

REVISION J

RCU-X-XX.XX-AMS-AMS BOM			
ITEM NO.	PART NUMBER	QTY	DESCRIPTION
1	UCA-03-01	XX.XX	CABLE
2	USBP-A-01-G-B-01	2	CONNECTOR
3	LTC-14-02-N	4	LATCH
4	MD-PTC-RF-640-BK	1	PREMOLD
5	MD-NYL-ZY-70G13-BK	1	OVERMOLD
6	LABEL-ET	1	LABEL

DESIGNED & DIMENSIONED IN MILLIMETERS[INCHES]

RCU-X-XX.XX-XXX-XXX

PLATING SPECIFICATION

-G: .000030 GOLD ON
CONTACT AREAS, NICKEL
ON SHELLS

CABLE LENGTH

-XX.XX: "A"
(0.25M [9.842] MIN - 50.00M [1968.504] MAX)

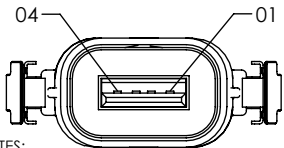
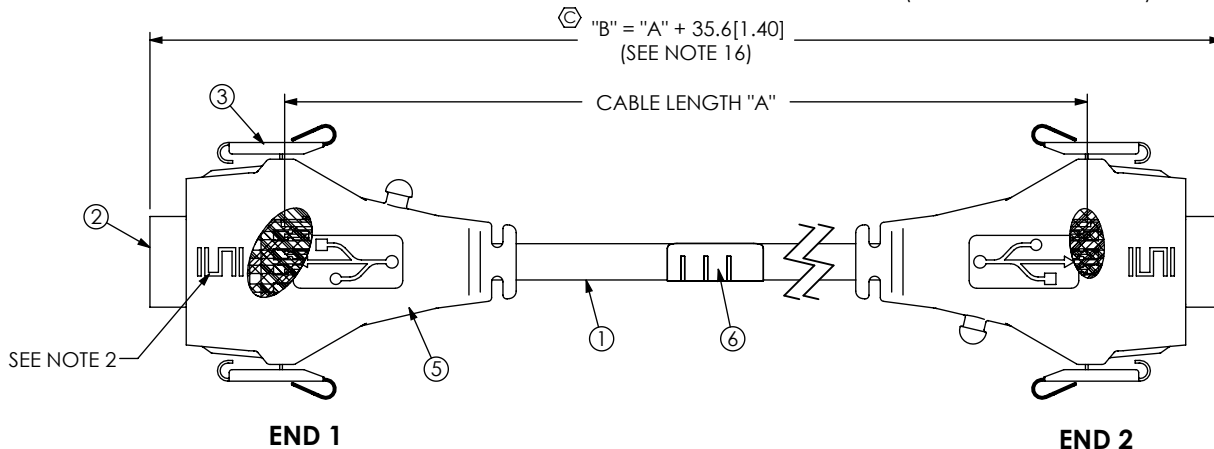
END 1 OPTION

-AMS: SEALED USB A
(USB A END SEALED ONLY)
-BMS: SEALED USB B
(USB B END SEALED ONLY)

END 2 OPTION

-AMS: USB A SEALED
(USB A SEALED ONLY)
(SEE FIG 1)
-AM: USB A NOT SEALED
(USB A END NOT SEALED ONLY)
(SEE SHEET 2, FIG 2)
-BC: BLUNT CUT (SEE SHEET 2, FIG 3)
-BM: USB B NOT SEALED
(USB B END NOT SEALED)
(SEE SHEET 3, FIG 4)
-BMS: USB B SEALED
(USB B SEALED ONLY)
(SEE SHEET 3, FIG 5)

DO NOT
SCALE FROM
THIS PRINT



NOTES:

1. REPRESENTS A CRITICAL DIMENSION.
2. SAMTEC LOGO TO APPEAR ON SURFACE AS SHOWN, APPROXIMATELY 6.00[.236] X 3.75[.148].
3. MOLDED SURFACES SHALL BE CONSISTENT AND SMOOTH. SURFACES TO BE FREE OF SCRATCHES, NICKS, SINK AREAS, VOIDS, OR OTHER BLEMISHES.
4. ALL MULTIPLE CAVITY MOLDS SHALL IDENTIFY EACH CAVITY WITH A NUMBER DESIGNATION LOCATED WHERE SHOWN.
5. ALL IDENTIFICATION MARKS SHALL NOT STAND GREATER THAN 0.05[.002] OFF THE SURFACE OF THE PART.
6. MOLD TO BE INSERTED TO ACCEPT DIFFERENT CABLE DIAMETERS.
7. SURFACE TO BE RECESSED 0.22[.009].
8. USB LOGO TO BE RAISED 0.25[.010].
9. USB LOGO'S TO BE ALIGNED TO USB CONNECTORS AS SHOWN.
10. LENGTHS GREATER THAN 05.00M[196.850] ARE NOT SUPPORTED BY USB 2.0 TEST DATA.
11. ASSEMBLY TO BE 100% ELECTRICALLY TESTED FOR OPENS AND SHORTS, HI-POT TESTED AT 200V BEFORE PREMOLD AND AFTER FINAL ASSEMBLY. AFTER FINAL ELECTRICAL TEST, LABEL EACH ASSEMBLY WITH 1 LABEL-ET.
12. ALL EJECTION PIN AND GATE LOCATIONS MUST BE APPROVED BY SAMTEC PRODUCT ENGINEERING.
13. ANY ADDITIONAL VOIDING AND/OR MODIFICATIONS TO VOIDING MUST BE APPROVED BY SAMTEC PRODUCT ENGINEERING.
14. ALL DRAFT MUST BE WITHIN THE SPECIFIED TOLERANCES.
15. ALL INSIDE/OUTSIDE RADII 0.13[.005] MAX UNLESS OTHERWISE STATED.
16. TOLERANCE SHALL BE $\pm 2\%$ FOR ALL LENGTHS.
17. MINIMUM LATCH PUSH OUT FORCE: 2.2N[.50LB].
18. THIS IS A COMPONENT OF USBP-A-01-G-B-01 (CALLED OUT ON THE BOM), BUT LABELED INDIVIDUALLY FOR ASSEMBLY PURPOSES.
19. THIS IS A COMPONENT OF USBP-B-01-G-B-01 (CALLED OUT ON THE BOM), BUT LABELED INDIVIDUALLY FOR ASSEMBLY PURPOSES.
20. ASSEMBLY TO BE SHIPPED IN BULK PACKAGED WITH ASBBLT4X5.5 ON EACH END PER PACKAGING STANDARD CO-RF-WI-3001-M.
21. NOTE DELETED.
22. ANY CHANGE MADE TO -AM & -BM OVERMOLD MUST BE MADE TO SCPU-17-XX.XX-XXX-XXX.
23. THIS IS A COMPONENT OF USBP-B-02-G-B-01 (CALLED OUT ON THE BOM), BUT LABELED INDIVIDUALLY FOR ASSEMBLY PURPOSES.
24. MEASURE OVERMOLD IN BOTH CORNERS AND IN THE MIDDLE OF THE PART.
25. USE TABLE 3, SHT 5 AND THE FIGURES BELOW FOR PIN NUMBERING AND WIRE COLOR; IGNORE ANY NUMBERING ON THE BODIES.

