

DO NOT  
SCALE FROM  
THIS PRINT

TABLE 1

TABLE 1	
PART NUMBER	"B"
SCRUS-17-X-XX XX-AMS-AM	30[1.18]
SCRUS-17-X-XX,XX-BMS-BM	30[1.18]
SCRUS-17-X-XX,XX-AMS-BC	15[,59]
SCRUS-17-X-XX,XX-BMS-BC	15[,59]
SCRUS-17-X-XX XX-BMS-AM	30[1.18]
SCRUS-17-X-XX,XX-AMS-BM	30[1.18]
SCRUS-17-X-XX XX,BMS-MB	23.5[,925]
SCRUS-17-X-XX XX-AMS-MB	23.5[,925]

## DESIGNED & DIMENSIONED IN MILLIMETERS [INCHES]



SCRUS-17-X-XX.XX-XXX-XX

PLATING \_\_\_\_\_

### LENGTH

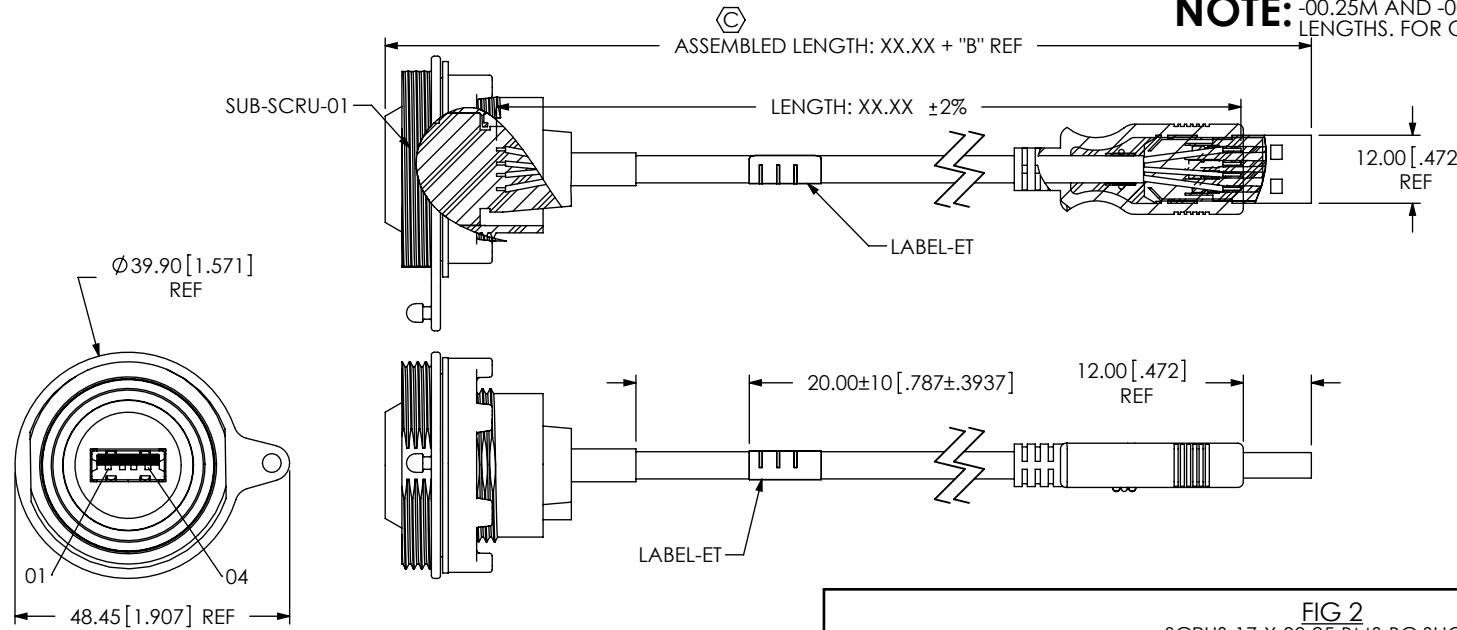
-XX.XX LENGTH IN METERS  
(00.25[9.84] MIN - 50.00[1968.50] MAX  
(SEE NOTE 15 )

- END OPTION 2
- AM: USB A TYPE PLUG,  
UNSEALED
- BM: USB B TYPE PLUG,  
UNSEALED
- BC: BLUNT CUT
- MB: MINI USB B TYPE PLUG,  
UNSEALED

END OPTION 1  
-AMS: USB A TYPE JACK,  
      SEALED  
-BMS: USB B TYPE JACK,  
      SEALED

FIG 1  
SCRUS-17-X- 00.25-AMS-AM SHOWN

**NOTE:** -00.25M AND -00.50M ARE CATALOG STANDARD LENGTHS. FOR OTHER LENGTHS CONTACT SAMTEC.



## NOTES:

1.  REPRESENTS A CRITICAL DIMENSION.
2. ASSEMBLY TO BE 100% TESTED FOR OPENS AND SHORTS, HI-POT TEST AT 200V BEFORE PREMOLDED IN-PROCESS AND ON FINISHED ASSEMBLY. AFTER FINAL ELECTRICAL TEST, LABEL EACH ASSEMBLY WITH 1 LABEL-ET.
3. NOTE DELETED.
4. USB LOGO TO BE RAISED 0.25[.010].
5. PANEL THICKNESS: 0.76[.030] - 5.2[.205].
6. ASSEMBLY TO BE SHIPPED IN BULK PACKAGING
7. TORQUE SPECIFICATION FOR NUT ON SUB-SCRU-01 IS 12 IN-LB.
8. NOTE DELETED.
9. ALL IDENTIFICATION MARKS MUST NOT STAND GREATER THAN 0.051[.002] OFF THE SURFACE OF THE PART.
10. MOLD TO BE INSERTED TO ACCEPT DIFFERENT CABLE DIAMETERS.
11. ALL EJECTOR PIN AND GATE LOCATIONS MUST BE APPROVED BY SAMTEC PRODUCT ENGINEERING.
12. ANY ADDITIONAL VOIDING AND/OR MODIFICATIONS TO VOIDING MUST BE APPROVED BY SAMTEC PRODUCT ENGINEERING.
13. THIS IS A COMPONENT OF USBP-A-01-G-B-01 (CALLED OUT ON THE BOM), BUT LABELED INDIVIDUALLY FOR ASSEMBLY PURPOSES.
14. THIS IS A COMPONENT OF USBP-B-01-G-B-01 (CALLED OUT ON THE BOM), BUT LABELED INDIVIDUALLY FOR ASSEMBLY PURPOSES.
15. LENGTHS GREATER THAN 01.00M ARE NOT SUPPORTED BY USB 2.0 TEST DATA.
16. NOTE DELETED

UNLESS OTHERWISE SPECIFIED,  
DIMENSIONS ARE IN MILLIMETERS  
TOLERANCES ARE:  
DECIMALS ANGLES  
X.X:  $\pm 0.35$  [.013] 2 °  
X.XX:  $\pm 0.25$  [.010]  
X.XXX:  $\pm 0.15$  [.006]

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<b>MATERIAL:</b>	DO NOT SCALE DRAWING	Sheet Scale: 3:4	<b>DESCRIPTION:</b>
INSULATOR: GLASS FILLED THERMOPLASTIC	MAX FLASH ALLOWED: 0.05.[002]		PANEL MOUNT SEALED
CONTACTS: COPPER ALLOY	MAX GATE VESTIGE: 0.05.[002]		
SHIELDS: CRS			DWG. NO
CABLE NUT: PA66			SCRUS-17-X-XX
SEALED PREMOLD: TPE(RF 640A), SHOT WEIGHT: 10.66g [.024lb]			
SEALED OVERMOLD: PA66 GF13 FR70G13L; MAX REGRIND: 10%, SHOT WEIGHT: 12.70g [.028lb]			
NON-SEALED OVERMOLD: PVC, MAX REGRIND: 30%, SHOT WEIGHT: 9.07g [.020lb]			
			BY: LENNIX K 09.01.2016

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OPTION: **PANEL MOUNT SEALED USB CABLE**

NO SCRIBUS 17 Y YY YY YYY YY

LENNIX K 08.01.2010 SUETT 1 OF 15

FIG 3  
SCRUS-17-X-00.25-BMS-BM SHOWN  
(SAME AS FIG 1, UNLESS OTHERWISE STATED)

