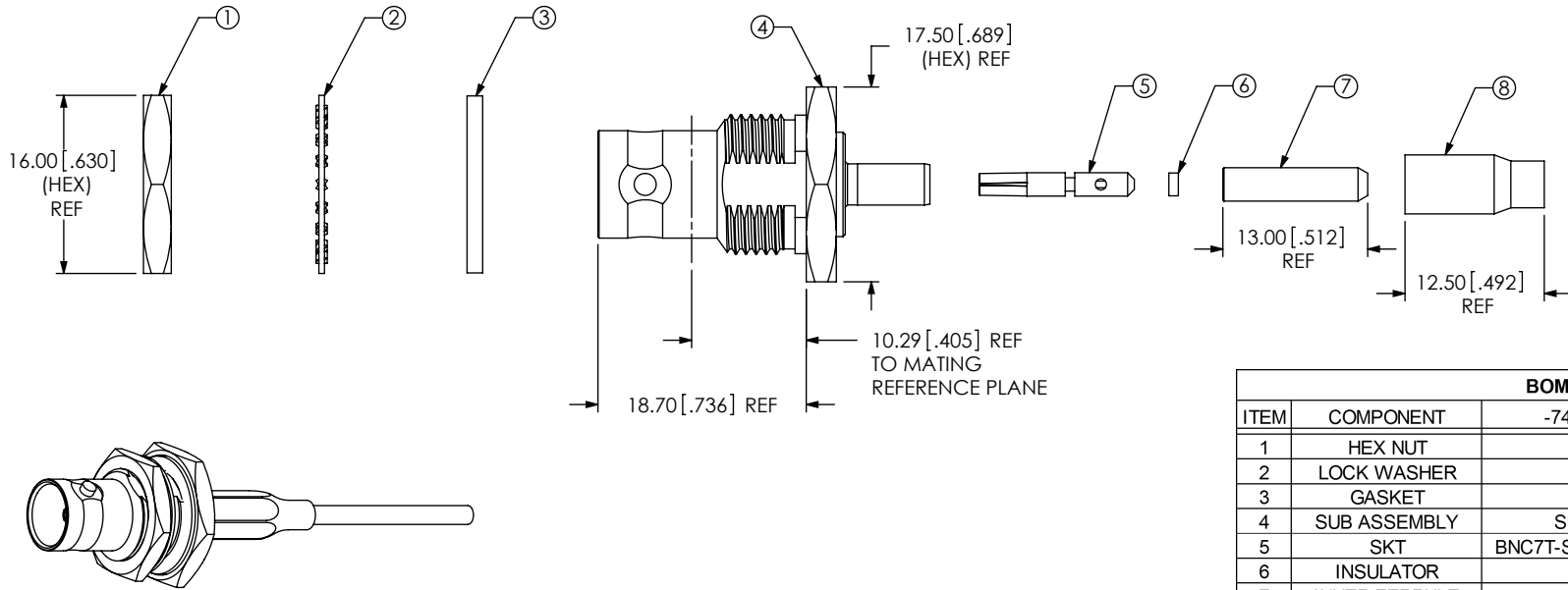
520 PARK EAST BLVD, NEW ALBANY, IN 47150  
 PHONE: 812-944-6733 FAX: 812-948-5047  
 e-Mail info@SAMTEC.com code 55322

