

REVISION P

TABLE 1

PART NUMBER	END 2	"A" REF	"B"
RPCU-X-00.25-AMS	-AM	250.0 [9.84]	292.8 [11.53]
	-BC	250.0 [9.84]	275.0 [10.83]
	-BM	250.0 [9.84]	292.8 [11.53]
RPCU-X-00.50-AMS	-AM	500.0 [19.69]	542.8 [21.37]
	-BC	500.0 [19.69]	525.0 [20.67]
	-BM	500.0 [19.69]	542.8 [21.37]
RPCU-X-00.25-BMS	-AM	250.0 [9.84]	293.4 [11.55]
	-BC	250.0 [9.84]	275.0 [10.83]
	-BM	250.0 [9.84]	293.4 [11.55]
RPCU-X-00.50-BMS	-AM	500.0 [19.69]	543.4 [21.39]
	-BC	500.0 [19.69]	525.6 [20.69]
	-BM	500.0 [19.69]	543.4 [21.39]

DESIGNED & DIMENSIONED IN MILLIMETERS[INCHES]

RPCU-X-XX.XX-XXX-XX

PLATING SPECIFICATION

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

CABLE LENGTH*

-XX.XX: "A" (SEE TABLE 1)
[0.12M[4.724] MIN - 50.00M[1968.504] MAX

NOTE:

*-00.25 AND -00.50 ARE CATALOG
STANDARD LENGTHS, FOR OTHER
LENGTHS CONTACT SAMTEC

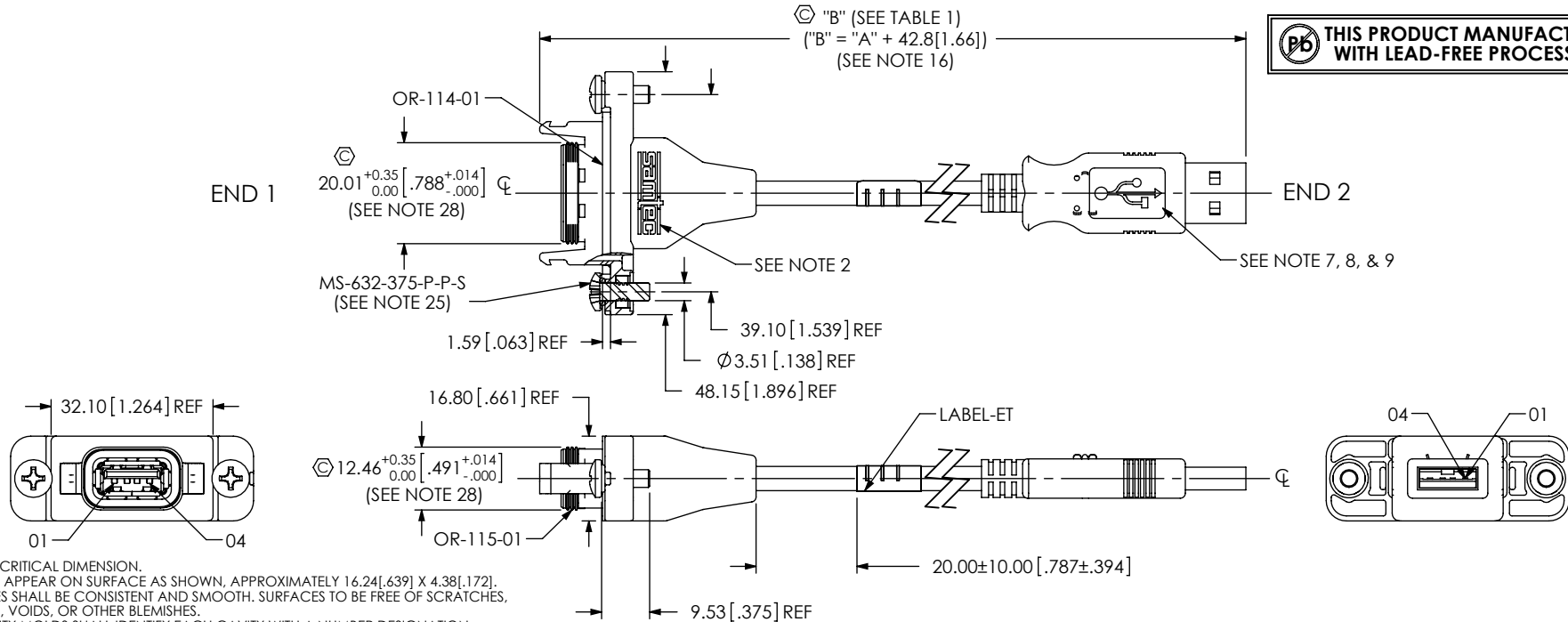
END 2 OPTION

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

END 1 OPTION

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

**THIS PRODUCT MANUFACTURED
WITH LEAD-FREE PROCESSING**



NOTES:

1. $\odot$ REPRESENTS A CRITICAL DIMENSION.
2. SAMTEC LOGO TO APPEAR ON SURFACE AS SHOWN, APPROXIMATELY 16.24[.639] X 4.38[.172].
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 0.25[.010].
8. USB LOGO TO BE RAISED 0.25[.010].
9. USB LOGO 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 BEFORE OVERMOLD AND AFTER FINAL ASSEMBLY. AFTER FINAL ELECTRICAL TEST, LABEL EACH ASSEMBLY WITH 1 LABEL-ET. TEST VOLTAGE TO BE 300V.
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. THIS IS A COMPONENT OF USBP-A-01-G-B-01 (CALLED OUT ON THE BOM), BUT LABELED INDIVIDUALLY FOR ASSEMBLY PURPOSES.
18. THIS IS A COMPONENT OF USBP-B-01-G-B-01 (CALLED OUT ON THE BOM), BUT LABELED INDIVIDUALLY FOR ASSEMBLY PURPOSES.
19. ASSEMBLY TO BE SHIPPED IN BULK PACKAGED.
20. REFERENCE CO-AU-WI-3032-M FOR WORKMANSHIP.
21. ANY CHANGE MADE TO -AM & -BM OVERMOLD MUST BE MADE TO SCPU-17-X-XX.XX-XXX-XXX.
22. NOTE DELETED.
23. NOTE DELETED.
24. PANEL THICKNESS: 0.76[.030] - 3.96[.156], RECOMMENDED PANEL CUT OUT ON SHEET 2.
25. SEAL O-RING IS INCLUDED IN THE MS-632-375-P-P-S.
26. NOTE DELETED.
27. MAXIMUM TORQUE ON MS-632-375-P-P-S: 60 IN-OZ.
28. DO NOT INCLUDE O-RING FLASH IN THIS MEASUREMENT. FLASH OF .15MM MAX ALLOWED ON O-RINGS.
29. NOTE DELETED.
30. REFER TO MD-XXX-XX-XXXX-XX FOR SAMTEC MATERIAL PART NUMBER.

FIG 1
RPCU-X-XX.XX-AMS-AM SHOWN

UNLESS OTHERWISE SPECIFIED,
DIMENSIONS ARE IN MILLIMETERS.

