

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]

 THIS PRODUCT MANUFACTURED
WITH LEAD-FREE PROCESSING

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

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

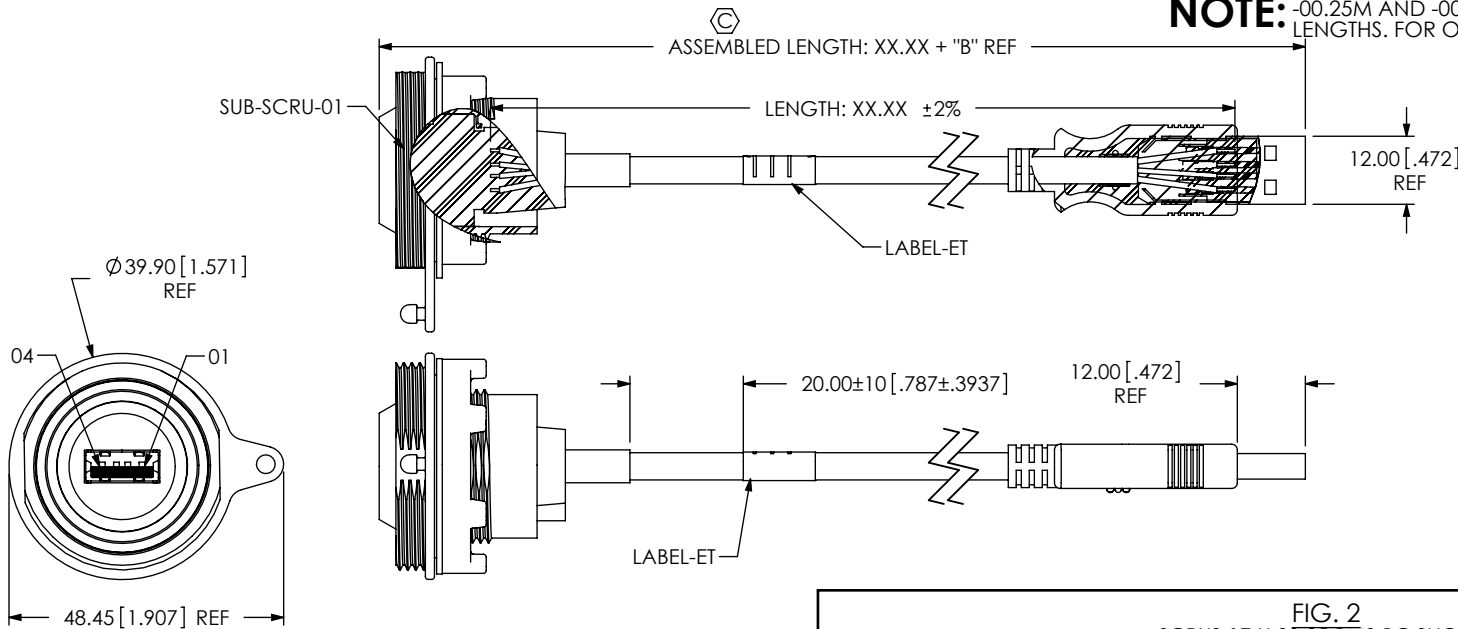
LENGTH
-XX.XX LENGTH IN METERS
(00.25[9.84] MIN - 50.00[1968.50] MAX)
(SEE NOTE 15)

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

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

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




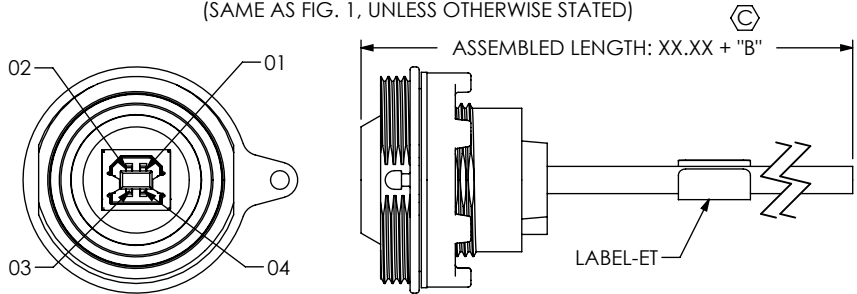
- NOTES:
1.  REPRESENTS A CRITICAL DIMENSION.
 2. ASSEMBLY TO BE 100% TESTED FOR OPENS AND SHORTS, HI-POT TEST AT 200V BEFORE PREMOLD IN-PROCESS AND ON FINISHED ASSEMBLY. AFTER FINAL ELECTRICAL TEST, LABEL EACH ASSEMBLY WITH 1 LABEL-ET.
 3. NOTE DELETED.
 4. USB LOGO TO BE RAISED 0.25[.010].
 5. PANEL 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.

FIG. 2
SCRUS-17-X-00.25-BMS-BC SHOWN
(SAME AS FIG. 1, UNLESS OTHERWISE STATED)




<p>UNLESS OTHERWISE SPECIFIED, DIMENSIONS ARE IN MILLIMETERS. TOLERANCES ARE: DECIMALS ANGLES X.X: ±0.35 [.013] X.XX: ±0.25 [.010] X.XXX: ±0.15 [.006]</p>	<p>PROPRIETARY NOTE THIS DOCUMENT CONTAINS INFORMATION CONFIDENTIAL AND PROPRIETARY TO SAMTEC, INC. AND SHALL NOT BE REPRODUCED OR TRANSFERRED TO OTHER DOCUMENTS OR DISCLOSED TO OTHERS OR USED FOR ANY PURPOSE OTHER THAN THAT WHICH IT WAS OBTAINED WITHOUT THE EXPRESSED WRITTEN CONSENT OF SAMTEC, INC.</p>	 <p>520 PARK EAST BLVD, NEW ALBANY, IN 47150 PHONE: 812-944-6733 FAX: 812-948-5047 e-Mail info@SAMTEC.com code 55322</p>
<p>MATERIAL: INSULATOR: GLASS FILLED THERMOPLASTIC CONTACTS: COPPER ALLOY SHIELDS: CRS CABLE NUT: PA66 SEALED PREMOLD: TPE(RF 640A), SHOT WEIGHT: 10.66g [.024lb] SEALED OVERMOLD: PA66 GF13 FR(70G13L), MAX REGRIND: 10%, SHOT WEIGHT: 12.70g [.028lb] NON-SEALED OVERMOLD: PVC, MAX REGRIND: 30%, SHOT WEIGHT: 9.07g [.020lb]</p>	<p>DO NOT SCALE DRAWING SHEET SCALE: 1:1.33333 MAX FLASH ALLOWED: 0.05[.002] MAX GATE VESTIGE: 0.05[.002]</p>	<p>DESCRIPTION: PANEL MOUNT SEALED USB CABLE DWG. NO. SCRUS-17-X-XX.XX-XXX-XX BY: LENNY K 09-01-2010 SHEET 1 OF 15</p>

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

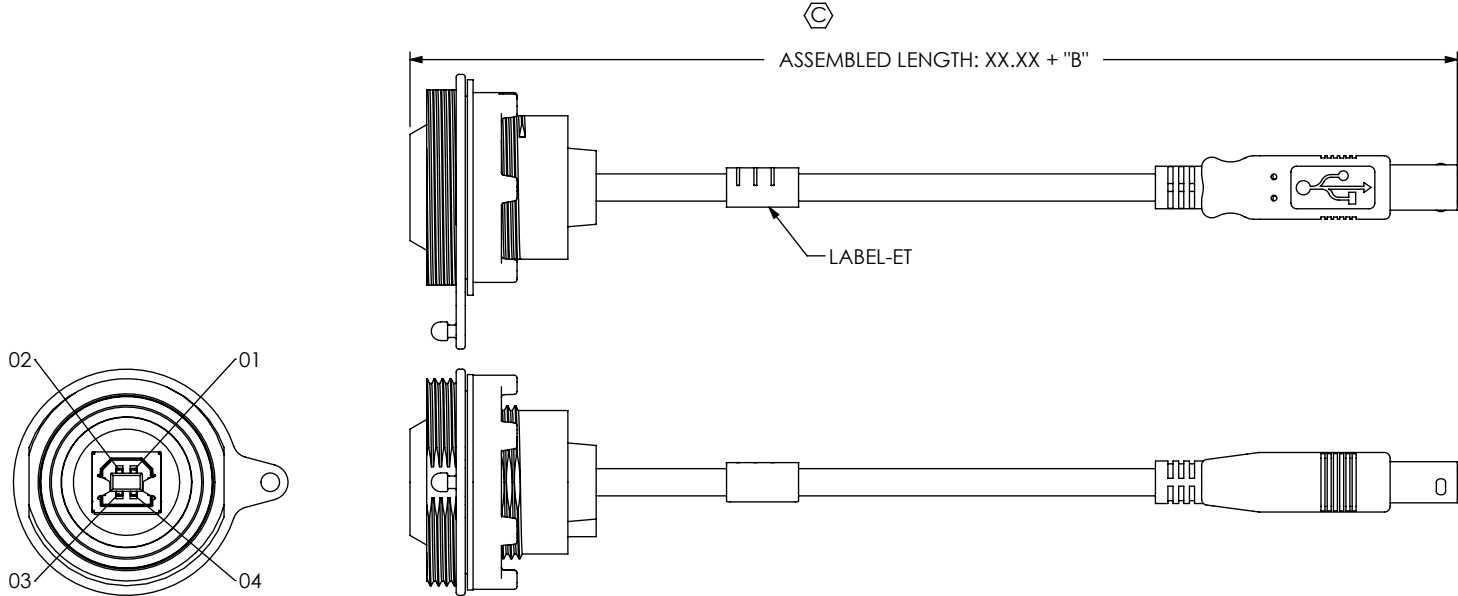


FIG. 4
SCRUS-17-X-00.25-AMS-BC SHOWN
(SAME AS FIG. 1, UNLESS OTHERWISE STATED)

