REVISION Z

DO NOT SCALE FROM THIS PRINT

TABLE 1	
PART NUMBER	"B"
SCRUS-10-X-XX.XX-MBS-MB	16.0 [.63]
SCRUS-10-X-XX.XX-MBS-AM	25.0 [.98]
SCRUS-10-X-XX.XX-MBS-BC	20.0 [.79]
SCRUS-10-X-XX.XX-MBS-BM	25.0 [.98]

DESIGNED & DIMENSIONED IN MILLIMETERS[INCHES]

SCRUS-10-X-XX.XX-XXX-XX

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

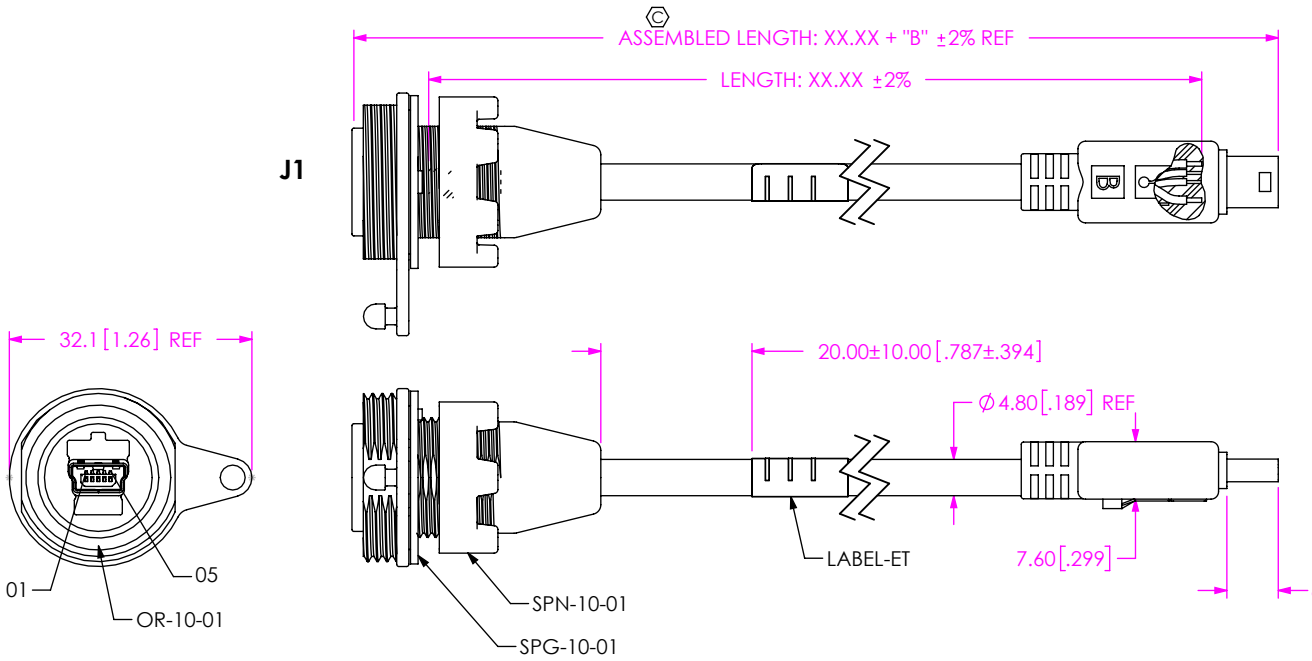
LENGTH
-XX.XX
(0.25M[9.842] MIN - 50.00M[1968.504] MAX)

END 2 OPTIONS
-MB: MINI USB B TYPE PLUG NOT SEALED (THIS END NOT SEALED ONLY)
-BC: BLUNT CUT END (SEE SHEET 5)
-AM: USB A TYPE PLUG NOT SEALED (THIS END NOT SEALED ONLY)
-BM: USB B TYPE PLUG NOT SEALED (THIS END NOT SEALED ONLY)

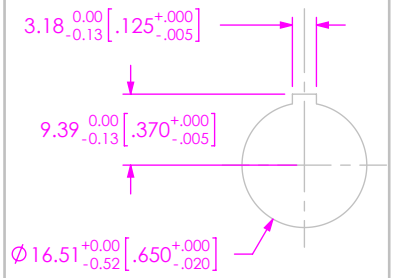
END 1 OPTIONS
-MBS: MINI USB B TYPE RECEPTACLE SEALED (THIS END SEALED ONLY)

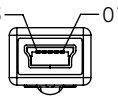
NOTE: - 00.25 AND - 00.50 ARE CATALOG STANDARD LENGTHS. FOR OTHER LENGTHS CONTACT SAMTEC.

FIG 1
SCRUS-10-X-XX.XX-MBS-MB SHOWN



RECOMMENDED PANEL HOLE
(SEE NOTE 5)





COMPONENTS ON OPPOSITE END HIDDEN FOR CLARITY

NOTES:

1. Ⓒ REPRESENTS A CRITICAL DIMENSION.
2. Ⓒ ASSEMBLY TO BE 100% TESTED FOR OPENS AND SHORTS, HIGH POT TESTED AT 200V BEFORE PREMOLD IN-PROCESS AND ON FINISHED ASSEMBLY. 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] - 5.21[.205].
6. ASSEMBLY TO BE BULK PACKAGED.
7. TORQUE SPECIFICATION FOR SPN-10-01 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. NOTE DELETED.
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. NOTE DELETED.
14. NOTE DELETED.
15. PART MUST SCREW INTO SAMTEC PART # SCN-10-01
16. PART MUST SCREW INTO SAMTEC PART # SPN-10-01
17. THIS IS A COMPONENT OF USBP-A-01-G-B-01 (CALLED OUT ON THE BOM), BUT LABELED INDIVIDUALLY FOR ASSEMBLY PURPOSES.
18. LENGTHS GREATER THAN 0.50 M ARE NOT SUPPORTED BY USB 2.0 TEST DATA.
19. THIS IS A COMPONENT OF USBP-B-01-G-B-01 (CALLED OUT ON THE BOM), BUT LABELED INDIVIDUALLY FOR ASSEMBLY PURPOSES.
20. REFER TO MD-XXX-XX-XXXXX-XX FOR SAMTEC MATERIAL PART NUMBER.

F:\DWG\MISC\MKTG\SCRUS-10-X-XX.XX-XXX-XX-MKT.SLDDRW

THIS PRODUCT MANUFACTURED WITH LEAD-FREE PROCESSING

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

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DO NOT SCALE DRAWING — SHEET SCALE: 0.75:1

MATERIAL:
INSULATOR: GLASS FILLED THERMOPLASTIC
CONTACTS: COPPER ALLOY, SHIELDS: CRS
CABLE NUT: PA66
SEALED PREMOLD: RITEFLEX 640-RD30565P62-BLACK, SHOT WEIGHT: 9.07g[.020lb]
SEALED OVERMOLD: ZYTEL PA70G13L 52-91908BKS; MAX REGRIND: 10%, SHOT WEIGHT: 10.43g[.023lb]
NON-SEALED OVERMOLD: PVC ALP-411-75-BK-2885; MAX REGRIND: 30%, SHOT WEIGHT: 6.80g[.015lb]

MAX FLASH ALLOWED: 0.05[.002]
MAX GATE VESTIGE: 0.05[.002]

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 MINI USB CABLE

DWG. NO. SCRUS-10-X-XX.XX-XXX-XX

BY: B. PERRY 09-01-2010 SHEET 1 OF 10

REVISION Z

FIG 2
SCRUS-10-X-XX.XX-MBS-BC SHOWN
(SAME AS FIG 1 UNLESS OTHERWISE STATED)