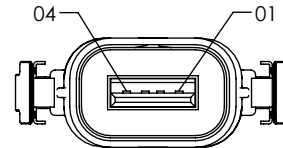
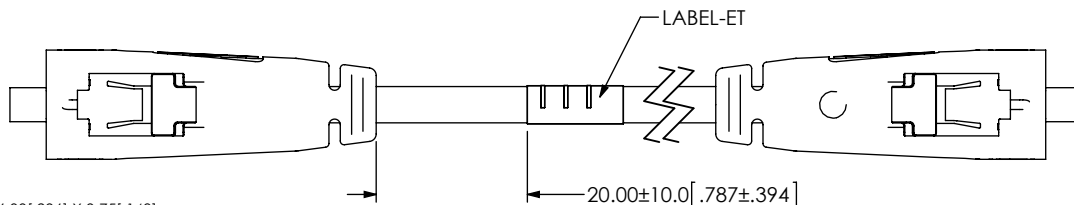


FIG 1
RCU-X-XX.XX-AMS-AMS SHOWN

F:\DWG\MISC\MKTG\RCU-X-XX.XX-XXX-XXX-MKT.SLDDRW

UNLESS OTHERWISE SPECIFIED,
DIMENSIONS ARE IN MILLIMETERS.

TOLERANCES ARE:

DECIMALS	ANGLES
X.X: ± 0.3 [.01]	2°
X.XX: ± 0.13 [.005]	
X.XXX: ± 0.051 [.0020]	

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MATERIAL:

DO NOT SCALE DRAWING SHEET SCALE: 1:1
CABLE: PVC, COPPER, PET
CONNECTOR: GLASS FILLED THERMOPLASTIC, COPPER ALLOY
LATCH: BeCu
PREMOLD: PTC
OVERMOLD: PAGG, MAX REGRIND: 10%
NON-SEALED OVERMOLD: PVC, MAX REGRIND: 30%

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:

RECTANGULAR CABLE USB

DWG. NO.

RCU-X-XX.XX-XXX-XXX

BY: T NEWTON 02/17/2010

SHEET 1 OF 10

RCU-X-XX.XX-AMS-AM BOM			
ITEM NO.	PART NUMBER	QTY	DESCRIPTION
1	UCA-03-01	XX XX	CABLE
2	USBP-A-01-G-B-01	2	CONNECTOR
3	LTC-14-02-N	2	LATCH
4	MD-PTC-RF-640-BK	1	PREMOLD
5	MD-NYL-ZY-70G13-BK	1	OVERMOLD
6	LABEL-ET	1	LABEL
7	MD-PVC-AL-41175-BK	1	NON-SEALED OVERMOLD

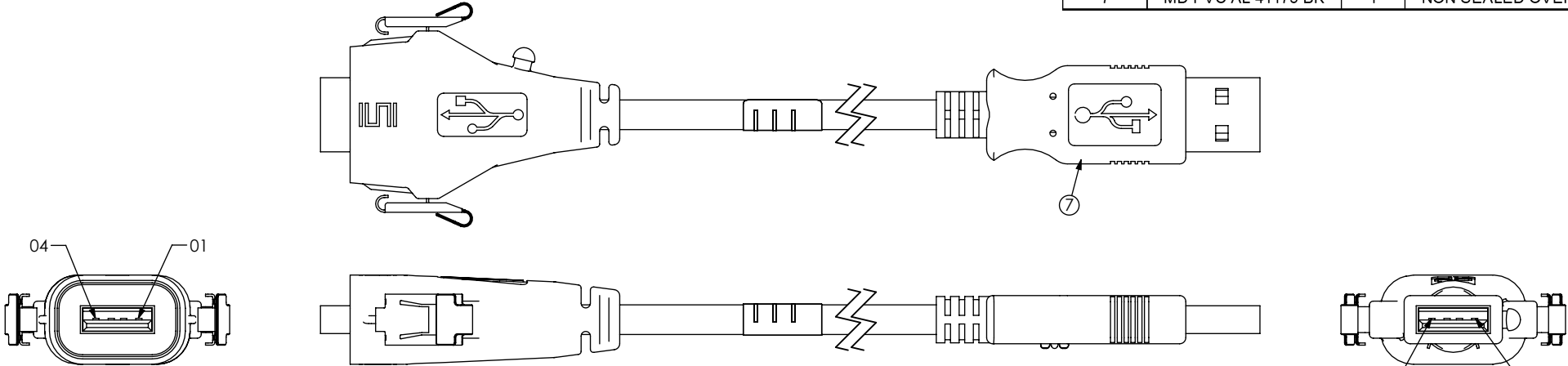


FIG 2
RCU-X-XX.XX-AMS-AM SHOWN
(SAME AS FIG 1, EXCEPT AS SHOWN)

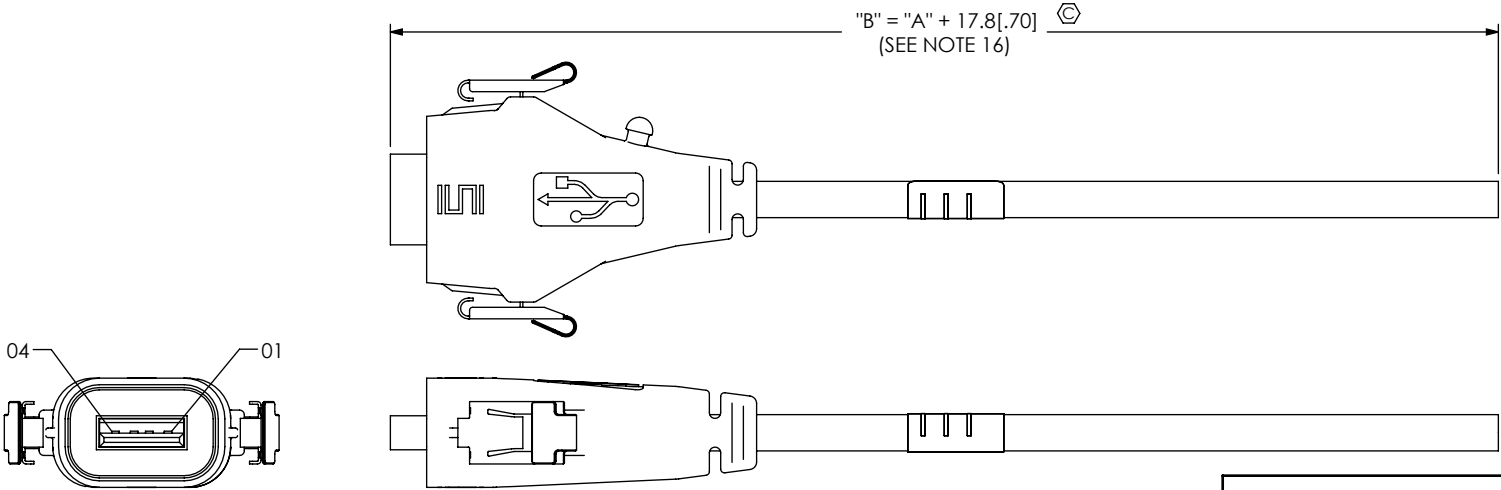


FIG 3
RCU-X-XX.XX-AMS-BC SHOWN
(SAME AS FIG 1, EXCEPT AS SHOWN)