DESCRIPTION:  
 RF179 CABLE ASSEMBLY

DWG. NO.  
**RF179-XXXXX-XXXXXX-XXXX**

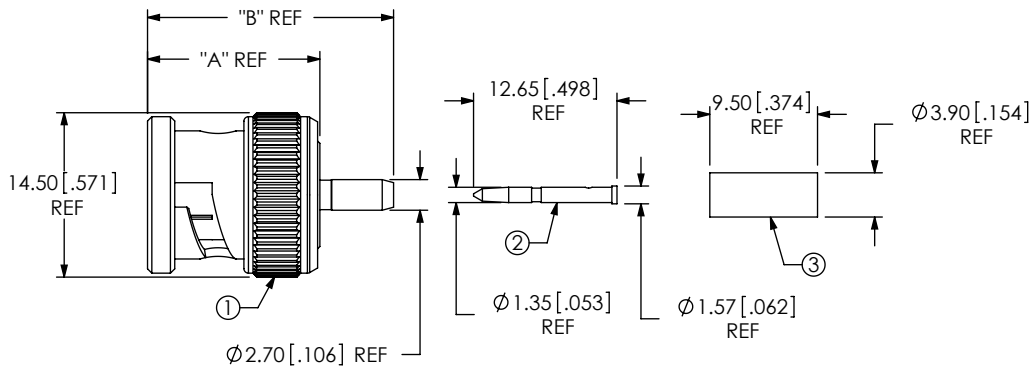
BY: B. RAY 1-30-2007 SHEET 2 OF 10

FIG 3  
-74BJX SHOWN



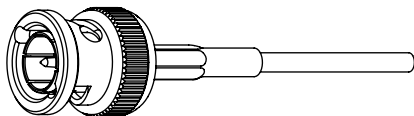
BOM			
ITEM	COMPONENT	-74BJ2	-74BJ3
1	HEX NUT	BTNC-NUT-001-N	
2	LOCK WASHER	BTNC-LWAS-001-N	
3	GASKET	BTNC-GKT-001	
4	SUB ASSEMBLY	SUB-BNC7T-J-C-N-ST-BH3	
5	SKT	BNC7T-SKT-003-H	BNC7T-SKT-003-G
6	INSULATOR	BNC7-INS-001	
7	INNER FERRULE	BTNC-FER-001-N	
8	OUTER FERRULE	BNC-FER-002-N	

FIG 4  
-74SPX / D4SPX SHOWN



BOM 1		
ITEM	COMPONENT	-74SP3 / D4SP3
1	SUB ASSEMBLY	SUB-BNC7T-P-C-N-ST-CA3X (SEE BOM 2)
2	PIN	BNC7T-P-C-G-ST-CA3-PIN
3	FERRULE	SMA-FER-001-N

BOM 2			
OPTION	SUB ASSEMBLY	"A"	"B"
-74SP3	SUB-BNC7T-P-C-N-ST-CA3	15.20 [0.598]	21.70 [0.854]
-D4SP3	SUB-BNC7T-P-C-N-ST-CA3D	15.12 [0.595]	21.62 [0.851]



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DWG. NO.  
**RF179-XXXXX-XXXXXX-XXXX**

BY: B. RAY 1-30-2007 SHEET 3 OF 10

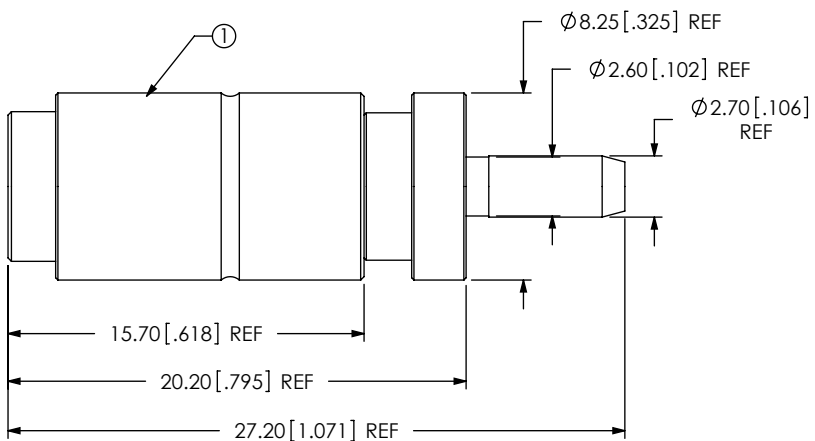
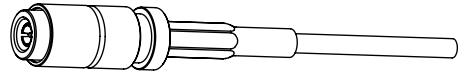
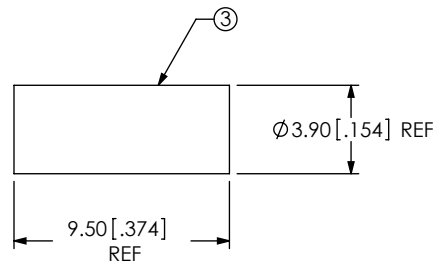
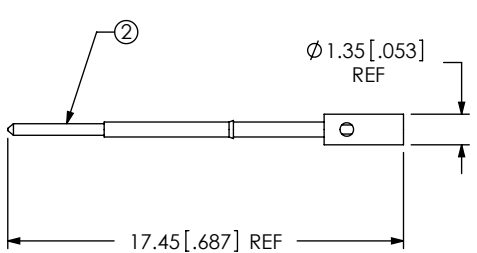
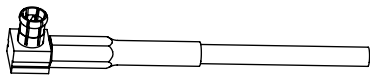
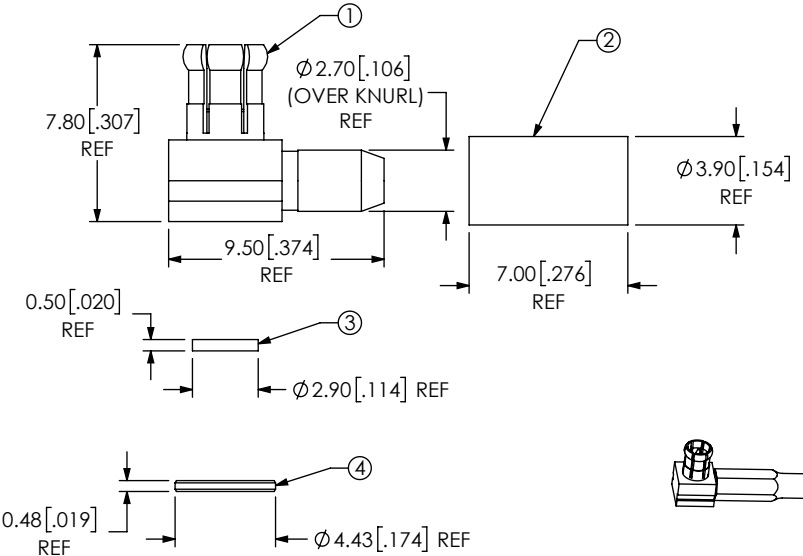


