

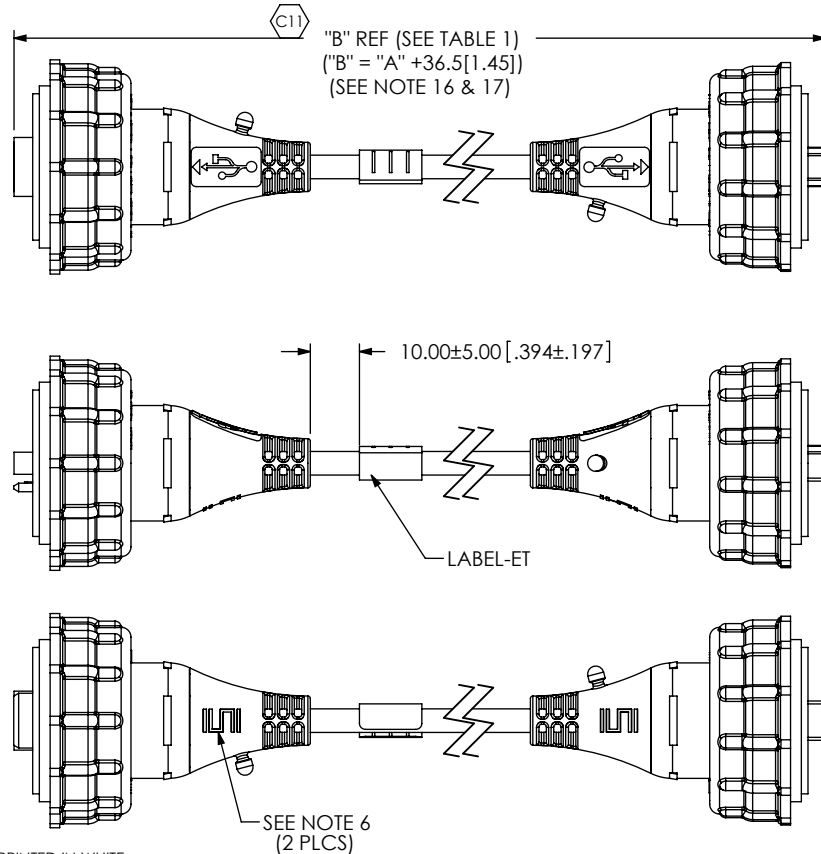
TABLE 1				
PART NUMBER	CABLE PART NUMBER	"A" REF (SEE NOTE 16)	"B" ± 50[2.0] (SEE NOTE 17)	Ø "C" REF
SCPU-17-G-2.00, -AMS, -AM, -BMS, -BM	UCA-02-01	2.00M [78.74]	2.04M [80.18]	4.8[.189]
SCPU-17-G-3.00, -AMS, -AM, -BMS, -BM	UCA-03-01	3.00M [118.11]	3.04M [119.55]	5.0[.197]
SCPU-17-G-5.00, -AMS, -AM, -BMS, -BM	UCA-03-01	5.00M [196.85]	5.04M [198.29]	5.2[.205]
SCPU-17-G-2.00, -BC	UCA-02-01	2.00M [78.74]	2.02M [79.53]	4.8[.189]
SCPU-17-G-3.00, -BC	UCA-03-01	3.00M [118.11]	3.02M [118.90]	5.0[.197]
SCPU-17-G-5.00, -BC	UCA-03-01	5.00M [196.85]	5.02M [197.64]	5.2[.205]



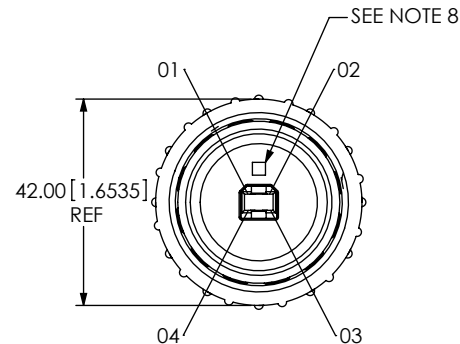
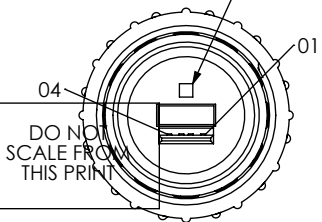
**THIS PRODUCT MANUFACTURED  
WITH LEAD-FREE PROCESSING**