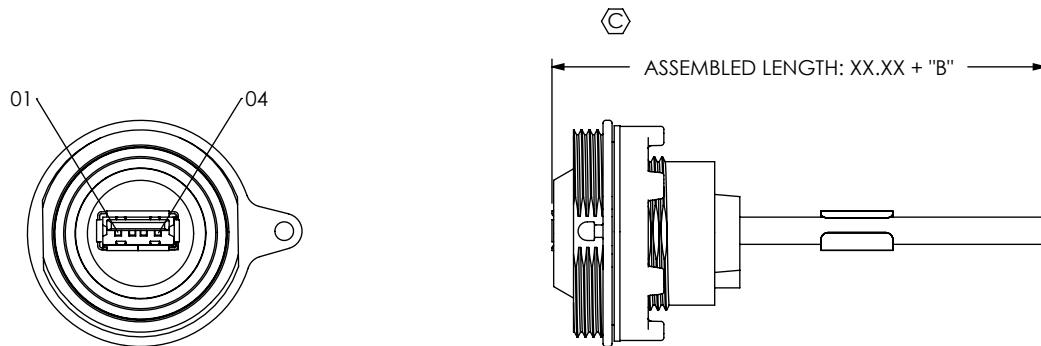
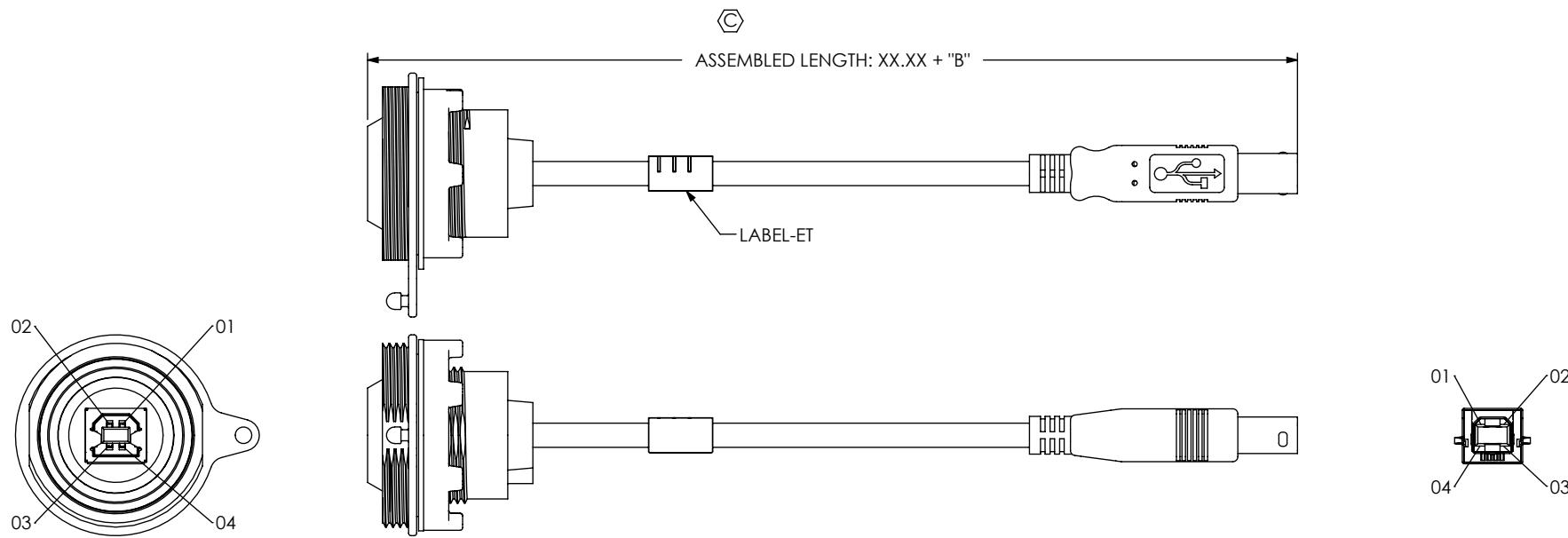


FIG 4  
SCRUS-17-X-00.25-AMS-BC SHOWN  
(SAME AS FIG 1, UNLESS OTHERWISE STATED)

TABLE 2: PIN-OUT

J1 End		Wire Color	J2 End			
-AMS	-BMS		-AM	-BM	-BC	-MB
01	01	RED	01	01	01	01
02	02	WHITE	02	02	02	02
03	03	GREEN	03	03	03	03
n/a	n/a	NOT CONNECTED	n/a	n/a	n/a	04
04	04	BLACK	04	04	04	05
USB Shield	USB Shield	DRAIN/CABLE SHIELD	USB Shield	USB Shield	USB Shield	USB Shield

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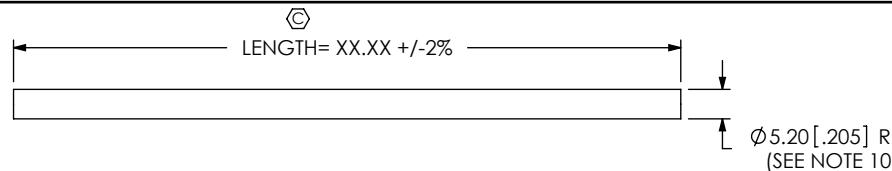
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SHEET SCALE: 1:2

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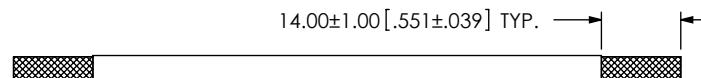
DESCRIPTION: PANEL MOUNT SEALED USB CABLE

DWG. NO. SCRUS-17-X-XX.XX-XXX-XX

BY: LENNY K 09-01-2010 SHEET 2 OF 15

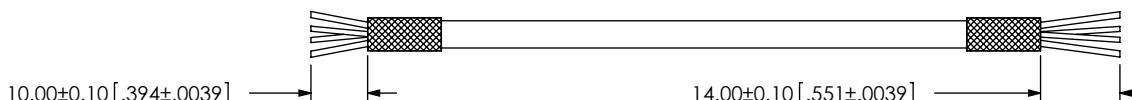


-AMS-AM: END OPTION  
IN-PROCESS 1  
UCA-03-01  
CUT CABLES TO LENGTH



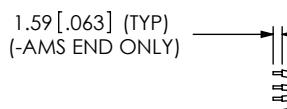
-AMS-AM: END OPTION  
IN-PROCESS 2  
UCA-03-01

STRIP OUTER JACKET TO DIMENSION SHOWN



-AMS-AM: END OPTION  
IN-PROCESS 3

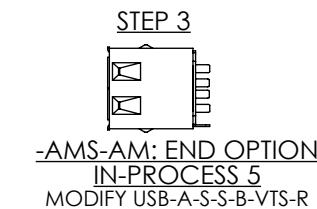
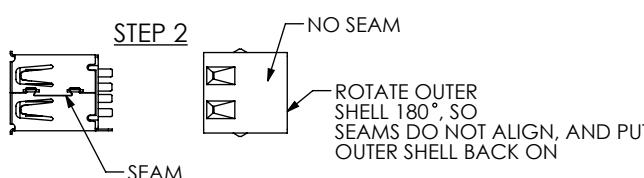
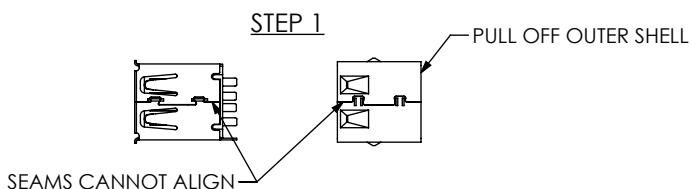
FOLD BACK SHIELD & TRIM WIRES TO LENGTH



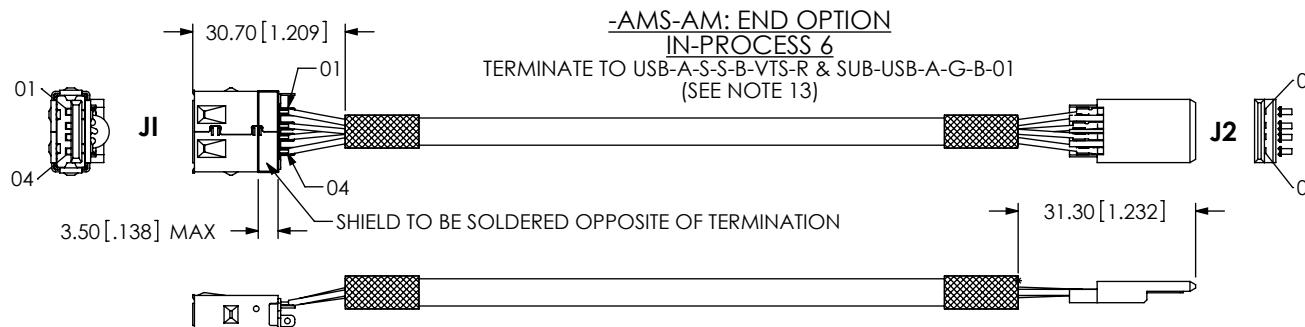
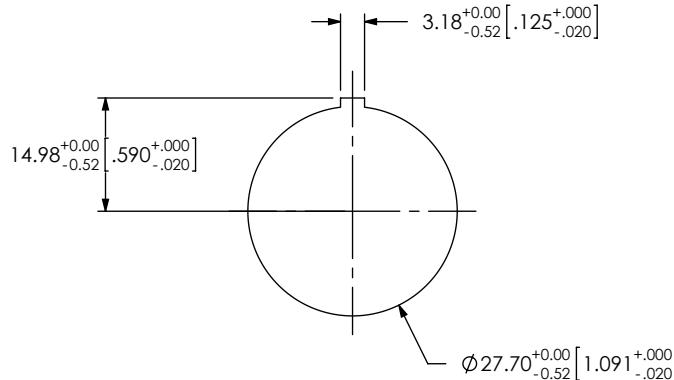
3.18 [ .125 ]  
(ALL OTHER ENDS)