FIG 5  
-78SPX SHOWN



		BOM			
ITEM	COMPONENT	-78SP4	-78SP5	-78SP6	-78SP8
1	SUB ASSEMBLY	SUB-DIN7A-PP-C-FN-ST-CA3	SUB-DIN7A-PP-C-GN-ST-CA3	SUB-DIN7A-PP-C-HN-ST-CA3	SUB-DIN7A-PP-C-FN-ST-CA3
2	PIN	DIN7A-P-C-G-ST-CA3-PIN			
3	FERRULE	SMA-FER-001-N			

FIG 6  
-72RPX SHOWN



		BOM	
ITEM	COMPONENT	-72RP1	-72RP2
1	SUB ASSEMBLY	SUB-MCX7-P-C-H-RA-CA3	SUB-MCX7-P-C-HN-RA-CA3
2	FERRULE	MCX-FER-001-F	MCX-FER-001-N
3	INSULATOR	MCX-INS-001	
4	CAP	MCX-CAP-001-F	MCX-CAP-001-N

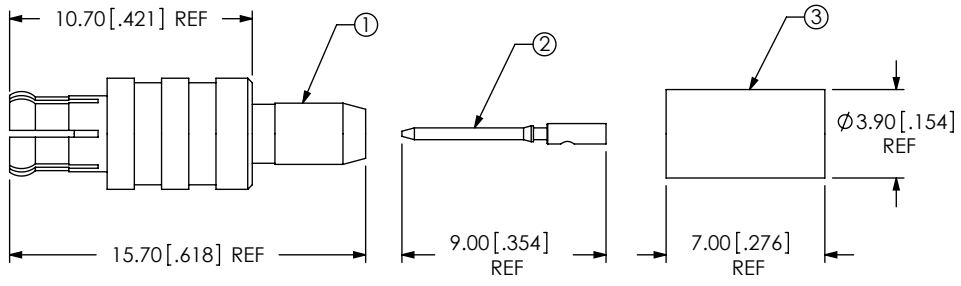
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DESCRIPTION:  
**RF179 CABLE ASSEMBLY**  
 DWG. NO.  
**RF179-XXXXX-XXXXXX-XXXX**  
 BY: B. RAY 1-30-2007 SHEET 4 OF 10

FIG 7  
-72SPX SHOWN



BOM			
ITEM	COMPONENT	-72SP1	-72SP2
1	SUB ASSEMBLY	SUB-MCX7-P-C-F-ST-CA3	SUB-MCX7-P-C-FN-ST-CA3
2	PIN	MCX7-P-C-H-ST-CA3-PIN	
3	OUTER FERRULE	MCX-FER-001-F	MCX-FER-001-N

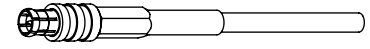
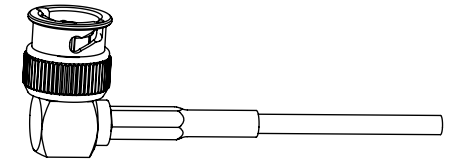
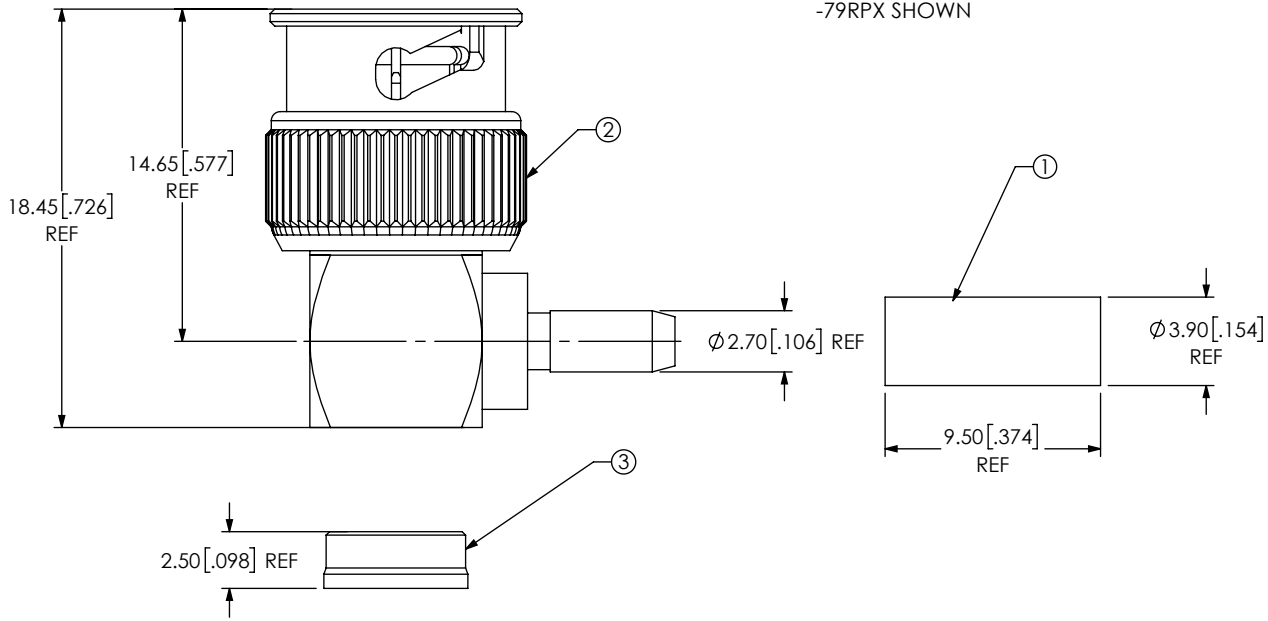