TOLERANCES ARE:

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

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MATERIAL: DO NOT SCALE DRAWING
INSULATOR: LCP UL94V0, COLOR: BLACK
CONTACT: PHOS BRONZE
SHIELD: PHOS BRONZE
SEALED OVERMOLD: RITEFLEX (640-RD30565P62-BLACK)
NON-SEALED OVERMOLD: PVC (ALP-411-75-BK-2885)
MAX REGRIND: 30 %
MAX PLASTIC FLASH: .13MM
F:\DWG\MISC\MKTG\RPCU-X-XX.XX-XXX-XXX-MKT.SLDDRW

SHEET SCALE: 3:4

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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 53322

DESCRIPTION:

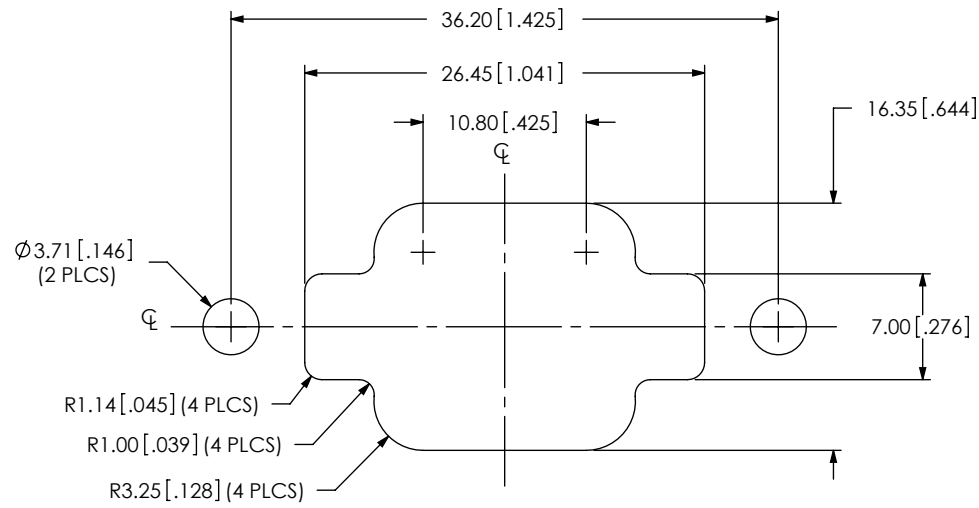
RECTANGULAR PANEL MOUNT CABLE USB

DWG. NO.

RPCU-X-XX.XX-XXX-XX

BY: T NEWTON 05/07/2010 SHEET 1 OF 11

RECOMMENDED PANEL CUT OUT - TYPE B
(SEE NOTE 27)



RECOMMENDED PANEL CUT OUT - TYPE A
(SEE NOTE 27)

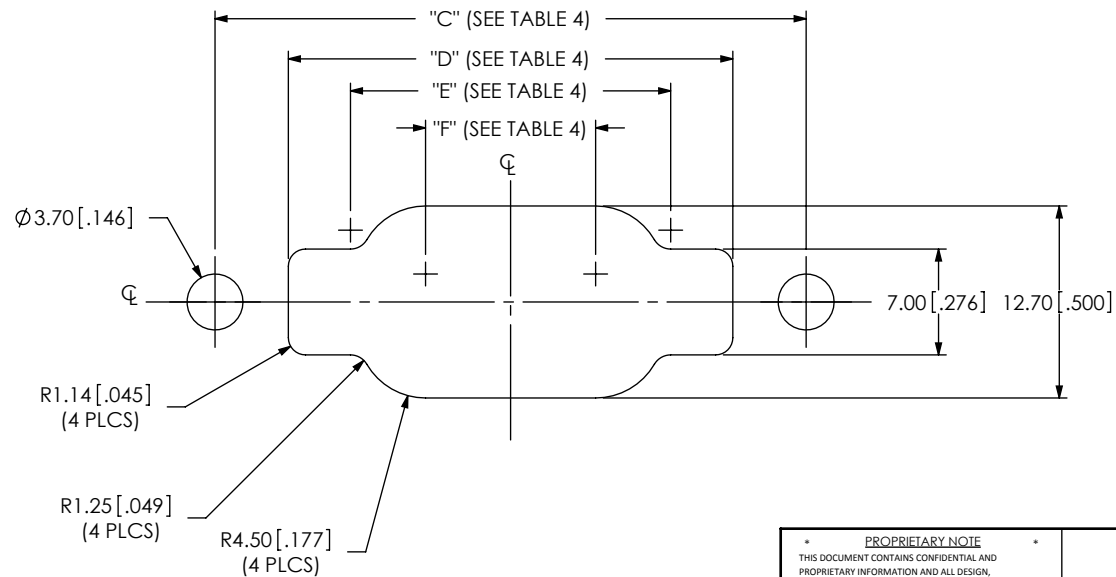


TABLE 4

No. OF POS.	"C"	"D"	"E"	"F"
-01	39.10[1.54]	29.40[1.16]	21.18[0.83]	11.25[0.44]
-02	60.75[2.39]	51.05[2.01]	42.83[1.69]	32.90[1.30]

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DESCRIPTION:
RECTANGULAR PANEL MOUNT CABLE USB

DWG. NO.
RPCU-X-XX.XX-XXX-XX

BY: T NEWTON 05/07/2010 SHEET 2 OF 11

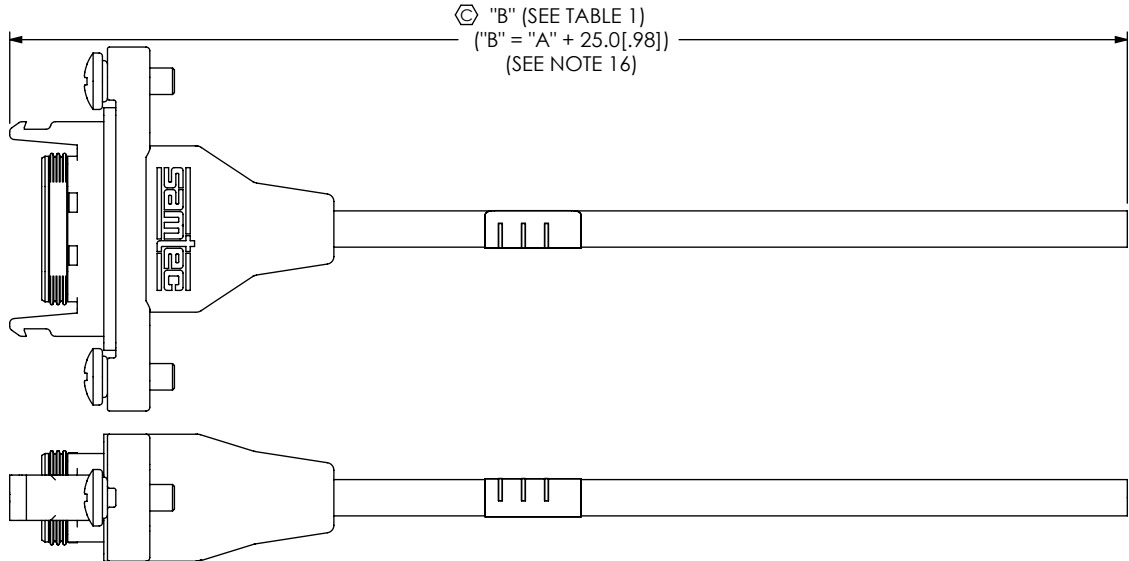
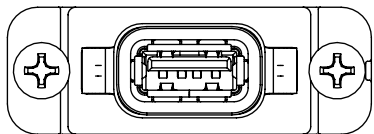


FIG 2
RPCU-X-XX.XX-AMS-BC SHOWN
(DIFFERENT AS SHOWN, OTHERWISE SAME AS FIG 1)

