

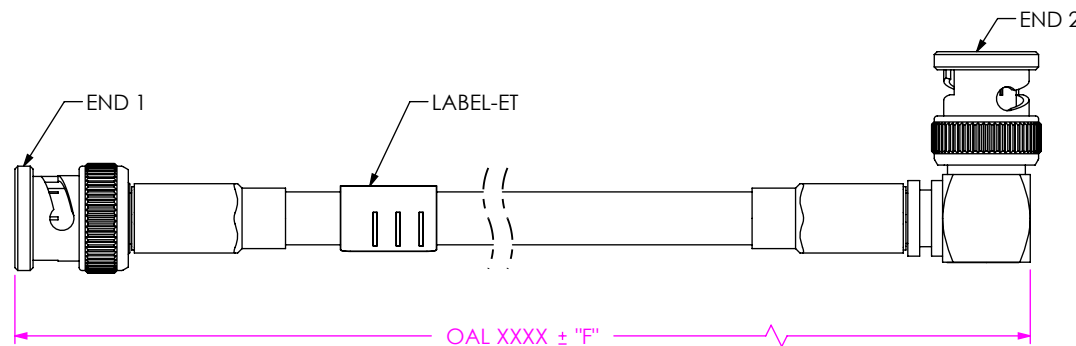
RFX6T-XXXXX-XXXXXX-XXXX

CABLE CALLOUT  
A6T: RG-6 CABLE (CCA-6)  
B6T: BELDEN 1694A CABLE (CCA-1694A)

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**  
RFX6T-74SPX-74RPX-XXXX SHOWN

| TABLE 2                 |                        |
|-------------------------|------------------------|
| LENGTH                  | "F"                    |
| 0300-0500 [11.81-19.69] | +5.0 [.20]/-0.0 [.00]  |
| 0501-1100 [19.72-43.31] | +10.0 [.40]/-0.0 [.00] |
| >1100 [43.31]           | ± 1%                   |



**FIG 2**  
RFX6T-74SPX-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:

1. REPRESENTS A CRITICAL DIMENSION
2. 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.
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 LOCKWASHERS, 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.I. TEST DATA.

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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]

## \* PROPRIETARY NOTE \*

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MATERIAL: DO NOT SCALE DRAWING

SHEET SCALE: 2:1

DIELECTRIC: PTFE  
GASKET: SILICONE  
SPRING: STAINLESS STEEL  
ALL OTHER: BRASS

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520 PARK EAST BLVD, NEW ALBANY, IN 47150  
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DESCRIPTION:  
TRUE 75 OHM, RF6T CABLE ASSEMBLY

DWG. NO.  
RFX6T-XXXXX-XXXXXX-XXXX

BY: R MUSSER 03/27/2009 SHEET 1 OF 8

| TABLE 3       |                         |        |               |                   |                  |                     |              |
|---------------|-------------------------|--------|---------------|-------------------|------------------|---------------------|--------------|
| END<br>OPTION | SERIES                  | GENDER | CONFIGURATION | PLATING           |                  |                     | FIGURE       |
|               |                         |        |               | CENTER<br>CONTACT | OUTER<br>CONTACT | OTHER<br>COMPONENTS |              |
| -74RP3        | 75 OHM BNC              | PLUG   | RIGHT ANGLE   | 10μ" GOLD         | 100μ" NICKEL     | 100μ" NICKEL        | SHT 3, FIG 3 |
| -74SP3        | 75 OHM BNC              | PLUG   | STRAIGHT      | 10μ" GOLD         | 100μ" NICKEL     | 100μ" NICKEL        | SHT 3, FIG 4 |
| -H4SP2        | 75 OHM HIGH DENSITY BNC | PLUG   | STRAIGHT      | 30μ" GOLD         | 100μ" NICKEL     | 100μ" NICKEL        | SHT 4, FIG 5 |
| -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        |              |
| -D4SP3        | 75 OHM BNC (DIE CAST)   | PLUG   | STRAIGHT      | 10μ" GOLD         | 100μ" NICKEL     | 100μ" NICKEL        | SHT 4, FIG 6 |
| -78SP4        | 75 OHM DIN 1.0/2.3      | PLUG   | STRAIGHT      | 10μ" GOLD         | 3μ" GOLD         | 100μ" NICKEL        | SHT 5, FIG 7 |
| -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        |              |
| **~79SP2      | 75 OHM MINI BNC         | PLUG   | STRAIGHT      | 30μ" GOLD         | 100μ" NICKEL     | 100μ" NICKEL        | SHT 5, FIG 8 |
| **~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 6, FIG 9 |
| **~79RP3      | 75 OHM MINI BNC         | PLUG   | RIGHT ANGLE   | 10μ" GOLD         | 100μ" NICKEL     | 100μ" NICKEL        |              |
| *~SING        | SINGLE ENDED            | -      | -             | -                 | -                | -                   | -            |
| *~XXXXXX      | STRIPPED & TINNED       | -      | -             | -                 | -                | -                   | SHT 1, FIG 2 |