FIG 8  
-79RPX SHOWN



BOM			
ITEM	COMPONENT	-79RP2	-79RP3
1	FERRULE	SMA-FER-001-N	
2	SUB ASSEMBLY	SUB-MBNC7-P-C-HN-RA-CA3	SUB-MBNC7-P-C-GN-RA-CA3
3	CAP	MBNC7-P-C-N-RA-CAP	

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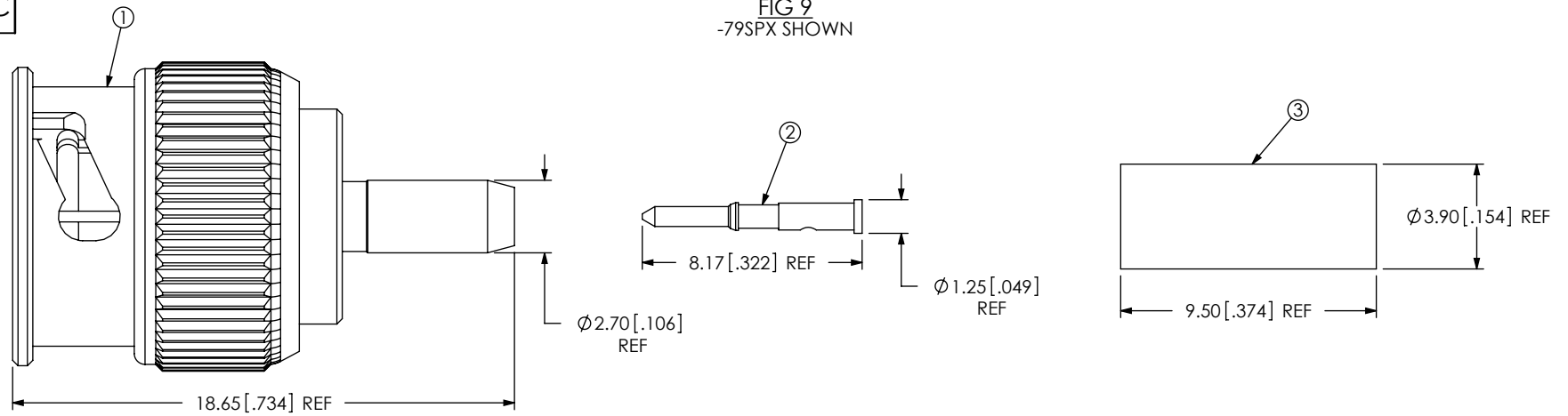


DESCRIPTION:  
RF179 CABLE ASSEMBLY

DWG. NO.  
RF179-XXXX-XXXX-XXXX

BY: B. RAY 1-30-2007 SHEET 5 OF 10

FIG 9  
-79SPX SHOWN



BOM			
ITEM	COMPONENT	-79SP2	-79SP3
1	SUB ASSEMBLY	SUB-MBNC7-P-C-N-ST-CA3	
2	PIN	MBNC7-P-C-H-ST-CA3-PIN	MBNC7-P-C-G-ST-CA3-PIN
3	FERRULE	SMA-FER-001-N	

