

Pb THIS PRODUCT MANUFACTURED WITH LEAD-FREE PROCESSING

DESIGNED & DIMENSIONED IN MILLIMETERS [INCHES]

DO NOT SCALE FROM THIS PRINT

RFB8T-XXXXX-XXXXXX-XXXX

CABLE CALLOUT
B8T: BELDEN 1855A CABLE (CCA-1855A)

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)

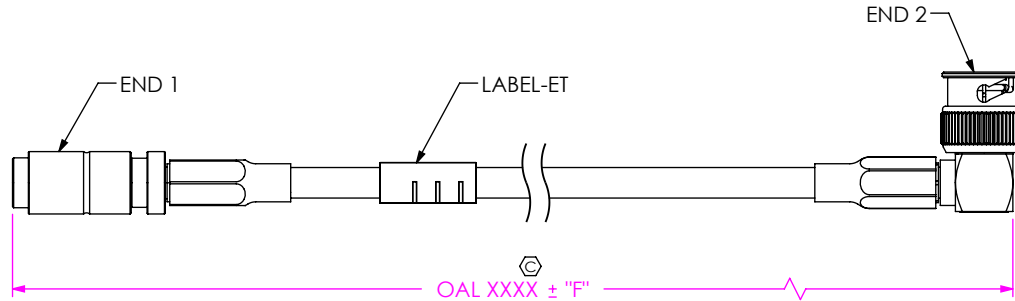


FIG 1
RFB8T-78SPX-79RPX-XXXX SHOWN

| 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% |

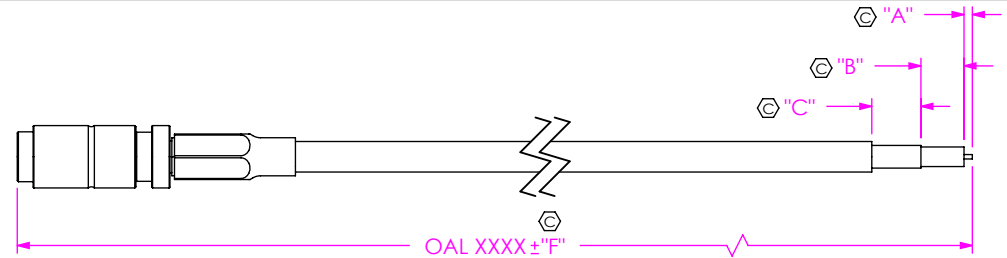


FIG 2
RFB8T-78SPX-172849-XXXX SHOWN (SEE NOTES 5 & 7)

"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:

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.

F:\DWG\MISC\MKTG\RFB8T-XXXXX-XXXXXX-XXXX-MKT.SLDDRW

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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MATERIAL: DO NOT SCALE DRAWING

SHEET SCALE: 2:1

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

samtec

520 PARK EAST BLVD. NEW ALBANY, IN 47150
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DESCRIPTION:
TRUE 75 OHM, RF8T CABLE ASSEMBLY

DWG. NO.
RFB8T-XXXXX-XXXXXX-XXXX

BY:J. BROWNING 05/13/2010 SHEET 1 OF 6

TABLE 3

| END 2 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 | - | - | - | - | - | - |
| *-XXXXXX | STRIPPED & TINNED | - | - | - | - | - | SHT 1, FIG 2 |

* = END 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 |
| *-XXXXXX | 0.0 [0.00] | "A" | "A" + "B" | "A" + "B" + "C" | 1000 | N/A |