-AMS-AM: END OPTION  
IN-PROCESS 4

STRIP INDIVIDUAL CABLES TO DIMENSION SHOWN



RECOMMENDED PANEL HOLE  
(SEE NOTE 5)



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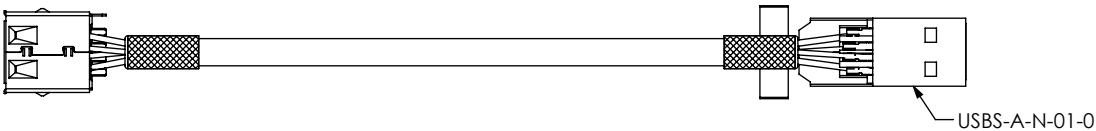
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DWG. NO. SCRUS-17-X-XX.XX-XXX-XX

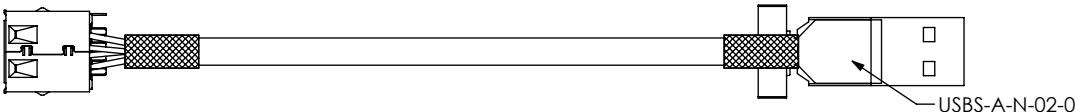
BY: LENNY K 09-01-2010 SHEET 3 OF 15

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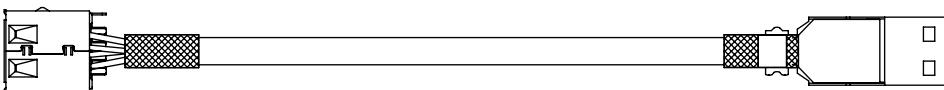
-AMS-AM: END OPTION  
IN-PROCESS 7  
ADD USBS-A-N-01-01 (SEE NOTE 13)



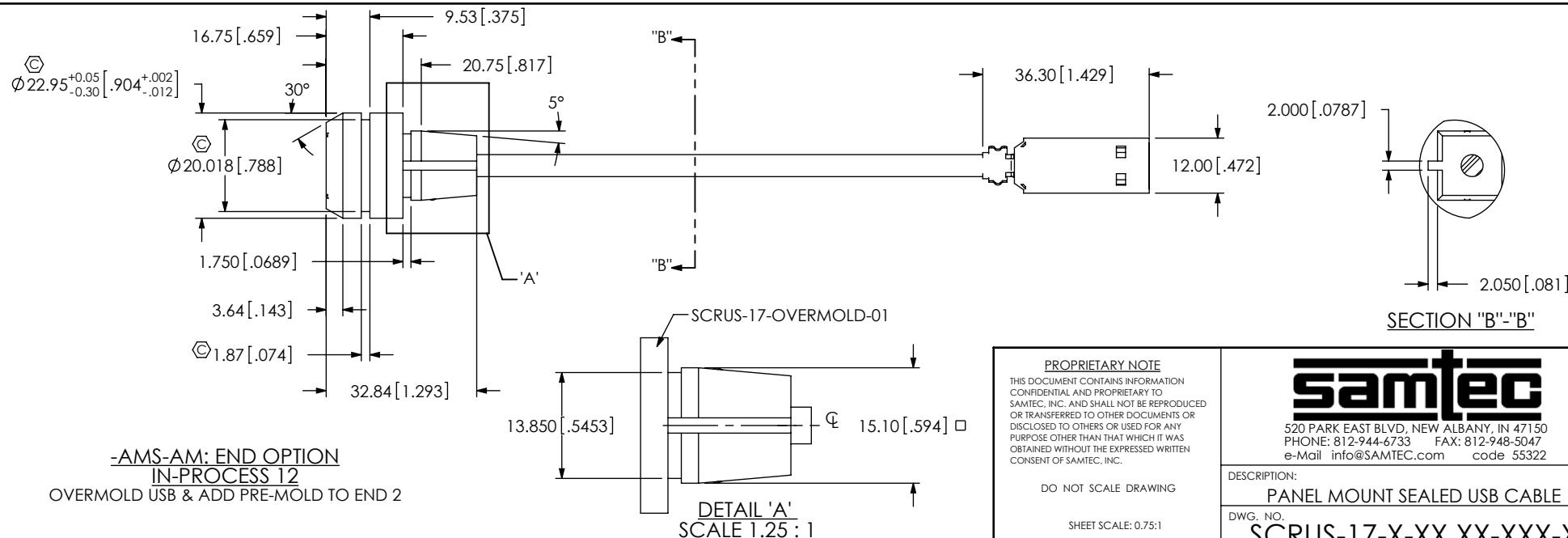
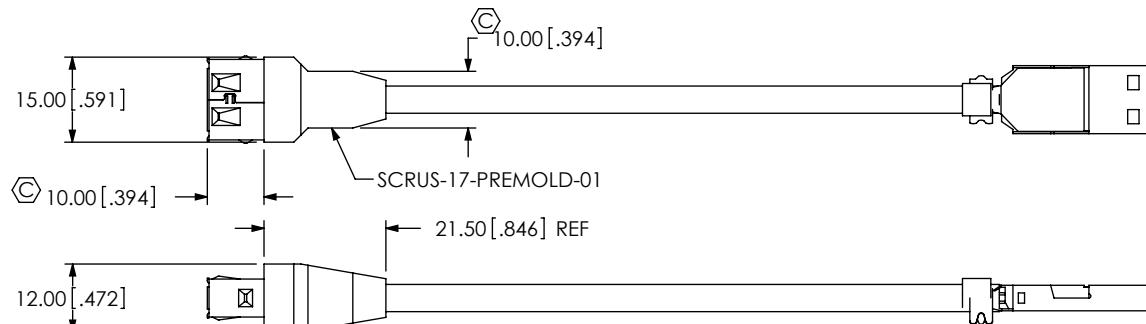
-AMS-AM: END OPTION  
IN-PROCESS 8  
ADD USBS-A-N-02-01 (SEE NOTE 13)



-AMS-AM: END OPTION  
IN-PROCESS 9 & 10  
CRIMP SHELLS OVERBAND  
TRIM SHIELD TAB ON USB-A-S-S-B-VTS-R



-AMS-AM: END OPTION  
IN-PROCESS 11  
PREMOLD



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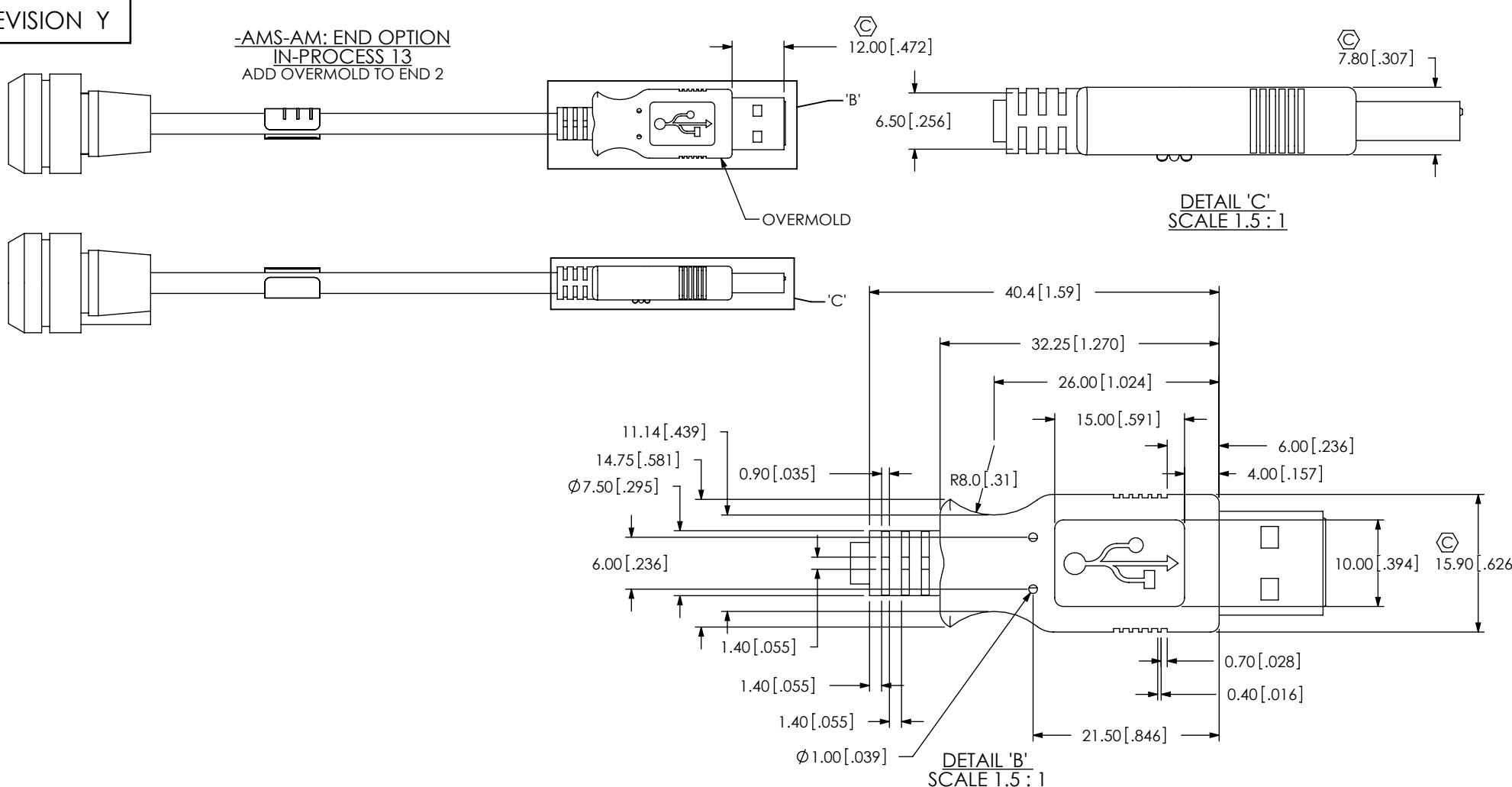
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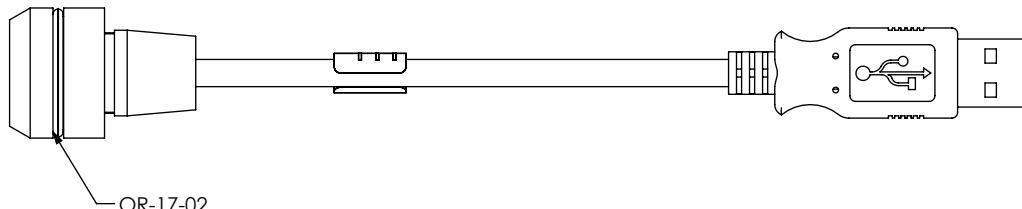
DWG. NO. SCRUS-17-X-XX.XX-XXX-XX  
BY: LENNY K 09-01-2010 SHEET 4 OF 15