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

| TABLE 1       |             |                  |             |                 |      |        |      |
|---------------|-------------|------------------|-------------|-----------------|------|--------|------|
| END<br>OPTION | SUBTRACTOR  | STRIP DIMENSIONS |             |                 |      | HI POT |      |
|               |             | "Y"              | "A"         | "D"             | "E"  | "DC"   | "AC" |
| -74RP3        | 4.7 [0.19]  | 2.3 [0.09]       | 12.1 [0.48] | 18.7 [0.74]     | 1000 | 300    |      |
| -74SP3        | 10.3 [0.41] | 3.2 [0.13]       | 5.4 [0.21]  | 11.9 [0.47]     | 1000 | 300    |      |
| -H4SP2        | 13.4 [0.53] | 2.7 [0.11]       | 4.2 [0.17]  | 11.0 [0.43]     | 1000 | 300    |      |
| -H4SP3        |             |                  |             |                 |      |        |      |
| -H4SP4        |             |                  |             |                 |      |        |      |
| -H4SP8        |             |                  |             |                 |      |        |      |
| -D4SP3        | 10.3 [0.41] | 3.2 [0.13]       | 5.4 [0.21]  | 11.9 [0.47]     | 1000 | 300    |      |
| -78SP4        | 15.7 [0.62] | 2.9 [0.11]       | 5.0 [0.20]  | 12.3 [0.48]     | 1000 | 300    |      |
| -78SP5        |             |                  |             |                 |      |        |      |
| -78SP6        |             |                  |             |                 |      |        |      |
| **~79SP2      | 8.7 [0.34]  | 2.0 [0.08]       | 2.6 [0.10]  | 8.6 [0.34]      | 1000 | 300    |      |
| **~79SP3      |             |                  |             |                 |      |        |      |
| **~79RP2      | 3.0 [0.12]  | 1.7 [0.07]       | 7.1 [0.28]  | 13.7 [0.54]     | 1000 | 300    |      |
| **~79RP3      |             |                  |             |                 |      |        |      |
| *-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

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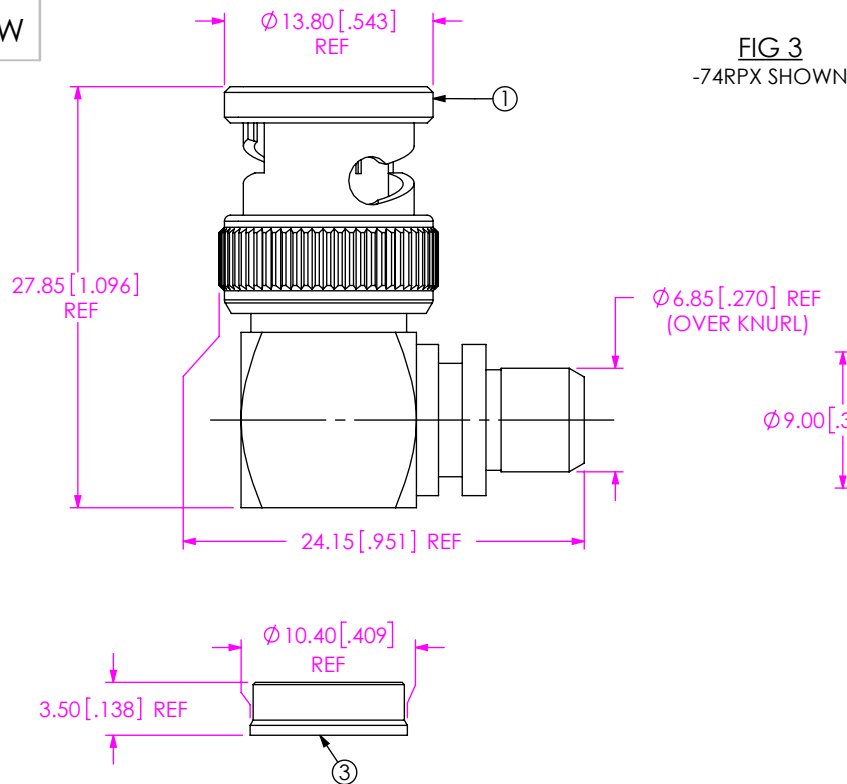