* = END 2 OPTION ONLY

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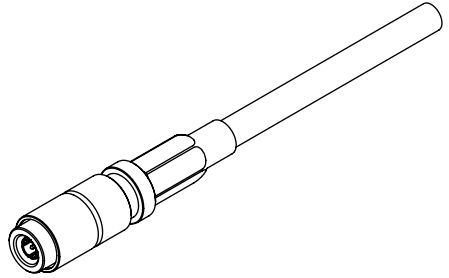
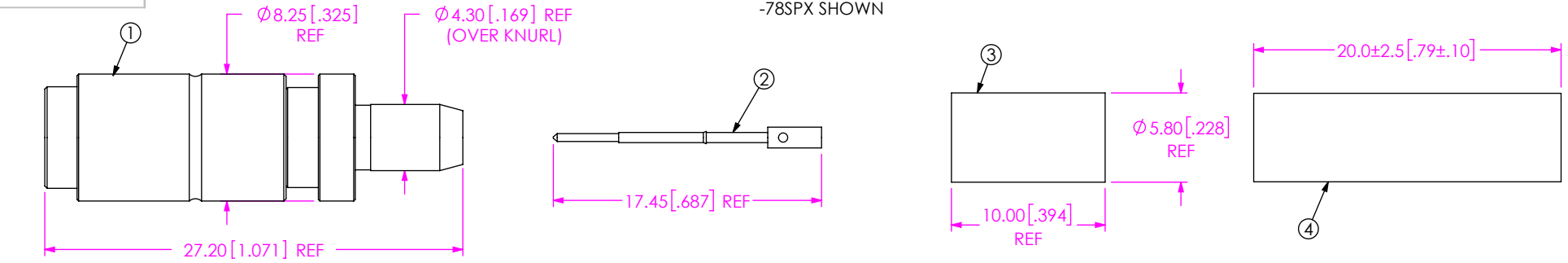
SHEET SCALE: 2:1

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 TRUE 75 OHM, RF8T CABLE ASSEMBLY

DWG. NO.
RFB8T-XXXXX-XXXXXX-XXXX

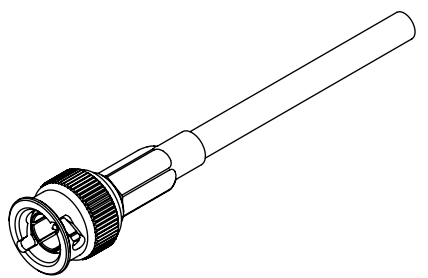
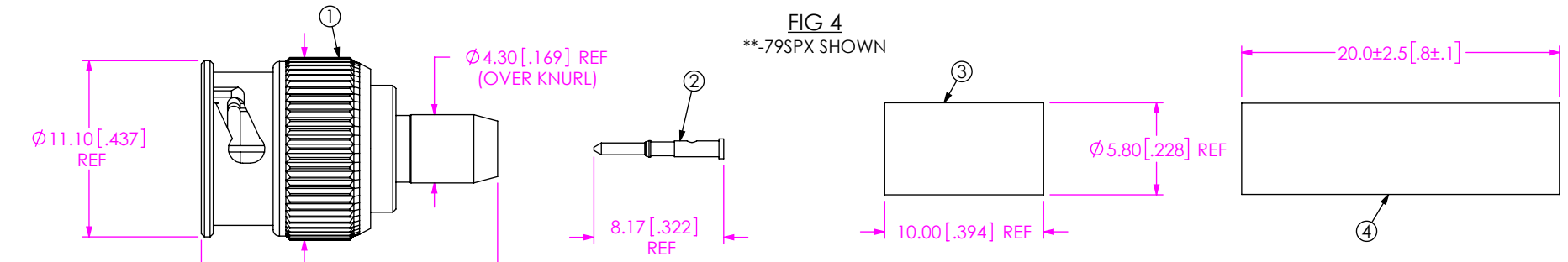
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FIG 3
-78SPX SHOWN