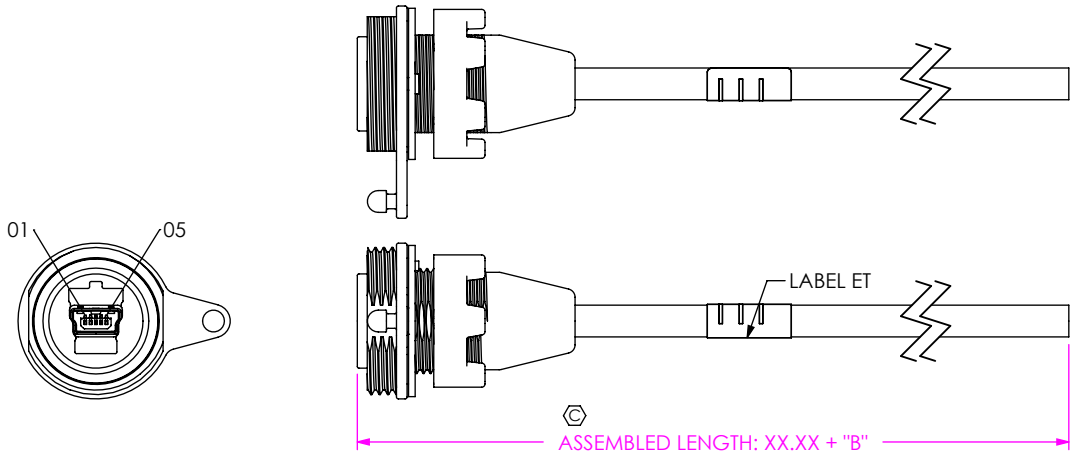

FIG 3
SCRUS-10-X-XX.XX-MBS-AM SHOWN
(SAME AS FIG 1 UNLESS OTHERWISE STATED)

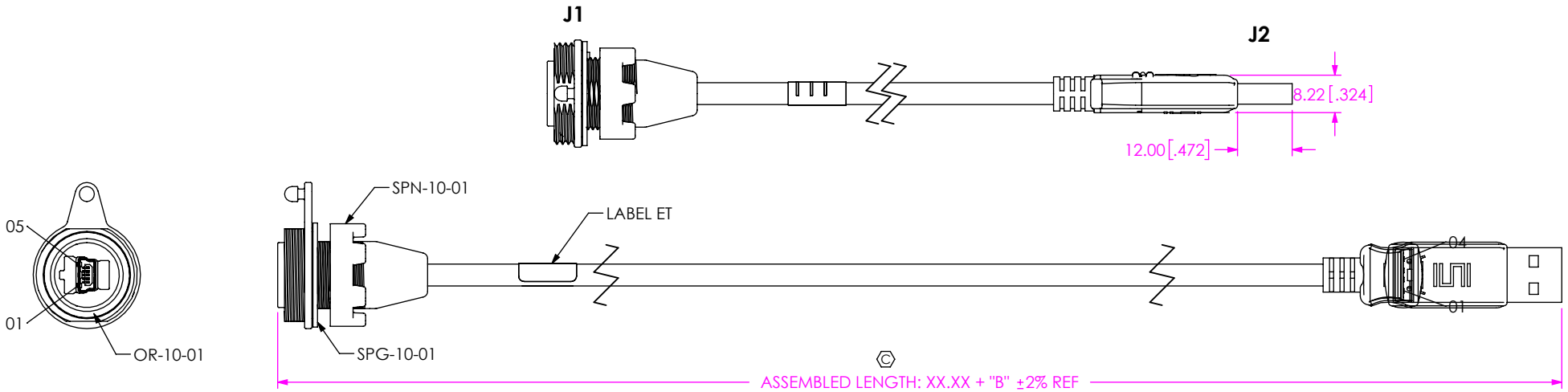

TABLE 3: PIN-OUT

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

F:\DWG\MISC\MKTG\SCRUS-10-X-XX.XX-XXX-XX-MKT.SLDDRW

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

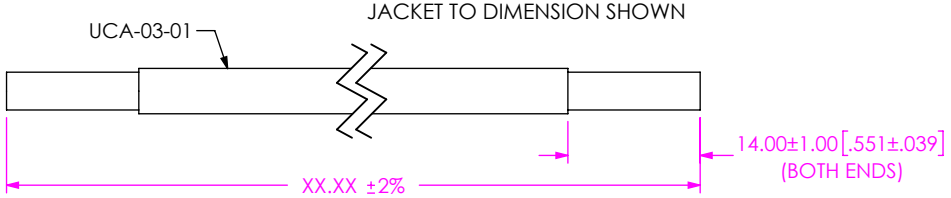
DESCRIPTION:
PANEL MOUNT SEALED MINI USB CABLE

DWG. NO.
SCRUS-10-X-XX.XX-XXX-XX

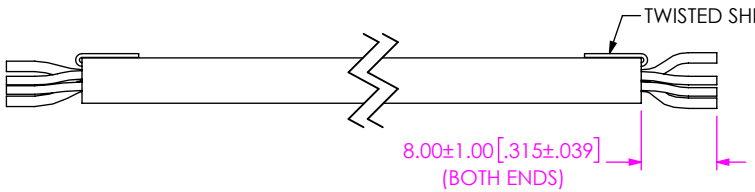
BY: B. PERRY 09-01-2010 SHEET 2 OF 10

REVISION Z

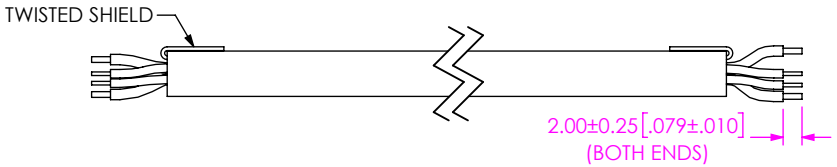
-MBS -MB END OPTIONS
IN-PROCESS 1
CUT CABLES TO LENGTH & STRIP OUTER JACKET TO DIMENSION SHOWN



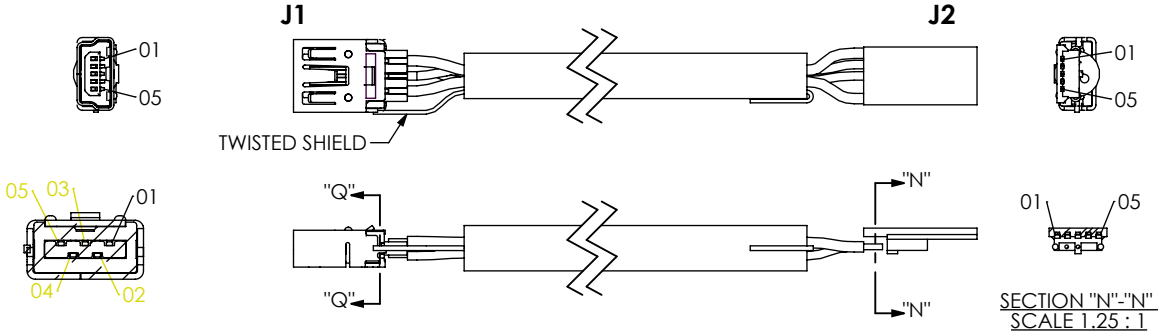
-MBS -MB END OPTIONS
IN-PROCESS 2
TWIST SHIELD & TRIM INDIVIDUAL WIRES TO DIM SHOWN



-MBS -MB END OPTIONS
IN-PROCESS 3
STRIP INDIVIDUAL WIRES TO DIMENSION SHOWN

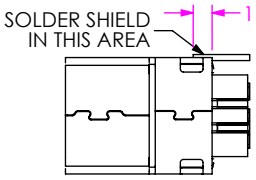


-MBS -MB END OPTIONS
IN-PROCESS 4
TERMINATE TO MUSB-05-G-B-C & SUB-MUSBP-05-B-G-C



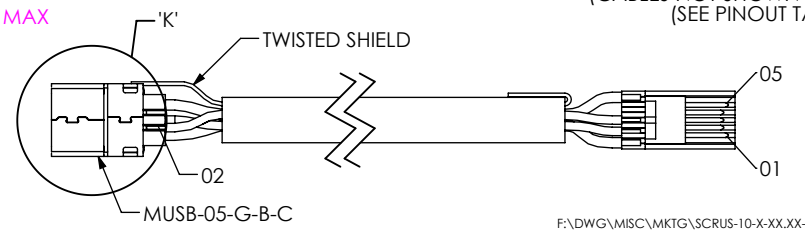
SECTION "N"-"N"
SCALE 1.25 : 1

SECTION "Q"-"Q"
SCALE 2 : 1



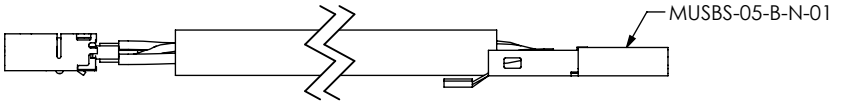
DETAIL 'K'
SCALE 2 : 1

(CABLES NOT SHOWN FOR CLARITY)
(SEE PINOUT TABLE)