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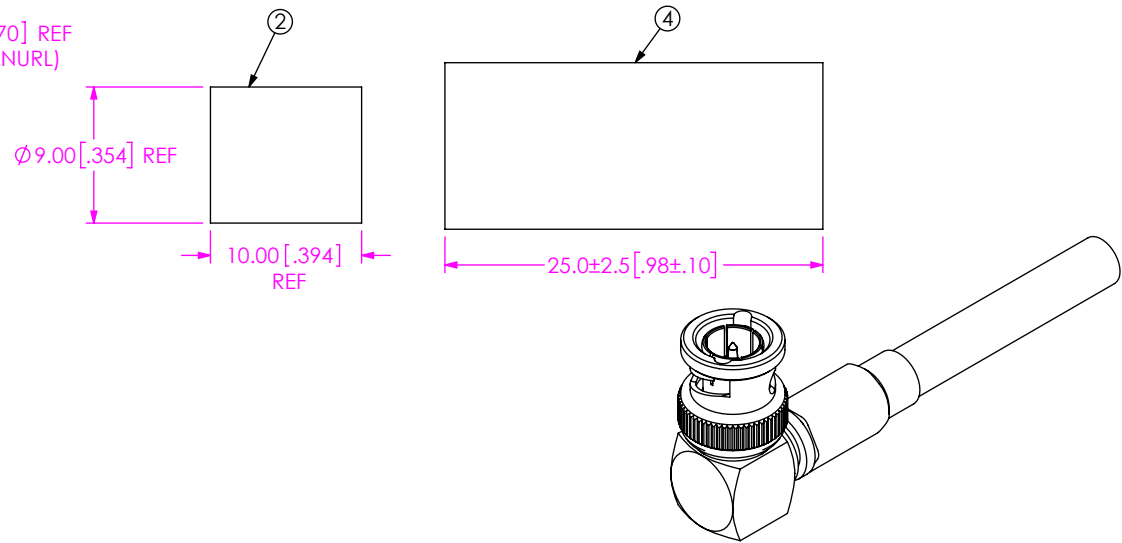
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DWG. NO.  
**RFX6T-XXXXXX-XXXXXX-XXXX**

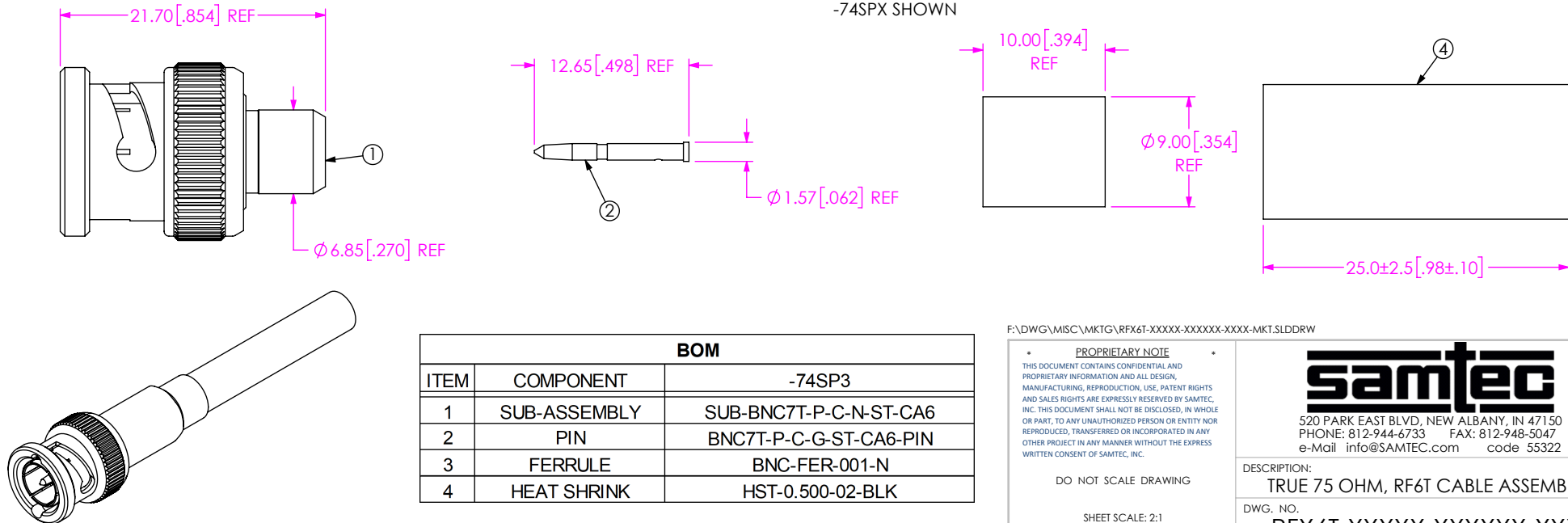
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| BOM  |              |                         |
|------|--------------|-------------------------|
| ITEM | COMPONENT    | -74RP3                  |
| 1    | SUB ASSEMBLY | SUB-BNC7T-P-C-GN-RA-CA6 |
| 2    | FERRULE      | BNC-FER-001-N           |
| 3    | CAP          | BNC7T-P-C-N-RA-CA6-CAP  |
| 4    | HEAT SHRINK  | HST-0.500-02-BLK        |