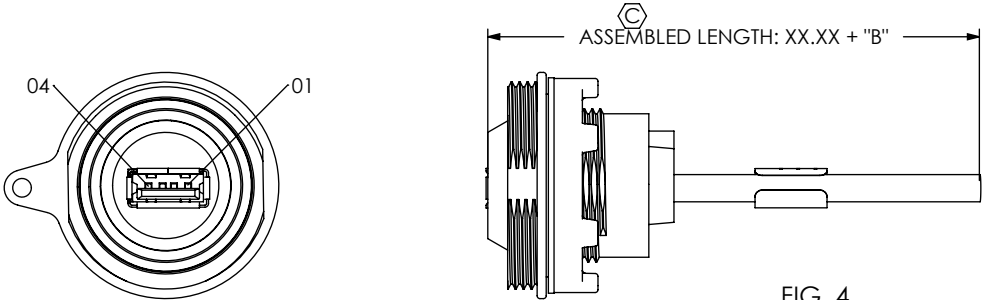


TABLE 2: PIN-OUT						
J1 End		Wire Color	J2 End			
-AMS	-BMS		-AM	-BM	-BC	-MB
01	01	RED	01	01	01	01
02	02	WHITE	02	02	02	02
03	03	GREEN	03	03	03	03
n/a	n/a	NOT CONNECTED	n/a	n/a	n/a	04
04	04	BLACK	04	04	04	05
USB Shield	USB Shield	DRAIN/CABLE SHIELD	USB Shield	USB Shield	USB Shield	USB Shield

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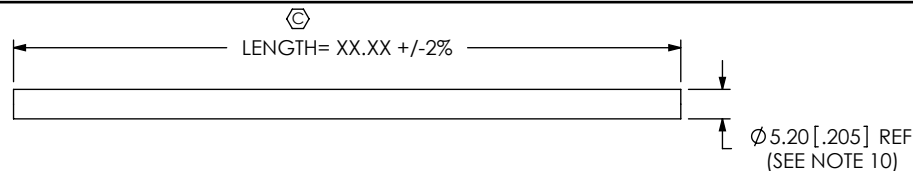
DO NOT SCALE DRAWING

SHEET SCALE: 1:2

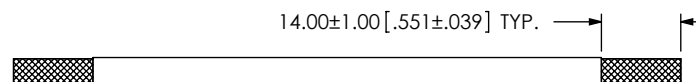
520 PARK EAST BLVD, NEW ALBANY, IN 47150
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e-Mail info@SAMTEC.com code 55322

DESCRIPTION: PANEL MOUNT SEALED USB CABLE	
DWG. NO. SCRUS-17-X-XX.XX-XXX-XX	
BY: LENNY K	09-01-2010
SHEET 2 OF 15	

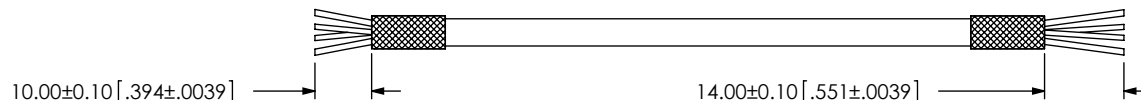
REVISION X



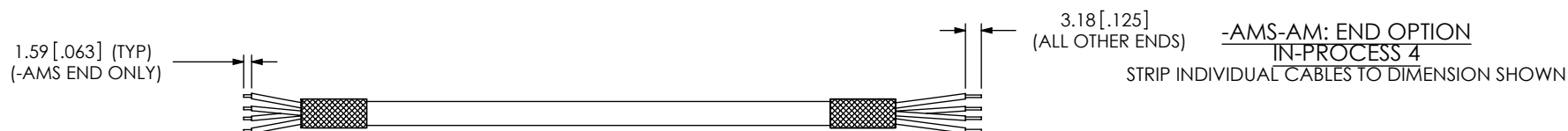
-AMS-AM: END OPTION
IN-PROCESS 1
UCA-03-01
CUT CABLES TO LENGTH



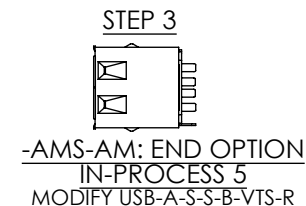
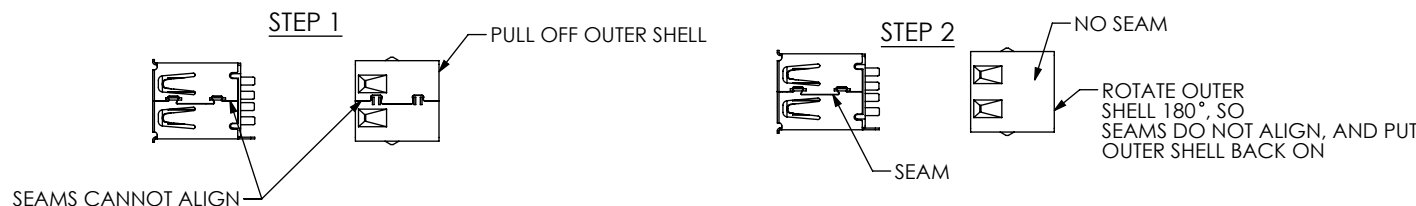
-AMS-AM: END OPTION
IN-PROCESS 2
UCA-03-01
STRIP OUTER JACKET TO DIMENSION SHOWN



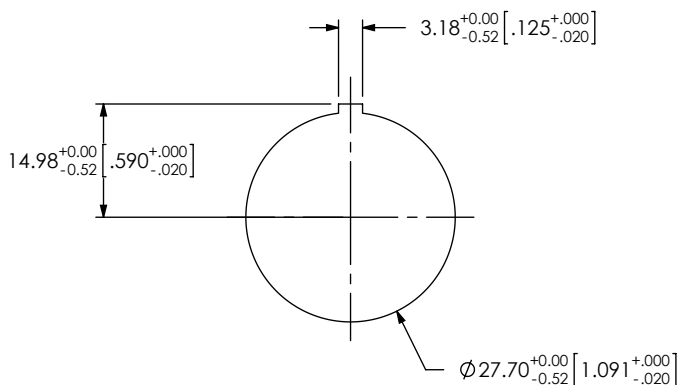
-AMS-AM: END OPTION
IN-PROCESS 3
FOLD BACK SHIELD & TRIM WIRES TO LENGTH



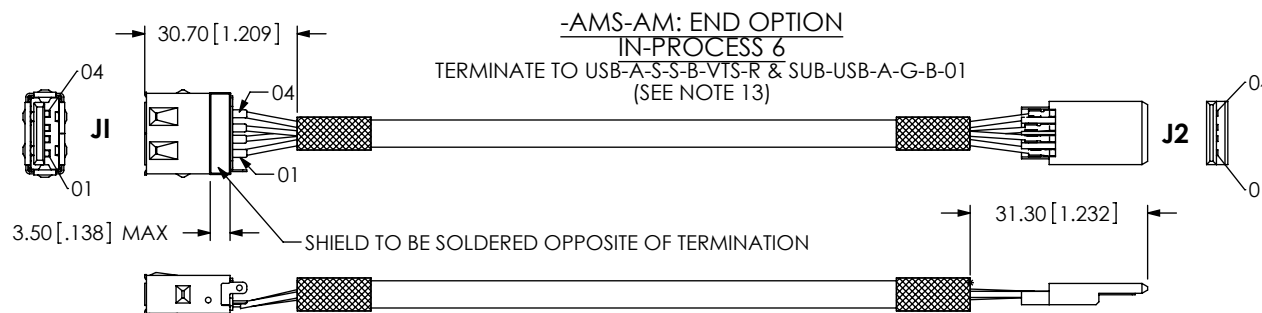
-AMS-AM: END OPTION
IN-PROCESS 4
STRIP INDIVIDUAL CABLES TO DIMENSION SHOWN



RECOMMENDED PANEL HOLE
(SEE NOTE 5)



F:\DWG\MISC\MKTG\SCRUS-17-X-XX-XX-XXX-XX-MKT.SLDDRW



-AMS-AM: END OPTION
IN-PROCESS 6
TERMINATE TO USB-A-S-S-B-VTS-R & SUB-USB-A-G-B-01
(SEE NOTE 13)