REVISION Y

-AMS-AM: END OPTION  
IN-PROCESS 13  
ADD OVERMOLD TO END 2



-AMS-AM: END OPTION  
N-PROCESS 14  
ADD OR-17-02



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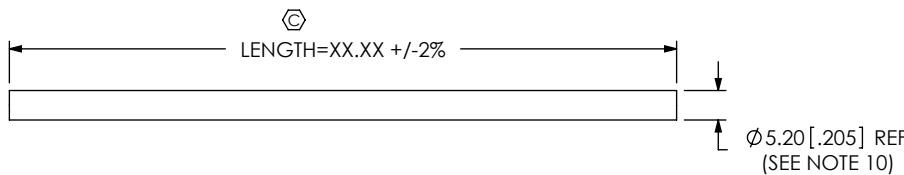
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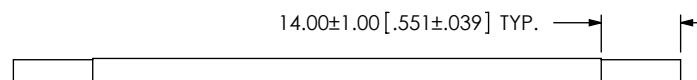
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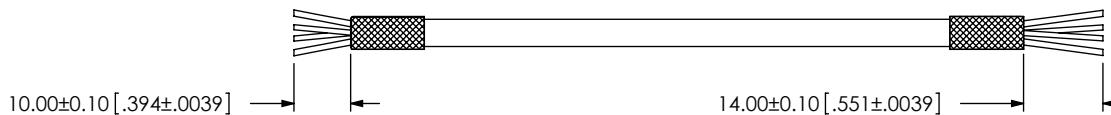
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IN-PROCESS 1  
UCA-03-01  
CUT CABLES TO LENGTH



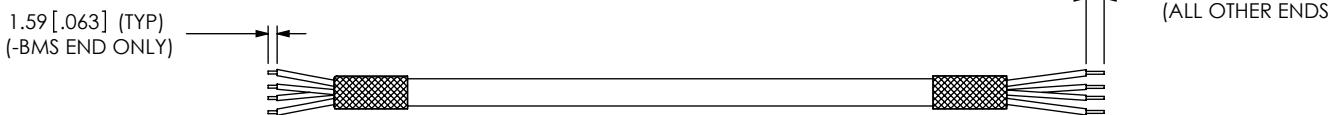
-BMS-BM: END OPTION  
IN-PROCESS 2  
UCA-03-01  
STRIP OUTER JACKET TO DIMENSION SHOWN



-BMS-BM: END OPTION  
IN-PROCESS 3  
FOLD BACK SHIELD & TRIM WIRES TO LENGTH



-BMS-BM: END OPTION  
IN-PROCESS 4  
STRIP INDIVIDUAL CABLES TO DIMENSION SHOWN



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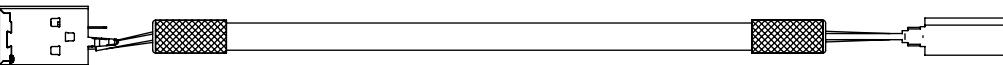
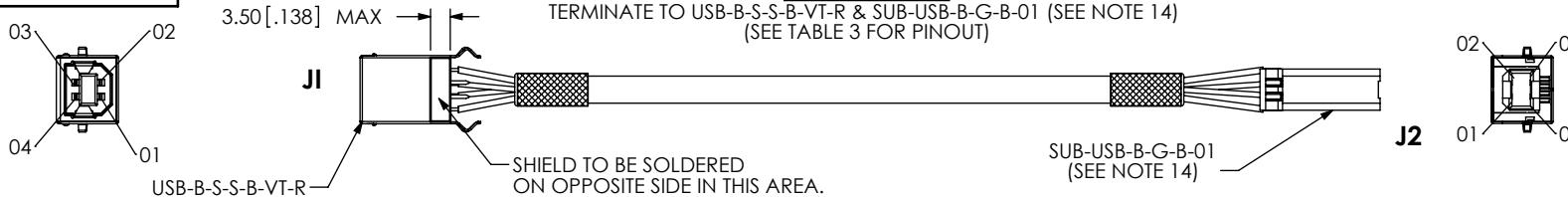
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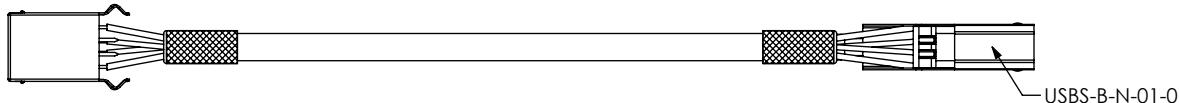
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e-Mail: [info@SAMTEC.com](mailto:info@SAMTEC.com) code 55322

DESCRIPTION:  
PANEL MOUNT SEALED USB CABLE  
DWG. NO.  
SCRUS-17-X-XX.XX-XXX-XX  
BY: LENNY K 09-01-2010 SHEET 6 OF 15

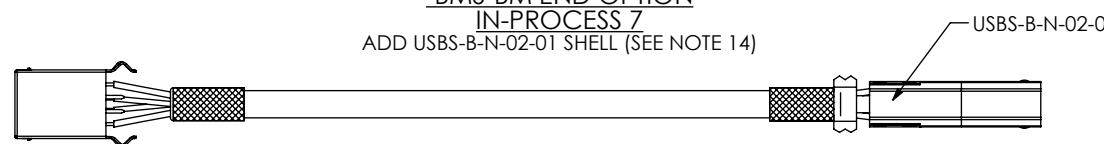
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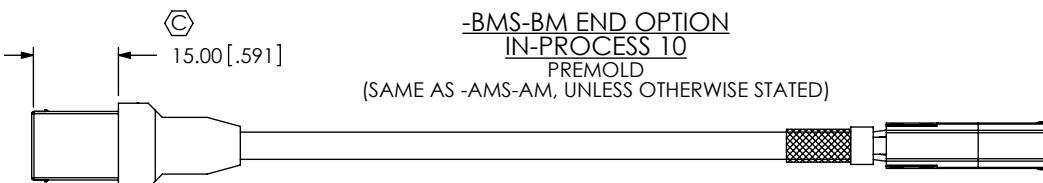
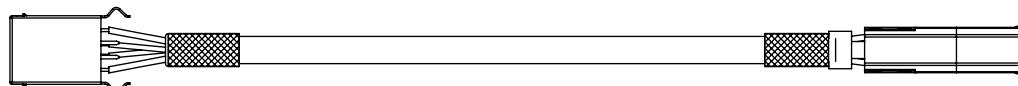
**-BMS-BM END OPTION  
IN-PROCESS 6**  
ADD USBS-B-N-01-01 SHELL (SEE NOTE 14)