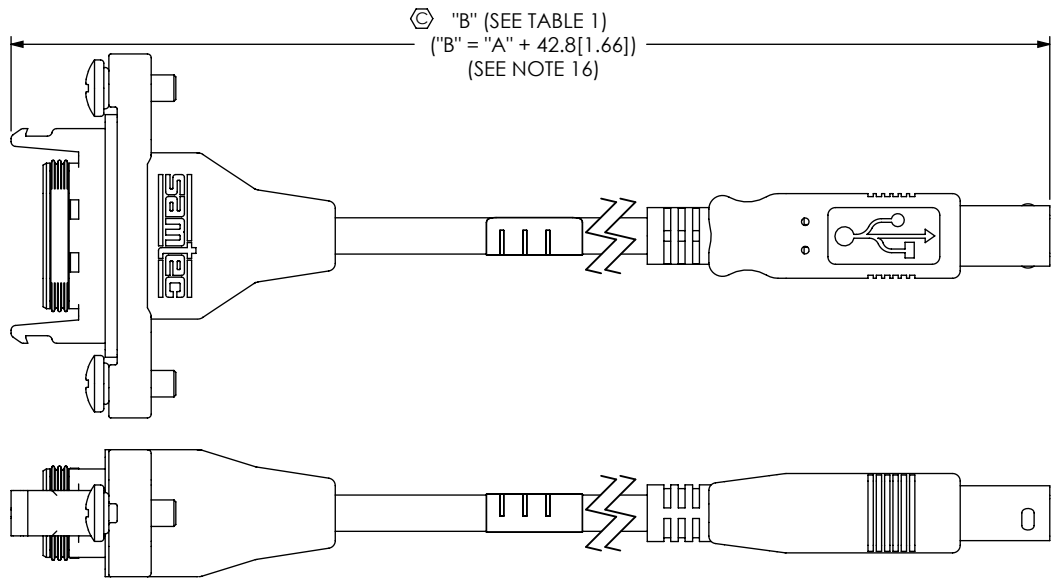
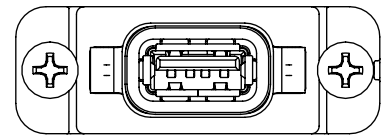
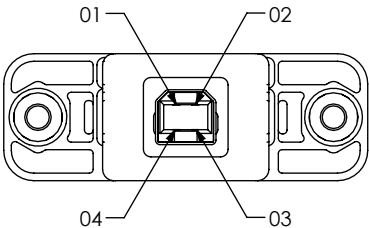


FIG 3
RPCU-X-XX.XX-AMS-BM SHOWN
(DIFFERENT AS SHOWN, OTHERWISE SAME AS FIG 1)



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DWG. NO.
RPCU-X-XX.XX-XXX-XX

BY: T NEWTON 05/07/2010 SHEET 3 OF 11

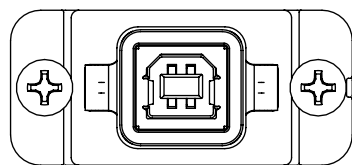
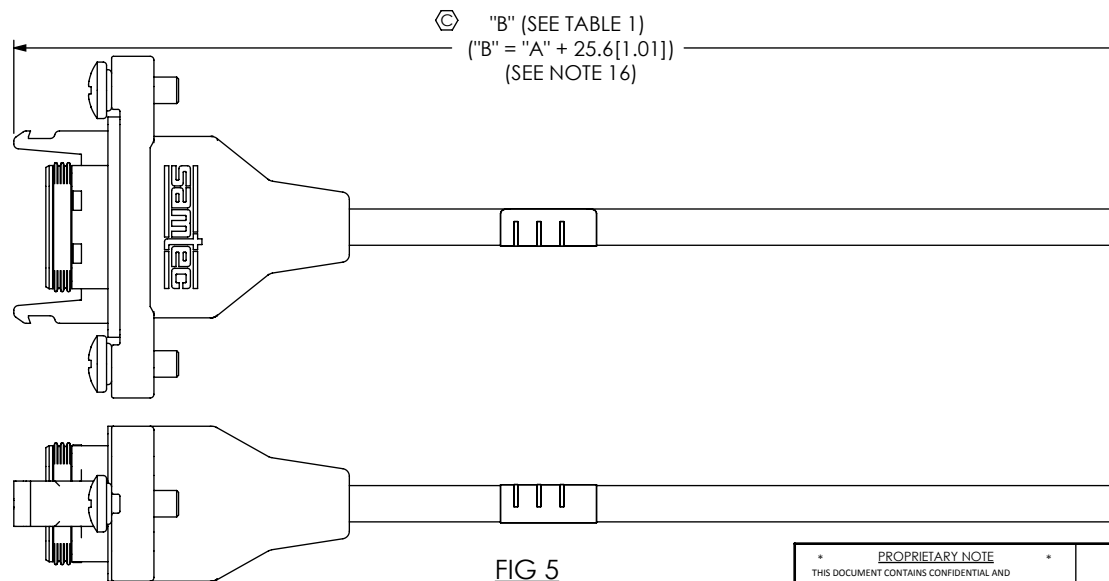
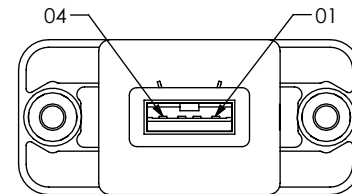
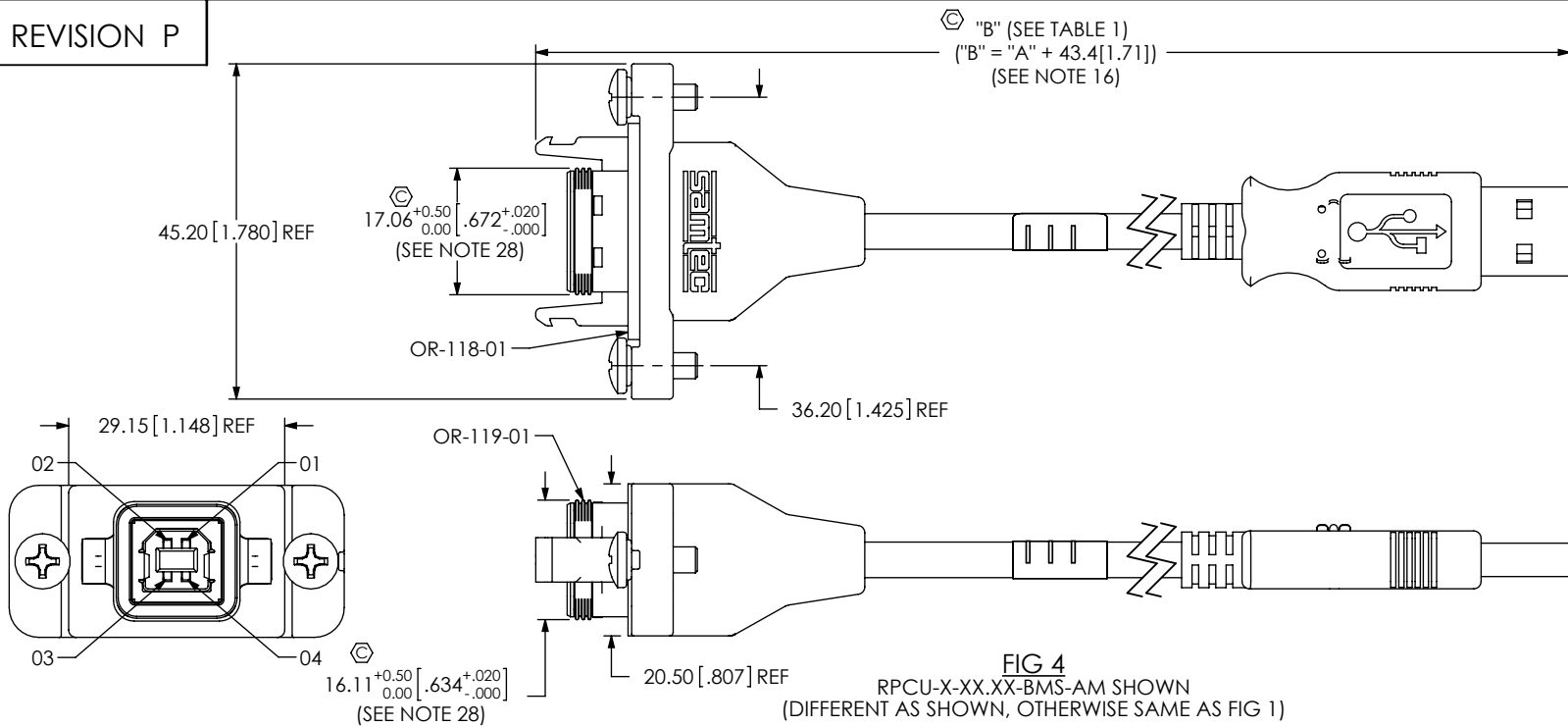