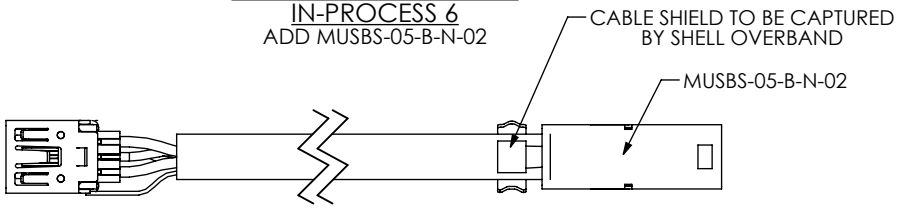


F:\DWG\MISC\MKTG\SCRUS-10-X-XX.XX-XXX-XX-MKT.SLDDRW

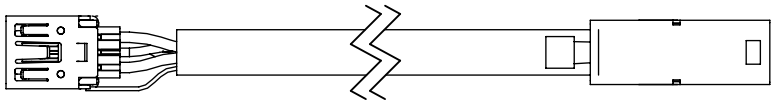
-MBS -MB END OPTIONS
IN-PROCESS 5
ADD MUSBS-05-B-N-01



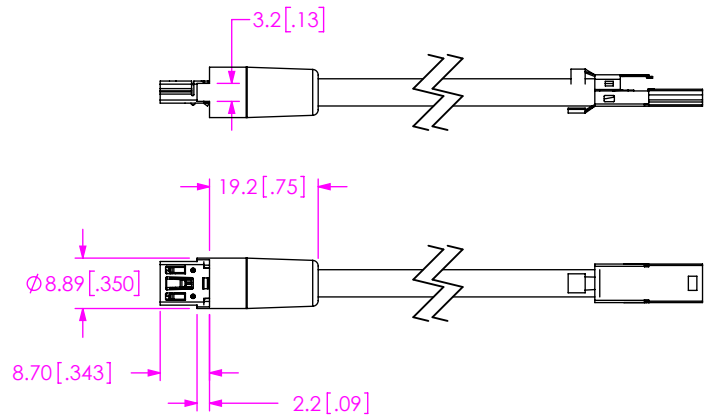
-MBS -MB END OPTIONS
IN-PROCESS 6
ADD MUSBS-05-B-N-02



-MBS -MB END OPTIONS
IN-PROCESS 7
CRIMP SHELLS OVERBAND & ADD TRIM EXCESS SHIELD



-MBS -MB END OPTIONS
IN-PROCESS 8
ADD PREMOLD



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e-Mail: info@SAMTEC.com code: 55322

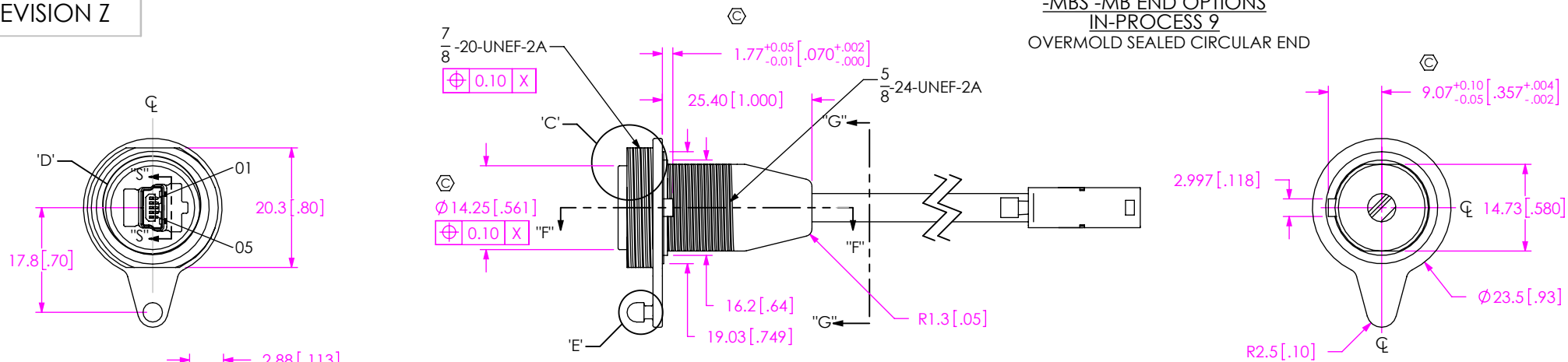
DESCRIPTION:
PANEL MOUNT SEALED MINI USB CABLE

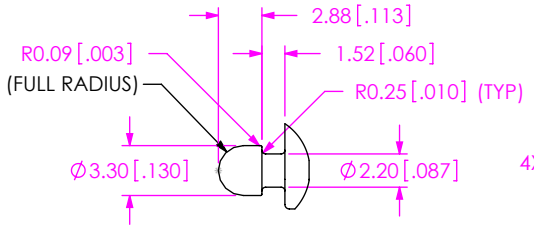
DWG. NO.
SCRUS-10-X-XX.XX-XXX-XX

BY: B. PERRY 09-01-2010 SHEET 3 OF 10

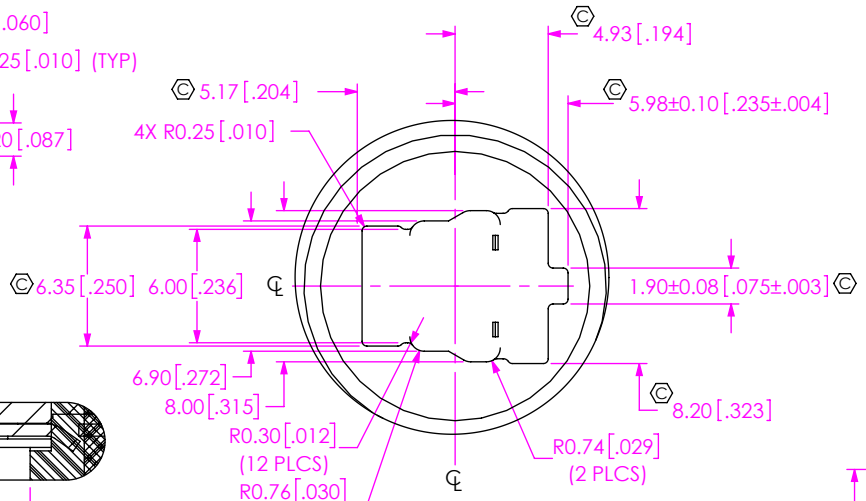
REVISION Z

-MBS -MB END OPTIONS
IN-PROCESS 9
OVERMOLD SEALED CIRCULAR END

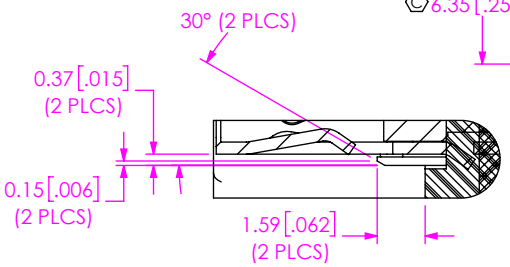




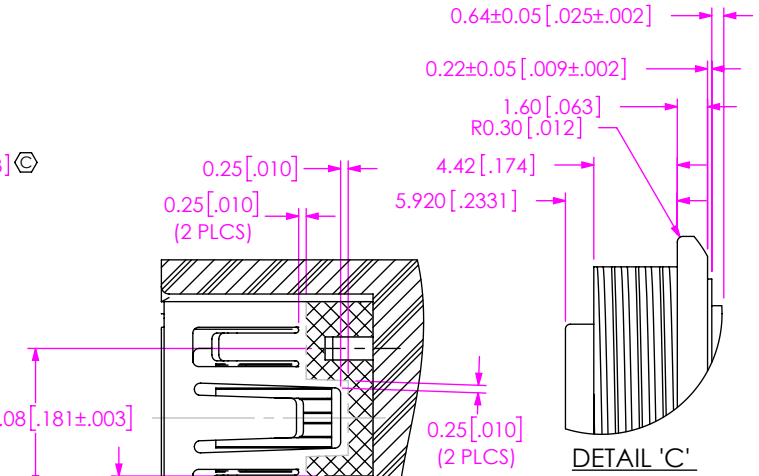
DETAIL 'E'