**DESIGNED & DIMENSIONED  
IN MILLIMETERS[INCHES]**

FIG. 1  
SCPU-17-G-X.XX-AMS-BMS SHOWN



SEE NOTE 8



NOTES:

1. Ⓢ REPRESENTS A CRITICAL DIMENSION.
2. NOTE DELETED.
3. SURFACE TO BE RECESSED 0.22[.009].
4. USB LOGO TO BE RAISED 0.25[.010]. USB LOGO TO BE PRINTED IN WHITE.
5. USB LOGO'S TO BE ALIGNED TO USB CONNECTORS AS SHOWN.
6. SAMTEC LOGO TO APPEAR ON SURFACE AS SHOWN, APPROXIMATELY 4.50[.177] x 7.50[.295], RAISED 0.25[.010].
7. MOLDED SURFACES SHALL BE CONSISTENT AND SMOOTH. SURFACES TO BE FREE OF SCRATCHES, NICKS, SINK AREAS, VOIDS, OR OTHER BLEMISHES.
8. ALL MULTIPLE CAVITY MOLDS SHALL IDENTIFY EACH CAVITY WITH A NUMBER DESIGNATION LOCATED WHERE SHOWN.
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. FINISHED ASSEMBLY TO BE 100% TESTED FOR OPENS AND SHORTS BEFORE PREMOLD AND AFTER FINAL ASSEMBLY. AFTER FINAL ELECTRICAL TEST, LABEL EACH ASSEMBLY WITH 1 LABEL-ET.
12. ALL EJECTOR 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 MAX UNLESS OTHERWISE STATED.
16. X.XX LENGTH IS EQUAL TO LENGTH ("A").
17. FOR ALL LENGTHS TOLERANCE SHALL BE ± 2% OF LENGTH.
18. ASSEMBLY TO BE SHIPPED IN BULK PACKAGING.
19. THIS IS A COMPONENT OF USBP-A-01-G-B-01 (CALLED OUT ON THE BOM), BUT LABELLED INDIVIDUALLY FOR ASSEMBLY PURPOSES.
20. THIS IS A COMPONENT OF USBP-B-01-G-B-01 (CALLED OUT ON THE BOM), BUT LABELLED INDIVIDUALLY FOR ASSEMBLY PURPOSES.
21. TORQUE SPECIFICATION FOR SCN-17-01 IS 12 IN-LBS.

SCPU-17-X-X.XX-XXX-XXX

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

LENGTH  
-X.XX ("A", SEE TABLE 1)  
(0.17M[6.69] MIN - 5.00M[196.85] MAX)

END 1 OPTIONS  
-AMS: SEALED USB A  
(USB A END SEALED ONLY)  
-BMS: SEALED USB B  
(USB B END SEALED ONLY)

END 2 OPTIONS  
-AMS: SEALED USB A  
(USB A END SEALED ONLY)  
-BMS: SEALED USB B  
(USB B END SEALED ONLY)  
-AM: USB A NOT SEALED  
(USB A END NOT SEALED ONLY)  
-BM: USB B NOT SEALED  
(USB B END NOT SEALED ONLY)  
-BC: BLUNT CUT  
(SEE SHEET3 )

**NOTE:**

-2.00, -3.00, AND -5.00 ARE CATALOG STANDARD LENGTHS.  
FOR OTHER LENGTHS (0.17M[6.69] MIN - 5.00M[196.85] MAX)  
CONTACT SAMTEC.

TABLE 6

LENGTH RANGE	USE CABLE PART No.	O.D.
0.17M - 1.99M	UCA-01-XX	4.80
2.00M - 2.99M	UCA-02-XX	5.00
3.00M - 5.00M	UCA-03-XX	5.20

UNLESS OTHERWISE SPECIFIED,  
DIMENSIONS ARE IN MILLIMETERS.