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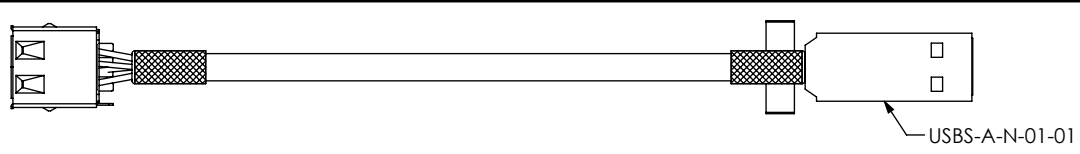
DESCRIPTION:
PANEL MOUNT SEALED USB CABLE

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

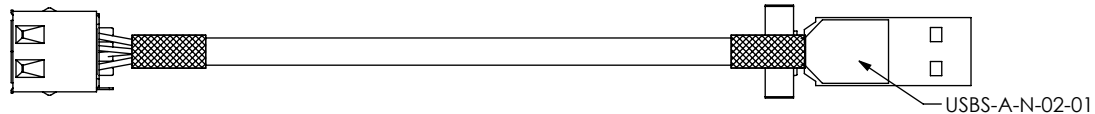
BY: LENNY K 09-01-2010 SHEET 3 OF 15

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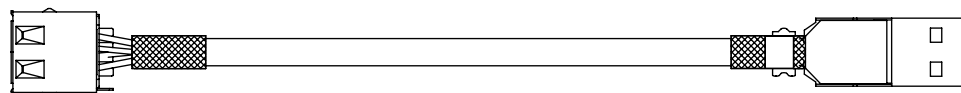
-AMS-AM: END OPTION
IN-PROCESS 7
ADD USB-A-N-01-01 (SEE NOTE 13)



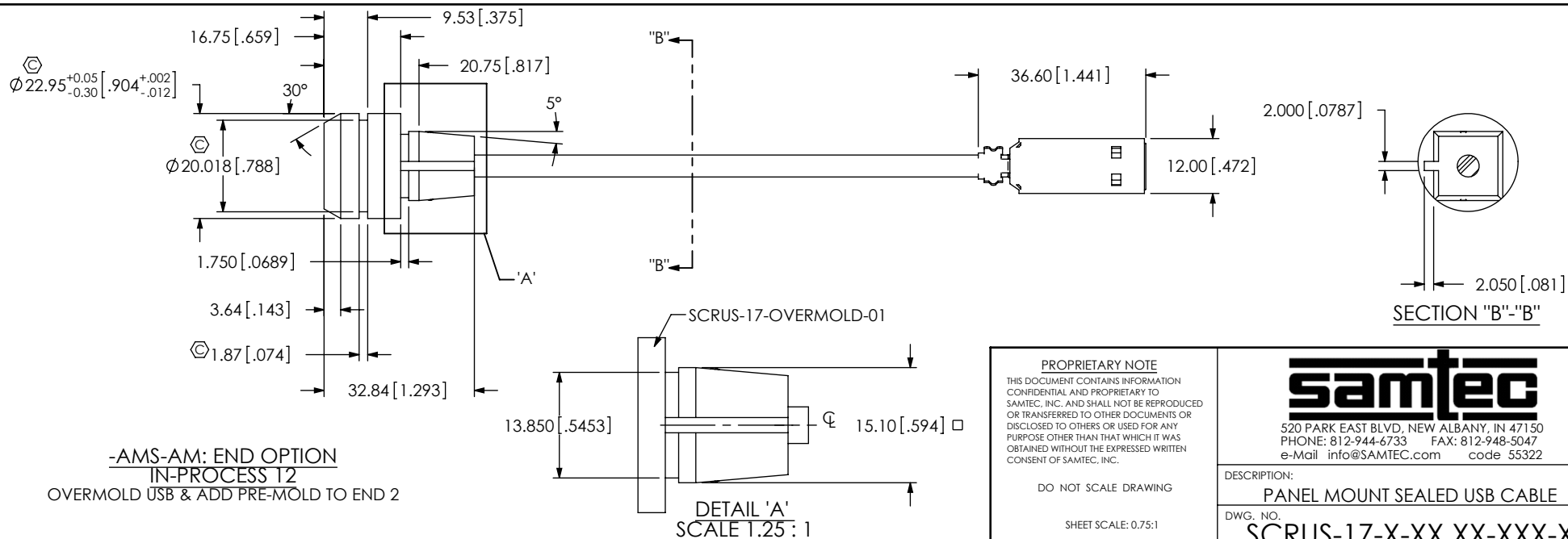
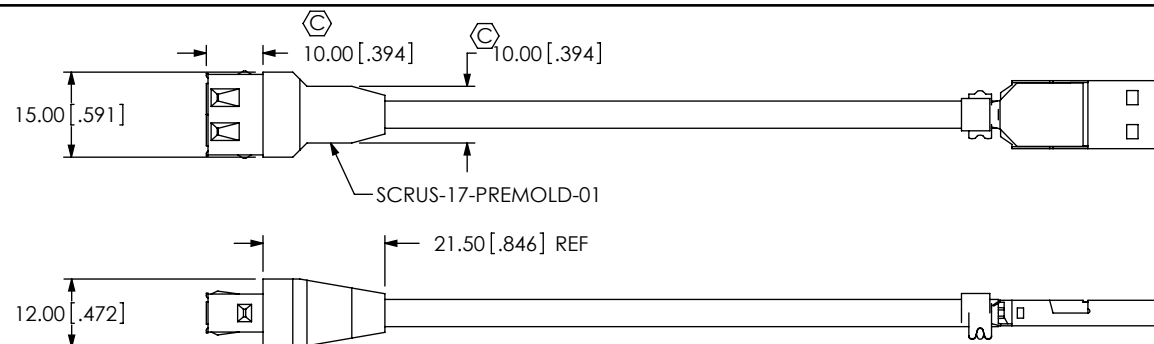
-AMS-AM: END OPTION
IN-PROCESS 8
ADD USB5-A-N-02-01 (SEE NOTE 13)



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



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



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DESCRIPTION:

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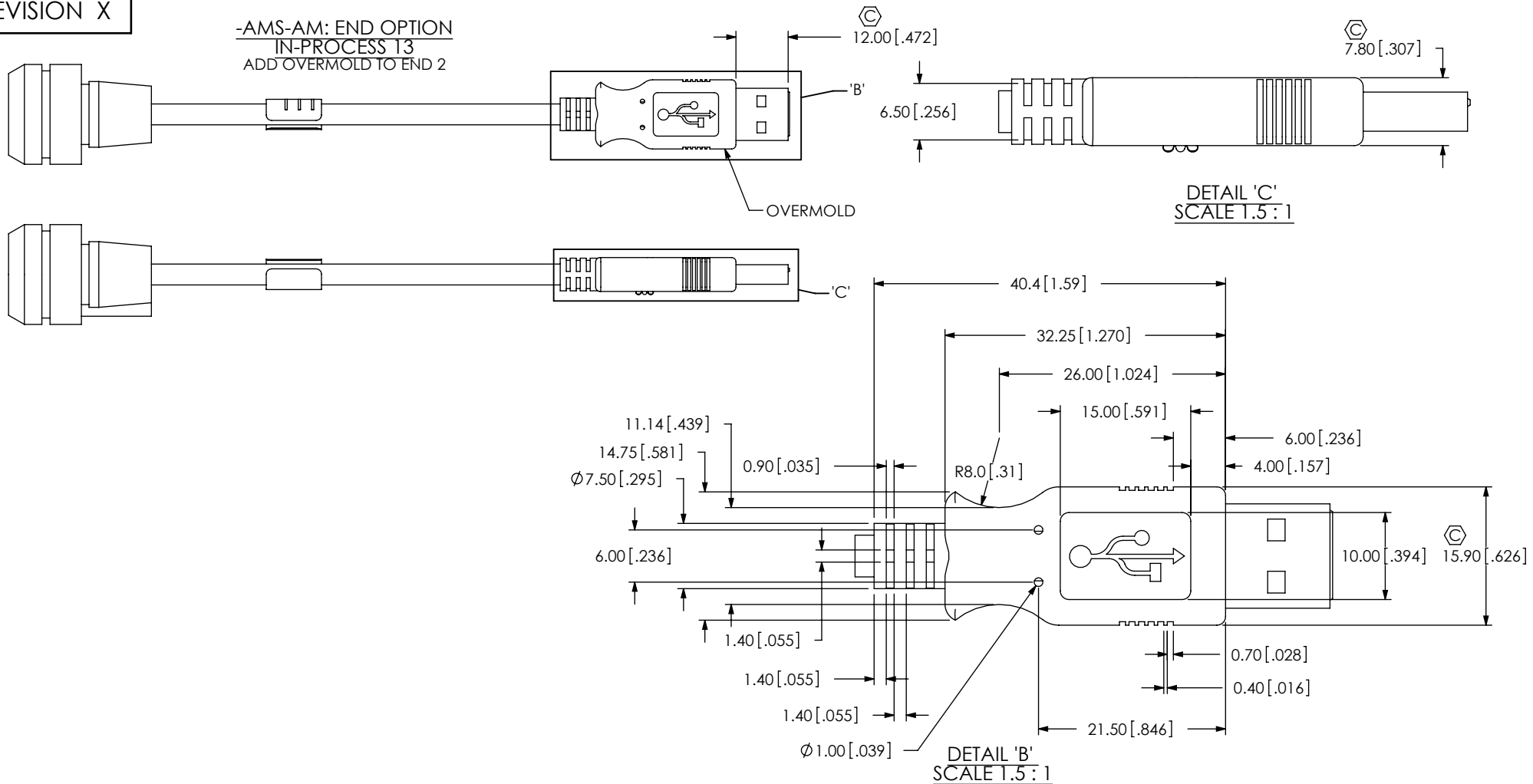
DWG. NO. **SCRUS-17-X-XX.XX-XXX-XX**