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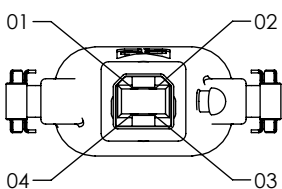
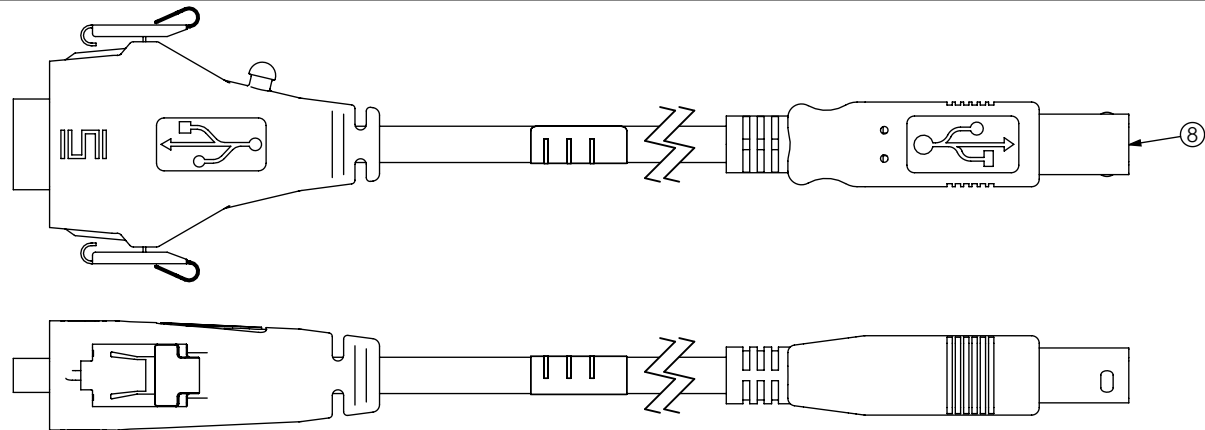
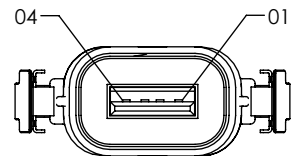
SHEET SCALE: 1:1

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e-Mail: info@SAMTEC.com code 55322

DESCRIPTION:
RECTANGULAR CABLE USB

DWG. NO.
RCU-X-XX.XX-XXX-XXX

BY: T NEWTON 02/17/2010 SHEET 2 OF 10



RCU-X-XX.XX-AMS-BM BOM			
ITEM NO.	PART NUMBER	QTY	DESCRIPTION
1	UCA-03-01	XX.XX	CABLE
2	USBP-A-01-G-B-01	1	CONNECTOR
3	LTC-14-02-N	2	LATCH
4	MD-PTC-RF-640-BK	1	PREMOLD
5	MD-NYL-ZY-70G13-BK	1	OVERMOLD
6	LABEL-ET	1	LABEL
7	MD-PVC-AL-41175-BK	1	NON-SEALED OVERMOLD
8	USBP-B-01-G-B-01	1	CONNECTOR

FIG 4
RCU-X-XX.XX-AMS-BM SHOWN
(SAME AS FIG 1, EXCEPT AS SHOWN)

ITEM NO.	PART NUMBER	QTY	DESCRIPTION
1	UCA-03-01	XX.XX	CABLE
2	USBP-A-01-G-B-01	1	CONNECTOR
3	LTC-14-02-N	4	LATCH
4	MD-PTC-RF-640-BK	1	PREMOLD
5	MD-NYL-ZY-70G13-BK	1	OVERMOLD
6	LABEL-ET	1	LABEL
7	USBP-B-02-G-B-01	1	CONNECTOR

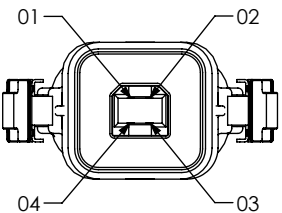
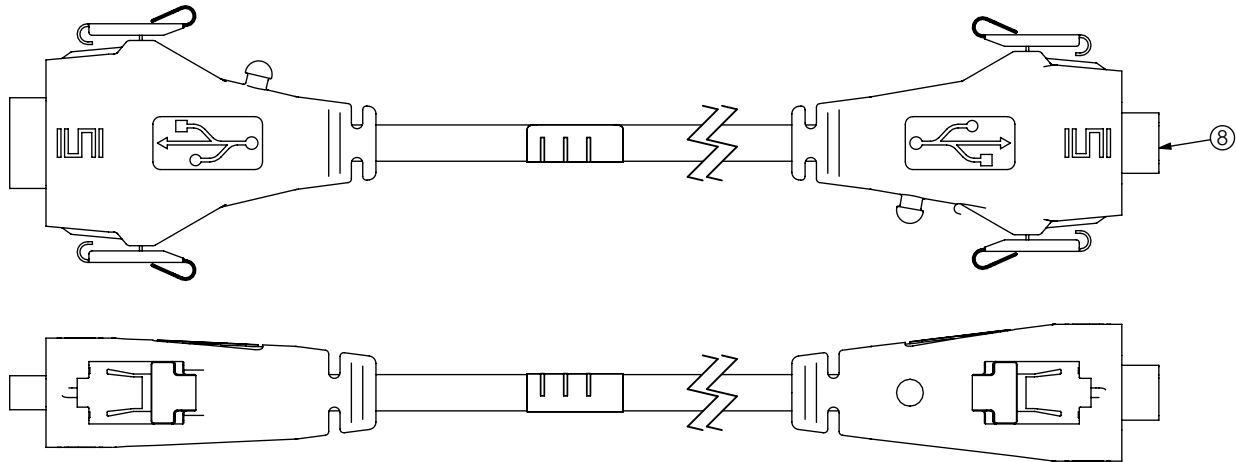
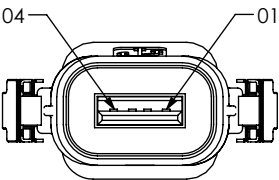


FIG 5
RCU-X-XX.XX-AMS-BMS SHOWN
(SAME AS FIG 1, EXCEPT AS SHOWN)

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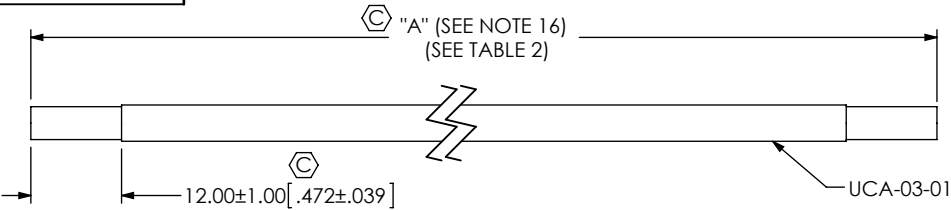
SHEET SCALE: 1:1