TOLERANCES ARE:  
DECIMALS ANGLES  
0.X: ±0.35 [.014]  
0.XX: ±0.25 [.010]  
0.XXX: ±0.15 [.006]

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MATERIAL: DO NOT SCALE DRAWING SHEET SCALE: 1:1.33333  
INSULATOR: GLASS FILLED THERMOPLASTIC  
CONTACTS: COPPER ALLOY  
SHIELDS: CRS. CABLE NUT: PA66  
SEALED PREMOLD: LDPE/ SHOT WEIGHT 10.66 g [.0235 lb]  
NON-SEALED PREMOLD: N/A  
SEALED OVERMOLD: PA66 GF13 FR/ SHOT WEIGHT 12.71 g [.0280 lb]  
NON SEALED OVERMOLD: PVC/ SHOT WEIGHT: 9.07 g [.0200 lb]  
F:\DWG\MISC\MKTG\SCPU-17-X-X.XX-XXX-XXX-MKT.SLDDRW

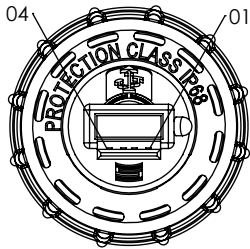
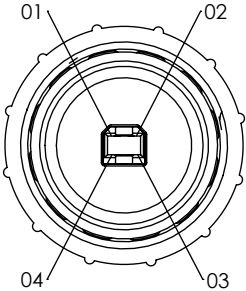
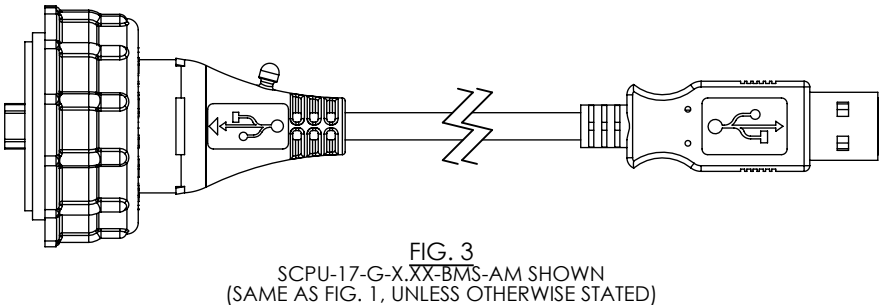
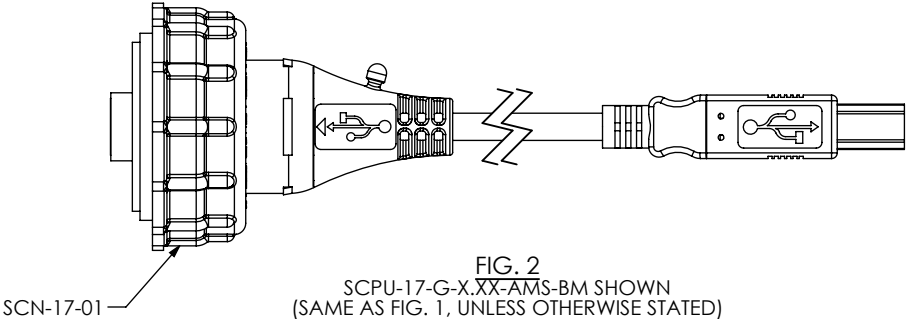
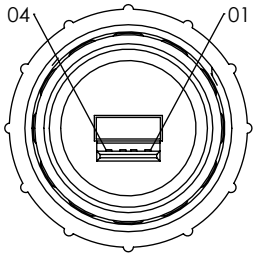
**samtec**

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

DESCRIPTION:  
SEALED CIRCULAR CABLE PLUG, USB

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

BY: CHAD F 12/8/2004 SHEET 1 OF 10



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SHEET SCALE: 1:1.33333

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SEALED CIRCULAR CABLE PLUG, USB