**FIG 4**  
-74SPX SHOWN



| BOM  |              |                        |
|------|--------------|------------------------|
| ITEM | COMPONENT    | -74SP3                 |
| 1    | SUB-ASSEMBLY | SUB-BNC7T-P-C-N-ST-CA6 |
| 2    | PIN          | BNC7T-P-C-G-ST-CA6-PIN |
| 3    | FERRULE      | BNC-FER-001-N          |
| 4    | HEAT SHRINK  | HST-0.500-02-BLK       |

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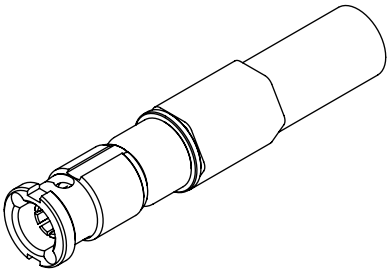
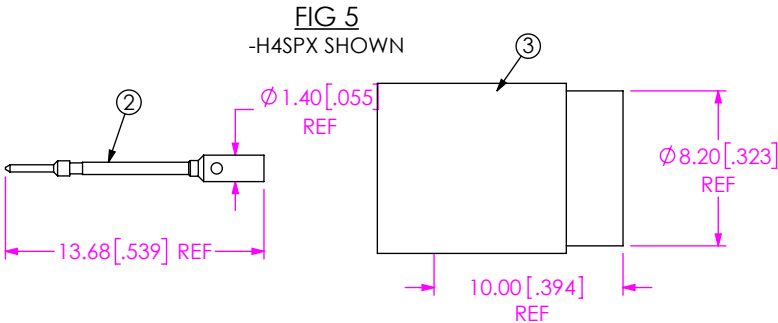
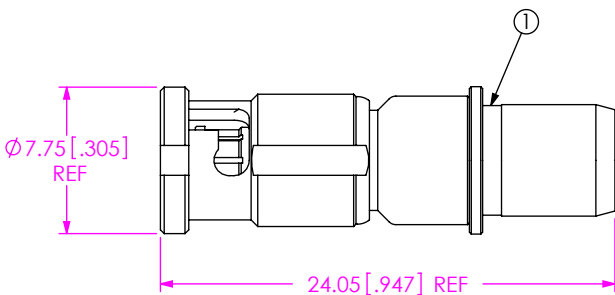
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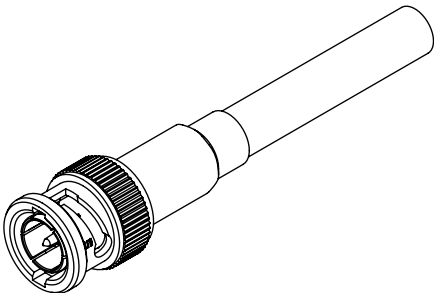
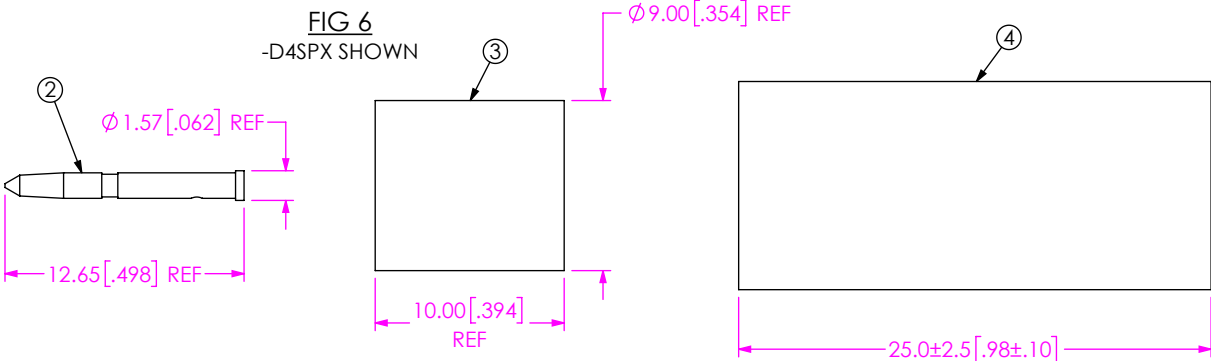
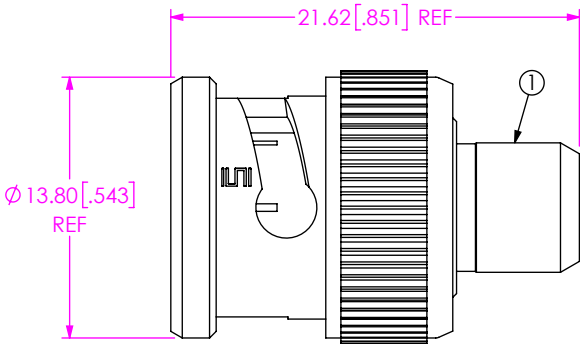
DESCRIPTION:  
TRUE 75 OHM, RF6T CABLE ASSEMBLY