| 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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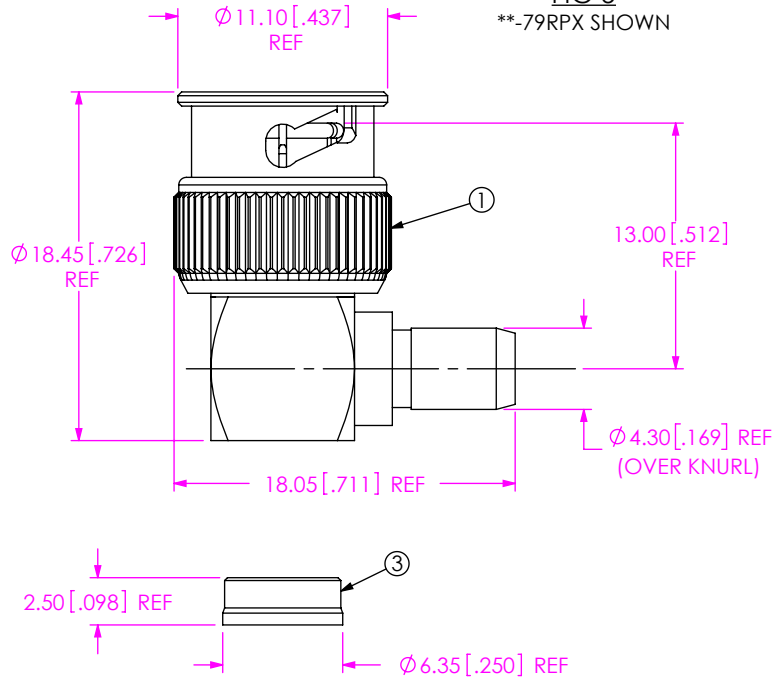
SHEET SCALE: 2.5:1

DESCRIPTION:
TRUE 75 OHM, RF8T CABLE ASSEMBLY

DWG. NO.
RFB8T-XXXXX-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

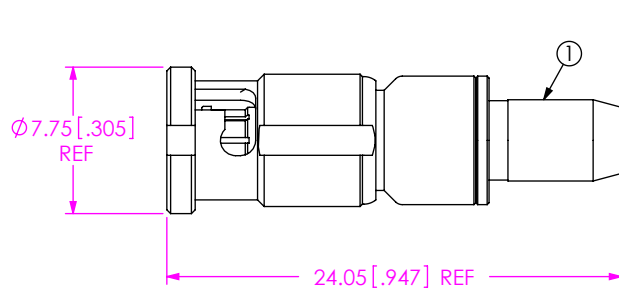
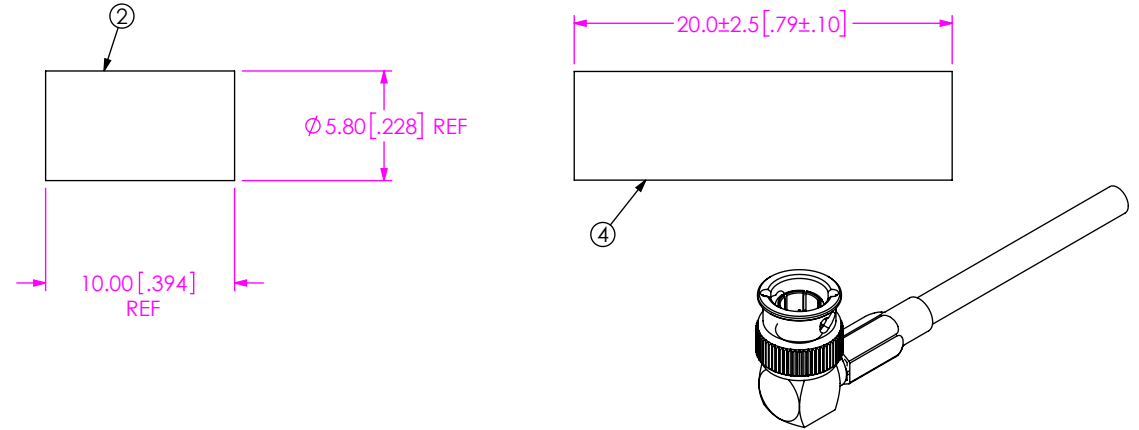
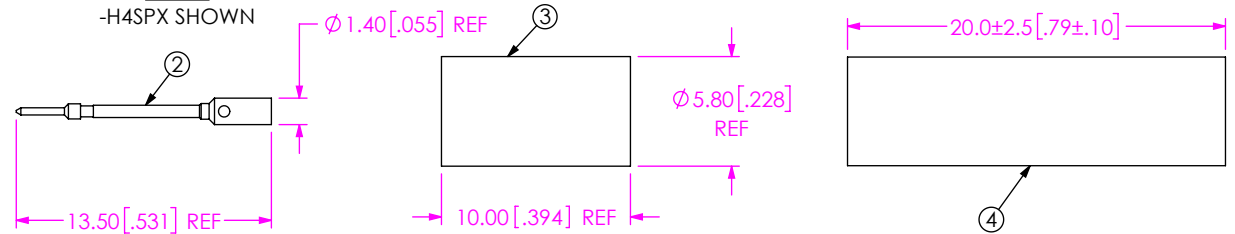
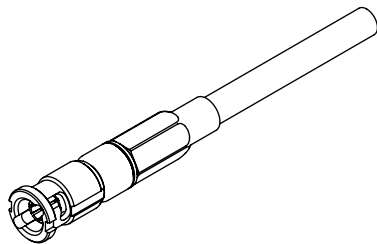