**-BMS-BM END OPTION  
IN-PROCESS 7**  
ADD USBS-B-N-02-01 SHELL (SEE NOTE 14)



**-BMS-BM END OPTION  
IN-PROCESS 8 & 9**  
CRIMP SHELL OVER BRAID  
TRIM TAB ON USB-B-S-S-B-VT-R



**-BMS-BM END OPTION  
IN-PROCESS 10**  
PREMOLD  
(SAME AS -AMS-AM, UNLESS OTHERWISE STATED)

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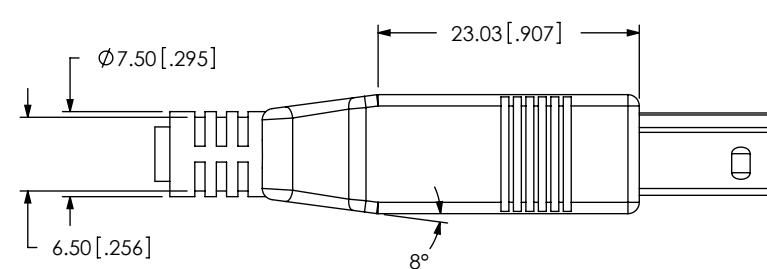
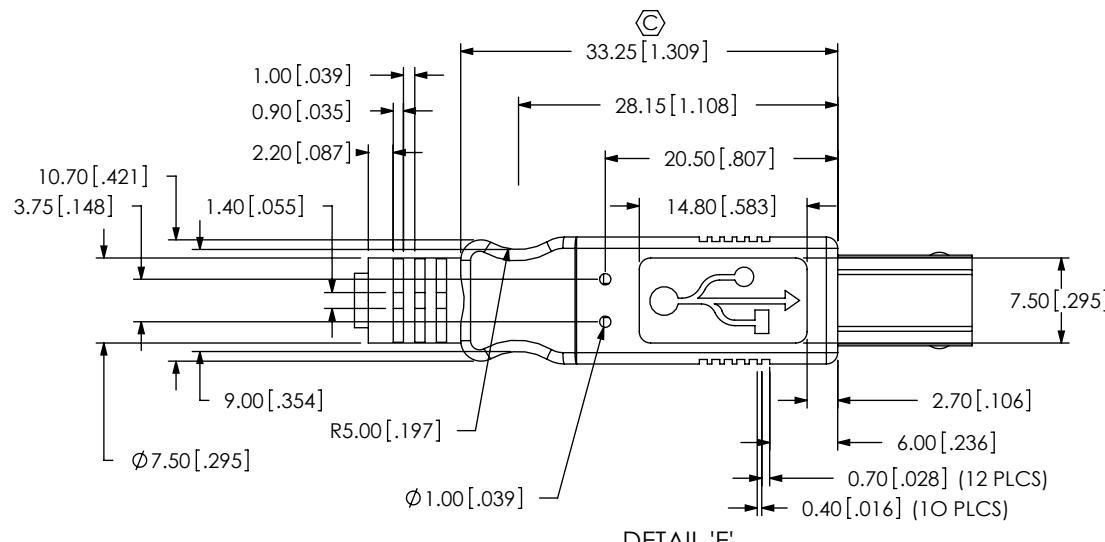
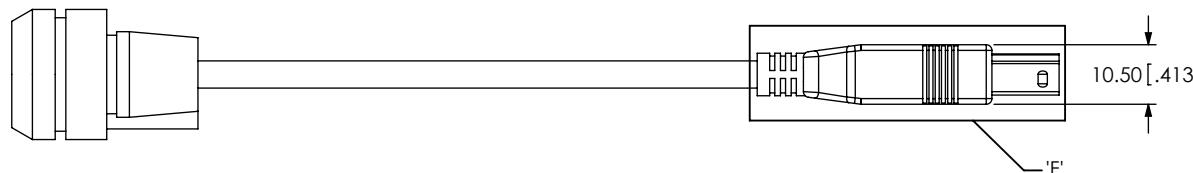
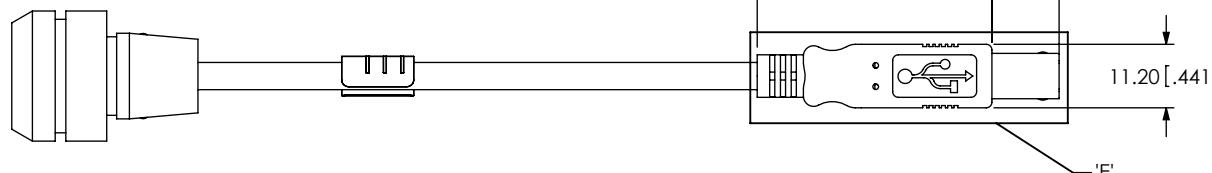
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DWG. NO. SCRUS-17-X-XX.XX-XXX-XX

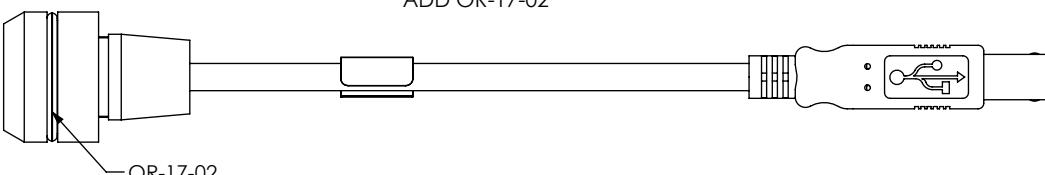
BY: LENNY K 09-01-2010 SHEET 7 OF 15

-BMS-BM END OPTIONIN-PROCESS 11OVERMOLDING

(SAME AS -AMS-AM, UNLESS OTHERWISE STATED)

-BMS-BM END OPTIONIN-PROCESS 12

ADD OR-17-02



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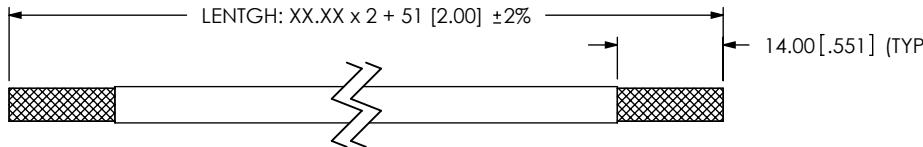
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DWG. NO. SCRUS-17-X-XX.XX-XXX-XX

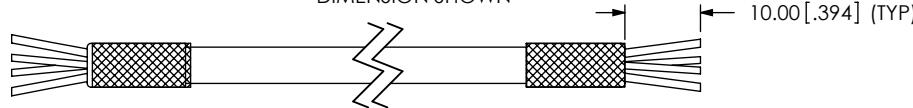
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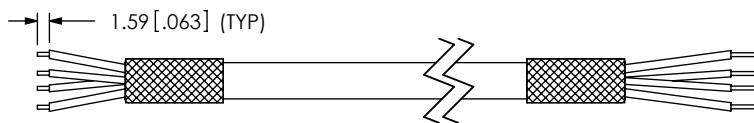
-BMS-BC: END OPTION  
IN-PROCESS 1  
CUT CABLES TO LENGTH & STRIP OUTER  
JACKET TO DIMENSION SHOWN



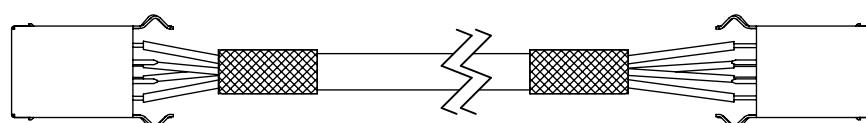
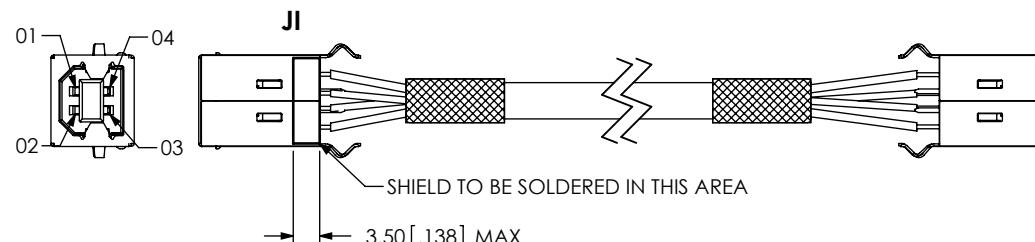
-BMS-BC: END OPTION  
IN-PROCESS 2  
FOLD BACK SHIELD & TRIM WIRES TO  
DIMENSION SHOWN



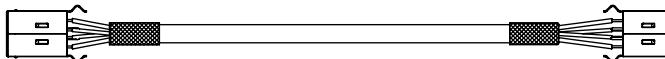
-BMS-BC: END OPTION  
IN-PROCESS 3  
STRIP INDIVIDUAL WIRES TO DIMENSION SHOWN



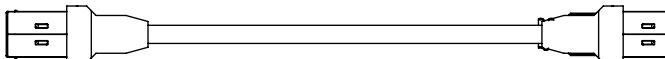
-BMS-BC: END OPTION  
IN-PROCESS 4  
TERMINATE TO USB-B-X-X-VTS-X  
(SEE NOTE 14) (SEE TABLE 2 FOR PIN OUT)



-BMS-BC: END OPTION  
IN-PROCESS 5  
CLIP TABS ON USB-B-S-X-XT-X



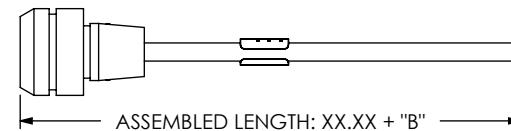
-BMS-BC: END OPTION  
IN-PROCESS 6  
ADD PREMOLD



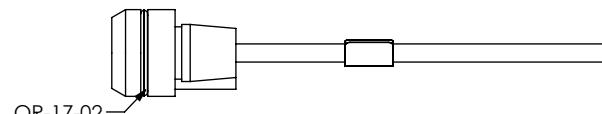
-BMS-BC: END OPTION  
IN-PROCESS 7  
ADD OVERMOLD