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

BY: CHAD F 12/8/2004 SHEET 2 OF 10

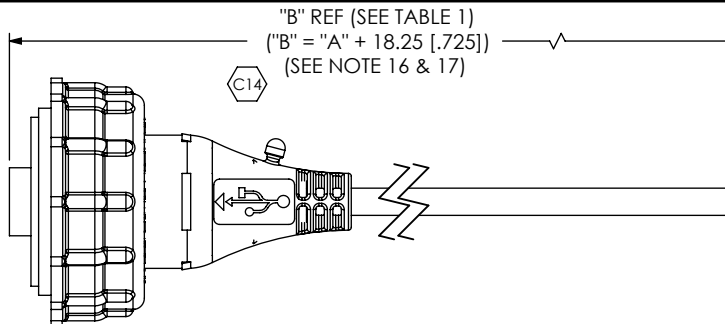
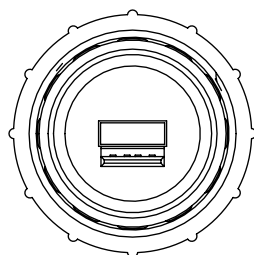


FIG. 4  
SCPU-17-G-X.XX-AMS-BC SHOWN  
(SAME AS FIG. 1, UNLESS OTHERWISE STATED)