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RF6T-XXXX-XXXX-XXXX

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| BOM  |              |                         |                         |                         |                         |
|------|--------------|-------------------------|-------------------------|-------------------------|-------------------------|
| ITEM | COMPONENT    | -H4SP2                  | -H4SP3                  | -H4SP4                  | -H4SP8                  |
| 1    | SUB ASSEMBLY | SUB-HDBNC-P-C-NN-ST-CA6 | SUB-HDBNC-P-C-NN-ST-CA6 | SUB-HDBNC-P-C-FN-ST-CA6 | SUB-HDBNC-P-C-FN-ST-CA6 |
| 2    | PIN          | HDBNC-P-C-H-ST-CA6-PIN  | HDBNC-P-C-G-ST-CA6-PIN  | HDBNC-P-C-G-ST-CA6-PIN  | HDBNC-P-C-H-ST-CA6-PIN  |
| 3    | FERRULE      | HDBNC-FER-001-N         |                         |                         |                         |



| BOM  |              |                         |
|------|--------------|-------------------------|
| ITEM | COMPONENT    | -D4SP3                  |
| 1    | SUB-ASSEMBLY | SUB-BNC7T-P-C-N-ST-CA6D |
| 2    | PIN          | BNC7T-P-C-G-ST-CA6-PIN  |
| 3    | FERRULE      | BNC-FER-001-N           |
| 4    | HEAT SHRINK  | HST-0.500-02-BLK        |

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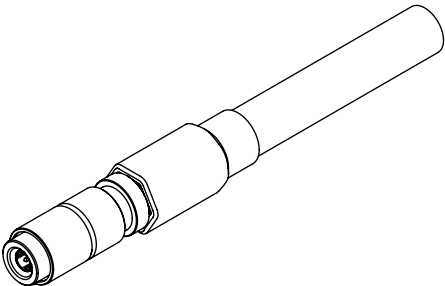
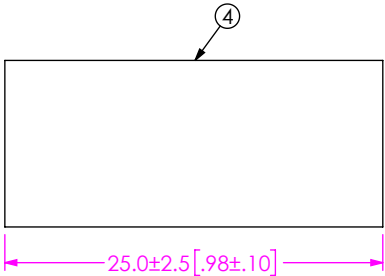
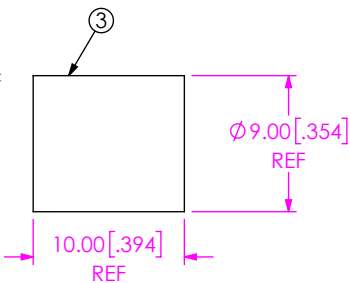
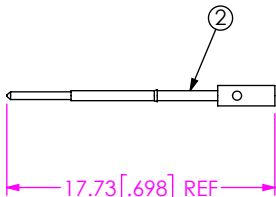
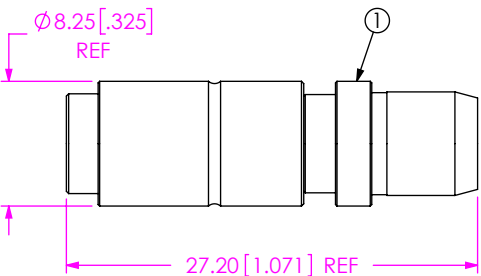
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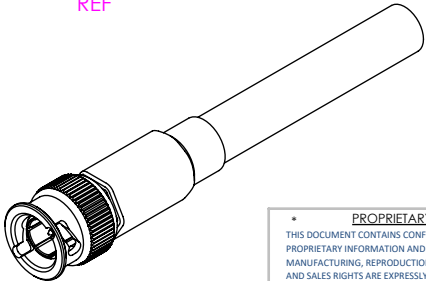
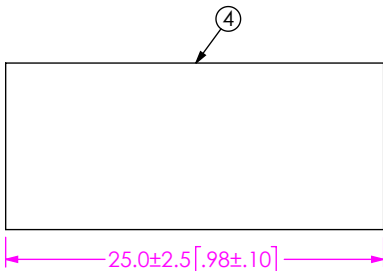
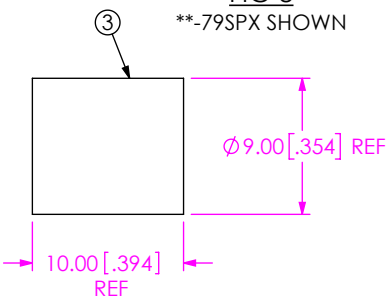
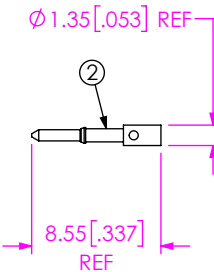
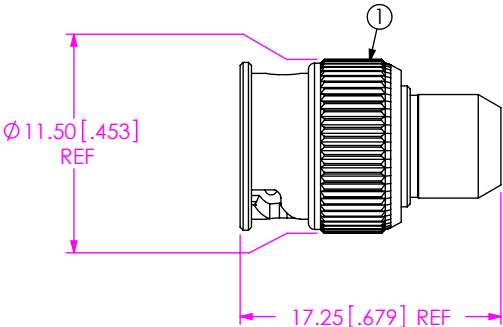
DESCRIPTION:  
TRUE 75 OHM, RF6T CABLE ASSEMBLY