BMS-BC: END OPTION  
IN-PROCESS 8  
CUT IN HALF AND TRIM TO LENGTH



BMS-BC: END OPTION  
IN-PROCESS 9  
ADD O-RING



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SHEET SCALE: 1:1

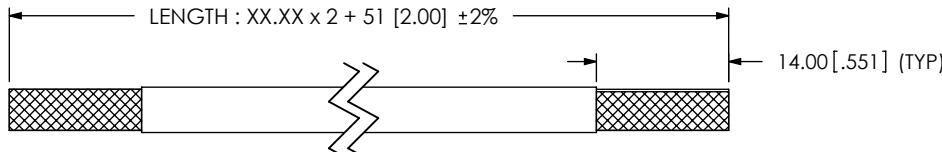
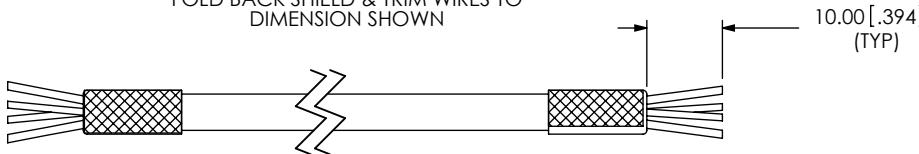
**Samtec**  
520 PARK EAST BLVD, NEW ALBANY, IN 47150  
PHONE: 812-944-6733 FAX: 812-948-5047  
e-Mail: info@SAMTEC.com code 55322

DESCRIPTION: PANEL MOUNT SEALED USB CABLE

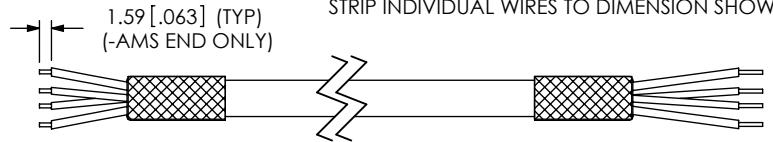
DWG. NO. SCRUS-17-X-XX.XX-XXX-XX

BY: LENNY K 09-01-2010 SHEET 9 OF 15

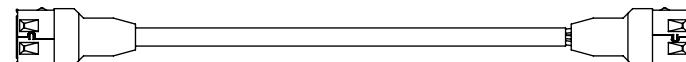
REVISION Y

-AMS-BC: END OPTION  
IN-PROCESS 1CUT CABLES TO LENGTH & STRIP OUTER  
JACKET TO DIMENSION SHOWN-AMS-BC: END OPTION  
IN-PROCESS 2FOLD BACK SHIELD & TRIM WIRES TO  
DIMENSION SHOWN-AMS-BC: END OPTION  
IN-PROCESS 3

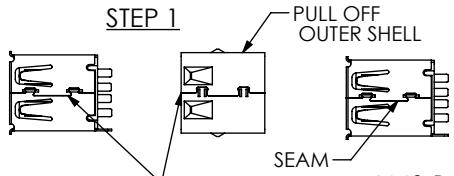
STRIP INDIVIDUAL WIRES TO DIMENSION SHOWN

AMS-BC: END OPTION  
IN-PROCESS 6

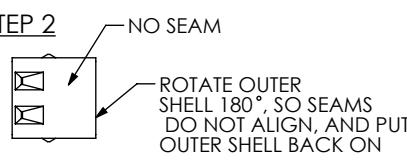
CLIP TABS ON USB-A-S-S-B-VTS-R

AMS-BC: END OPTION  
IN-PROCESS 7  
ADD PREMOLDAMS-BC: END OPTION  
IN-PROCESS 8  
ADD OVERMOLD

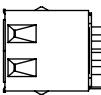
## STEP 1



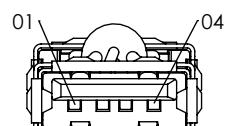
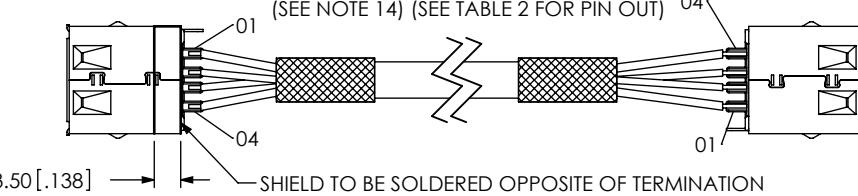
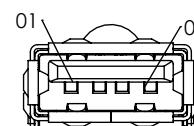
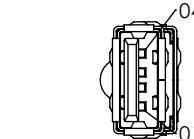
## STEP 2



## STEP 3



SEAMS CANNOT ALIGN

-AMS-BC: END OPTION  
IN-PROCESS 4  
MODIFY USB-A-S-S-B-VTS-R-AMS-BC: END OPTION  
IN-PROCESS 5TERMINATE TO USB-A-S-S-B-VTS-R  
(SEE NOTE 14) (SEE TABLE 2 FOR PIN OUT)SCALE 1.5:1  
FOR CLARITYSCALE 1.5:1  
FOR CLARITY

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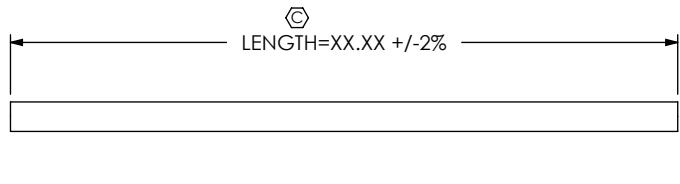
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520 PARK EAST BLVD, NEW ALBANY, IN 47150  
PHONE: 812-944-6733 FAX: 812-948-5047  
e-Mail: info@SAMTEC.com code 55322

DESCRIPTION: PANEL MOUNT SEALED USB CABLE

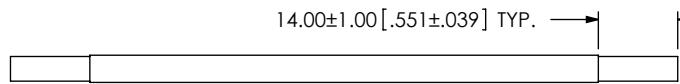
DWG. NO. SCRUS-17-X-XX.XX-XXX-XX

BY: LENNY K 09-01-2010 SHEET 100F 15

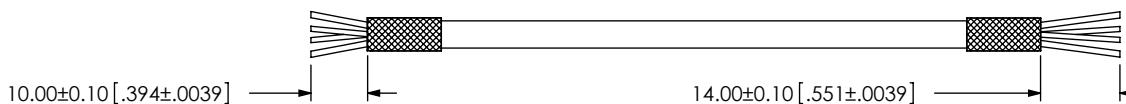
REVISION Y



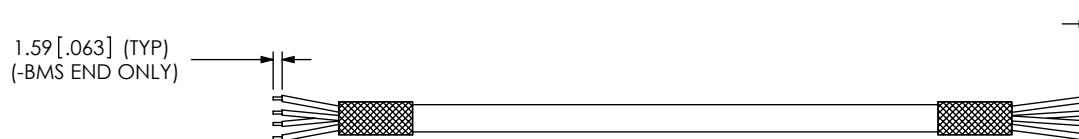
-BMS-AM: END OPTION  
IN-PROCESS 1  
UCA-03-01  
CUT CABLES TO LENGTH



-BMS-AM: END OPTION  
IN-PROCESS 2  
UCA-03-01  
STRIP OUTER JACKET TO DIMENSION SHOWN

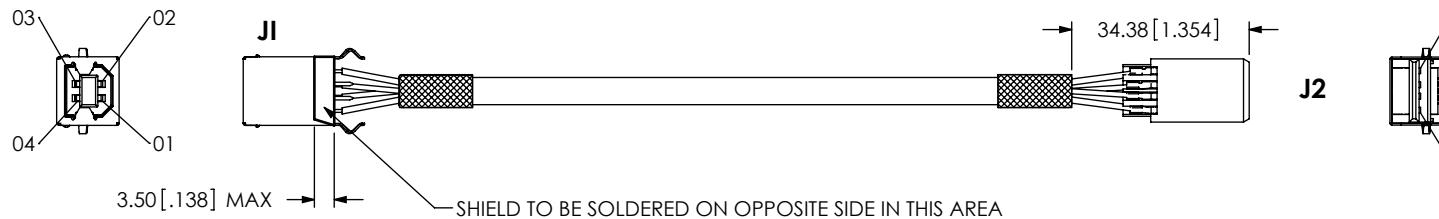


-BMS-AM: END OPTION  
IN-PROCESS 3  
FOLD BACK SHIELD & TRIM WIRES TO LENGTH

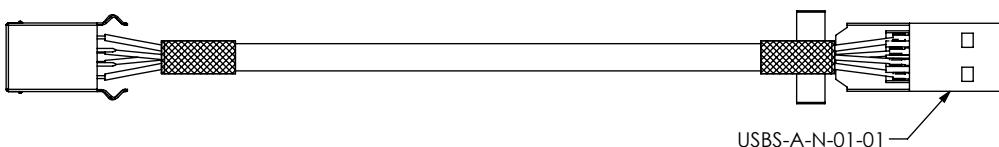


-BMS-AM: END OPTION  
IN-PROCESS 4  
STRIP INDIVIDUAL CABLES TO DIMENSION SHOWN

-BMS-AM: END OPTION  
IN-PROCESS 5  
TERMINATE TO USB-B-S-S-B-VT-R & SUB-USB-A-G-B-01



-BMS-AM: END OPTION  
IN-PROCESS 6  
ADD USBS-A-N-01-01 (SEE NOTE 13)