FIG 5
RPCU-X-XX.XX-BMS-BC SHOWN
(DIFFERENT AS SHOWN, OTHERWISE SAME AS FIG 4)

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DESCRIPTION:
RECTANGULAR PANEL MOUNT CABLE USB

DWG. NO.
RPCU-X-XX.XX-XXX-XX

BY: T NEWTON 05/07/2010 SHEET 4 OF 11

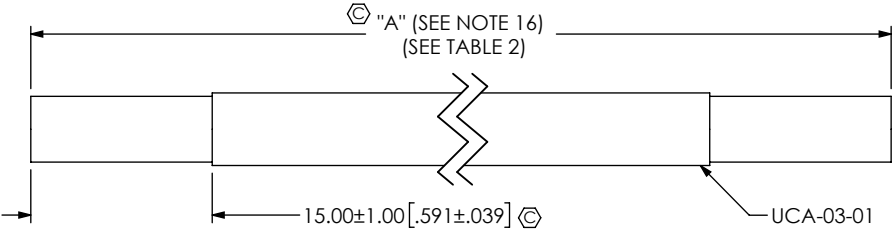
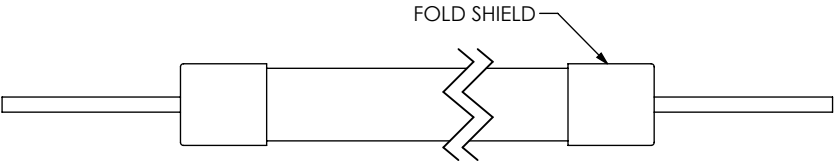
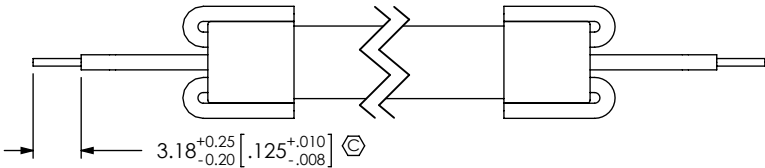


TABLE 2	
END OPTION	"A"
AMS	LENGTH IN MILLIMETERS
AM	LENGTH IN MILLIMETERS
BC	(LENGTH IN MILLIMETERS X 2) + 50.0[2.00]
BM	LENGTH IN MILLIMETERS

IN-PROCESS 2
FOLD SHIELD BACK AND REMOVE FOIL



IN-PROCESS 3
STRIP INDIVIDUAL WIRES AND DIP IN TIN



-AMS-XX: IN-PROCESS 4
SOLDER CABLE TO PCB
(SEE TABLE 3)

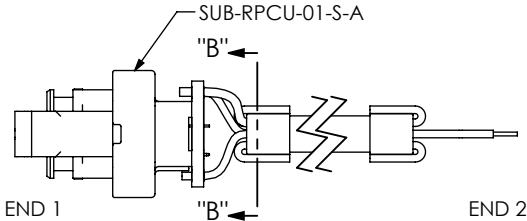
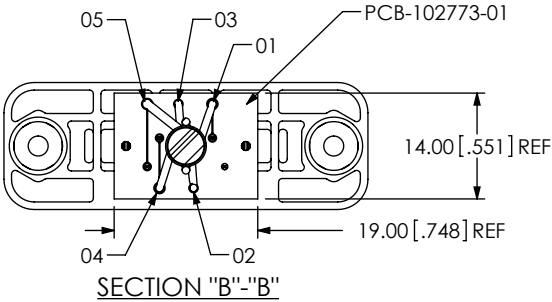
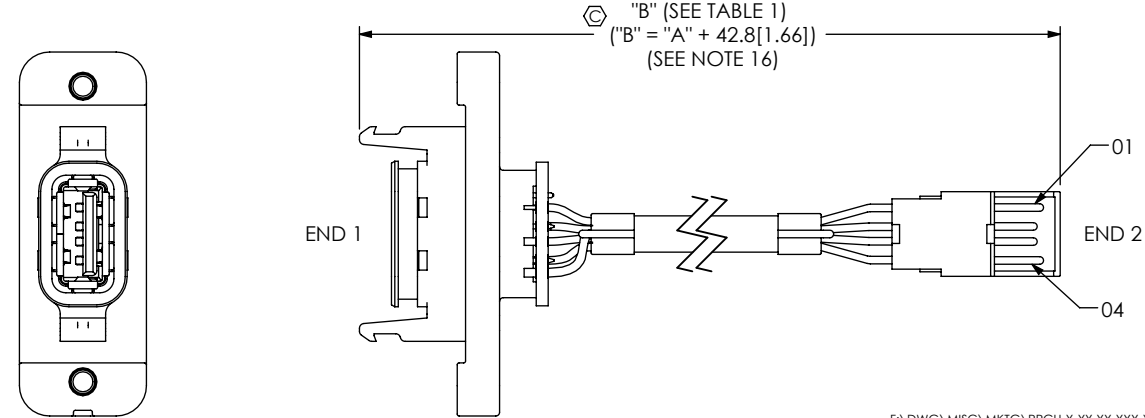


TABLE 3

END 1 POS	WIRE COLOR	END 2 POS
01	RED	01
02	WHITE	02
03	GREEN	03
04	BLACK	04
05	DRAIN WIRE	05

-AMS-AM: IN-PROCESS 5
TERMINATE TO SUB-USB-A-G-B-01 AS SHOWN
(SEE TABLE 3 & NOTE 17)



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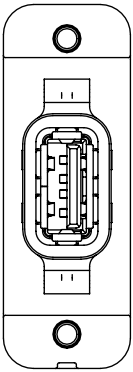
520 PARK EAST BLVD, NEW ALBANY, IN 47150
PHONE: 812-944-6733 FAX: 812-948-5047
e-Mail info@SAMTEC.com code 55322

DESCRIPTION:
RECTANGULAR PANEL MOUNT CABLE USB

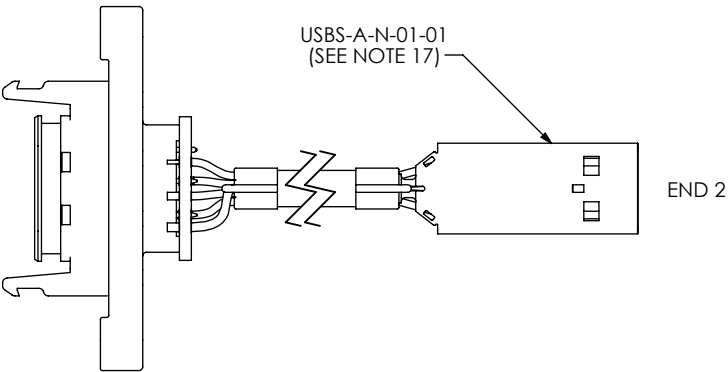
DWG. NO.
RPCU-X-XX.XX-XXX-XX

BY: T NEWTON 05/07/2010 SHEET 5 OF 11

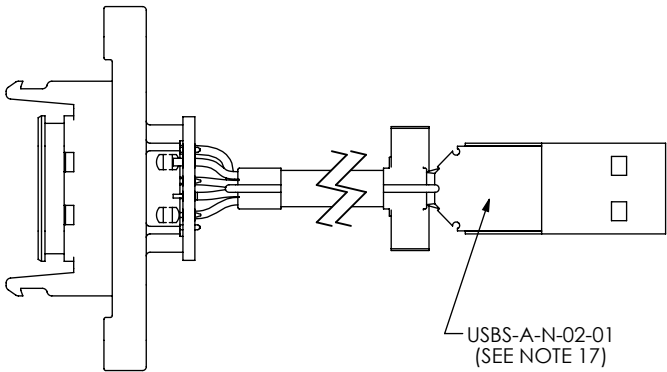
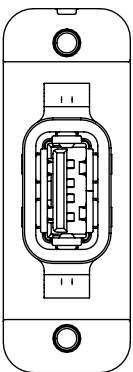
-AMS-AM: IN-PROCESS 6
ADD USBS-A-N-01-01 SHELL
(SEE NOTE 17)