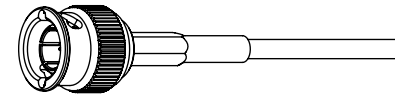
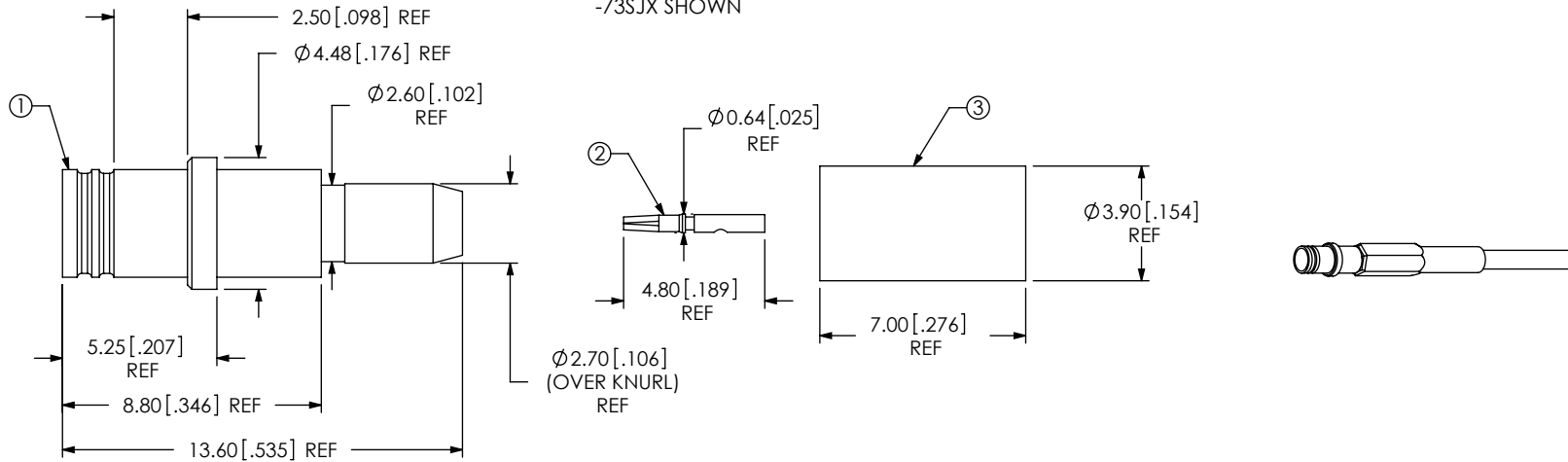


FIG 10  
-73SJX SHOWN



BOM			
ITEM	COMPONENT	-73SJ1	-73SJ4
1	SUB ASSEMBLY	SUB-GRF7V-J-C-FF-ST-CA3	SUB-GRF7V-J-C-FN-ST-CA3
2	SOCKET	GRF7-J-C-H-ST-SKT	GRF7-J-C-G-ST-SKT
3	FERRULE	MCX-FER-001-F	MCX-FER-001-N

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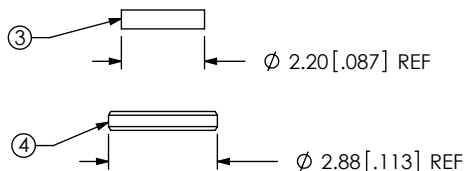
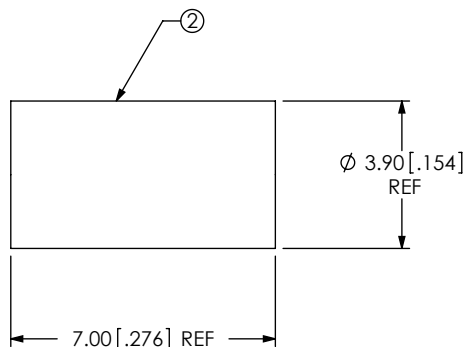
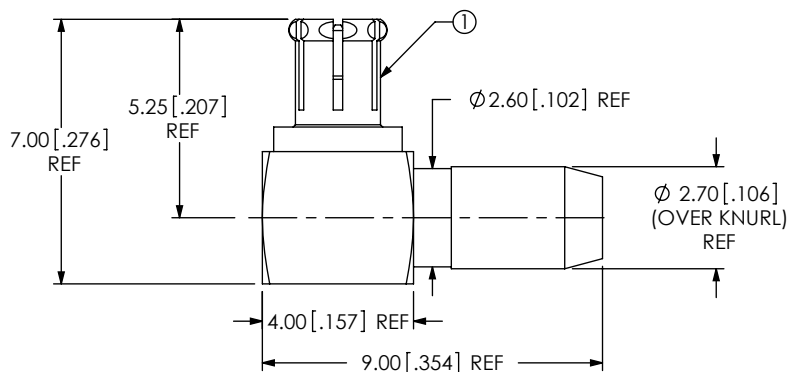
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e-Mail info@SAMTEC.com code 55322