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

DESCRIPTION:
RECTANGULAR CABLE USB

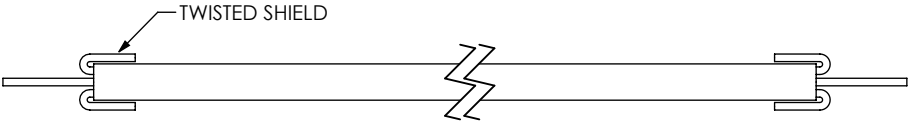
DWG. NO:
RCU-X-XX.XX-XXX-XXX

BY: T NEWTON 02/17/2010 SHEET 3 OF 10

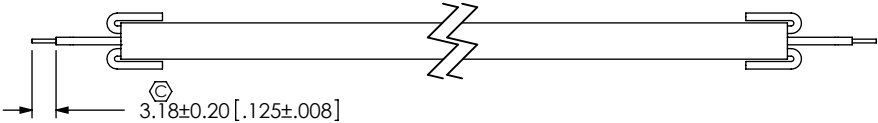


IN-PROCESS 1
CUT CABLE TO LENGTH AND STRIP OUTER JACKET

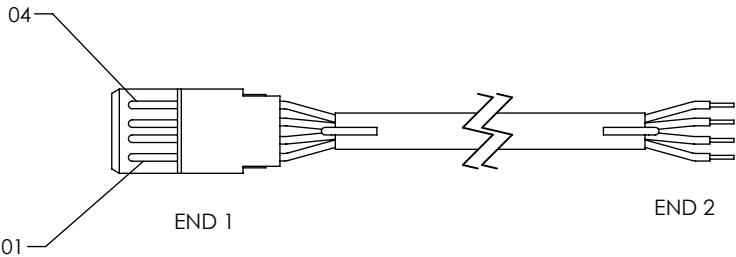
TABLE 2	
END OPTION	"A"
AMS	LENGTH IN MILLIMETERS
AM	LENGTH IN MILLIMETERS
BC	(LENGTH IN MILLIMETERS X 2) + 50.0[2.00]
BM	LENGTH IN MILLIMETERS
BMS	LENGTH IN MILLIMETERS



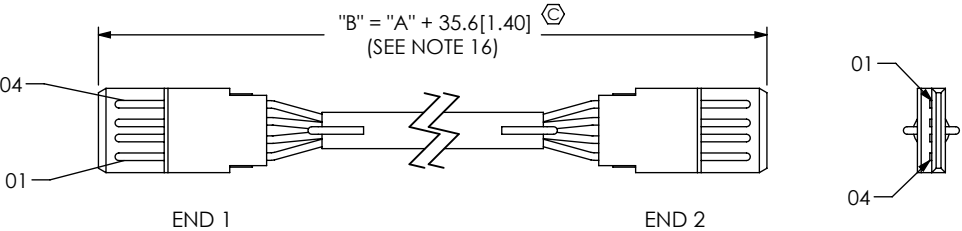
IN-PROCESS 2
FOLD SHIELD BACK, REMOVE FOIL & TWIST SHIELD



IN-PROCESS 3
STRIP INDIVIDUAL WIRES AND DIP IN TIN



-AMS-XXX: IN-PROCESS 4
TERMINATE TO SUB-USB-A-G-B-01
(SEE NOTE 18 & 25)



-AMS-XXX: IN-PROCESS 5
TERMINATE SECOND END TO SUB-USB-A-G-B-01
(SEE NOTE 18 & 25)

TABLE 3		
END 1 POS	WIRE COLOR	END 2 POS
01	RED	01
02	WHITE	02
03	GREEN	03
04	BLACK	04

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SHEET SCALE: 1:1

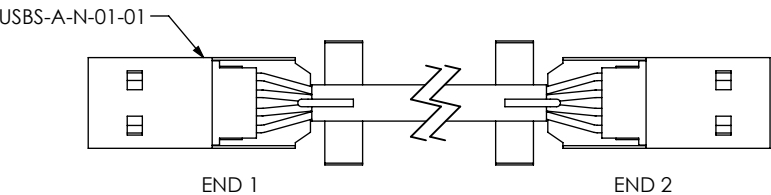
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e-Mail: info@SAMTEC.com code 55322

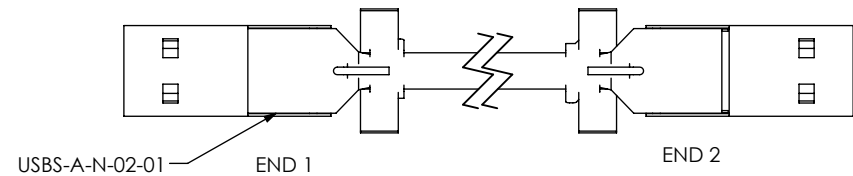
DESCRIPTION:
RECTANGULAR CABLE USB

DWG. NO.
RCU-X-XX.XX-XXX-XXX

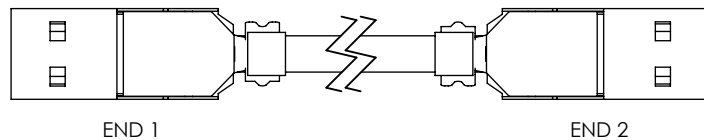
BY: T NEWTON 02/17/2010 SHEET 4 OF 10



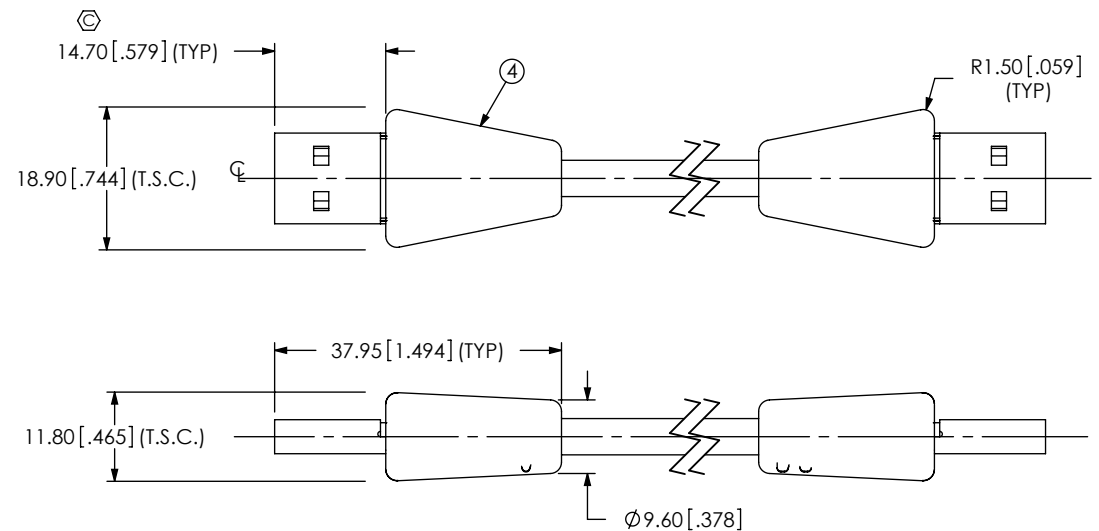
-AMS-XXX: IN-PROCESS 6
ADD USB-A-N-01-01 SHELL
(SEE NOTE 18)