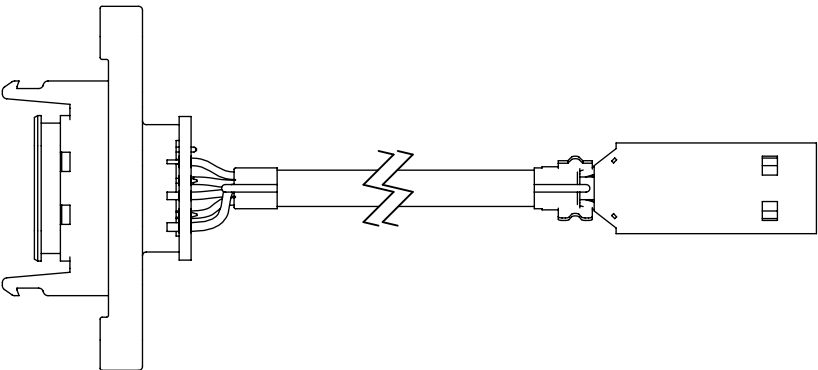
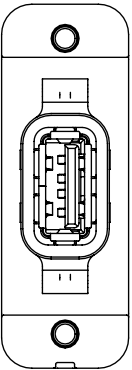
END 1



-AMS-AM: IN-PROCESS 7
ADD USBS-A-N-02-01 SHELL
(SEE NOTE 17)



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



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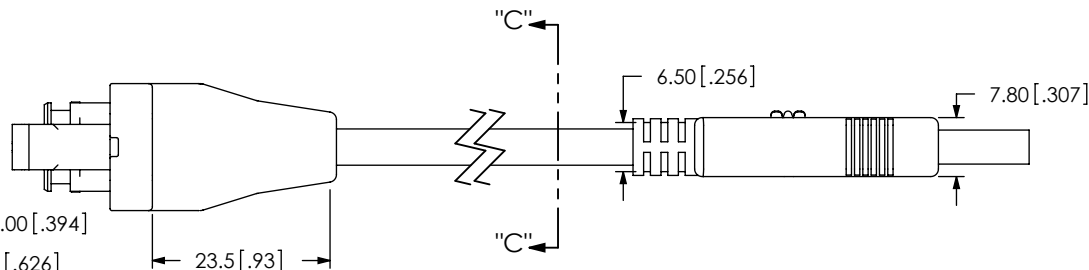
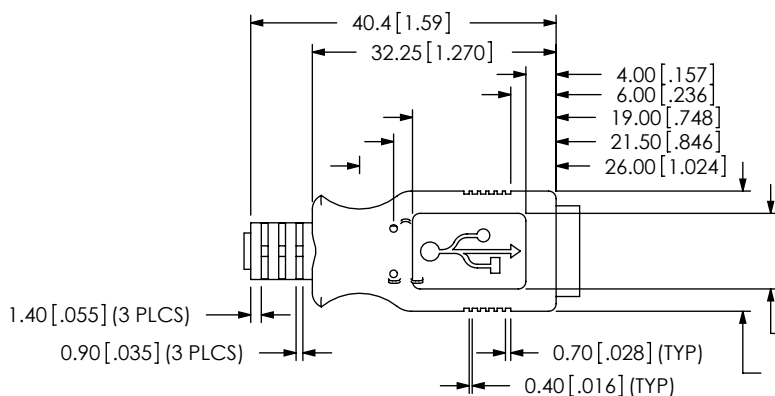
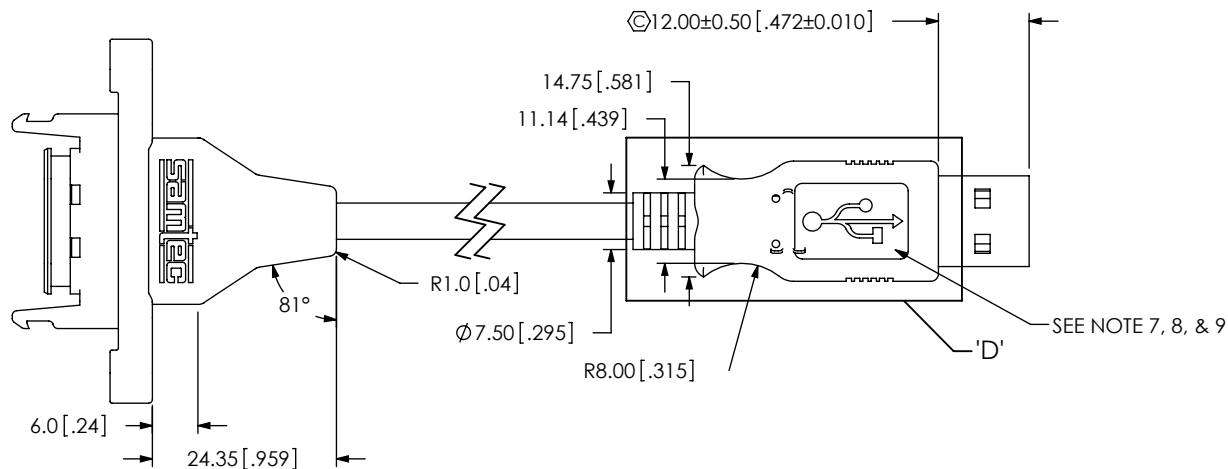
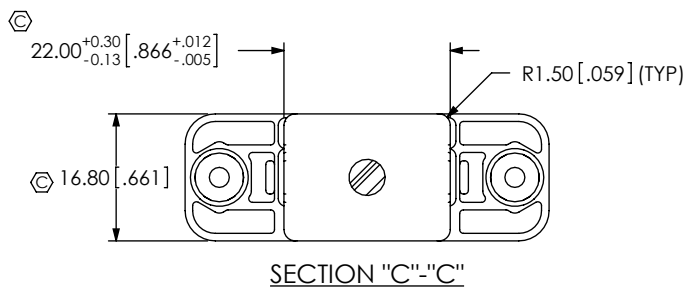
520 PARK EAST BLVD, NEW ALBANY, IN 47150
PHONE: 812-944-6733 FAX: 812-948-5047
e-Mail info@SAMTEC.com code 55322

DESCRIPTION:
RECTANGULAR PANEL MOUNT CABLE USB

DWG. NO. RPCU-X-XX.XX-XXX-XX

BY: T NEWTON 05/07/2010 SHEET 6 OF 11

-AMS-AM: IN-PROCESS 9
POSITION WIRES AND OVERMOLD



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

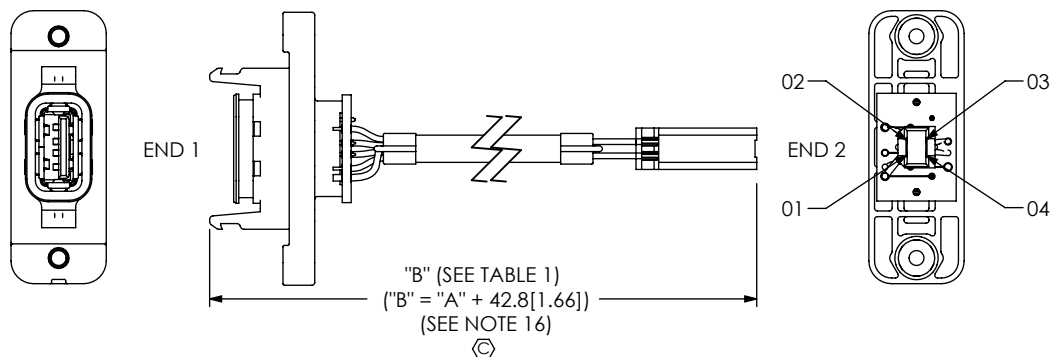
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RECTANGULAR PANEL MOUNT CABLE USB