DESCRIPTION:  
RF179 CABLE ASSEMBLY

DWG. NO.  
**RF179-XXXX-XXXX-XXXX**

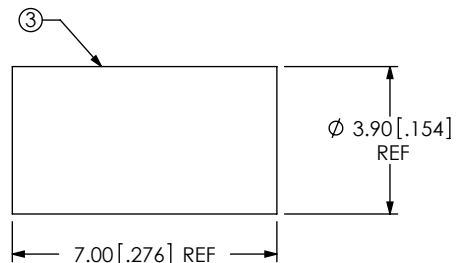
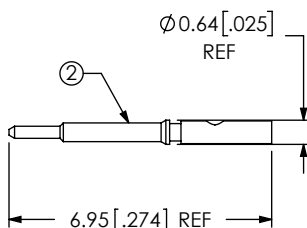
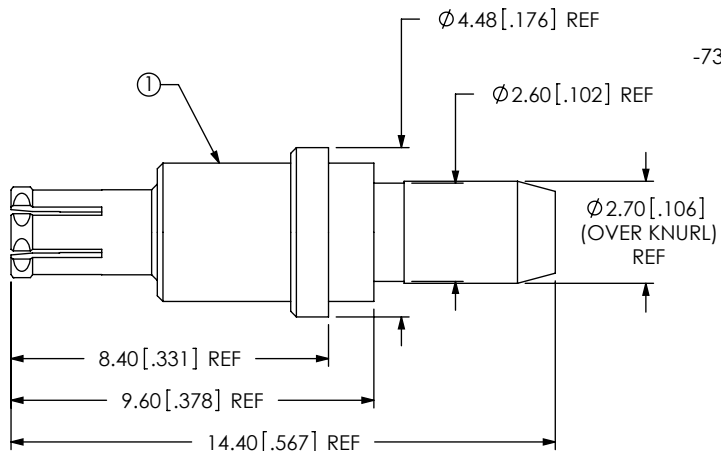
BY: B. RAY 1-30-2007 SHEET 6 OF 10

FIG 11  
-73RPX SHOWN



BOM			
ITEM	COMPONENT	-73RP1	-73RP4
1	SUB ASSEMBLY	SUB-GRF7V-P-C-HF-RA-CA3	SUB-GRF7V-P-C-GF-RA-CA3
2	FERRULE	MCX-FER-001-F	MCX-FER-001-N
3	INSULATOR	MMCX-INS-001	
4	CAP	MMCX-CAP-001-F	MMCX-CAP-001-N

FIG 12  
-73SPX SHOWN



BOM			
ITEM	COMPONENT	-73SP1	-73SP4
1	SUB ASSEMBLY	SUB-GRF7-P-C-H-ST-CA3	SUB-GRF7-P-C-G-ST-CA3
2	PIN	GRF7-P-C-H-ST-PIN	GRF7-P-C-G-ST-PIN
3	FERRULE	MCX-FER-001-F	MCX-FER-001-N

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SHEET SCALE: 5:1



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e-Mail info@SAMTEC.com code 55322

DESCRIPTION:  
RF179 CABLE ASSEMBLY

DWG. NO.  
**RF179-XXXX-XXXX-XXXX**

BY: B. RAY 1-30-2007 SHEET 7 OF 10

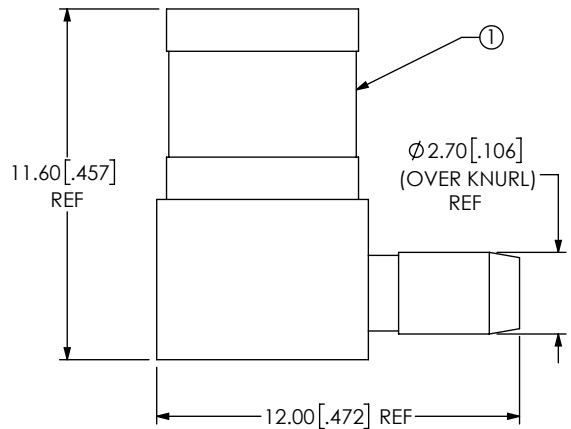
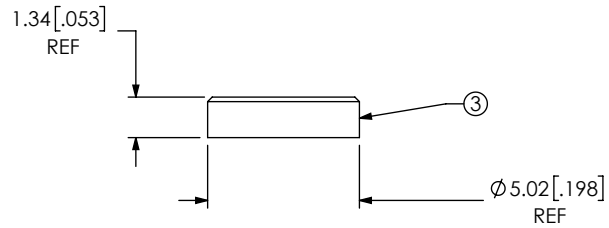
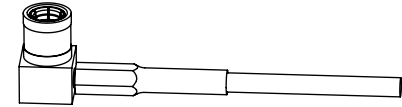
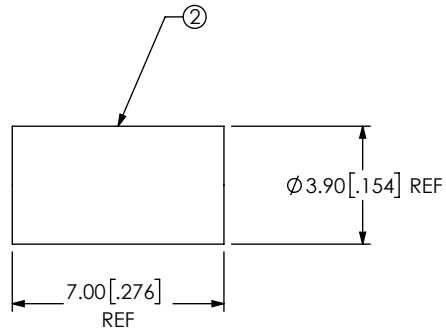
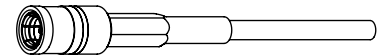
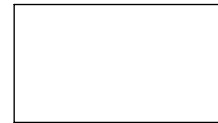
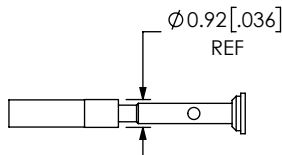
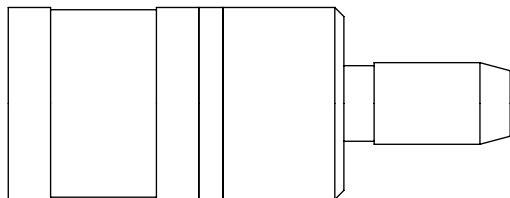