DETAIL 'D'
CONNECTOR REMOVED FOR CLARITY

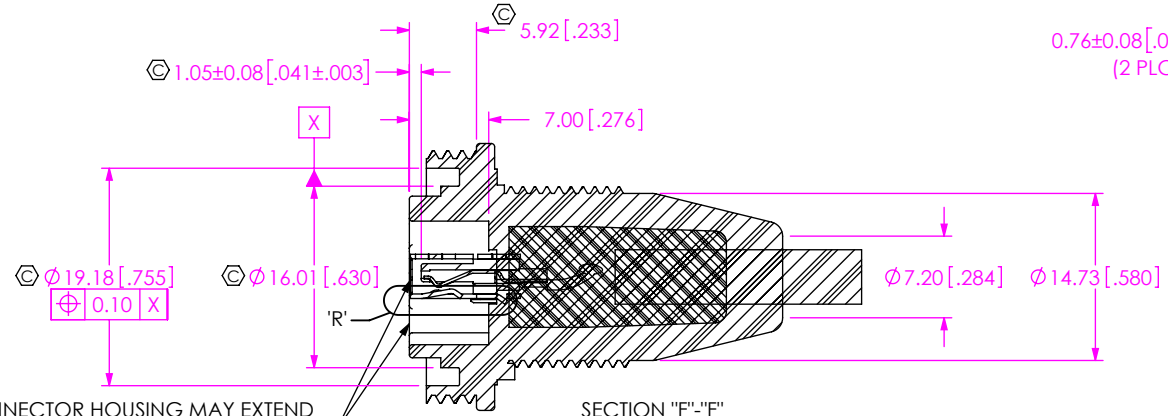


DETAIL 'R'
SCALE 4 : 1



DETAIL 'C'

SECTION "S"-"S"
SCALE 4 : 1



SECTION "F"-"F"
SCALE 1.5 : 1

F:\DWG\MISC\MKTG\SCRUS-10-X-XX.XX-XXX-XX-MKT.SLDDRW

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SHEET SCALE: 0.75:1

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520 PARK EAST BLVD, NEW ALBANY, IN 47150
PHONE: 812-944-6733 FAX: 812-948-5047
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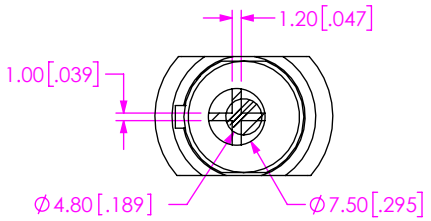
DESCRIPTION:
PANEL MOUNT SEALED MINI USB CABLE

DWG. NO.
SCRUS-10-X-XX.XX-XXX-XX

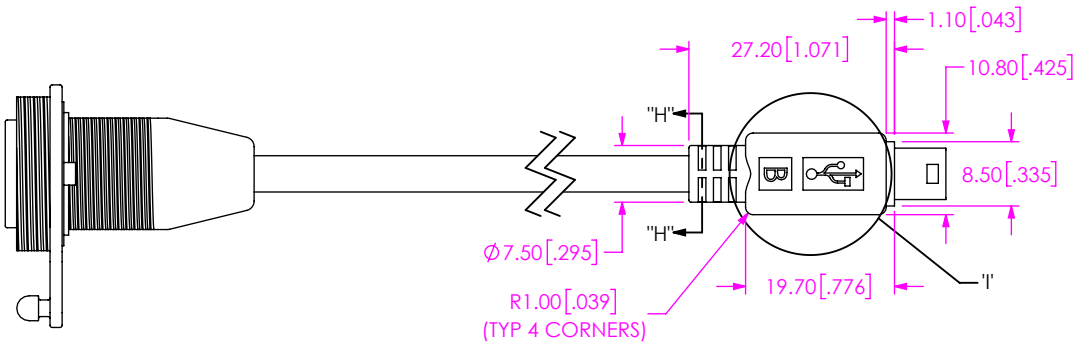
BY: B. PERRY 09-01-2010 SHEET 4 OF 10

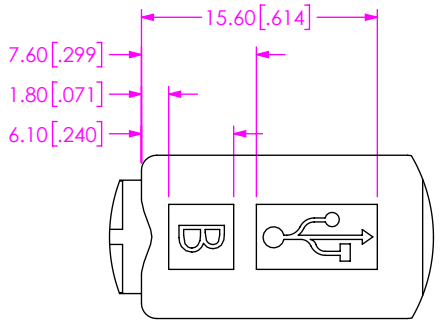
REVISION Z

-MBS -MB END OPTIONS
IN-PROCESS 10
OVERMOLD UNSEALED END

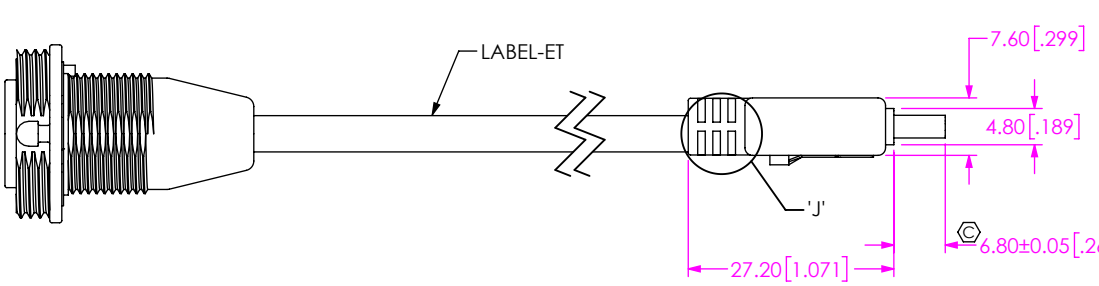


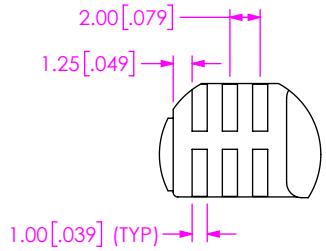
SECTION "H"-"H"
SCALE 1 : 1





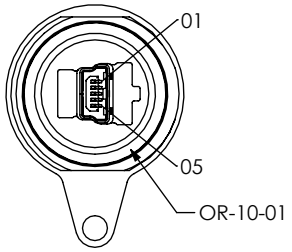
DETAIL 'I'