DWG. NO.  
RFX6T-XXXXXX-XXXXXX-XXXX

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| BOM  |              |                          |                          |                          |
|------|--------------|--------------------------|--------------------------|--------------------------|
| ITEM | COMPONENT    | -78SP4                   | -78SP5                   | -78SP6                   |
| 1    | SUB ASSEMBLY | SUB-DIN7A-PP-C-FN-ST-CA6 | SUB-DIN7A-PP-C-GN-ST-CA6 | SUB-DIN7A-PP-C-HN-ST-CA6 |
| 2    | PIN          | DIN7A-P-C-G-ST-CA6-PIN   | DIN7A-P-C-G-ST-CA6-PIN   | DIN7A-P-C-H-ST-CA6-PIN   |
| 3    | FERRULE      | BNC-FER-001-N            |                          |                          |
| 4    | HEAT SHRINK  | HST-0.500-02-BLK         |                          |                          |



| BOM  |              |                        |                        |
|------|--------------|------------------------|------------------------|
| ITEM | COMPONENT    | **79SP2                | **79SP3                |
| 1    | SUB ASSEMBLY | SUB-MBNC7-P-C-N-ST-CA6 |                        |
| 2    | PIN          | MBNC7-P-C-H-ST-CA6-PIN | MBNC7-P-C-G-ST-CA6-PIN |
| 3    | FERRULE      | BNC-FER-001-N          |                        |
| 4    | HEAT SHRINK  | HST-0.500-02-BLK       |                        |

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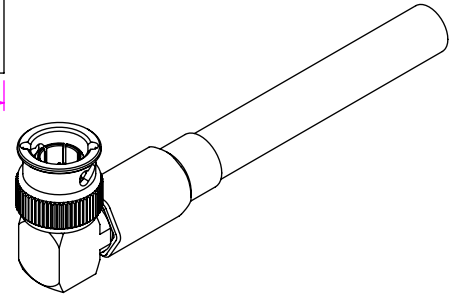
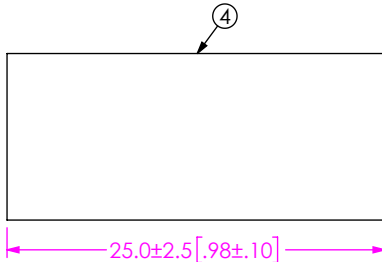
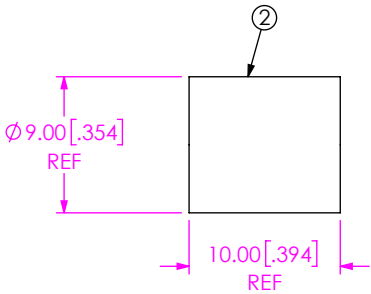
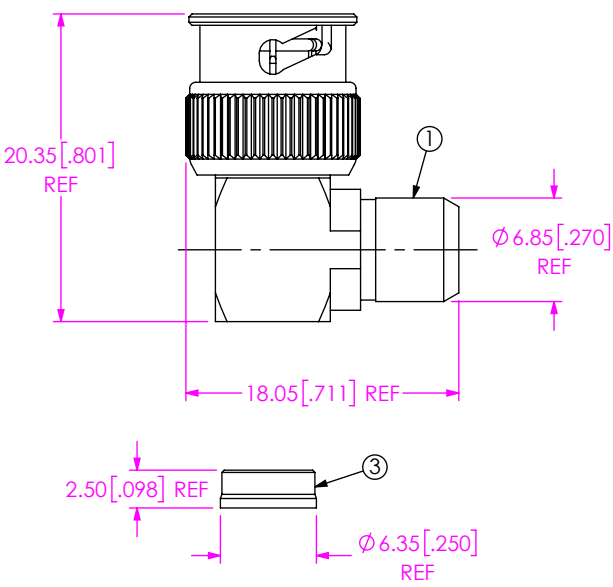
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DWG. NO.  
RFX6T-XXXXXX-XXXXXX-XXXX  
BY: R MUSSER 03/27/2009 SHEET 5 OF 8