BY: LENNY K	09-01-2010	SHEET 4 OF 15
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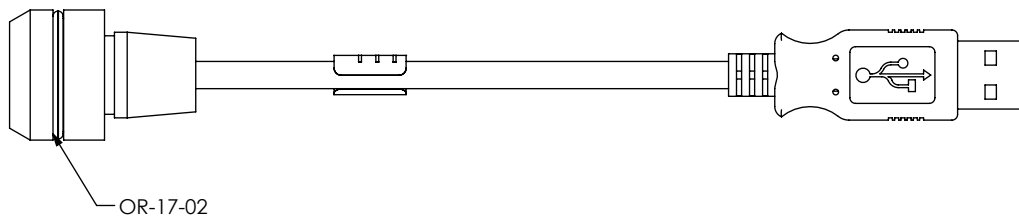
09-01-2010	SHEET 4 OF 15
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-AMS-AM: END OPTION
IN-PROCESS T3
ADD OVERMOLD TO END 2



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



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DWG. NO.

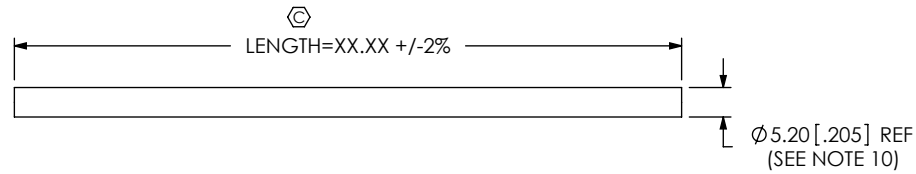
SCRUS-17-X-XX.XX-XXX-XX

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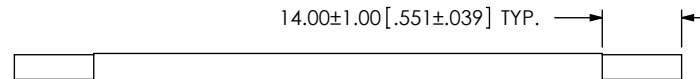
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SHEET 5 OF 15

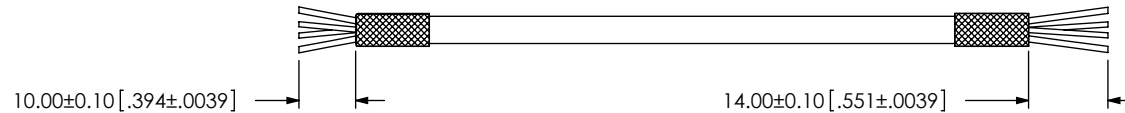
-BMS-BM: END OPTION
IN-PROCESS 1
UCA-03-01
CUT CABLES TO LENGTH



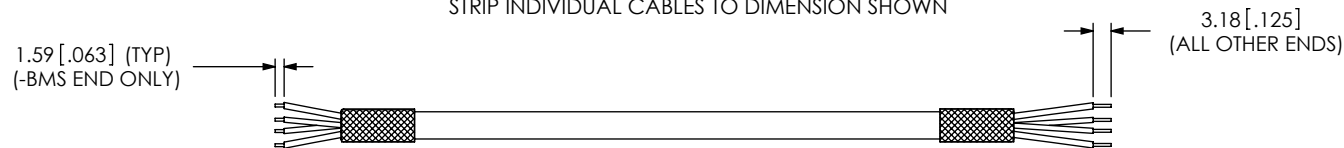
-BMS-BM: END OPTION
IN-PROCESS 2
UCA-03-01
STRIP OUTER JACKET TO DIMENSION SHOWN



-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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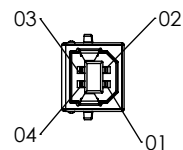
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e-Mail info@SAMTEC.com code 55322

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3.50 [.138] MAX

J1

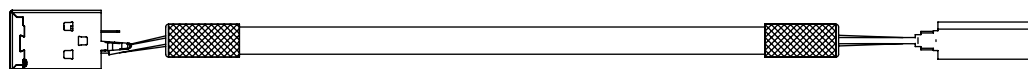
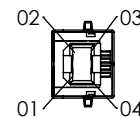
USB-B-S-S-B-VT-R

TERMINATE TO USB-B-S-S-B-VT-R & SUB-USB-B-G-B-01 (SEE NOTE 14)
(SEE TABLE 3 FOR PINOUT)

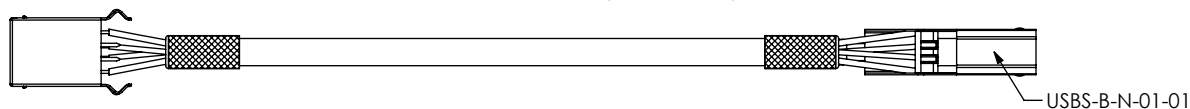
SHIELD TO BE SOLDERED
ON OPPOSITE SIDE IN THIS AREA.

SUB-USB-B-G-B-01
(SEE NOTE 14)

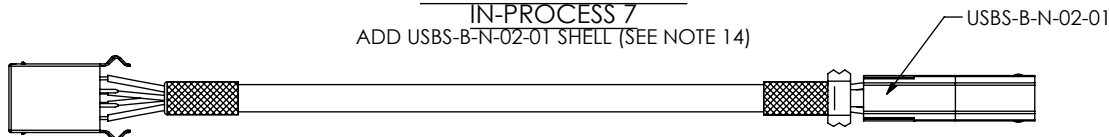
J2



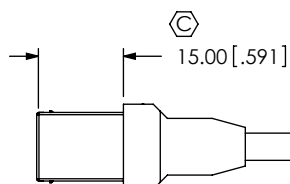
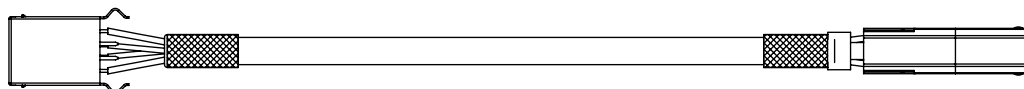
-BMS-BM END OPTION
IN-PROCESS 6
ADD USBS-B-N-01-01 SHELL (SEE NOTE 14)



-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)