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e-Mail: info@SAMTEC.com code 55322

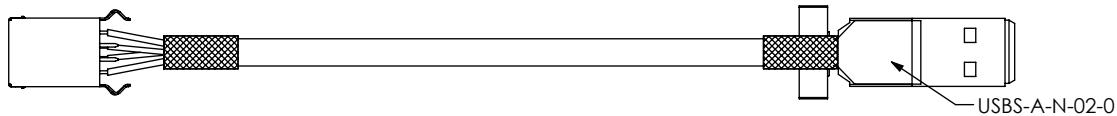
DESCRIPTION: PANEL MOUNT SEALED USB CABLE

DWG. NO. SCRUS-17-X-XX.XX-XXX-XX

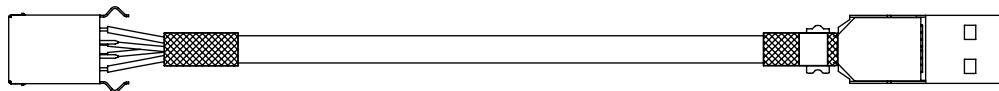
BY: LENNY K 09-01-2010 SHEET 11 OF 15

REVISION Y

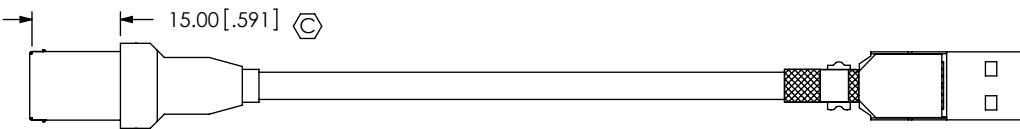
-BMS-AM: END OPTION  
IN-PROCESS 7  
ADD USBS-A-N-02-01 (SEE NOTE 13)



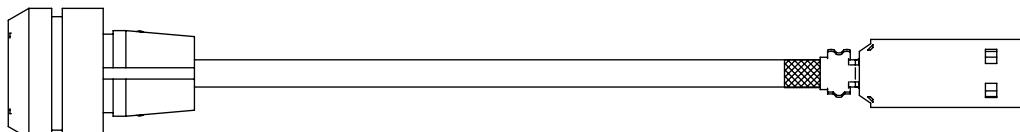
-BMS-AM: END OPTION  
IN-PROCESS 8 & 9  
CRIMP SHELLS OVERBAND  
TRIM SHIELD TAB ON USB-B-S-S-B-  
VT-R



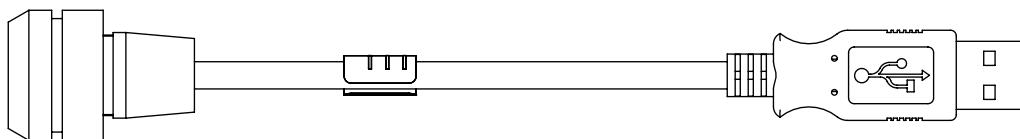
-BMS-AM: END OPTION  
IN-PROCESS 10  
PREMOLD  
(SAME AS -AMS-AM, UNLESS OTHERWISE NOTED)



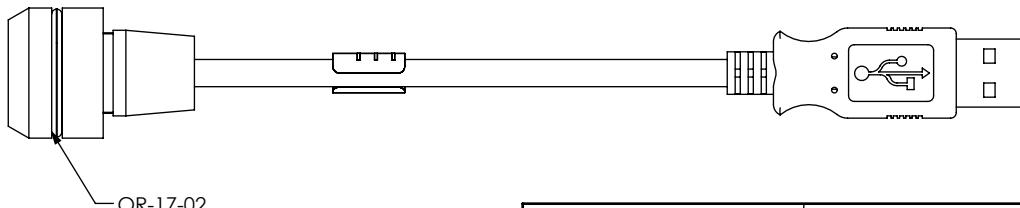
-BMS-AM: END OPTION  
IN-PROCESS 11  
OVERMOLD USB  
(SAME AS -AMS-AM, UNLESS OTHERWISE NOTED)



-BMS-AM: END OPTION  
IN-PROCESS 12  
ADD OVERMOLD TO END 2  
(SAME AS -AMS-AM, UNLESS  
OTHERWISE NOTED)



-BMS-AM: END OPTION  
N-PROCESS 13  
ADD OR-17-02



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PHONE: 812-944-6733 FAX: 812-948-5047  
e-Mail: info@SAMTEC.com code 55322

DESCRIPTION:  
PANEL MOUNT SEALED USB CABLE  
DWG. NO.  
**SCRUS-17-X-XX.XX-XXX-XX**  
BY: LENNY K 09-01-2010 SHEET 12 OF 15

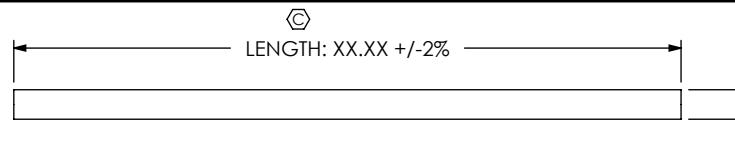
REVISION Y

-AMS-BM: END OPTION

IN-PROCESS 1

UCA-03-01

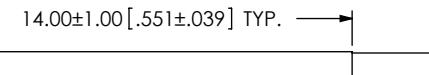
CUT CABLES TO LENGTH

-AMS-BM: END OPTION

IN-PROCESS 2

UCA-03-01

STRIP OUTER JACKET TO DIMENSION SHOWN

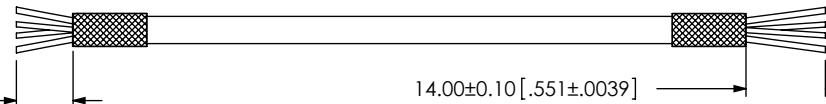
-AMS-BM: END OPTION

IN-PROCESS 3

FOLD BACK SHIELD &amp; TRIM WIRES TO LENGTH

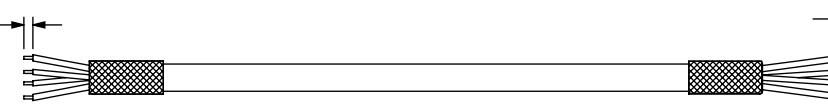
10.00 ± 0.10 [.394 ± .0039]

14.00 ± 0.10 [.551 ± .0039]

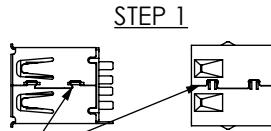
-AMS-BM: END OPTION

IN-PROCESS 4

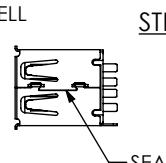
STRIP INDIVIDUAL CABLES TO DIMENSION SHOWN

1.59 [.063] (TYP)  
(-AMS END ONLY)3.18 [.125]  
(ALL OTHER ENDS)

SEAMS CANNOT ALIGN



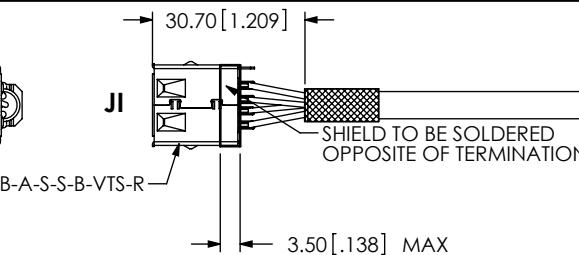
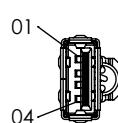
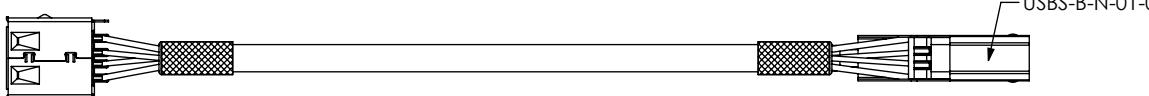
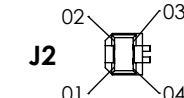
PULL OFF OUTER SHELL



STEP 2 NO SEAM

SEAM  
ROTATE OUTER SHELL 180°, SO SEAMS DO NOT ALIGN, AND PUT OUTER SHELL BACK ON-AMS-BM END OPTION  
IN-PROCESS 5  
MODIFY USB-A-S-S-B-VTS-R-AMS-BM END OPTION  
IN-PROCESS 6TERMINATE TO USB-A-S-S-B-VTS-R & SUB-USB-B-G-B-01  
(SEE NOTE 14)

(SEE TABLE 3 FOR PINOUT)

SHIELD TO BE SOLDERED  
OPPOSITE OF TERMINATION.SUB-USB-B-G-B-01  
(SEE NOTE 14)-AMS-BM END OPTION  
IN-PROCESS 7

ADD USBS-B-N-01-01 SHELL (SEE NOTE 14)

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e-Mail: info@SAMTEC.com code 55322