-AMS-XXX: IN-PROCESS 7
ADD USB-A-N-02-01 SHELL
(SEE NOTE 18)



-AMS-XXX: IN-PROCESS 8
CRIMP SHELLS OVER BRAID AND TRIM EXCESS SHIELD



-AMS-AMS: IN-PROCESS 9
PREMOLD

F:\DWG\MISC\MKTG\RCU-X-XX-XX-XXX-MKT.SLDDRW

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SHEET SCALE: 1:1

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e-Mail info@SAMTEC.com code 55322

DESCRIPTION:

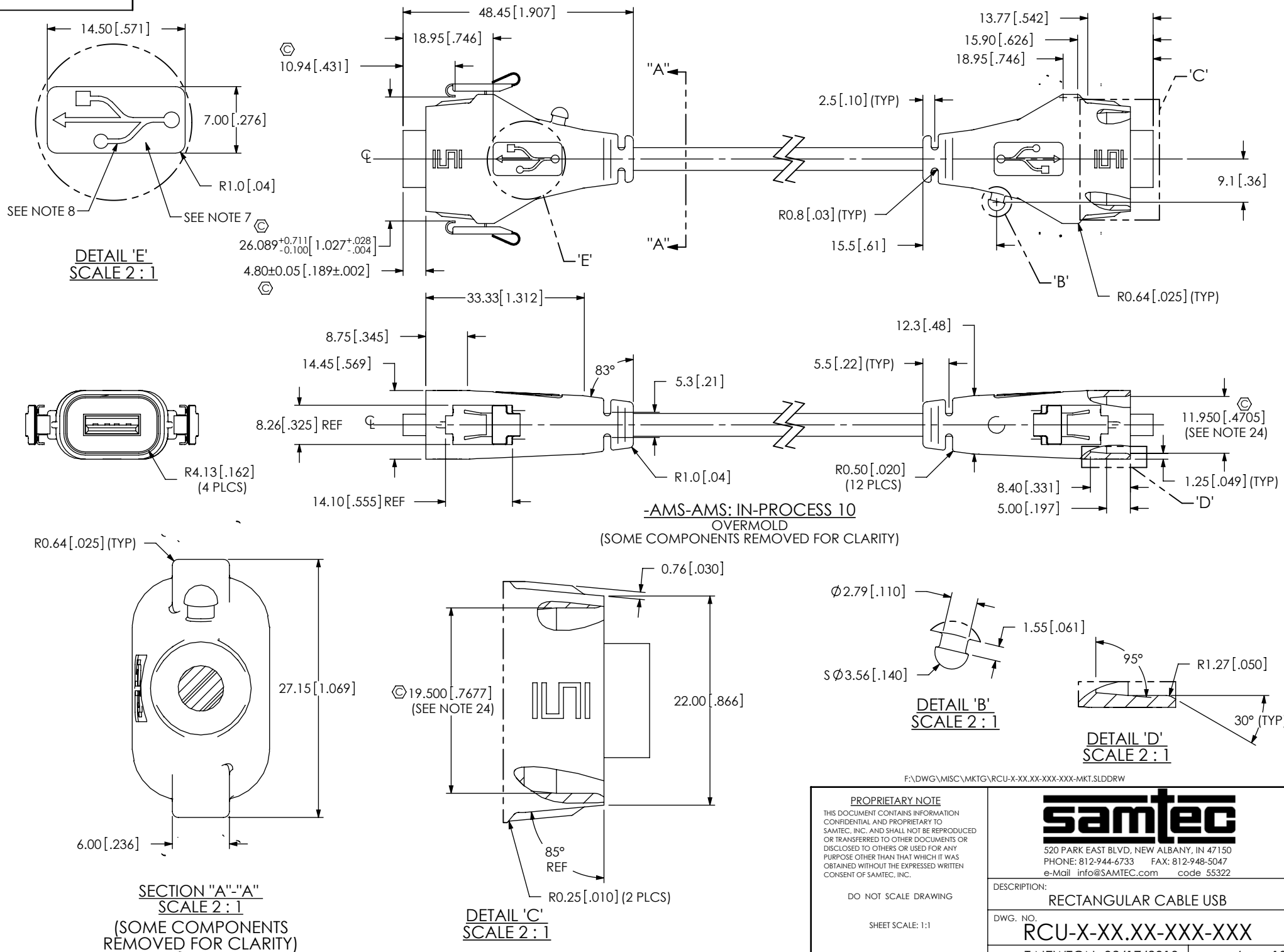
RECTANGULAR CABLE USB

DWG. NO.

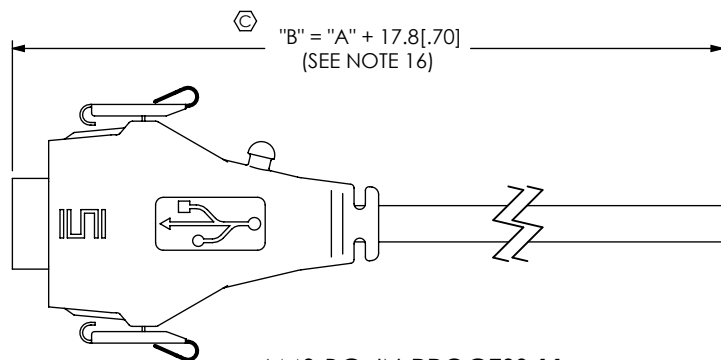
RCU-X-XX-XX-XXX-XXX

BY: T NEWTON 02/17/2010

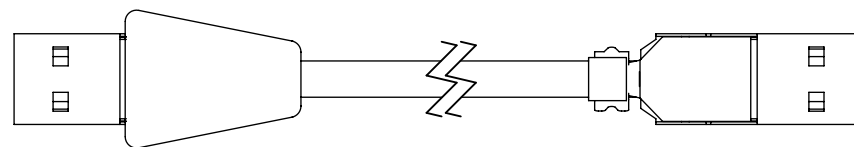
SHEET 5 OF 10



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	DESCRIPTION: RECTANGULAR CABLE USB	
	DWG. NO. RCU-X-XX.XX-XXX-XXX	
	BY: T NEWTON 02/17/2010	SHEET 6 OF 10