F:\DWG\MISC\MKTG\SCRUS-17-X-XX.XX-XXX-XX-MKT.SLDDRW

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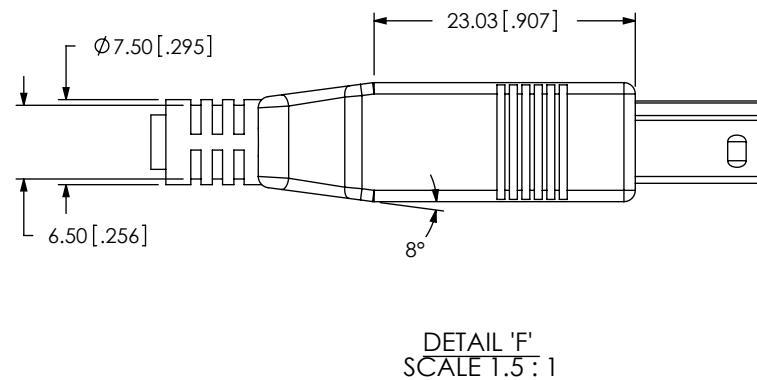
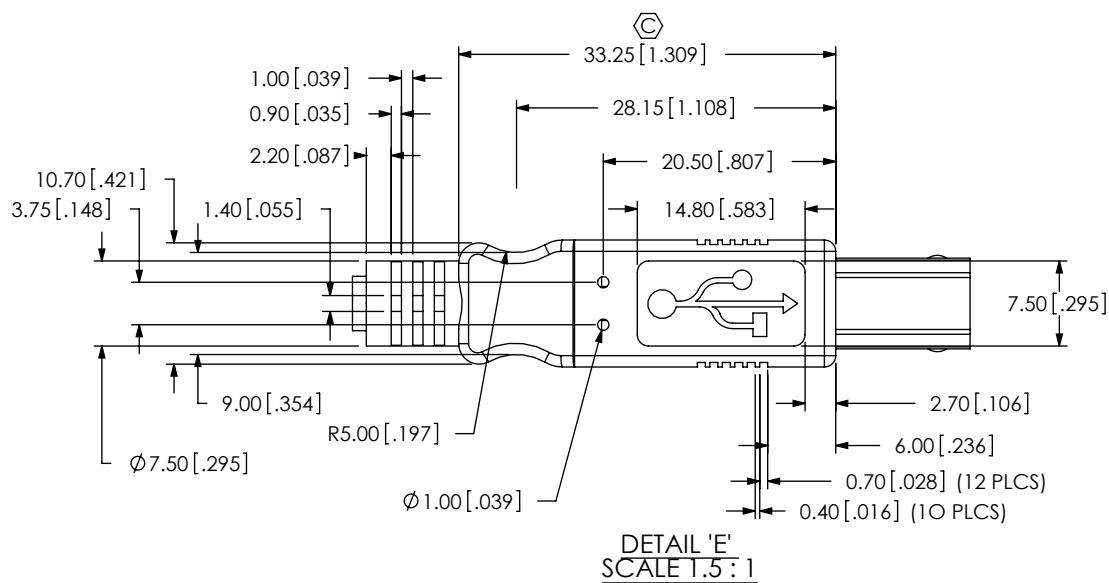
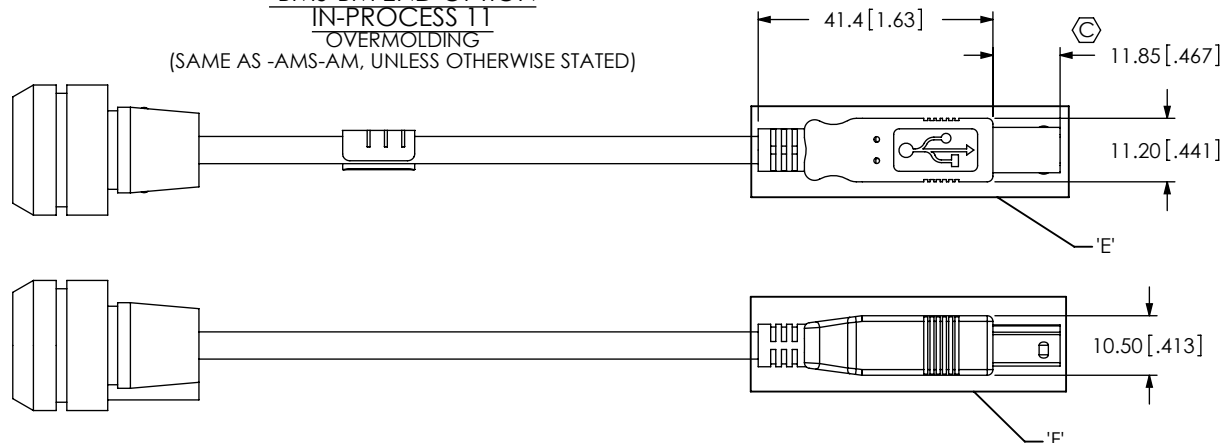
SCRUS-17-X-XX.XX-XXX-XX

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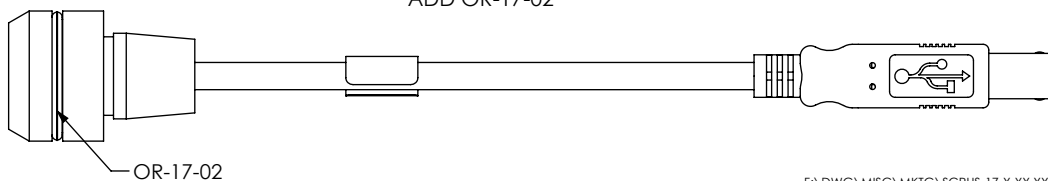
09-01-2010

SHEET 7 OF 15

-BMS-BM END OPTION
IN-PROCESS T1
OVERMOLDING
(SAME AS -AMS-AM, UNLESS OTHERWISE STATED)



-BMS-BM END OPTION
IN-PROCESS T2
ADD OR-17-02



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SHEET SCALE: 1:2

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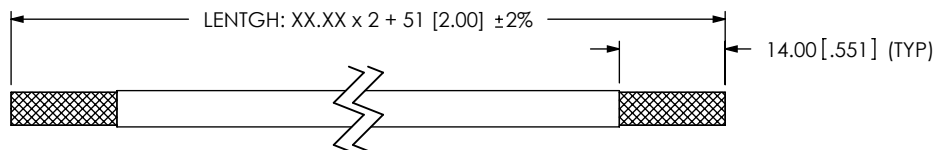
DESCRIPTION:
PANEL MOUNT SEALED USB CABLE

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

BY: LENNY K 09-01-2010 SHEET 8 OF 15

REVISION X

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



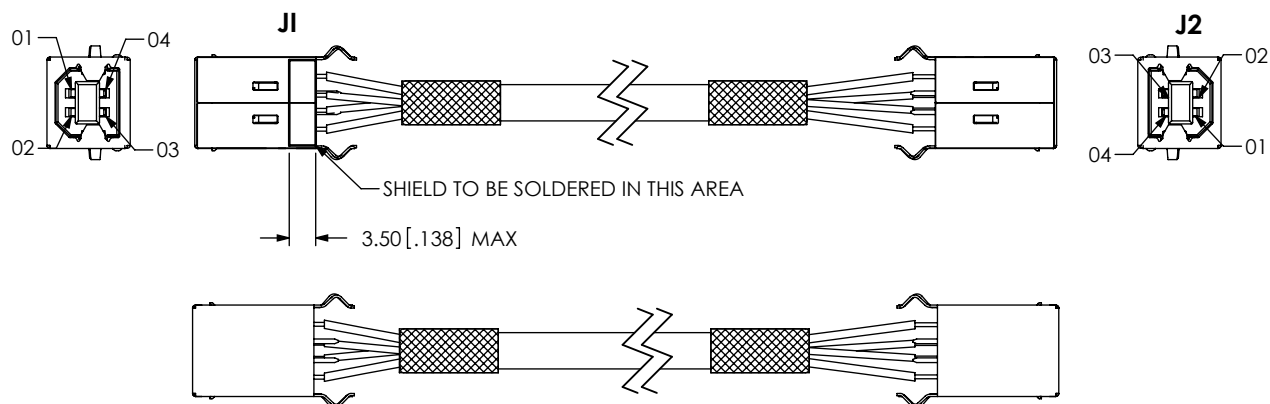
-BMS-BC: END OPTION
IN-PROCESS 2
FOLD BACK SHIELD & TRIM WIRES TO
DIMENSION SHOWN



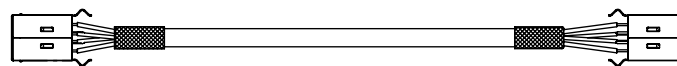
-BMS-BC: END OPTION
IN-PROCESS 3
STRIP INDIVIDUAL WIRES TO DIMENSION SHOWN



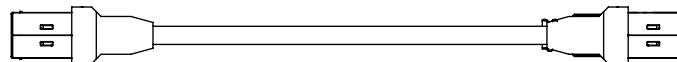
-BMS-BC: END OPTION
IN-PROCESS 4
TERMINATE TO USB-B-X-X-VTS-X
(SEE NOTE 14) (SEE TABLE 2 FOR PIN OUT)



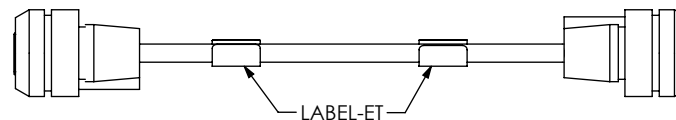
-BMS-BC: END OPTION
IN-PROCESS 5
CLIP TABS ON USB-B-X-X-VT-X



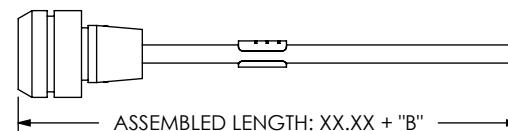
-BMS-BC: END OPTION
IN-PROCESS 6
ADD PREMOLD



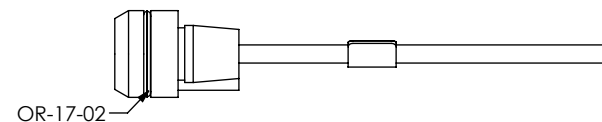
-BMS-BC: END OPTION
IN-PROCESS 7
ADD OVERMOLD



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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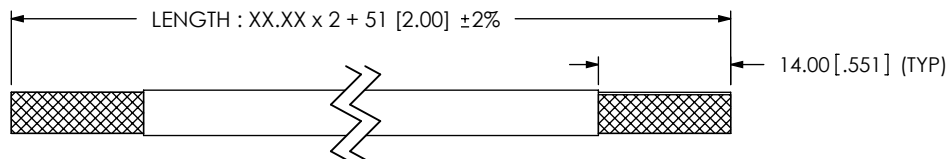
DESCRIPTION:
PANEL MOUNT SEALED USB CABLE