FIG 6
-H4SPX SHOWN



| 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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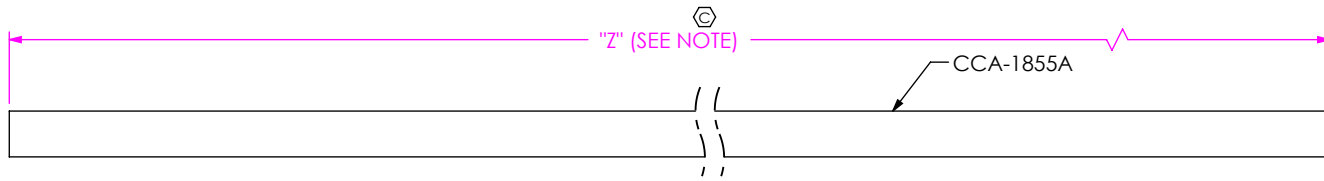
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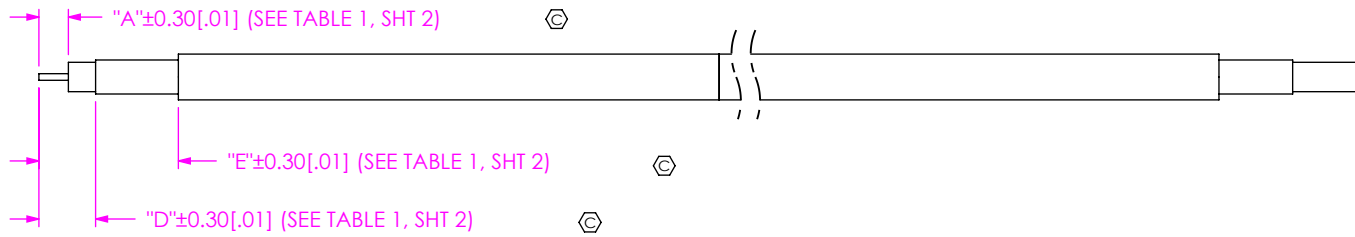
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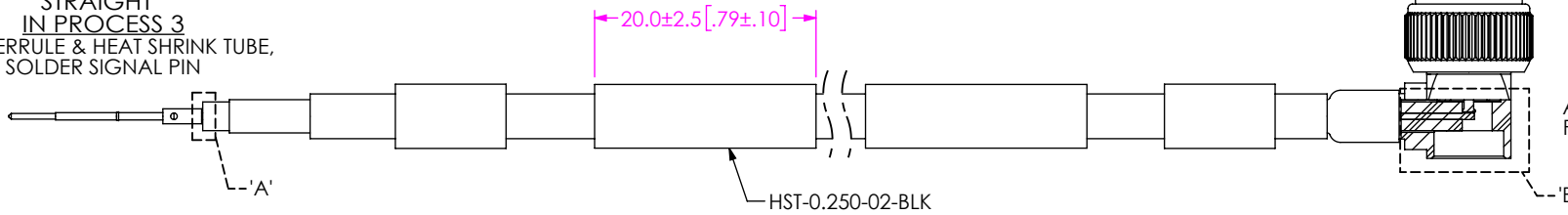
IN PROCESS 1
CUT CABLE TO LENGTH

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



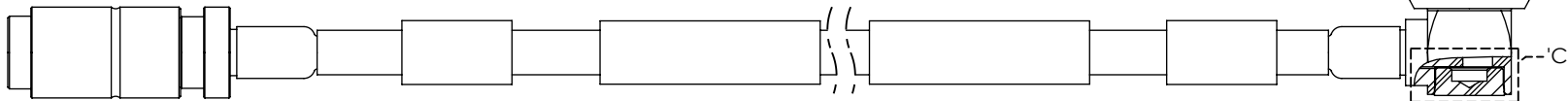
IN PROCESS 2
STRIP AND TIN INNER CONDUCTOR