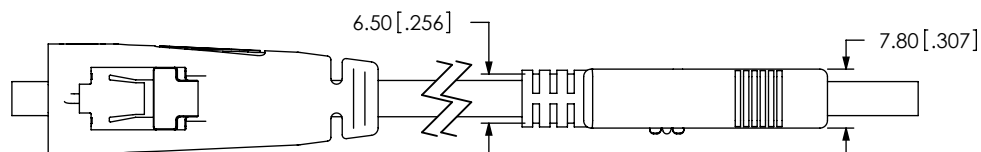
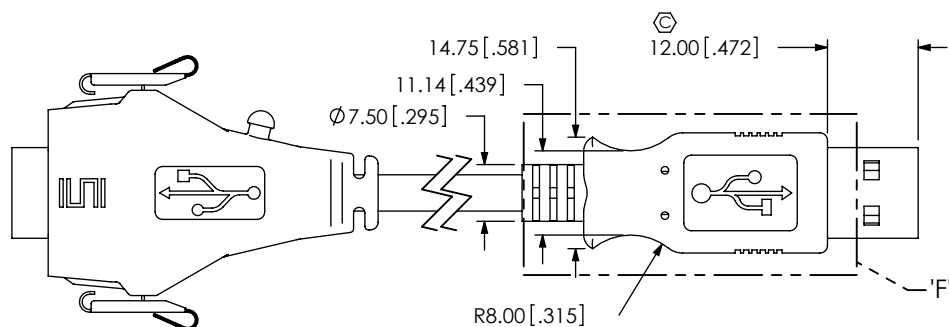
-AMS-BC: IN-PROCESS 11
CUT CABLE IN HALF AND TRIM TO LENGTH



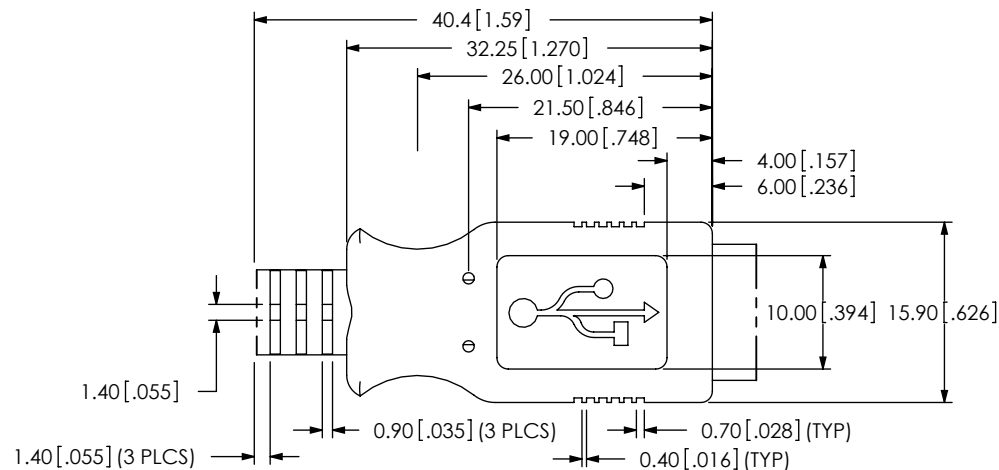
END 1

END 2

-AMS-AM: IN-PROCESS 9
PREMOLD
(SAME AS -AMS-AMS: IN-PROCESS 9 ,EXCEPT AS SHOWN)



-AMS-AM: IN-PROCESS 10
OVERMOLD
(SAME AS -AMS-AMS: IN-PROCESS 10, EXCEPT AS SHOWN)



DETAIL 'F'
SCALE 1.5 : 1
(SEE NOTE 22)

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SHEET SCALE: 1:1

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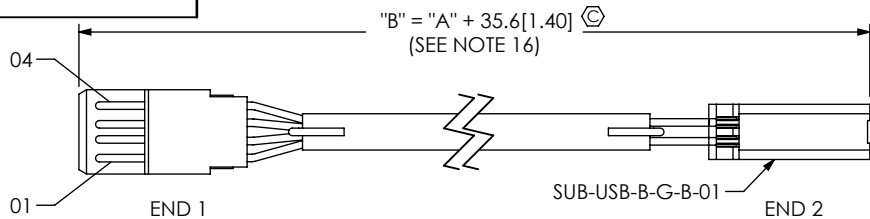
520 PARK EAST BLVD, NEW ALBANY, IN 47150
PHONE: 812-944-6733 FAX: 812-948-5047
e-Mail: info@SAMTEC.com code 55322

DESCRIPTION:
RECTANGULAR CABLE USB

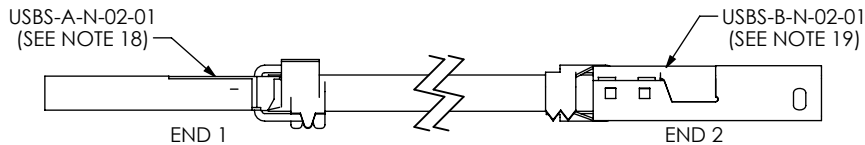
DWG. NO.
RCU-X-XX.XX-XXX-XXX

BY: T NEWTON 02/17/2010 SHEET 7 OF 10

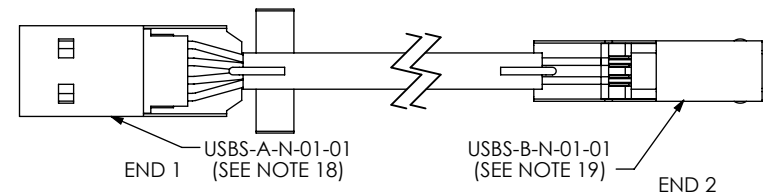
REVISION J



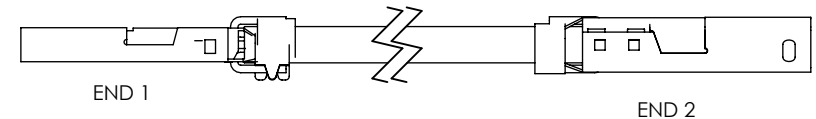
-AMS-BM: IN-PROCESS 5
 TERMINATE SECOND END TO SUB-USB-B-G-B-01
 (SAME AS -AMS-XXX: IN-PROCESS 5, EXCEPT AS SHOWN)
 (SEE NOTE 18, 19 & 25)



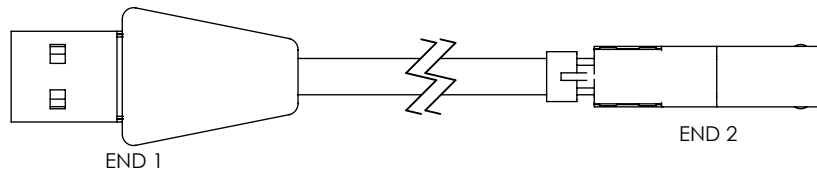
-AMS-BM: IN-PROCESS 7
 ADD USB-A-N-02-01 & USB-B-N-02-01 SHELLS
 (SAME AS -AMS-XXX: IN-PROCESS 7, EXCEPT AS SHOWN)
 (SEE NOTE 18 & NOTE 19)