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

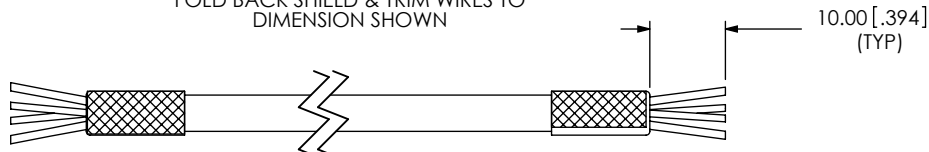
BY: LENNY K 09-01-2010 SHEET 9 OF 15

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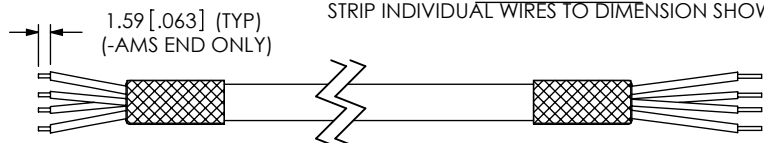
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IN-PROCESS 1
CUT CABLES TO LENGTH & STRIP OUTER
JACKET TO DIMENSION SHOWN



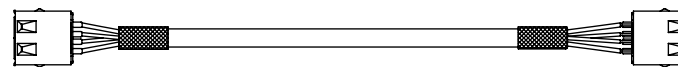
-AMS-BC: END OPTION
IN-PROCESS 2
FOLD BACK SHIELD & TRIM WIRES TO
DIMENSION SHOWN



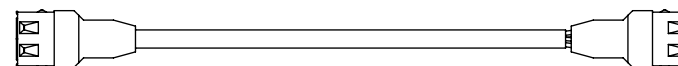
-AMS-BC: END OPTION
IN-PROCESS 3
STRIP INDIVIDUAL WIRES TO DIMENSION SHOWN



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 PREMOLD



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



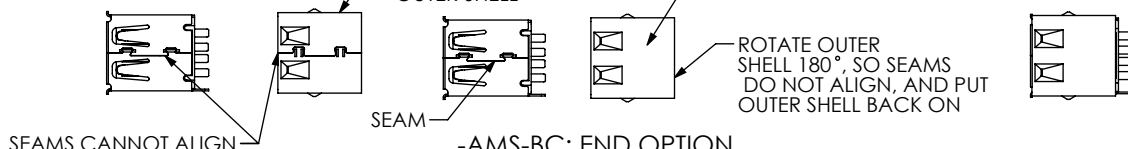
STEP 1

PULL OFF
OUTER SHELL

STEP 2

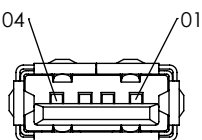
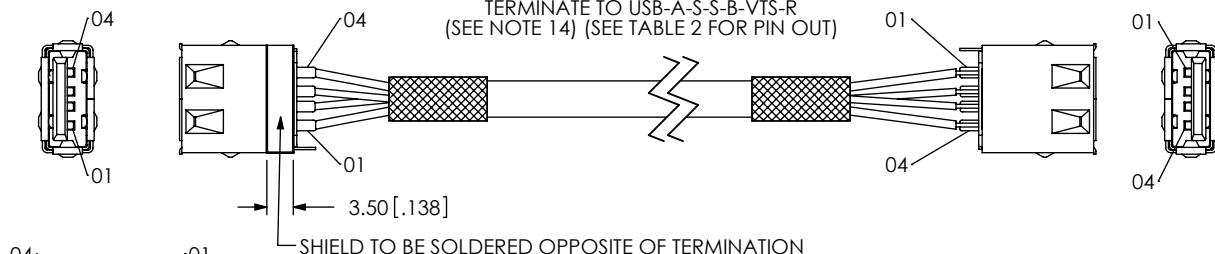
NO SEAM

STEP 3

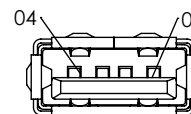


-AMS-BC: END OPTION
IN-PROCESS 4
MODIFY USB-A-S-S-B-VTS-R

-AMS-BC: END OPTION
IN-PROCESS 5
TERMINATE TO USB-A-S-S-B-VTS-R
(SEE NOTE 14) (SEE TABLE 2 FOR PIN OUT)

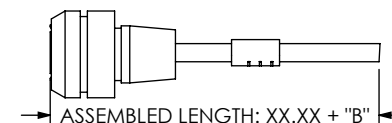


SCALE 1.5:1
FOR CLARITY

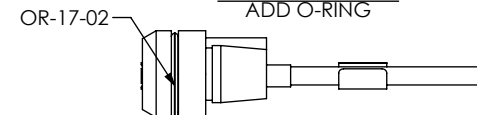


SCALE 1.5:1
FOR CLARITY

AMS-BC: END OPTION
IN-PROCESS 9
CUT IN HALF AND TRIM TO LENGTH



AMS-BC: END OPTION
IN-PROCESS 10
ADD O-RING



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DWG. NO.

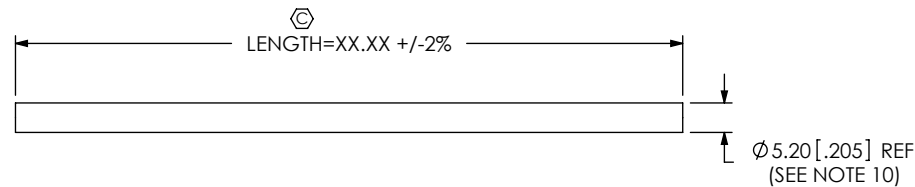
SCRUS-17-X-XX.XX-XXX-XX

BY: LENNY K

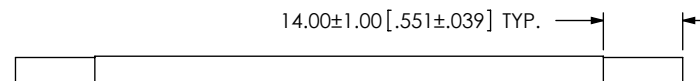
09-01-2010

SHEET 10 OF 15

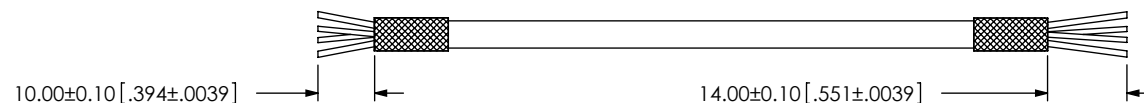
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-BMS-AM: END OPTION
IN-PROCESS 1
UCA-03-01
CUT CABLES TO LENGTH

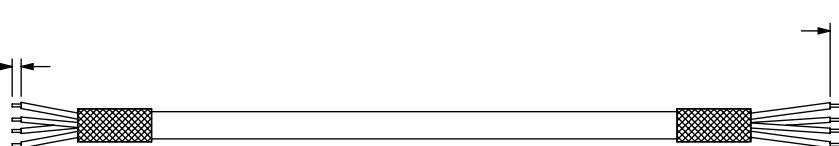


-BMS-AM: END OPTION
IN-PROCESS 2
UCA-03-01
STRIP OUTER JACKET TO DIMENSION SHOWN



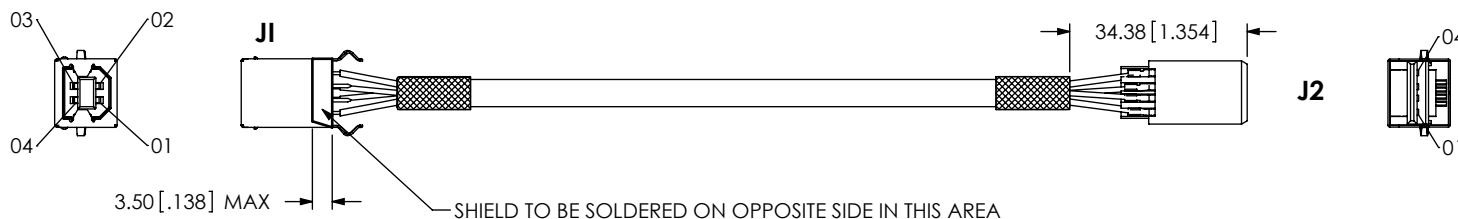
-BMS-AM: END OPTION
IN-PROCESS 3
FOLD BACK SHIELD & TRIM WIRES TO LENGTH

1.59 [.063] (TYP)
(-BMS END ONLY)

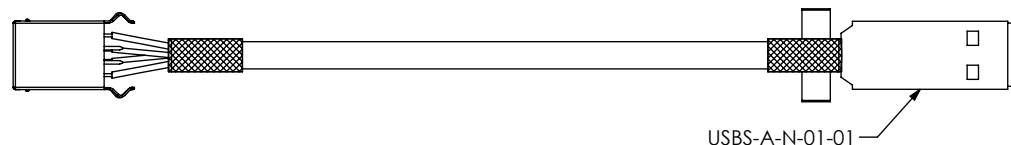


-BMS-AM: END OPTION
IN-PROCESS 4
STRIP INDIVIDUAL CABLES TO DIMENSION SHOWN

-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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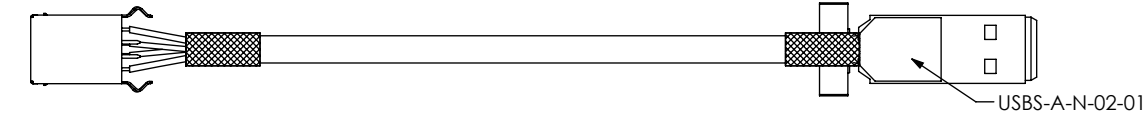
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PHONE: 812-944-6733 FAX: 812-948-5047
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DESCRIPTION:
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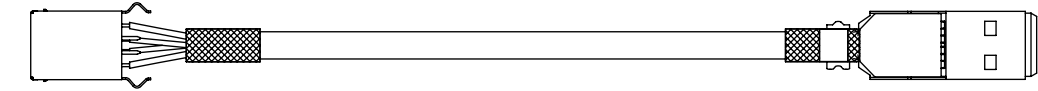
DWG. NO.
SCRUS-17-X-XX.XX-XXX-XX