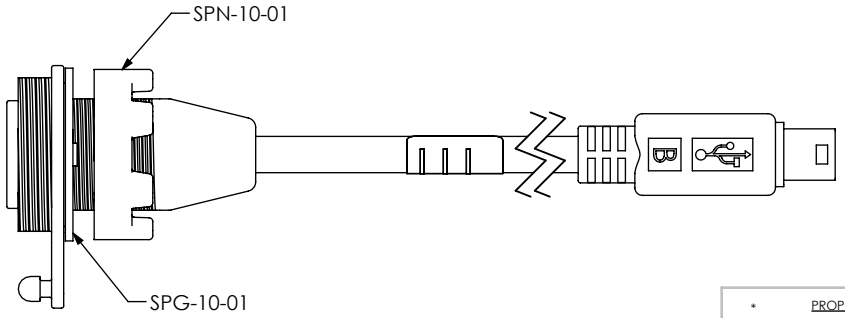


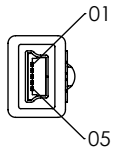


DETAIL 'J'
SCALE 2 : 1

-MBS -MB END OPTIONS
IN-PROCESS 11
ADD SPG-10-01 & SPN-10-01 & OR-10-01







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SHEET SCALE: 0.75:1

F:\DWG\MISC\MKTG\SCRUS-10-X-XX.XX-XXX-XX-MKT.SLDDRW

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

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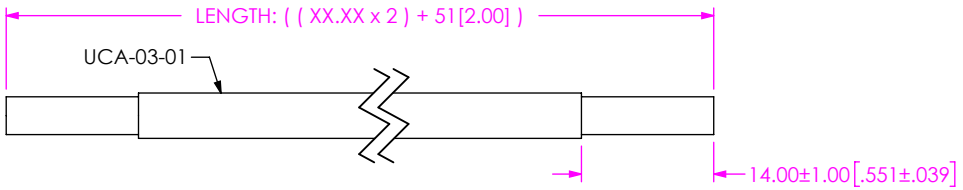
PANEL MOUNT SEALED MINI USB CABLE

DWG. NO.
SCRUS-10-X-XX.XX-XXX-XX

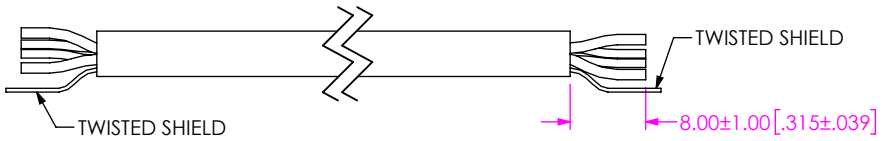
BY: B. PERRY 09-01-2010 SHEET 5 OF 10

REVISION Z

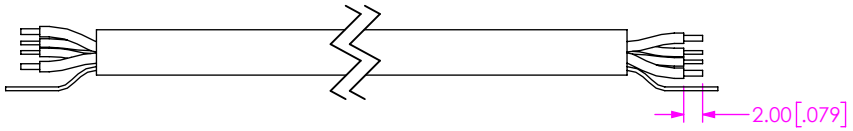
-MBS -BC END OPTIONS
IN-PROCESS 1
CUT CABLES TO LENGTH & STRIP OUTER JACKET TO DIMENSION SHOWN



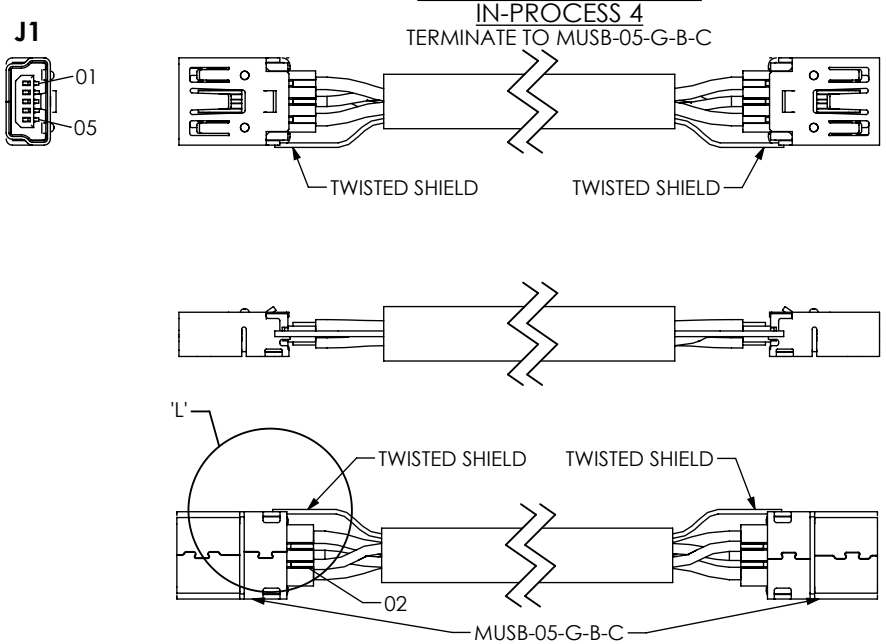
-MBS -BC END OPTIONS
IN-PROCESS 2
TRIM WIRES TO LENGTH & TWIST SHIELD



-MBS -BC END OPTIONS
IN-PROCESS 3
STRIP INDIVIDUAL WIRES TO DIMENSION SHOWN

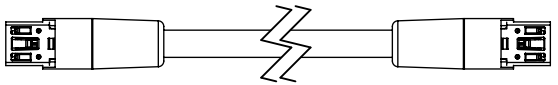


-MBS -BC END OPTIONS
IN-PROCESS 4
TERMINATE TO MUSB-05-G-B-C

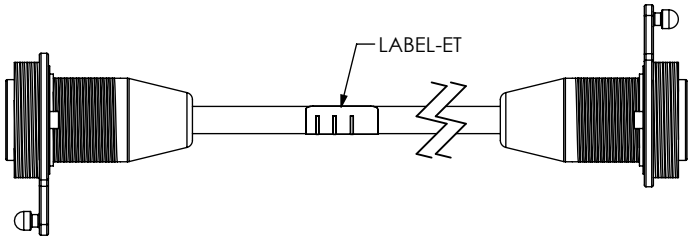


DETAIL 'L'
SCALE 2 : 1

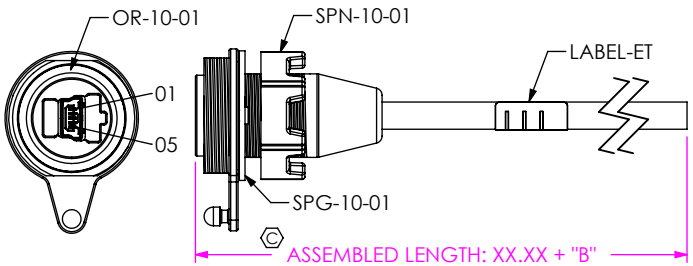
-MBS -BC END OPTIONS
IN-PROCESS 5
ADD PREMOLD, SAME AS -MBS -MB IN-PROCESS 8



-MBS -BC END OPTIONS
IN-PROCESS 6
ADD OVERMOLD, SAME AS -MBS -MB IN-PROCESS 9



-MBS -BC END OPTIONS
IN-PROCESS 7
CUT IN HALF AND TRIM TO LENGTH
ADD SPN-10-01, SPG-10-01, & OR-10-01



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SHEET SCALE: 0.75:1

DO NOT SCALE DRAWING

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 MINI USB CABLE

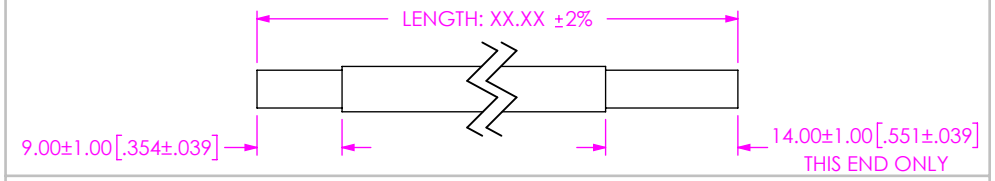
DWG. NO.
SCRUS-10-X-XX.XX-XXX-XX

BY: B. PERRY 09-01-2010 SHEET 6 OF 10

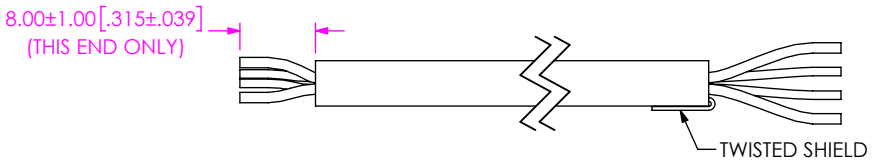
F:\DWG\MISC\MKTG\SCRUS-10-X-XX.XX-XXX-XX-MKT.SLDDRW