DWG. NO. **RPCU-X-XX.XX-XXX-XX**

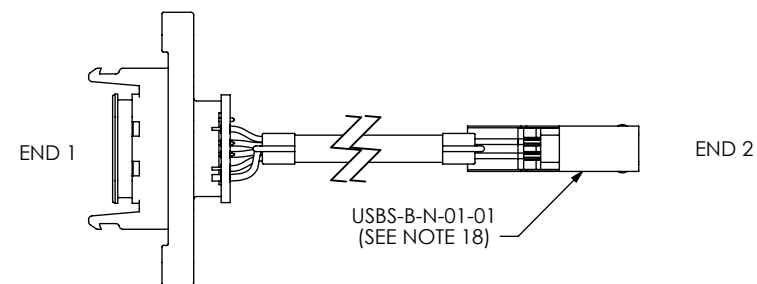
BY: T NEWTON 05/07/2010 SHEET 7 OF 11

REVISION P

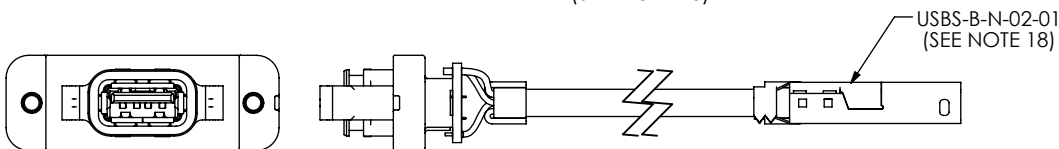
-AMS-BM: IN-PROCESS 5
TERMINATE TO SUB-USB-B-G-B-01 AS SHOWN
(SAME AS -AMS-AM: IN-PROCESS 5, EXCEPT AS SHOWN)
(SEE TABLE 3 & NOTE 18)



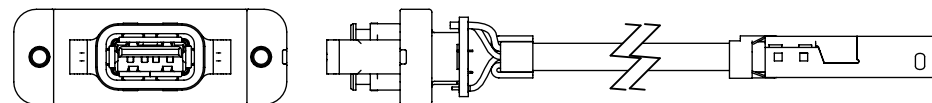
-AMS-BM: IN-PROCESS 6
ADD USB-B-N-01-01 SHELLS
(SAME AS -AMS-AM: IN-PROCESS 6, EXCEPT AS SHOWN)
(SEE NOTE 18)



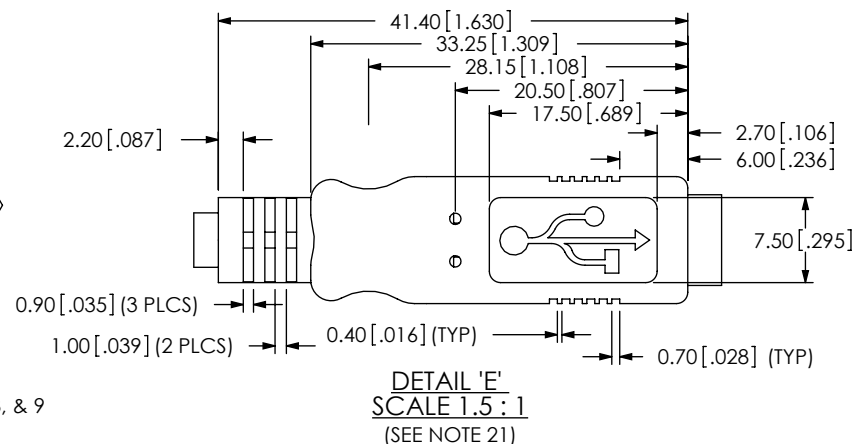
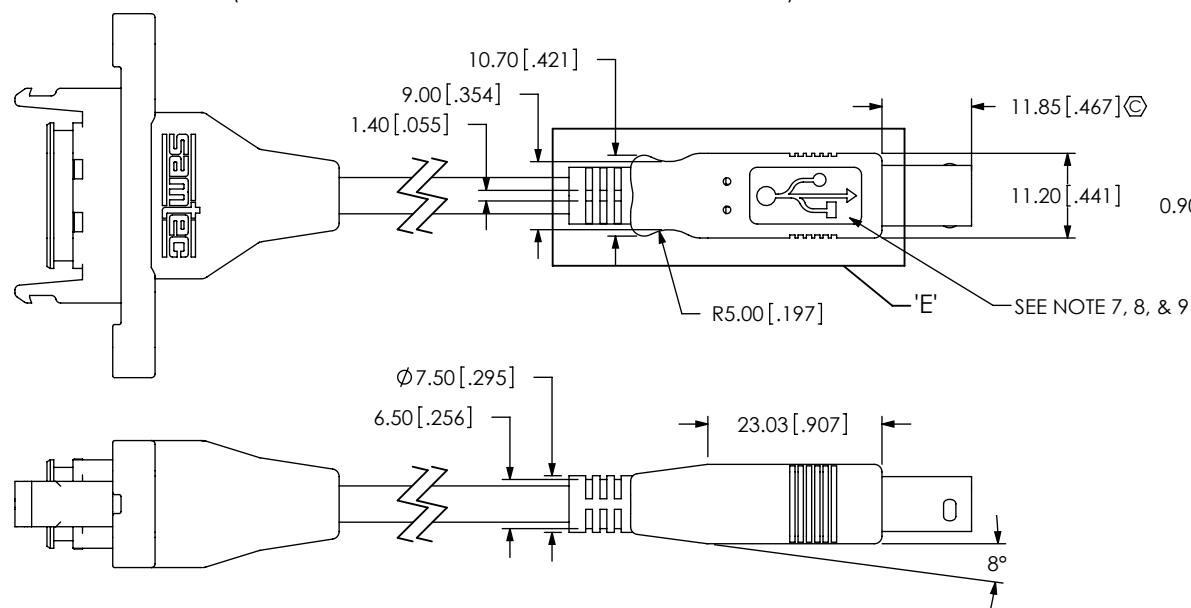
-AMS-BM: IN-PROCESS 7
ADD USB-B-N-02-01 SHELLS
(SAME AS -AMS-AM: IN-PROCESS 7, EXCEPT AS SHOWN)
(SEE NOTE 18)



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



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

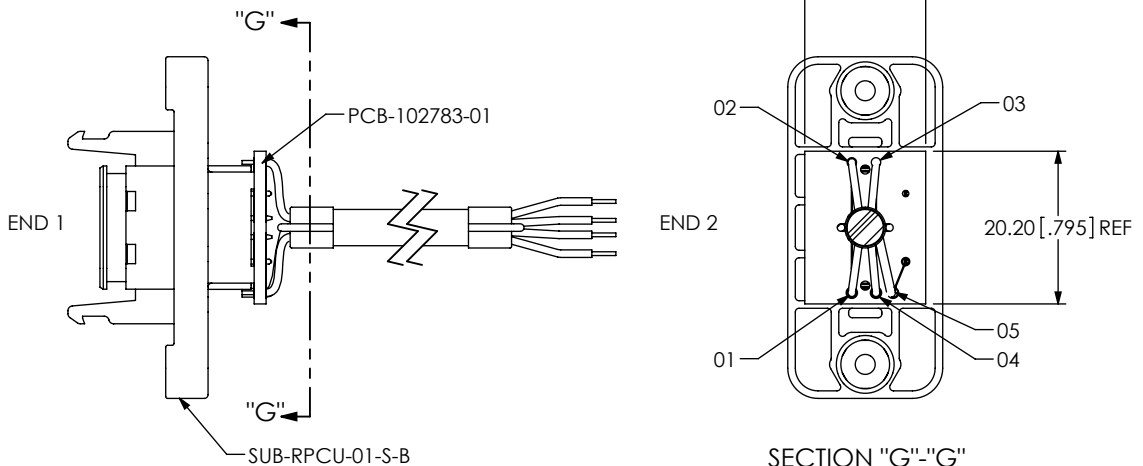


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REVISION P

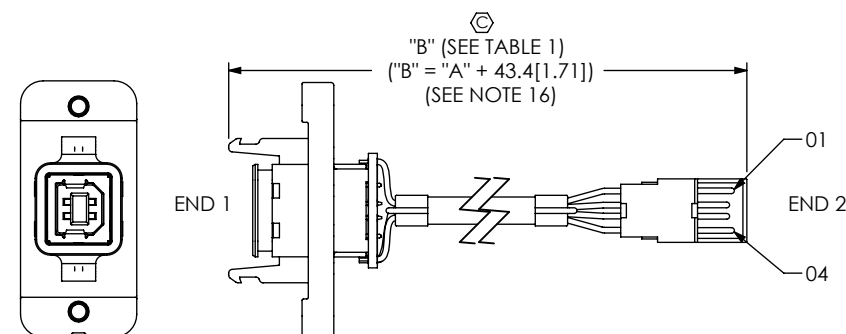
-BMS-XX: IN-PROCESS 4

SOLDER CABLE TO PCB
(SAME AS -AMS-XX: IN-PROCESS 4, EXCEPT AS SHOWN)
(SEE TABLE 3)