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

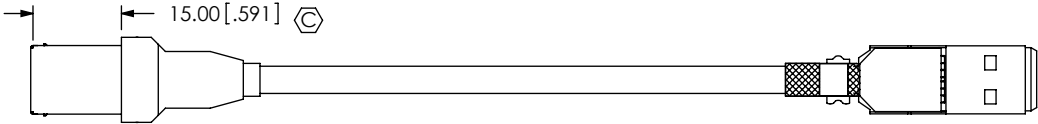
-BMS-AM: END OPTION
IN-PROCESS 7
ADD USB5-A-N-02-01 (SEE NOTE 13)



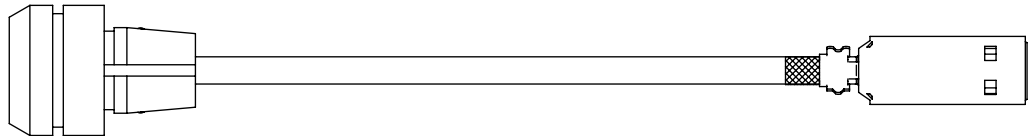
-BMS-AM: END OPTION
IN-PROCESS 8 & 9
CRIMP SHELLS OVERBAND
TRIM SHIELD TAB ON USB-B-S-S-B-VT-R



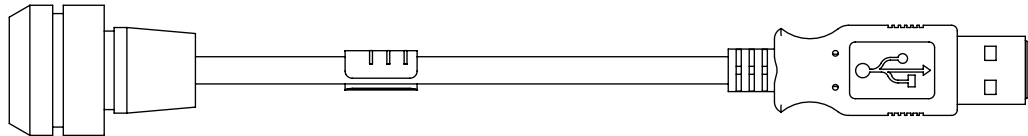
-BMS-AM: END OPTION
IN-PROCESS 10
PREMOLD
(SAME AS -AMS-AM, UNLESS OTHERWISE NOTED)



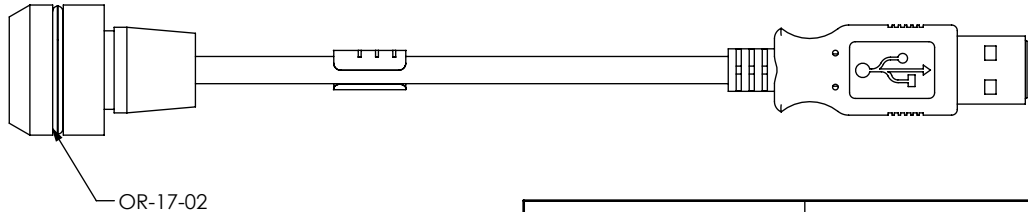
-BMS-AM: END OPTION
IN-PROCESS 11
OVERMOLD USB
(SAME AS -AMS-AM, UNLESS OTHERWISE NOTED)



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



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



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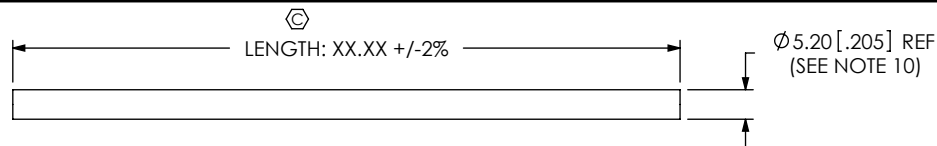
DESCRIPTION:
PANEL MOUNT SEALED USB CABLE

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

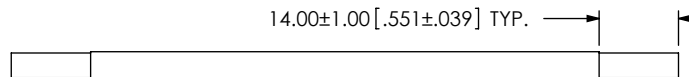
BY: LENNY K 09-01-2010 SHEET 12 OF 15

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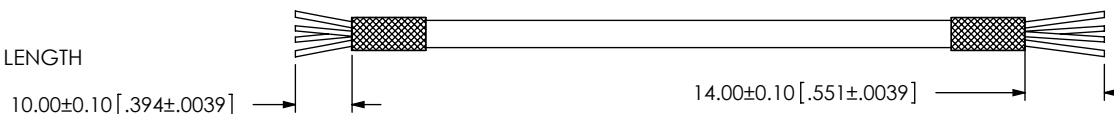
-AMS-BM: END OPTION
IN-PROCESS 1
UCA-03-01
CUT CABLES TO LENGTH



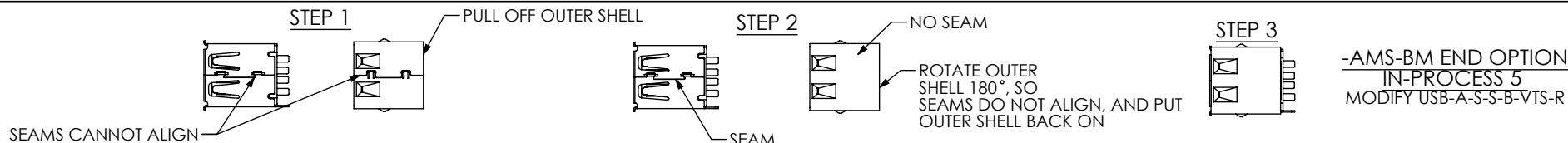
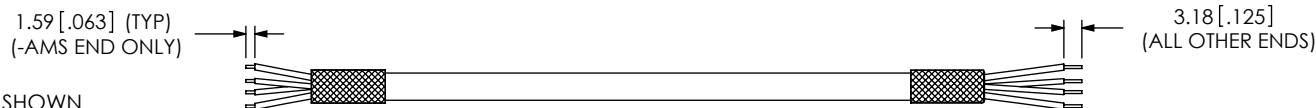
-AMS-BM: END OPTION
IN-PROCESS 2
UCA-03-01
STRIP OUTER JACKET TO DIMENSION SHOWN



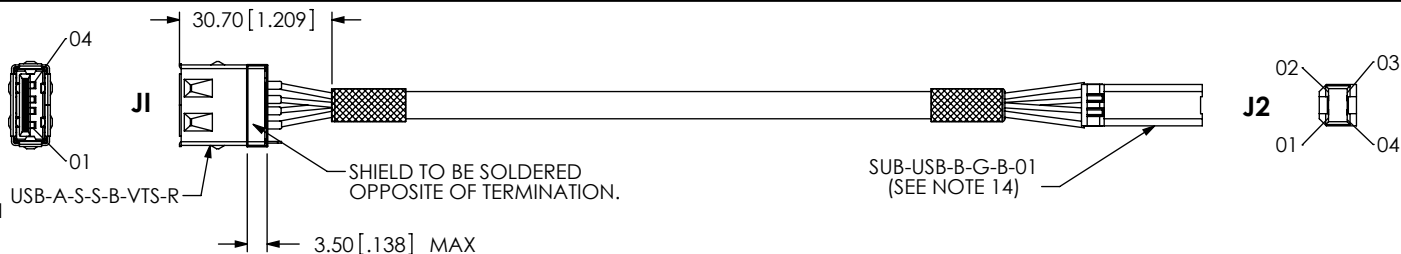
-AMS-BM: END OPTION
IN-PROCESS 3
FOLD BACK SHIELD & TRIM WIRES TO LENGTH



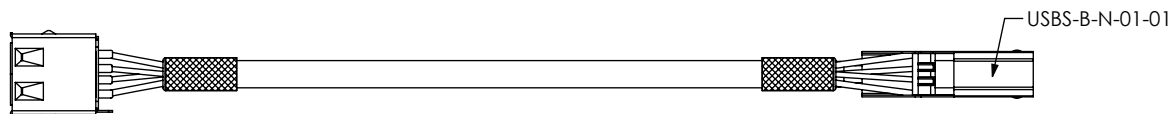
-AMS-BM: END OPTION
IN-PROCESS 4
STRIP INDIVIDUAL CABLES TO DIMENSION SHOWN



-AMS-BM END OPTION
IN-PROCESS 6
TERMINATE TO USB-A-S-S-B-VTS-R & SUB-USB-B-G-B-01
(SEE NOTE 14)
(SEE TABLE 3 FOR PINOUT)



-AMS-BM END OPTION
IN-PROCESS 7
ADD USB-B-N-01-01 SHELL (SEE NOTE 14)