REVISION Z

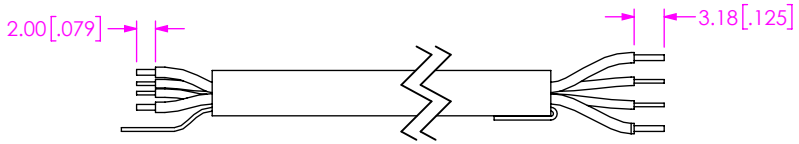
-MBS -AM END OPTION
IN-PROCESS 1
STRIP OUTER JACKET TO DIMENSION SHOWN



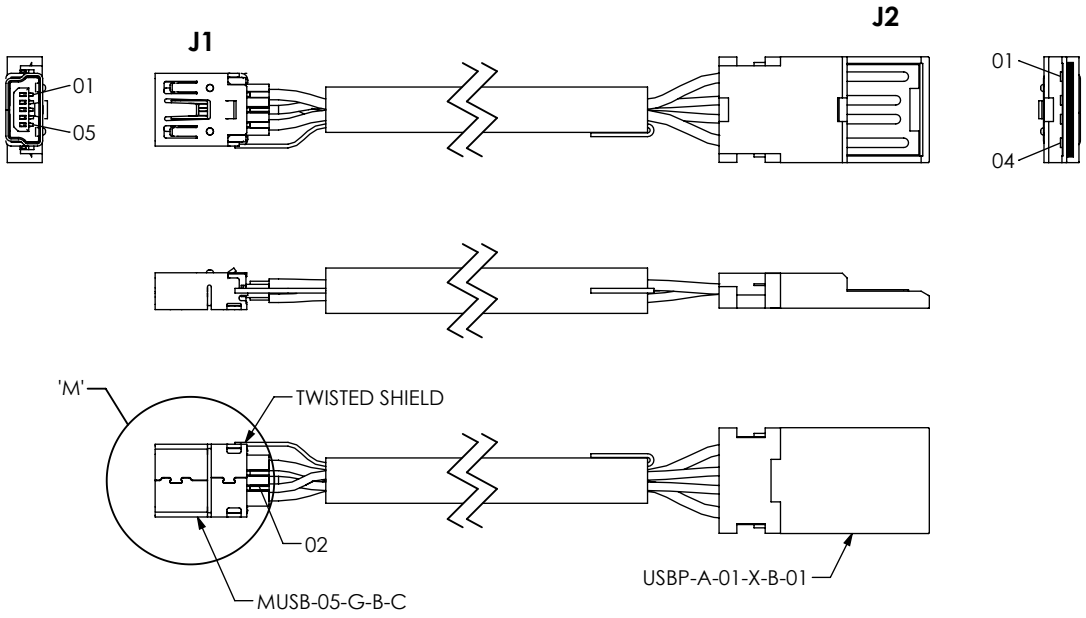
-MBS -AM END OPTION
IN-PROCESS 2
TWIST SHIELD & TRIM INDIVIDUAL WIRES



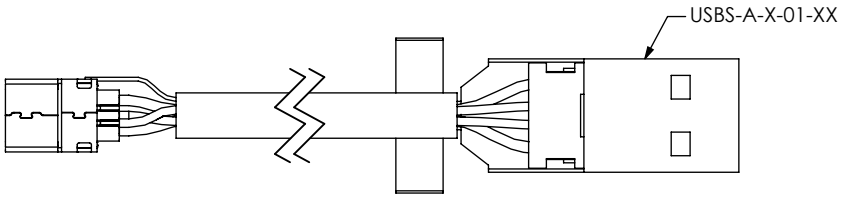
-MBS -AM END OPTION
IN-PROCESS 3
STRIP INDIVIDUAL WIRES TO DIMENSION SHOWN



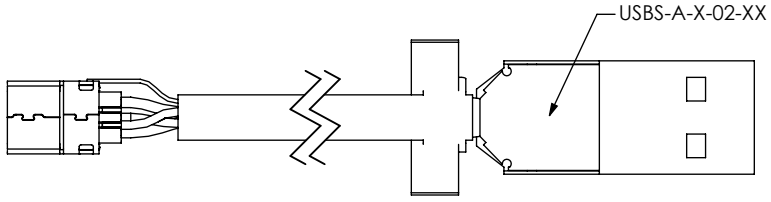
-MBS -AM END OPTION
IN-PROCESS 4
TERMINATE TO MUSB-05-G-B-C & SUB-USB-A-X-B-XX
(SEE NOTE 17)

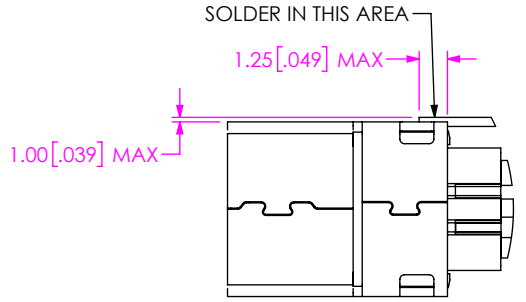


-MBS -AM END OPTION
IN-PROCESS 5
ADD USBS-A-X-01-XX (SEE NOTE 17)



-MBS -AM END OPTION
IN-PROCESS 6
ADD USBS-A-X-02-XX (SEE NOTE 17)





DETAIL 'M'
SCALE 3 : 1

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DO NOT SCALE DRAWING

SHEET SCALE: 1:5

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

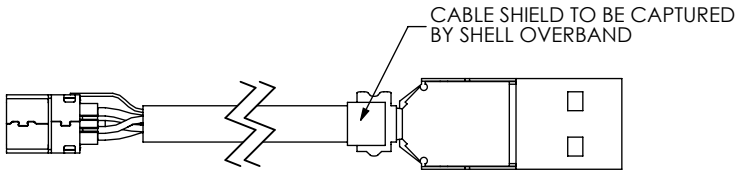
DESCRIPTION:
PANEL MOUNT SEALED MINI USB CABLE

DWG. NO.
SCRUS-10-X-XX.XX-XXX-XX

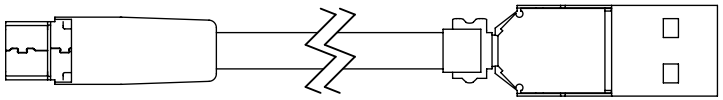
BY: B. PERRY 09-01-2010 SHEET 7 OF 10

REVISION Z

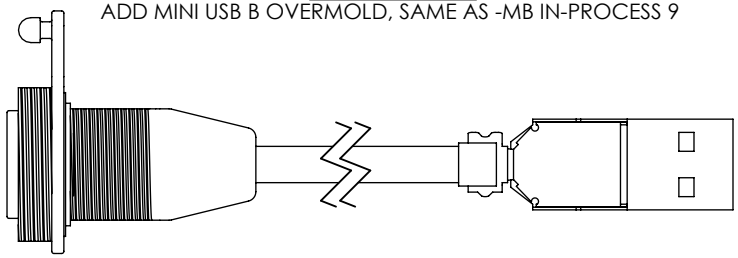
-MBS -AM END OPTION
IN-PROCESS 7
CRIMP SHELL OVERBAND