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,
AND SOLDER SIGNAL PIN
(SEE NOTE 6)

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

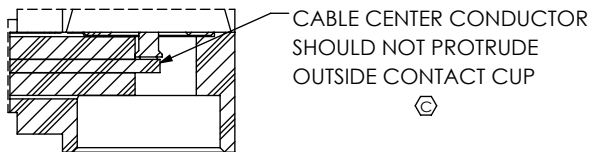


RIGHT ANGLE
IN-PROCESS 4
INSERT CAP

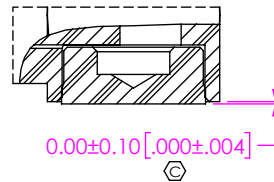
0.10[.004] MAX



DETAIL 'A'
SCALE 3 : 1



DETAIL 'B'
SCALE 3 : 1



DETAIL 'C'
SCALE 3 : 1

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SHEET SCALE: 1.5:1

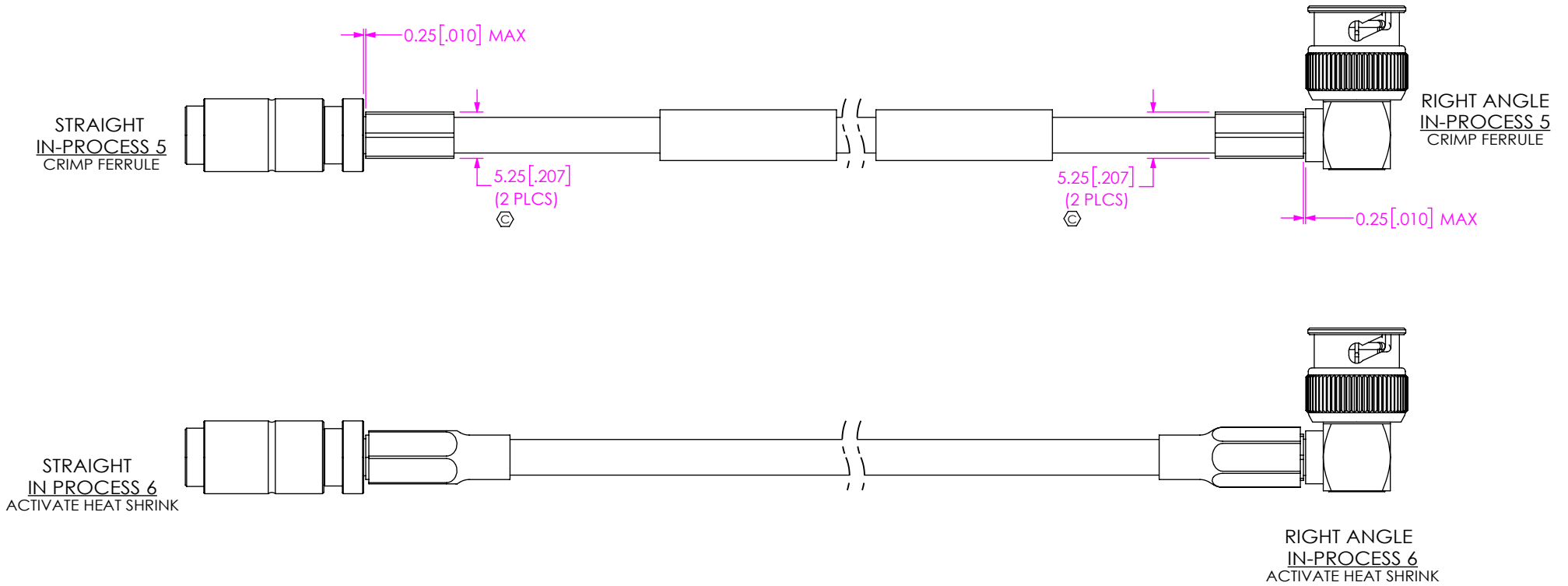
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