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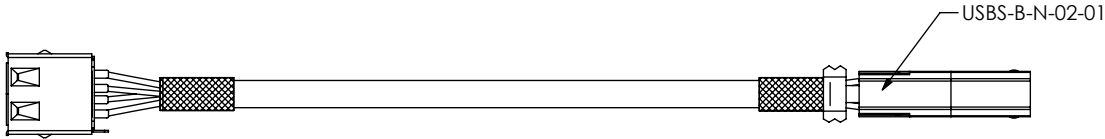
DESCRIPTION:
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DWG. NO.
SCRUS-17-X-XX.XX-XXX-XX

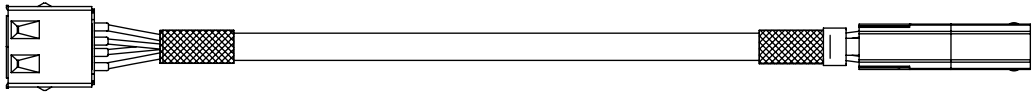
BY: LENNY K 09-01-2010 SHEET 13 OF 15

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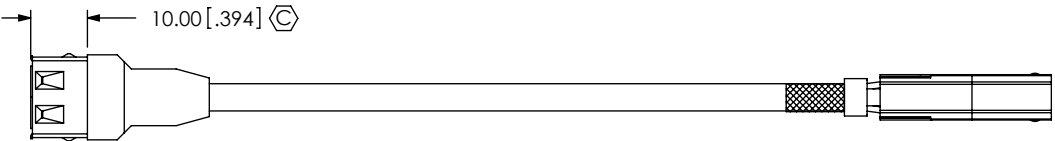
-AMS-BM END OPTION
IN-PROCESS 8
ADD USBS-B-N-02-01 SHELL (SEE NOTE 14)



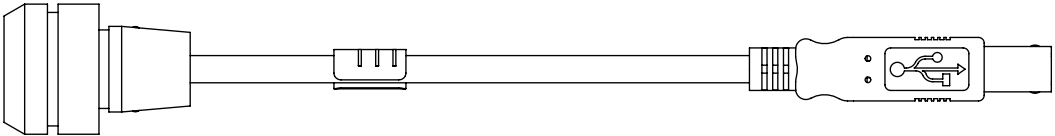
-AMS-BM END OPTION
IN-PROCESS 9 & 10
CRIMP SHELL OVER BRAID
TRIM TAB ON USB-A-S-S-B-VTS-R



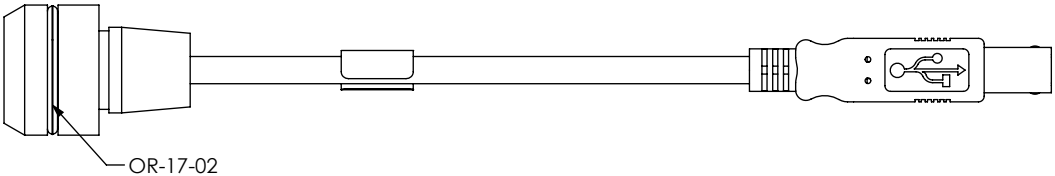
-AMS-BM END OPTION
IN-PROCESS 11
PREMOLD
(SAME AS -BMS-BM, UNLESS OTHERWISE STATED)



-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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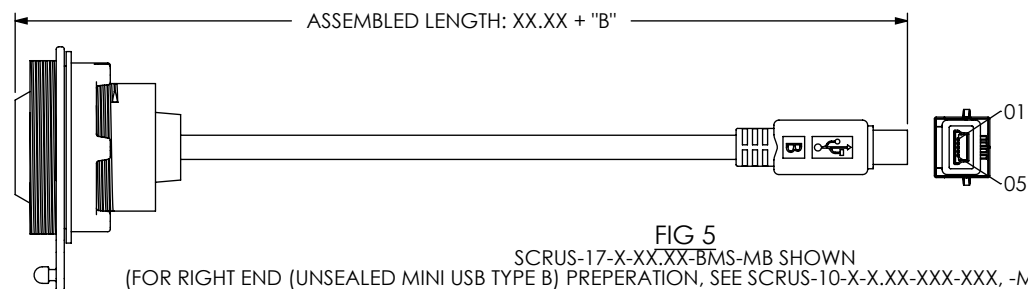
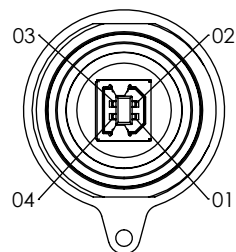


FIG 5
SCRUS-17-X-XX.XX-BMS-MB SHOWN
(FOR RIGHT END (UNSEALED MINI USB TYPE B) PREPERATION, SEE SCRUS-10-X-X.XX-XXX-XXX, -MB RIGHT END OPTION)

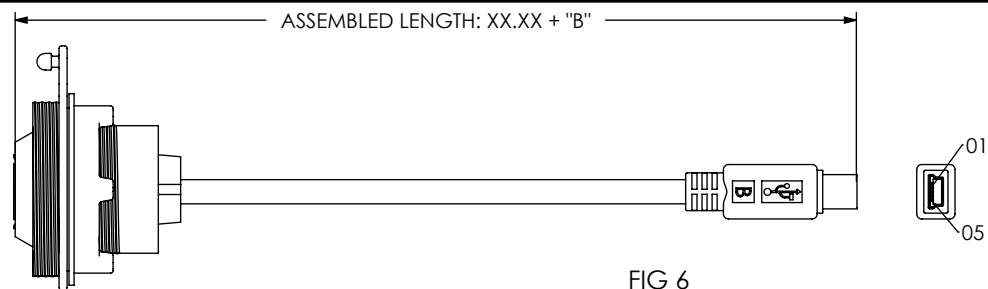
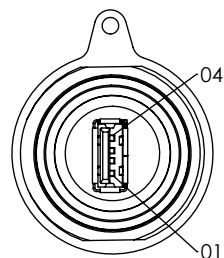


FIG 6
SCRUS-17-X-XX.XX-AMS-MB SHOWN
(FOR RIGHT END (UNSEALED MINI USB TYPE B) PREPERATION, SEE SCRUS-10-X-X.XX-XXX-XXX, -MB RIGHT END OPTION)

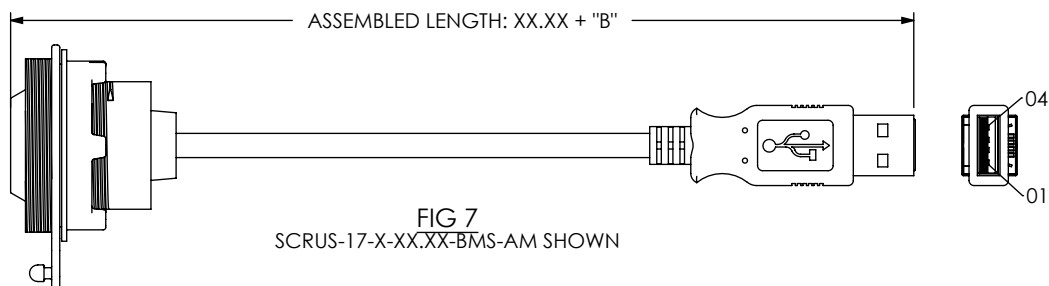
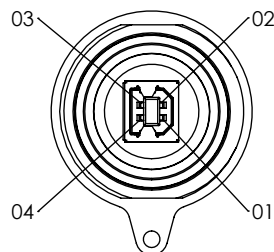


FIG 7
SCRUS-17-X-XX.XX-BMS-AM SHOWN

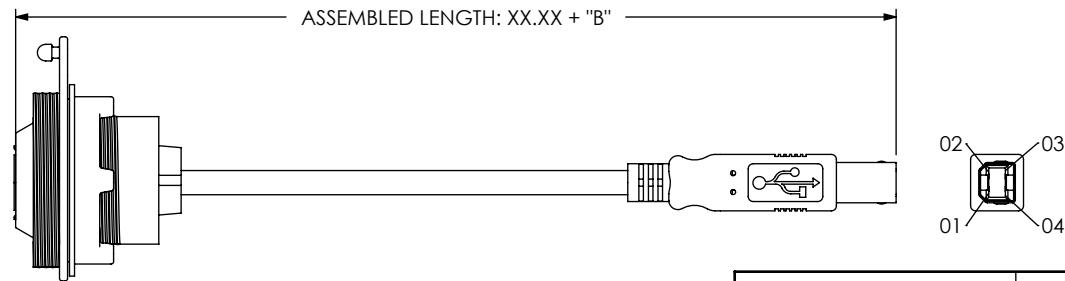
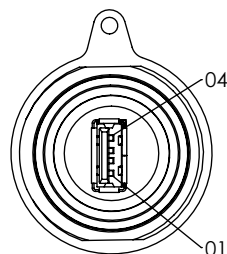


FIG 8
SCRUS-17-X-XX.XX-AMS-BM SHOWN

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DWG. NO.

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

BY: LENNY K

09-01-2010

SHEET 15 OF 15