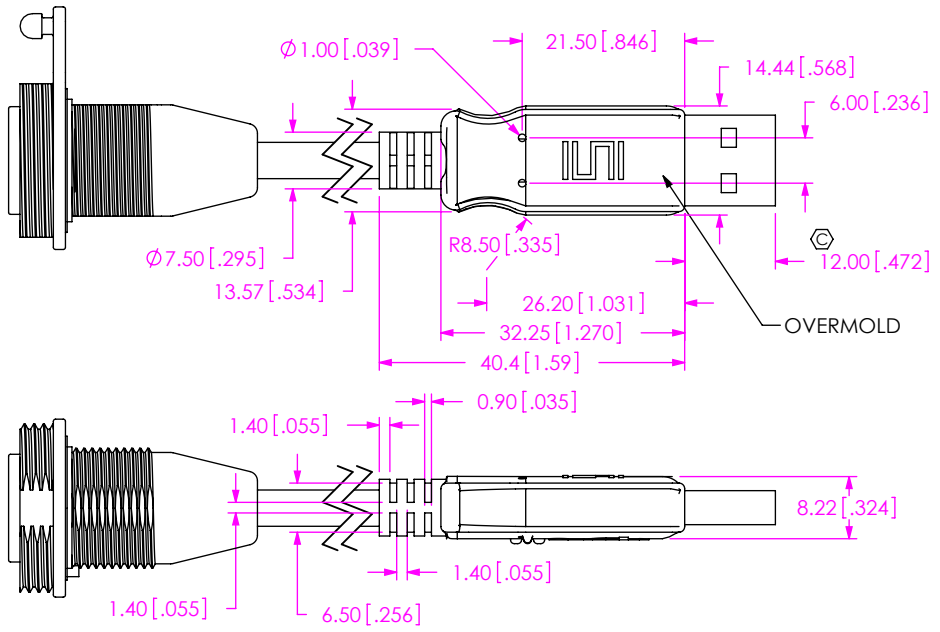
-MBS -AM END OPTION
IN-PROCESS 8
ADD MINI USB B PREMOLD, SAME AS -MB IN-PROCESS 8



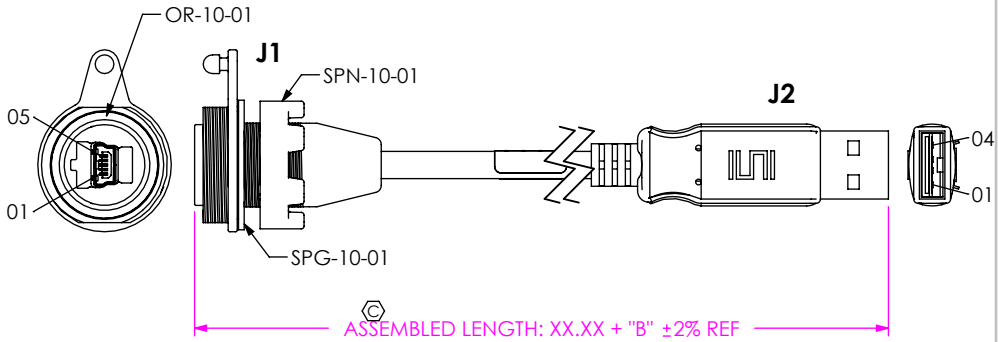
-MBS -AM END OPTION
IN-PROCESS 9
ADD MINI USB B OVERMOLD, SAME AS -MB IN-PROCESS 9



-MBS -AM END OPTION
IN-PROCESS 10
ADD USB A OVERMOLD



-MBS -AM END OPTION
IN-PROCESS 11
ADD SPG-10-01 & SPN-10-01 & OR-10-01



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SHEET SCALE: 1:5

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

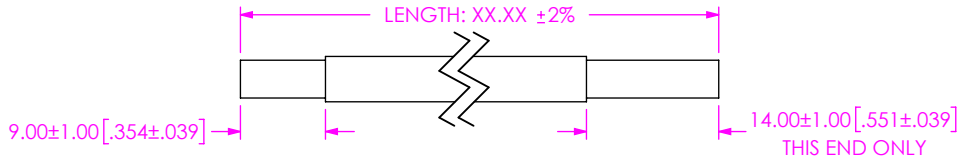
DESCRIPTION:
PANEL MOUNT SEALED MINI USB CABLE

DWG. NO.
SCRUS-10-X-XX.XX-XXX-XX

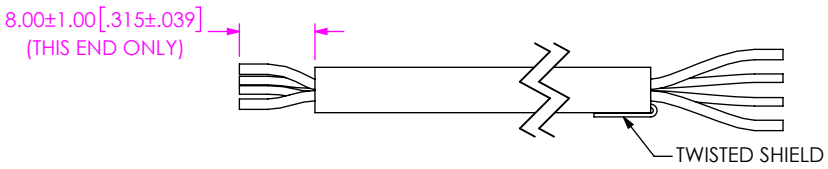
BY: B. PERRY 09-01-2010 SHEET 8 OF 10

REVISION Z

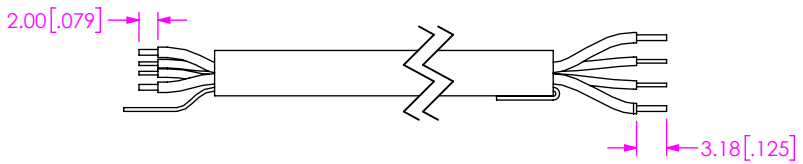
-MBS -BM END OPTION
IN-PROCESS 1
STRIP OUTER JACKET TO DIMENSION SHOWN



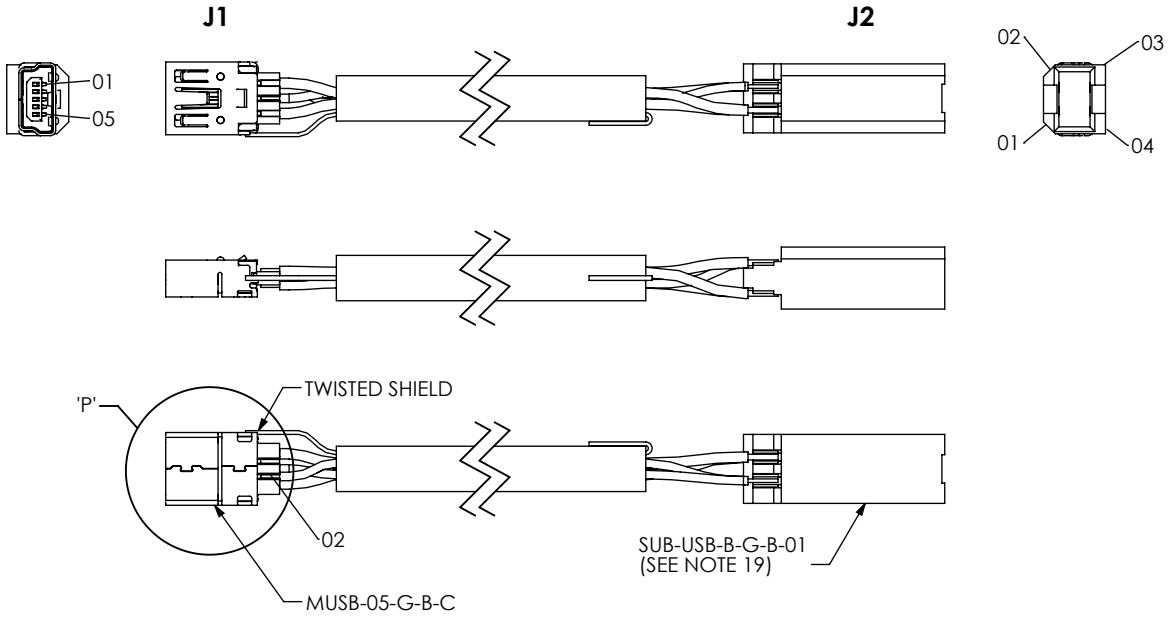
-MBS -BM END OPTION
IN-PROCESS 2
TWIST SHIELD & TRIM INDIVIDUAL WIRES



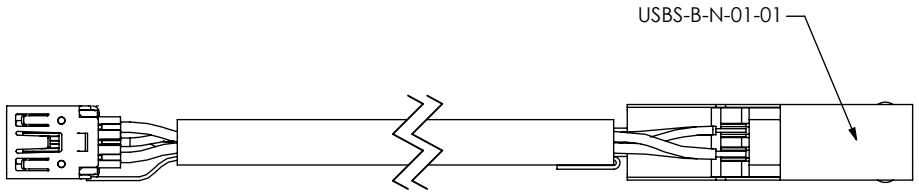
-MBS -BM END OPTION
IN-PROCESS 3
STRIP INDIVIDUAL WIRES TO DIMENSION SHOWN



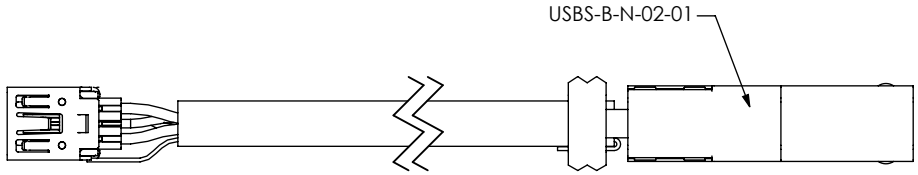
-MBS -BM END OPTION
IN-PROCESS 4
TERMINATE TO MUSB-05-G-B-C & SUB-USB-B-G-B-01
(SEE NOTE 19)