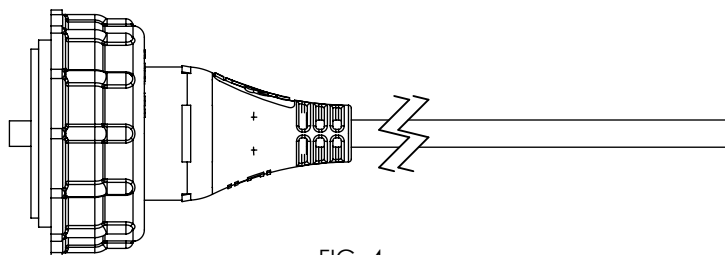
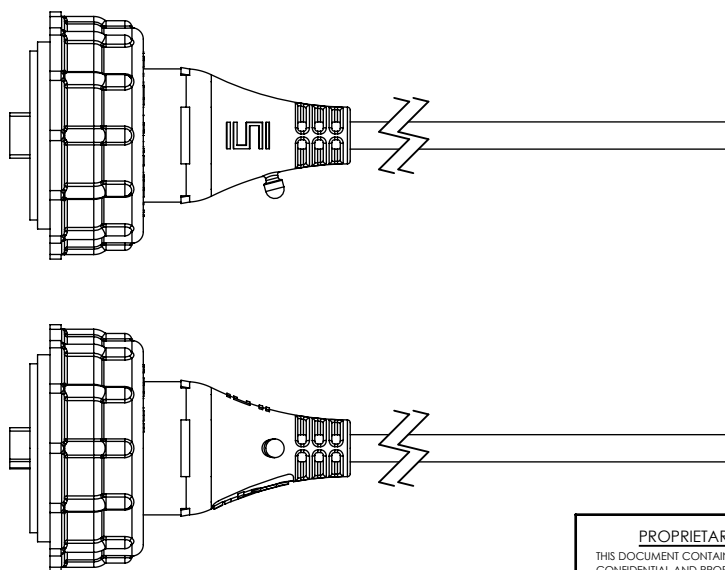
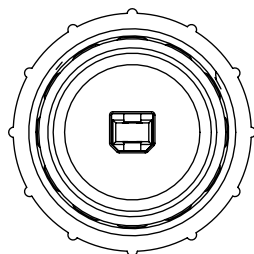
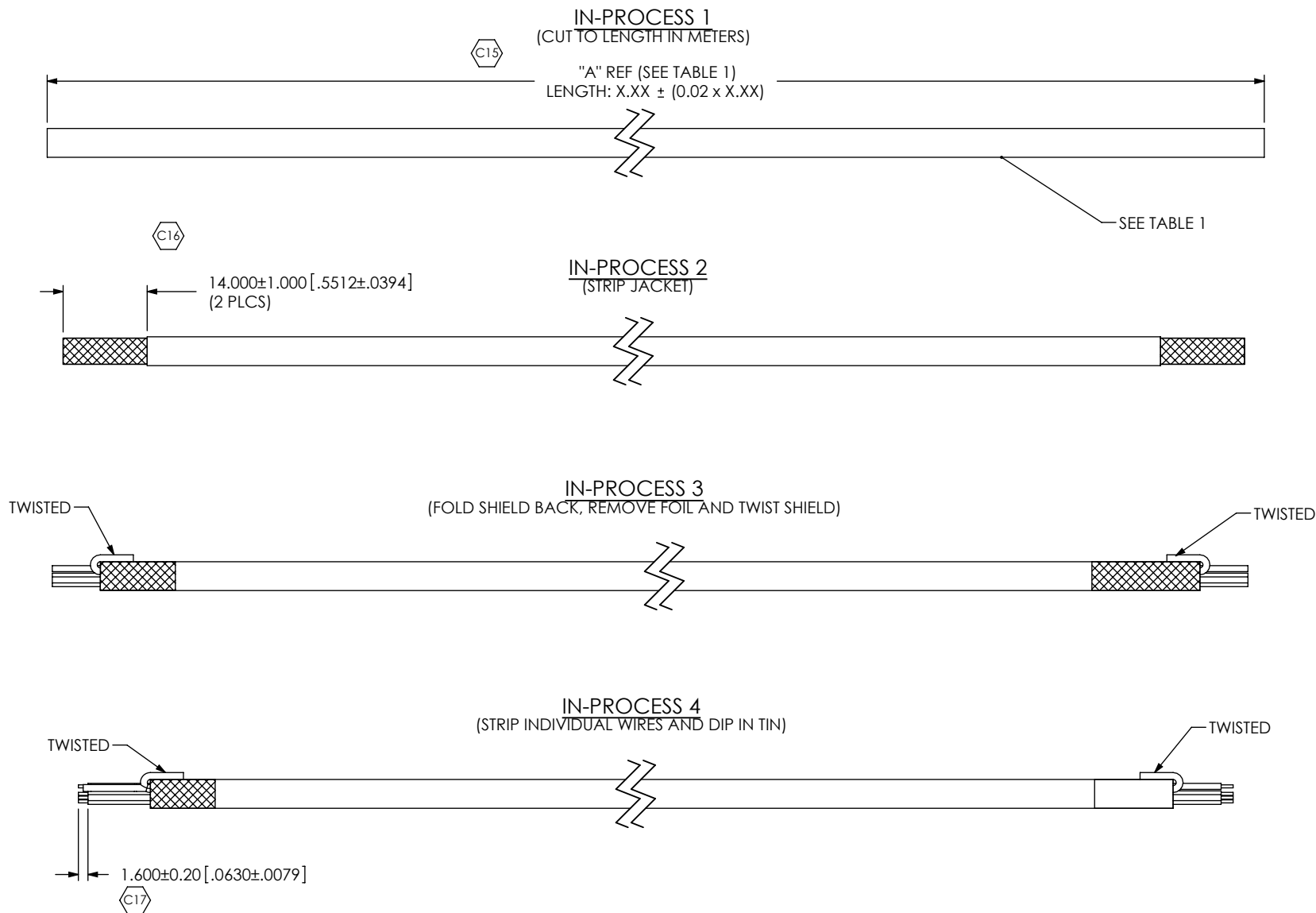


FIG. 5  
SCPU-17-G-X.XX-BMS-BC SHOWN  
(SAME AS FIG. 4, UNLESS OTHERWISE STATED)



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<p>DO NOT SCALE DRAWING</p>		<p>DESCRIPTION: SEALED CIRCULAR CABLE PLUG, USB</p>	
<p>SHEET SCALE: 1:1.33333</p>		<p>DWG. NO. <b>SCPU-17-X-X.XX-XXX-XXX</b></p>	
<p>F:\DWG\MISC\MKTG\SCPU-17-X-X.XX-XXX-XXX-MKT.SLDDRW</p>		<p>BY: CHAD F</p>	<p>12/8/2004</p>
		<p>SHEET 3 OF 10</p>	