FIG 9  
\*\*-79RPX SHOWN



| BOM  |              |                         |                         |
|------|--------------|-------------------------|-------------------------|
| ITEM | COMPONENT    | ** -79RP2               | ** -79RP3               |
| 1    | SUB ASSEMBLY | SUB-MBNC7-P-C-HN-RA-CA6 | SUB-MBNC7-P-C-GN-RA-CA6 |
| 2    | FERRULE      | BNC-FER-001-N           |                         |
| 3    | CAP          | MBNC7-P-C-N-RA-CAP      |                         |
| 4    | HEAT SHRINK  | HST-0.500-02-BLK        |                         |

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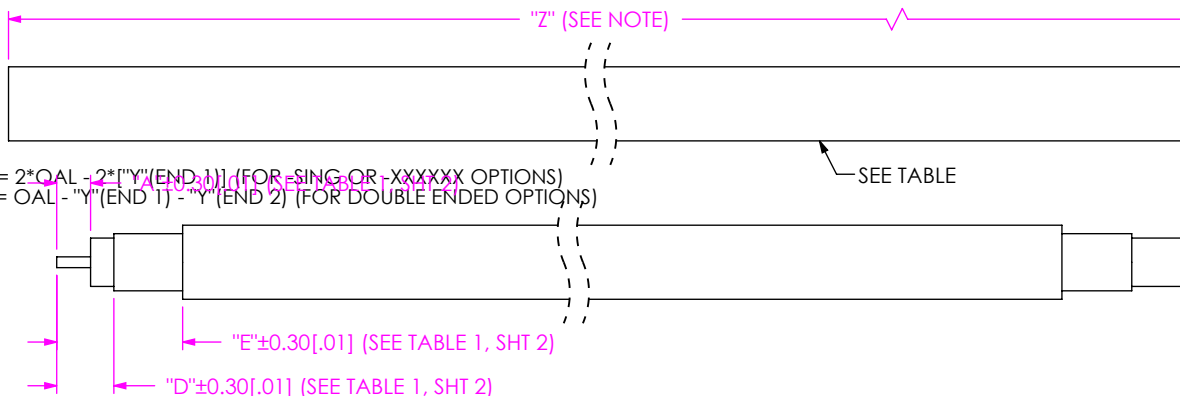
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DWG. NO.  
RFX6T-XXXXXX-XXXXXX-XXXX

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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)

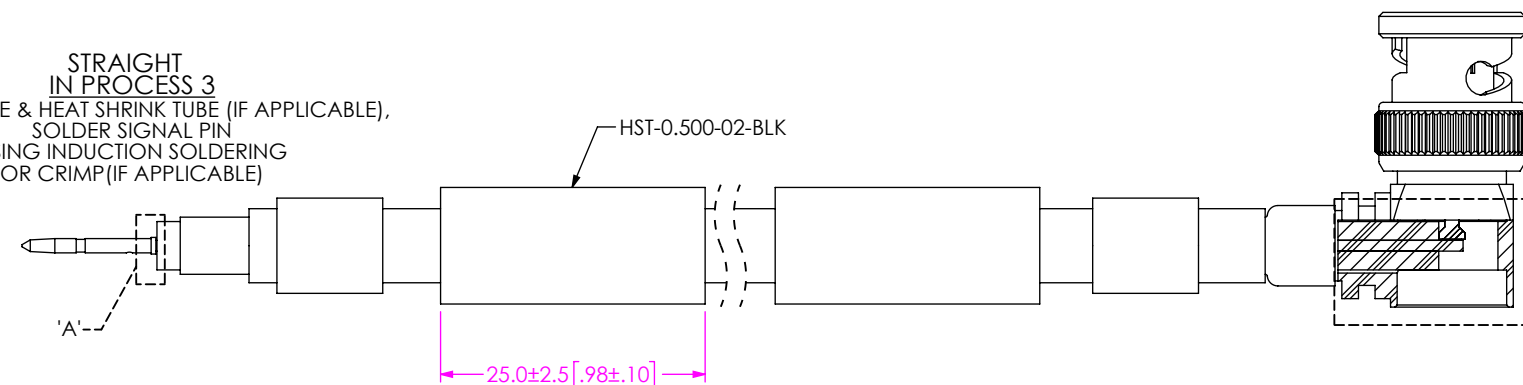


| TABLE         |             |
|---------------|-------------|
| CABLE CALLOUT | PART NUMBER |
| RFA6T         | CCA-6       |
| RFB6T         | CCA-1694A   |