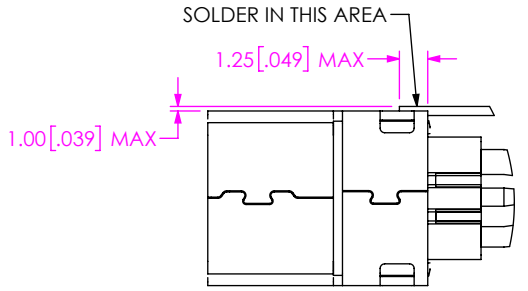


-MBS -BM END OPTION
IN-PROCESS 5
ADD USBS-B-N-01-01 SHELL (SEE NOTE 19)



-MBS -BM END OPTION
IN-PROCESS 6
ADD USBS-B-N-02-01 SHELL (SEE NOTE 19)





DETAIL 'P'
SCALE 3 : 1

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SHEET SCALE: 1:5

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 MINI USB CABLE

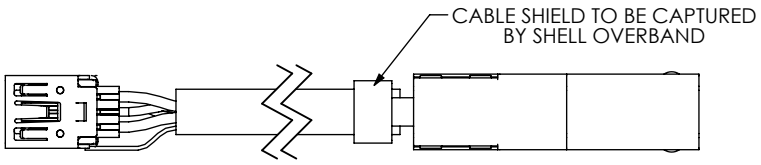
DWG. NO.
SCRUS-10-X-XX.XX-XXX-XX

BY: B. PERRY 09-01-2010 SHEET 9 OF 10

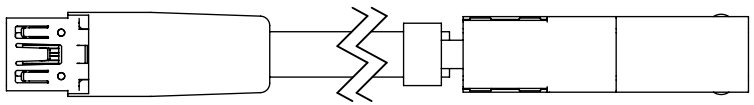
F:\DWG\MISC\MKTG\SCRUS-10-X-XX.XX-XXX-XX-MKT.SLDDRW

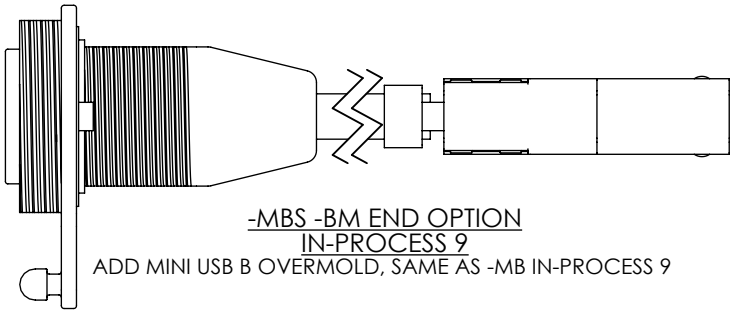
REVISION Z

-MBS -BM END OPTION
IN-PROCESS 7
CRIMP SHELL OVERBAND



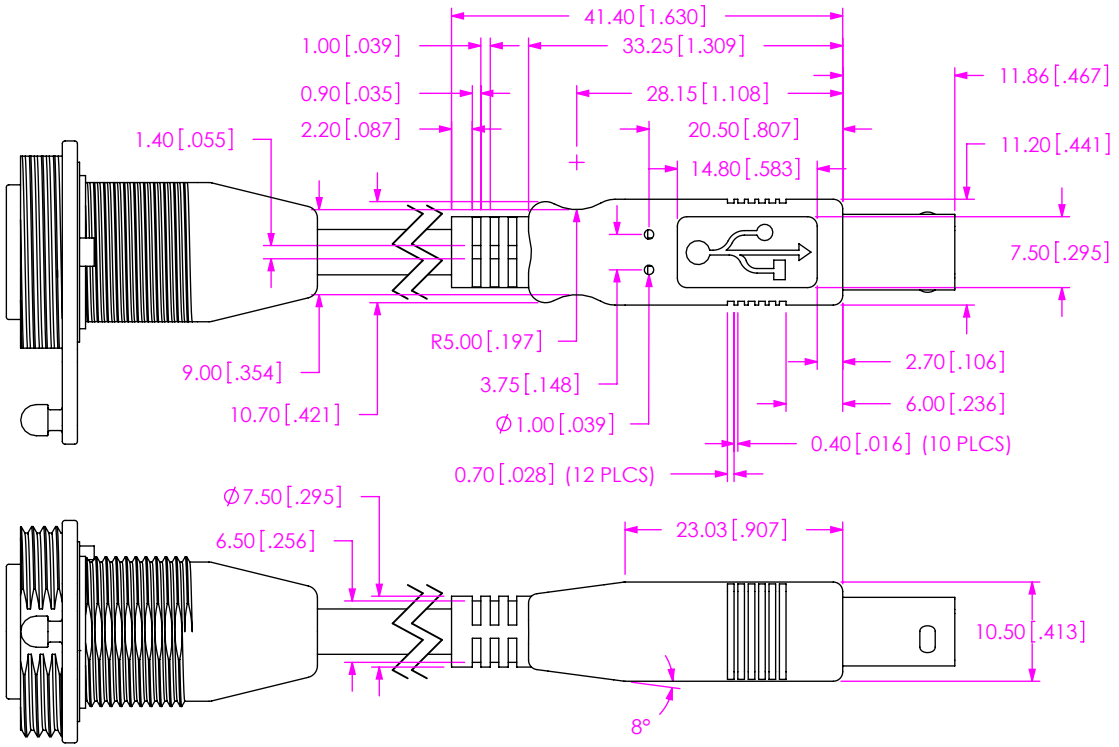
-MBS -BM END OPTION
IN-PROCESS 8
ADD MINI USB B PREMOLD, SAME AS -MB IN-PROCESS 8



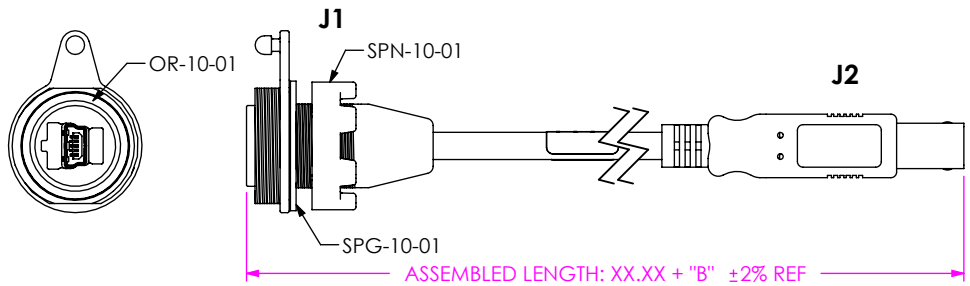


-MBS -BM END OPTION
IN-PROCESS 9
ADD MINI USB B OVERMOLD, SAME AS -MB IN-PROCESS 9

-MBS -BM END OPTION
IN-PROCESS 10
ADD USB B OVERMOLD



-MBS -BM END OPTION
IN-PROCESS 11
ADD SPG-10-01 & SPN-10-01 & OR-10-01



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DO NOT SCALE DRAWING

SHEET SCALE: 1:5

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PHONE: 812-944-6733 FAX: 812-948-5047
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