FIG 13  
-77RPX SHOWN



BOM			
ITEM	COMPONENT	-77RP1	-77RP2
1	SUB ASSEMBLY	SUB-SMB7H-P-C-H-RA-CA3	SUB-SMB7H-P-C-HN-RA-CA3
2	FERRULE	MCX-FER-001-F	MCX-FER-001-N
3	CAP	SMB7-CAP-001-F	SMB7-CAP-001-N

FIG 14  
-77SPX SHOWN



BOM			
ITEM	COMPONENT	-77SP2	-77SP1
1	SUB ASSEMBLY	SUB-SMB7H-P-C-FN-ST-CA3	SUB-SMB7H-P-C-F-ST-CA3
2	SOCKET	SMB7H-P-C-H-ST-CA3-SKT	
3	FERRULE	MCX-FER-001-N	MCX-FER-001-F

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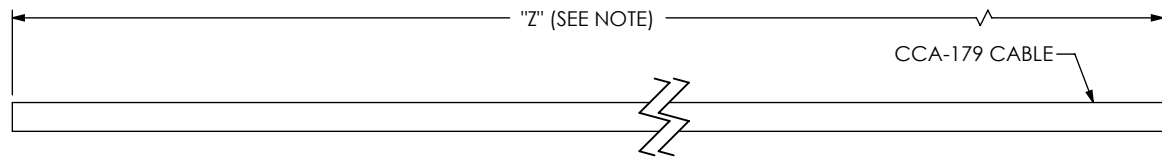
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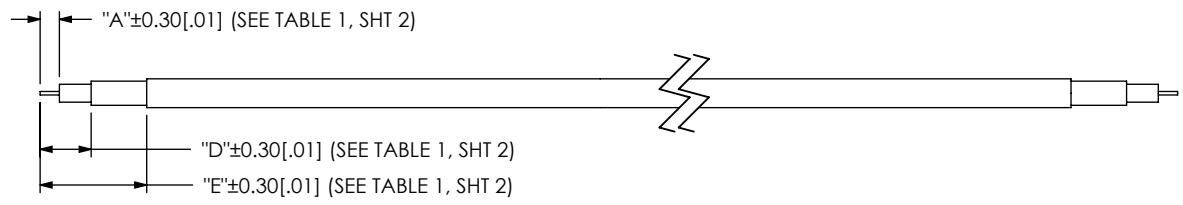
DESCRIPTION:  
RF179 CABLE ASSEMBLY  
DWG. NO.  
RF179-XXXXX-XXXXXX-XXXX  
BY: B. RAY 1-30-2007 SHEET 8 OF 10





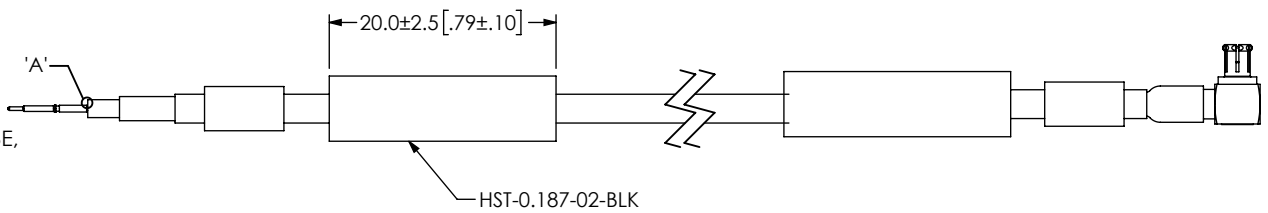
IN PROCESS 1  
CUT CABLE TO LENGTH

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)



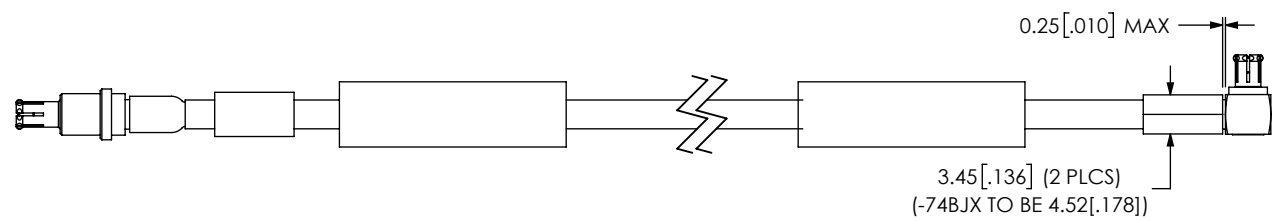
IN PROCESS 2  
STRIP AND TIN INNER CONDUCTOR