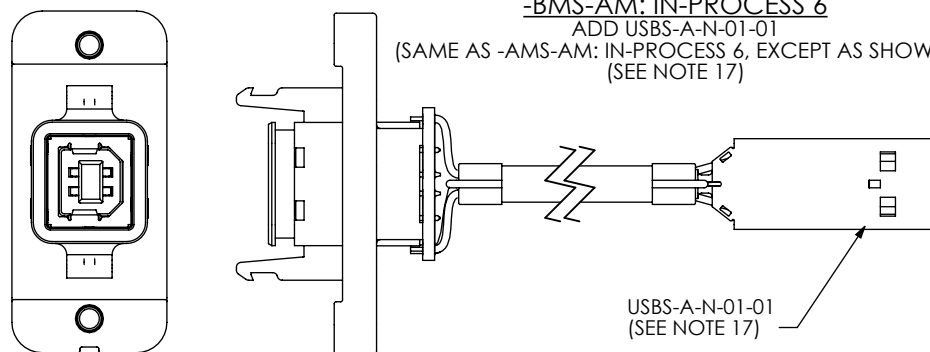
-BMS-AM: IN-PROCESS 5

TERMINATE TO SUB-USB-A-G-B-01 AS SHOWN
(SAME AS -AMS-AM: IN-PROCESS 5, EXCEPT AS SHOWN)
(SEE TABLE 3 & NOTE 17)



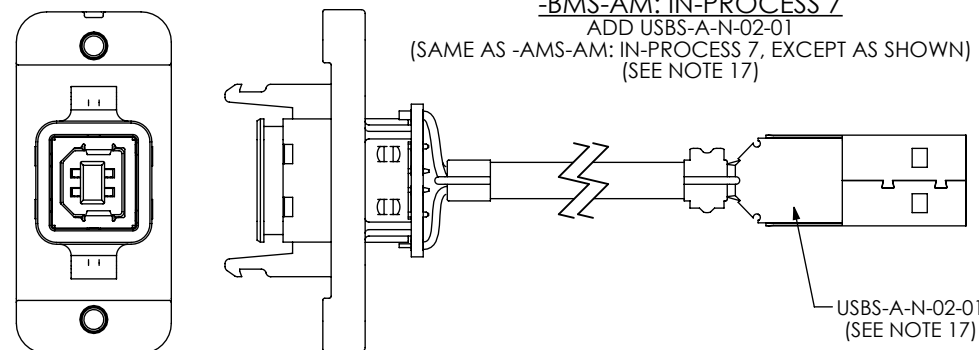
-BMS-AM: IN-PROCESS 6

ADD USBS-A-N-01-01
(SAME AS -AMS-AM: IN-PROCESS 6, EXCEPT AS SHOWN)
(SEE NOTE 17)



-BMS-AM: IN-PROCESS 7

ADD USBS-A-N-02-01
(SAME AS -AMS-AM: IN-PROCESS 7, EXCEPT AS SHOWN)
(SEE NOTE 17)



-BMS-AM: IN-PROCESS 8

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

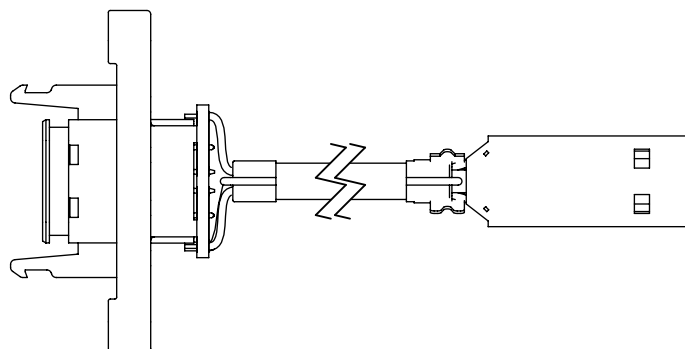


TABLE 3

END 1 POS	WIRE COLOR	END 2 POS
01	RED	01
02	WHITE	02
03	GREEN	03
04	BLACK	04
05	DRAIN WIRE	05

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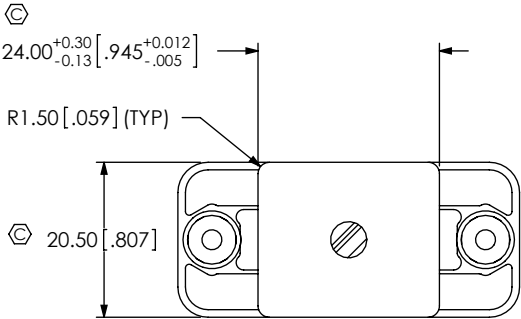
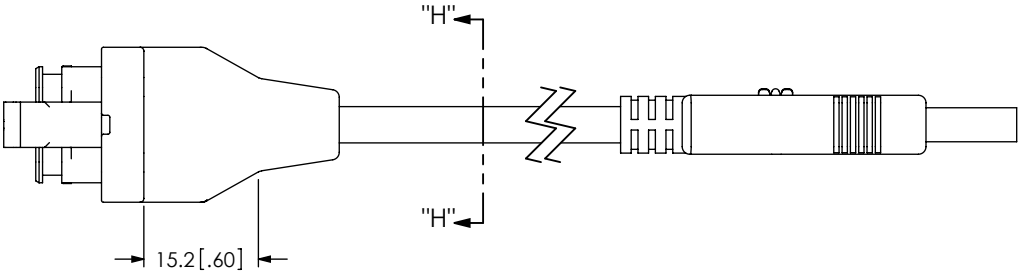
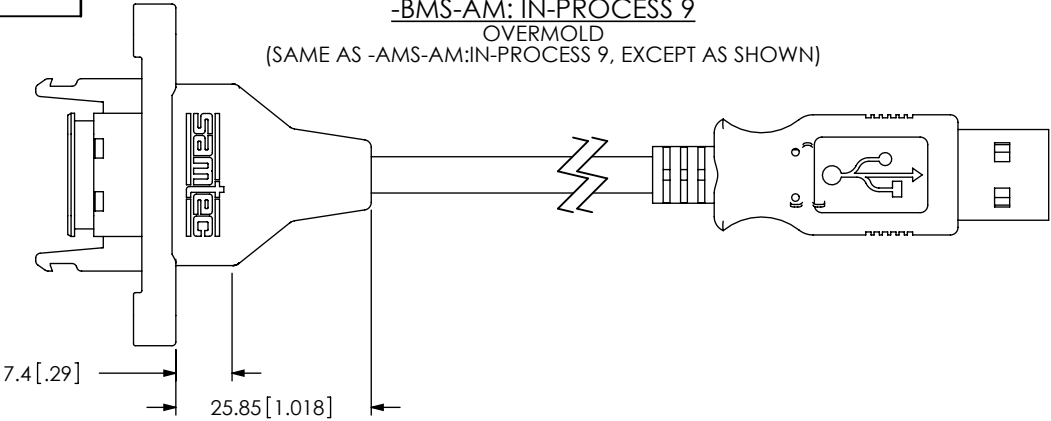
520 PARK EAST BLVD, NEW ALBANY, IN 47150
PHONE: 812-944-6733 FAX: 812-948-5047
e-Mail: info@SAMTEC.com code 55322