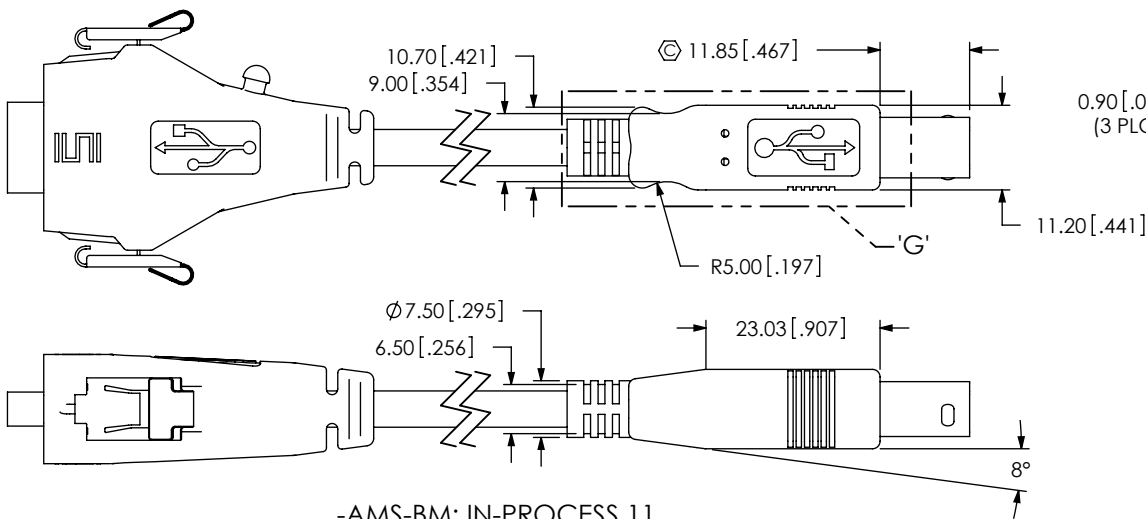
-AMS-BM: IN-PROCESS 6
 ADD USB-A-N-01-01 & USB-B-N-01-01 SHELLS
 (SAME AS -AMS-XXX: IN-PROCESS 6, EXCEPT AS SHOWN)
 (SEE NOTE 18 & NOTE 19)



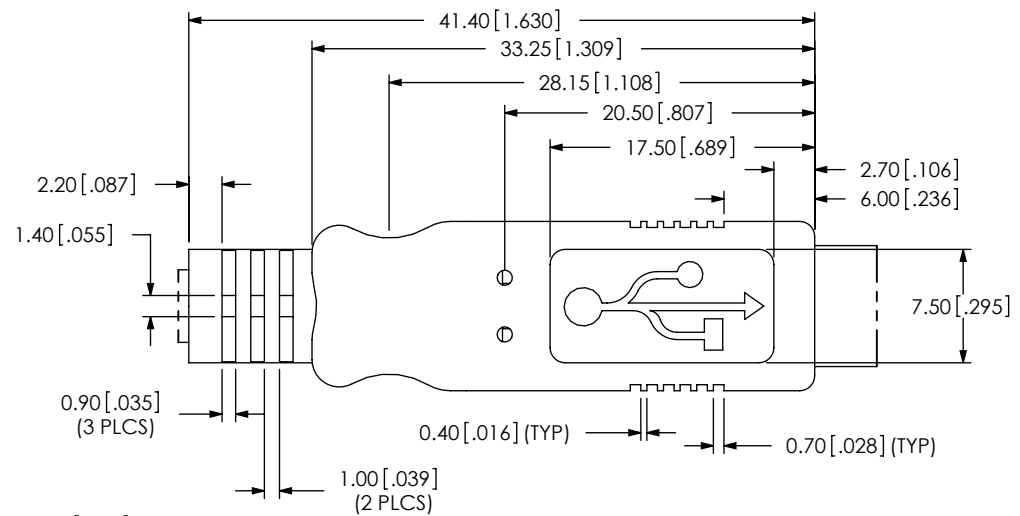
-AMS-BM: IN-PROCESS 8
 CRIMP SHELLS OVER BRAID AND TRIM EXCESS SHIELD
 (SAME AS -AMS-XXX: IN-PROCESS 8, EXCEPT AS SHOWN)



-AMS-BM: IN-PROCESS 9
 PREMOLD
 (SAME AS -AMS-AMS: IN-PROCESS 9, EXCEPT AS SHOWN)



-AMS-BM: IN-PROCESS 11
 OVERMOLD
 (SAME AS -AMS-AMS: IN-PROCESS 10, EXCEPT AS SHOWN)



DETAIL 'G'
SCALE 2 : 1
 (SEE NOTE 22)

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SHEET SCALE: 1:1

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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:

RECTANGULAR CABLE USB

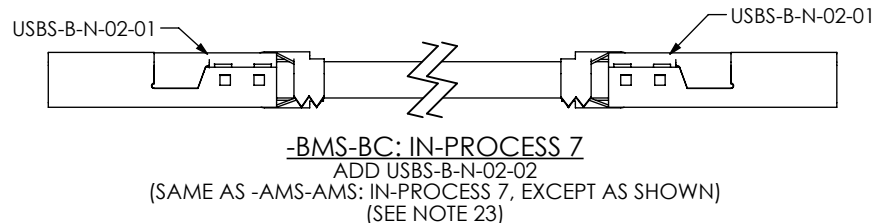
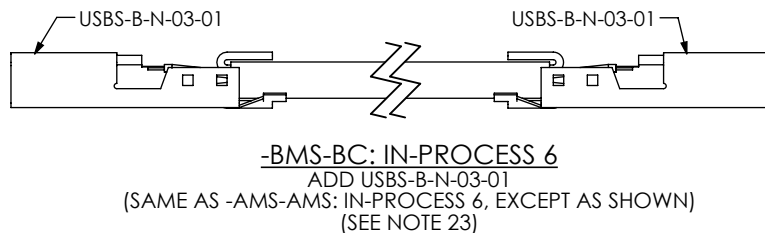
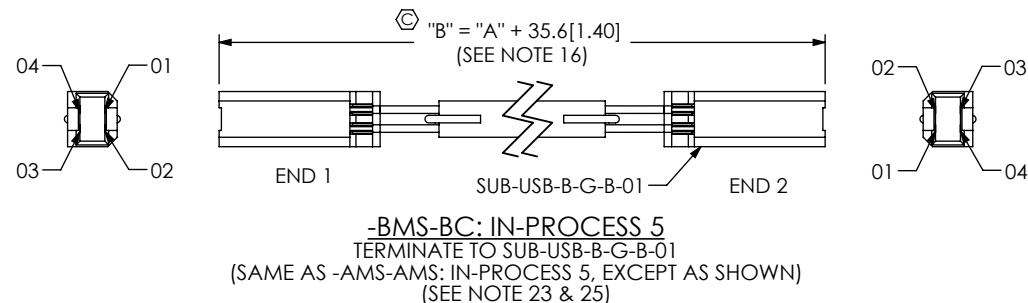
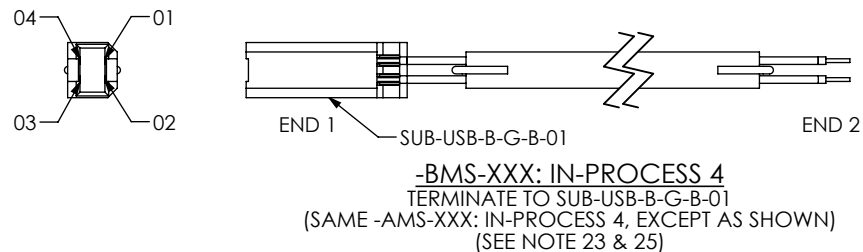
DWG. NO.