STRAIGHT  
IN PROCESS 3  
ADD FERRULE & HEAT SHRINK TUBE,  
SOLDER SIGNAL PIN

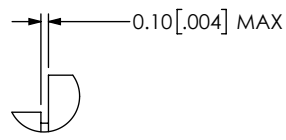


RIGHT ANGLE  
IN PROCESS 3  
ADD FERRULE & HEAT SHRINK TUBE,  
FLARE SHIELD, ADD SUB ASSEMBLY  
(SEE NOTE 6)

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



RIGHT ANGLE  
IN-PROCESS 4  
CRIMP FERRULE



DETAIL 'A'  
SCALE 10:1

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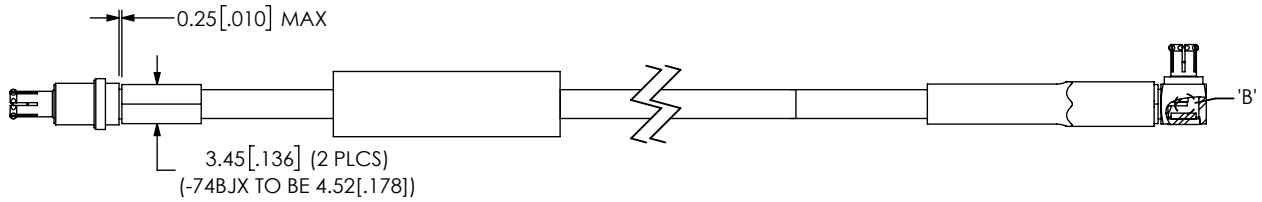
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SHEET SCALE: 3:2



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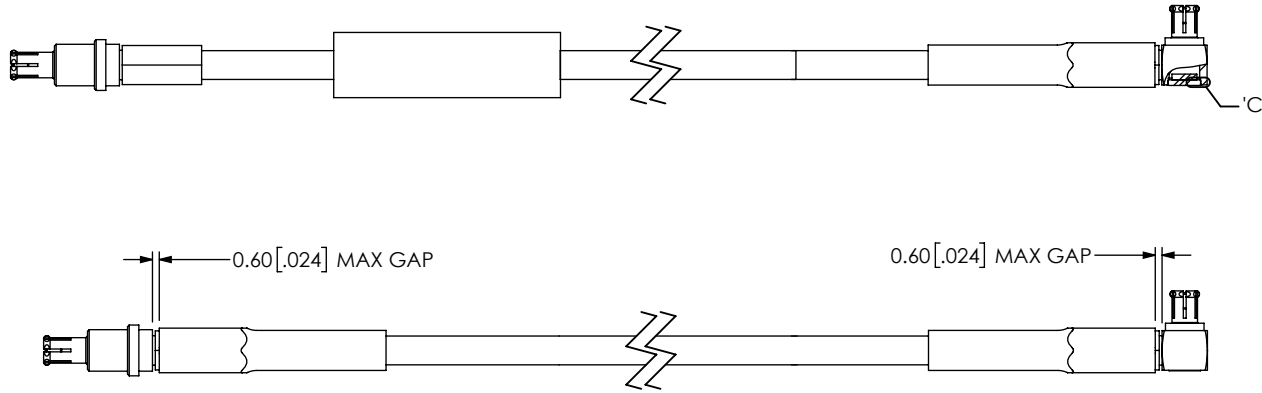
DESCRIPTION: RF179 CABLE ASSEMBLY	
DWG. NO. RF179-XXXXX-XXXXXX-XXXX	
BY: B. RAY	1-30-2007
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STRAIGHT  
IN-PROCESS 5  
CRIMP FERRULE



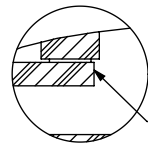
RIGHT ANGLE  
IN-PROCESS 5  
SOLDER SIGNAL PIN

STRAIGHT  
IN PROCESS 6  
ACTIVATE HEAT SHRINK



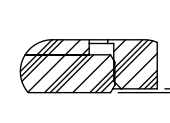
RIGHT ANGLE  
IN-PROCESS 6  
INSERT INSULATOR & CAP

RIGHT ANGLE  
IN PROCESS 7  
ACTIVATE HEAT SHRINK



CABLE CENTER CONDUCTOR  
SHOULD NOT PROTRUDE  
OUTSIDE CONTACT CUP

DETAIL 'B'  
SCALE 10 : 1



0.00±0.10 [.000±.004]

DETAIL 'C'  
SCALE 10 : 1

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DESCRIPTION: RF179 CABLE ASSEMBLY

DWG. NO. RF179-XXXX-XXXX-XXXX

BY: B. RAY 1-30-2007 SHEET 10 OF 10