DESCRIPTION:
RECTANGULAR PANEL MOUNT CABLE USB

DWG. NO.
RPCU-X-XX.XX-XXX-XX

BY: T NEWTON 05/07/2010 SHEET 9 OF 11

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



SECTION "H"-"H"

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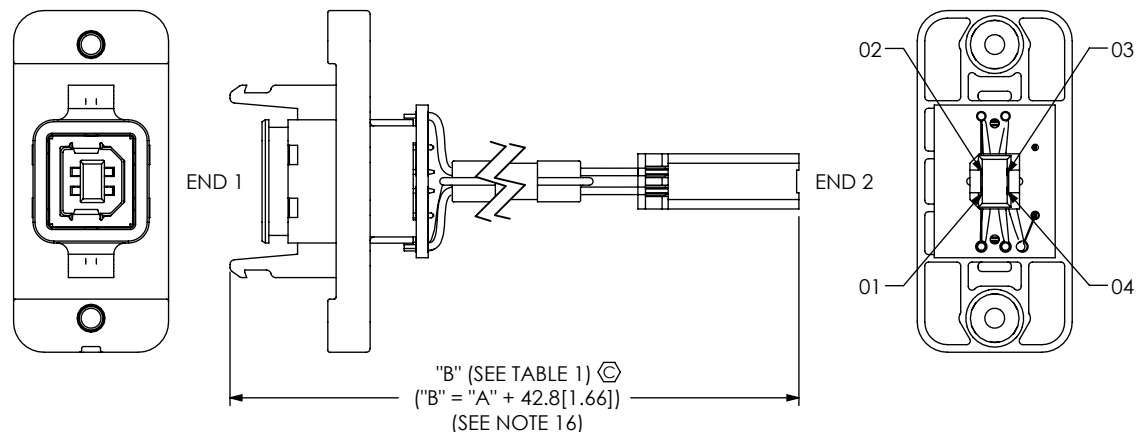
DESCRIPTION:
RECTANGULAR PANEL MOUNT CABLE USB

DWG. NO. **RPCU-X-XX.XX-XXX-XX**

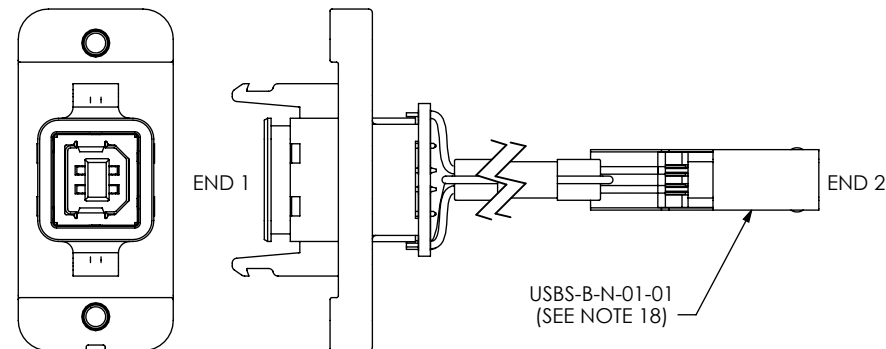
BY: T NEWTON 05/07/2010 SHEET 10 OF 11

REVISION P

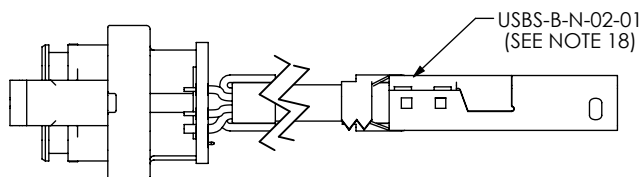
-BMS-BM: IN-PROCESS 5
 TERMINATE TO SUB-USB-B-G-B-01 AS SHOWN
 (SAME AS -AMS-BM: IN-PROCESS 5, EXCEPT AS SHOWN)
 (SEE TABLE 3 & NOTE 18)



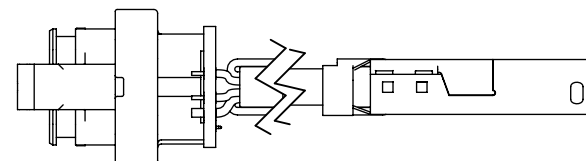
-BMS-BM: IN-PROCESS 6
 ADD USBS-B-N-01-01 SHELLS
 (SAME AS -AMS-BM: IN-PROCESS 6, EXCEPT AS SHOWN)
 (SEE NOTE 18)



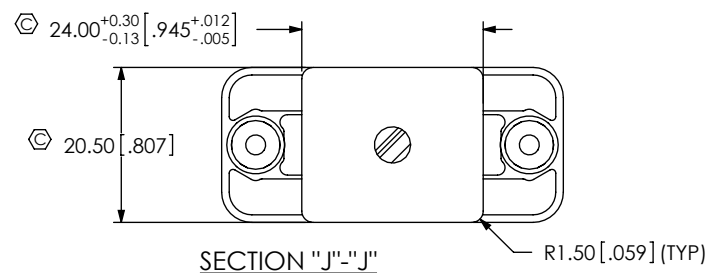
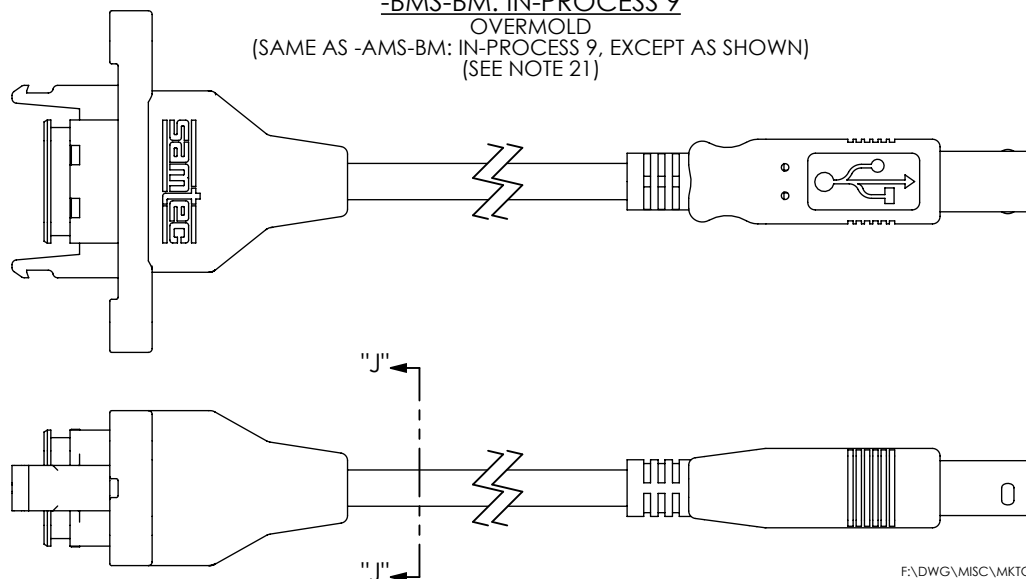
-BMS-BM: IN-PROCESS 7
 ADD USBS-B-N-02-01 SHELLS
 (SAME AS -AMS-BM: IN-PROCESS 7, EXCEPT AS SHOWN)



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



-BMS-BM: IN-PROCESS 9
 OVERMOLD
 (SAME AS -AMS-BM: IN-PROCESS 9, EXCEPT AS SHOWN)
 (SEE NOTE 21)



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DESCRIPTION:
 RECTANGULAR PANEL MOUNT CABLE USB
 DWG. NO. **RPCU-X-XX.XX-XXX-XX**

BY: T NEWTON 05/07/2010 SHEET 11 OF 11