IN PROCESS 2  
STRIP AND TIN INNER CONDUCTOR

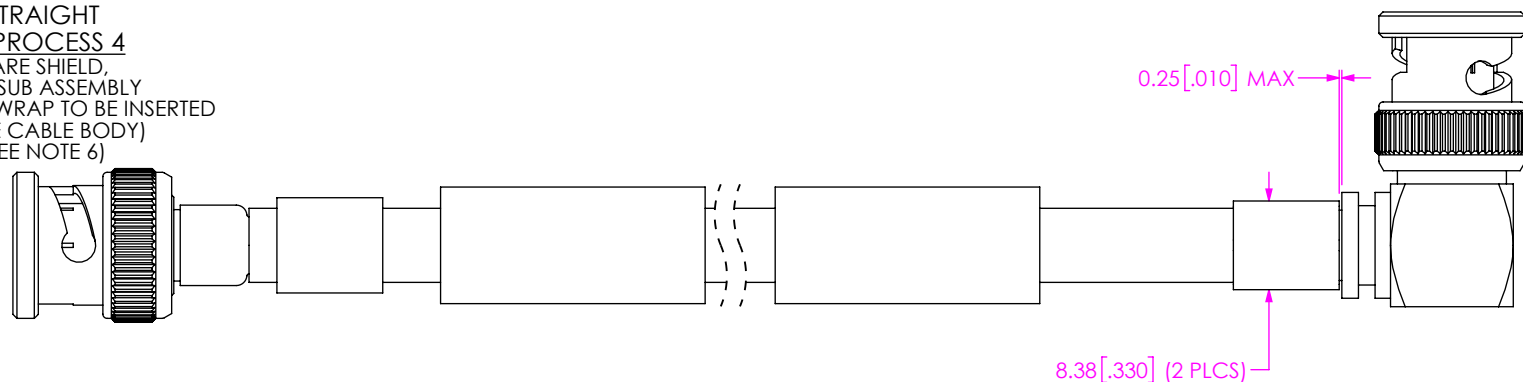
STRAIGHT  
IN PROCESS 3  
ADD FERRULE & HEAT SHRINK TUBE (IF APPLICABLE),  
SOLDER SIGNAL PIN  
USING INDUCTION SOLDERING  
OR CRIMP (IF APPLICABLE)

RIGHT ANGLE  
IN PROCESS 3  
ADD FERRULE & HEAT SHRINK TUBE,  
FLARE SHIELD, ADD SUB ASSEMBLY  
(CABLE FOIL WRAP TO BE INSERTED  
INSIDE CABLE BODY)  
(SEE NOTE 6)

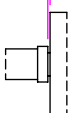


STRAIGHT  
IN PROCESS 4  
FLARE SHIELD,  
ADD SUB ASSEMBLY  
(CABLE FOIL WRAP TO BE INSERTED  
INSIDE CABLE BODY)  
(SEE NOTE 6)

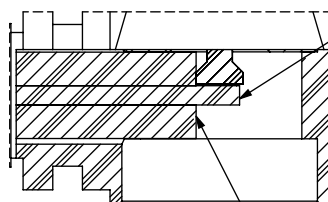
RIGHT ANGLE  
IN-PROCESS 4  
CRIMP FERRULE &  
SOLDER SIGNAL PIN



0.10[.004] MAX



DETAIL 'A'  
SCALE 3 : 1



CABLE CENTER CONDUCTOR  
SHOULD NOT PROTRUDE  
OUTSIDE CONTACT CUP

END OF CABLE DIELECTRIC  
SHOULD SEAT AGAINST  
CONTACT CUP

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DO NOT SCALE DRAWING  
DETAIL 'B'  
SCALE 2.5 : 1

**samtec**

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

DESCRIPTION:  
TRUE 75 OHM, RF6T CABLE ASSEMBLY

DWG. NO.  
RFX6T-XXXXXX-XXXXXX-XXXX

BY: R MUSSER 03/27/2009 SHEET 7 OF 8

STRAIGHT  
IN-PROCESS 5  
CRIMP FERRULE

STRAIGHT  
IN PROCESS 6  
ACTIVATE HEAT SHRINK  
(IF APPLICABLE)

RIGHT ANGLE  
IN-PROCESS 5  
INSERT CAP

RIGHT ANGLE  
IN-PROCESS 6  
ACTIVATE HEAT SHRINK

0.25[.010] MAX

8.38[.330] (2 PLCS)  
(-H4SPX TO BE 7.25[.285])  
(-78SPX TO BE 8.26[.325])

0.6[.02] MAX

0.6[.02] MAX

0.00±0.10[.000±.004]

F:\DWG\MISC\MKTG\RF6T-XXXXX-XXXXX-XXXX-MKT.SLDDRW

|                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                                                                                                                       |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------|
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|                                                                                                                                                                                                                                                                                                                                                                                                                                                            | <p>DESCRIPTION:<br/>TRUE 75 OHM, RF6T CABLE ASSEMBLY</p>                                                                                              |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                            | <p>DWG. NO.<br/>RF6T-XXXXX-XXXXXX-XXXX</p> <p>BY: R MUSSER 03/27/2009 SHEET 8 OF 8</p>                                                                |