RCU-X-XX.XX-XXX-XXX

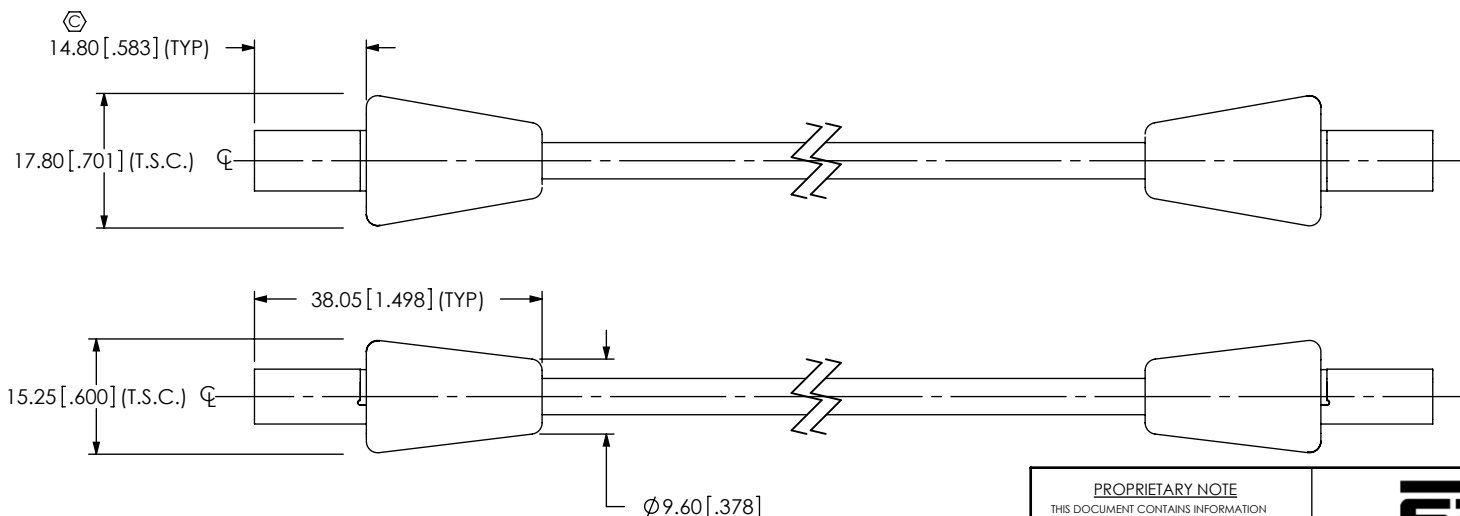
BY: T NEWTON 02/17/2010

SHEET 8 OF 10

REVISION J



-BMS-BC: IN-PROCESS 8
CRIMP SHELLS OVER BRAID AND TRIM SHIELD
(SAME AS -AMS-AMS: IN-PROCESS 8, EXCEPT AS SHOWN)



-BMS-BC: IN-PROCESS 9
PREMOLD
(SAME AS -AMS-AMS: IN-PROCESS 9, EXCEPT AS SHOWN)

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DO NOT SCALE DRAWING

SHEET SCALE: 1:1

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e-Mail: info@SAMTEC.com code 55322

DESCRIPTION:

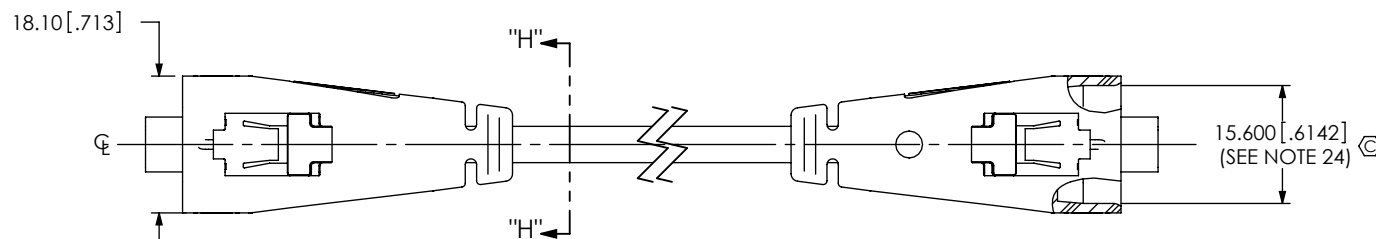
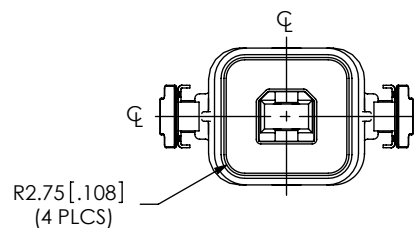
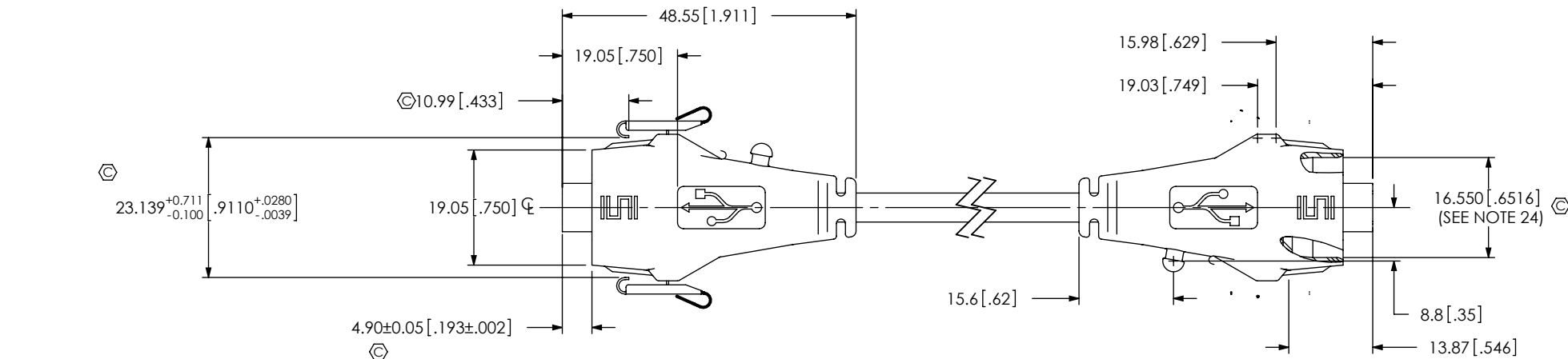
RECTANGULAR CABLE USB

DWG. NO.

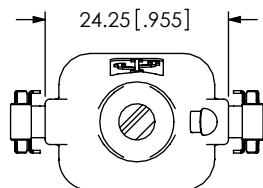
RCU-X-XX.XX-XXX-XXX

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SHEET9 OF10



-BMS-BC: IN-PROCESS 10
OVERMOLD
(SAME AS -AMS-AMS: IN-PROCESS 10, EXCEPT AS SHOWN)



SECTION "H"-"H"

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SHEET 10 OF 10