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DESCRIPTION:												
<b>SEALED CIRCULAR CABLE PLUG, USB</b>												
DWG. NO.												
<b>SCPU-17-X-X.XX-XXX-XXX</b>												
BY: CHAD F	12/8/2004	SHEET 4 OF 10										

IN-PROCESS 5  
TERMINATE TO SUB-USB-A-G-B-01 (SEE NOTE 19)

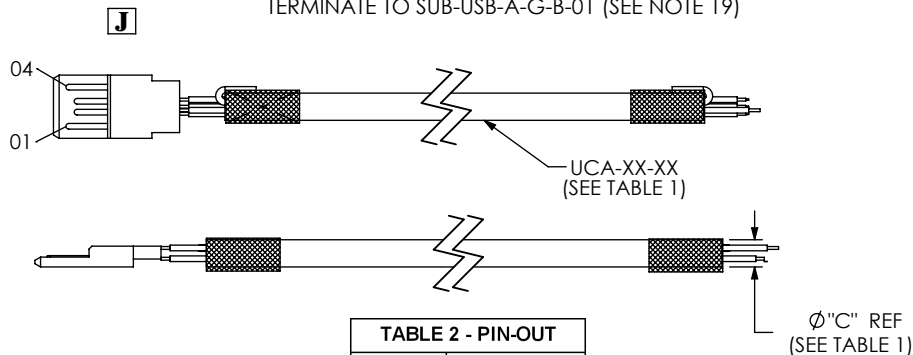


TABLE 2 - PIN-OUT	
POS	WIRE COLOR
01	RED
02	WHITE
03	GREEN
04	BLACK

IN-PROCESS 6  
TERMINATE TO SUB-USB-B-G-B-01 (SEE NOTE 20)

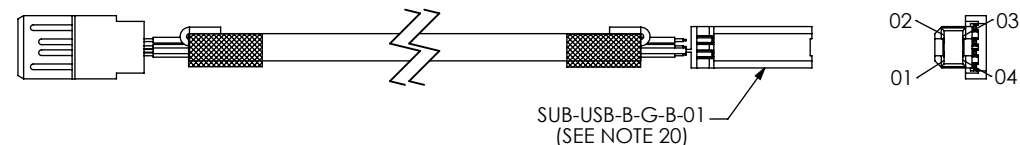
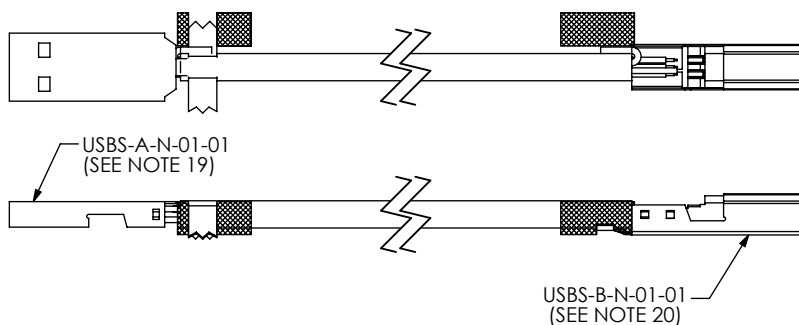
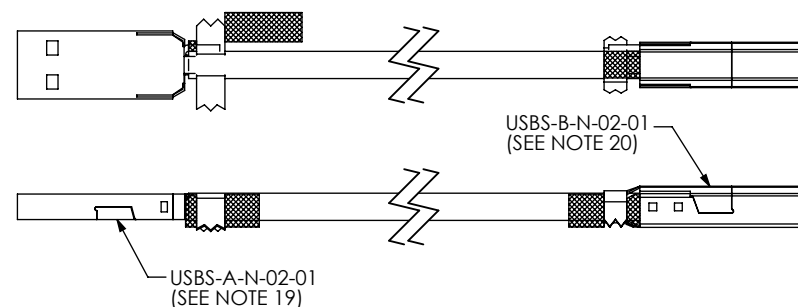