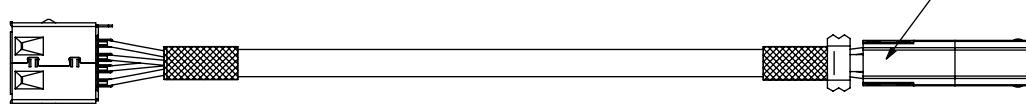
DESCRIPTION: PANEL MOUNT SEALED USB CABLE  
DWG. NO. SCRUS-17-X-XX.XX-XXX-XX  
BY: LENNY K 09-01-2010 SHEET 13 OF 15

REVISION Y

-AMS-BM END OPTION

IN-PROCESS 8

ADD USBS-B-N-02-01 SHELL (SEE NOTE 14)

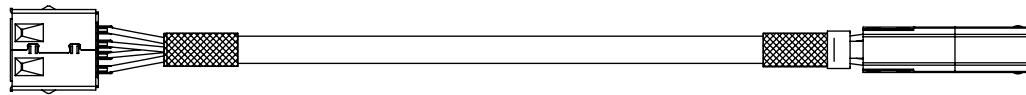


-AMS-BM END OPTION

IN-PROCESS 9 & 10

CRIMP SHELL OVER BRAID

TRIM TAB ON USB-A-S-S-B-VTS-R

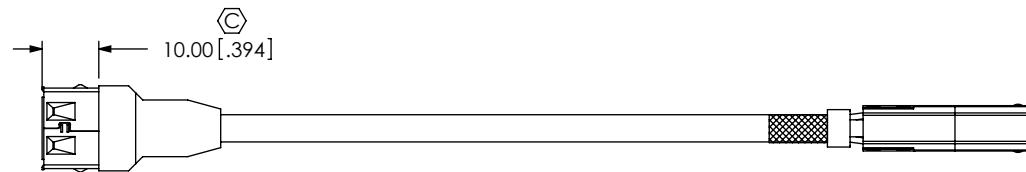


-AMS-BM END OPTION

IN-PROCESS 11

PREMOLD

(SAME AS -BMS-BM, UNLESS OTHERWISE STATED)

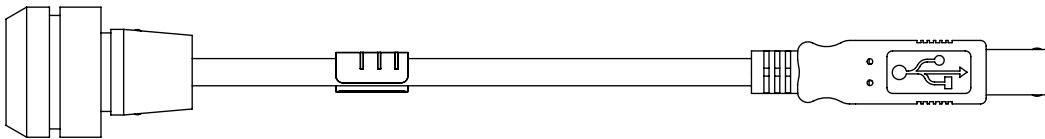


-AMS-BM END OPTION

IN-PROCESS 12

OVERMOLDING

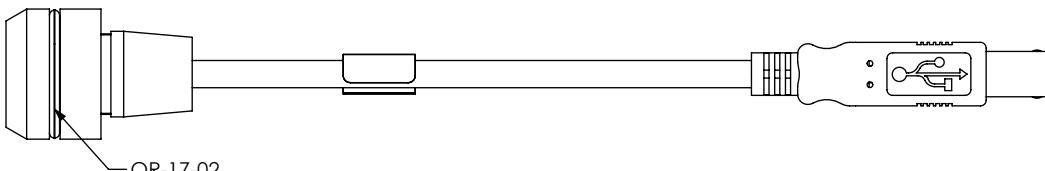
(SAME AS -BMS-BM, UNLESS OTHERWISE STATED)



-AMS-BM END OPTION

IN-PROCESS 13

ADD OR-17-02



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e-Mail: info@SAMTEC.com code 55322

DESCRIPTION: PANEL MOUNT SEALED USB CABLE

DWG. NO. SCRUS-17-X-XX.XX-XXX-XX

BY: LENNY K 09-01-2010 SHEET 14 OF 15

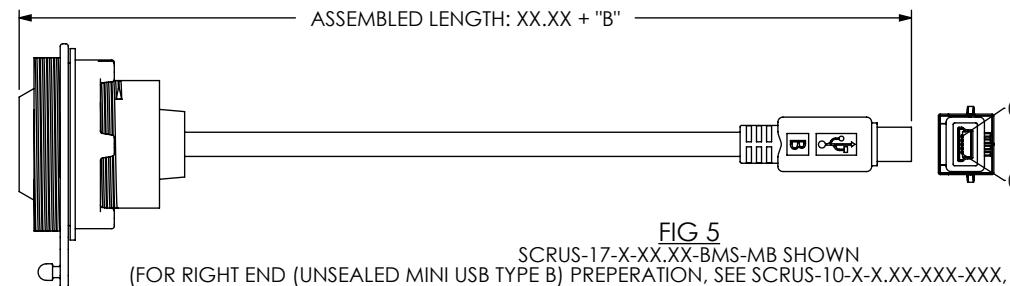
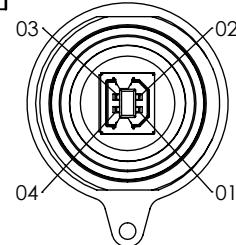


FIG 5

SCRUS-17-X-XX.XX-BMS-MB SHOWN

(FOR RIGHT END (UNSEALED MINI USB TYPE B) PREPARATION, SEE SCRUS-10-X-X.XX-XXX-XXX, -MB RIGHT END OPTION)

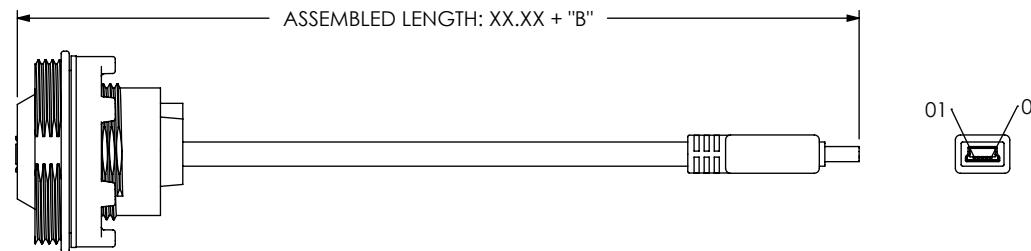
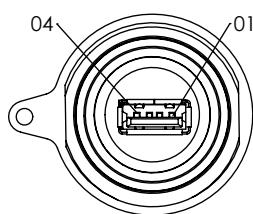


FIG 6

SCRUS-17-X-XX.XX-AMS-MB SHOWN

(FOR RIGHT END (UNSEALED MINI USB TYPE B) PREPARATION, SEE SCRUS-10-X-X.XX-XXX-XXX, -MB RIGHT END OPTION)

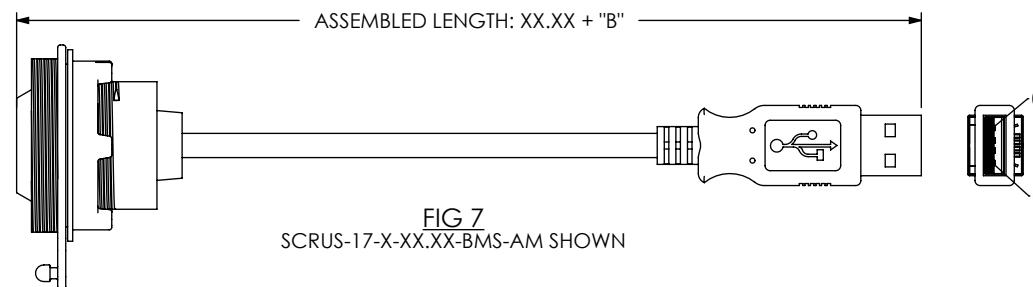
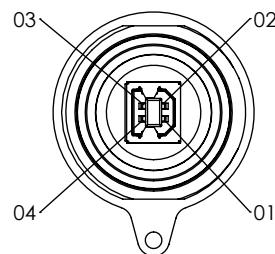


FIG 7

SCRUS-17-X-XX.XX-BMS-AM SHOWN

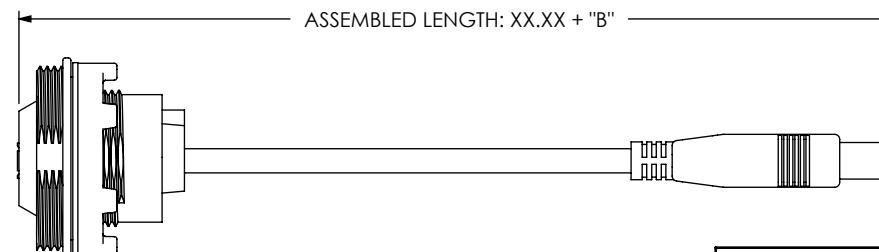
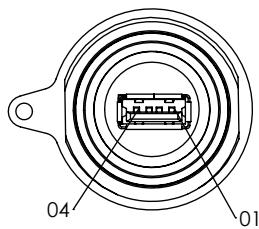


FIG 8

SCRUS-17-X-XX.XX-AMS-BM SHOWN

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SHEET SCALE: 1:1

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PHONE: 812-944-6733 FAX: 812-948-5047  
e-Mail: [info@SAMTEC.com](mailto:info@SAMTEC.com) code 55322

DESCRIPTION: PANEL MOUNT SEALED USB CABLE

DWG. NO. SCRUS-17-X-XX.XX-XXX-XX

BY: LENNY K 09-01-2010

SHEET 15 OF 15