TABLE 3 - PIN-OUT	
POS	WIRE COLOR
01	RED
02	WHITE
03	GREEN
04	BLACK

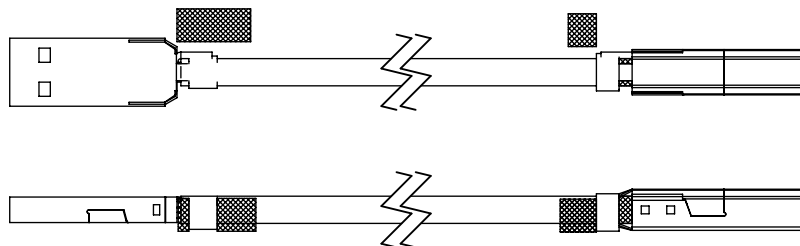
IN-PROCESS 7  
ADD USBS-A-N-01-01 (SEE NOTE 19) & USBS-B-N-01-01 (SEE NOTE 20) SHELLS



IN-PROCESS 8  
ADD USBS-A-N-02-01 (SEE NOTE 19) & USBS-B-N-02-01 (SEE NOTE 20) SHELLS



IN-PROCESS 9  
CRIMP SHELLS OVER BRAID AND ADD SOLDER SHIELD TO SHELL  
THEN FOLD GROUND WIRE "TWISTED SHIELD" OVER CRIMP AND SOLDER TO SHELL



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

DESCRIPTION:

SEALED CIRCULAR CABLE PLUG, USB

DWG. NO.

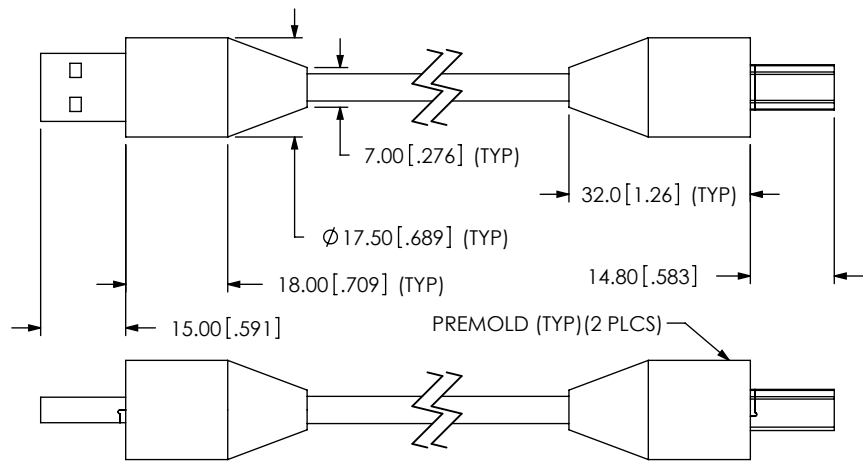
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BY: CHAD F

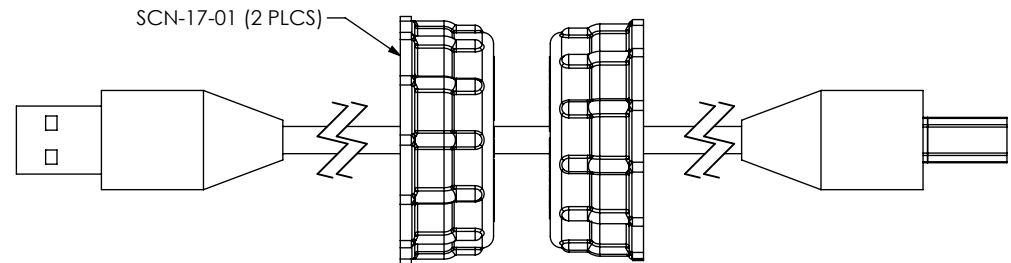
12/8/2004

SHEET 5 OF 10

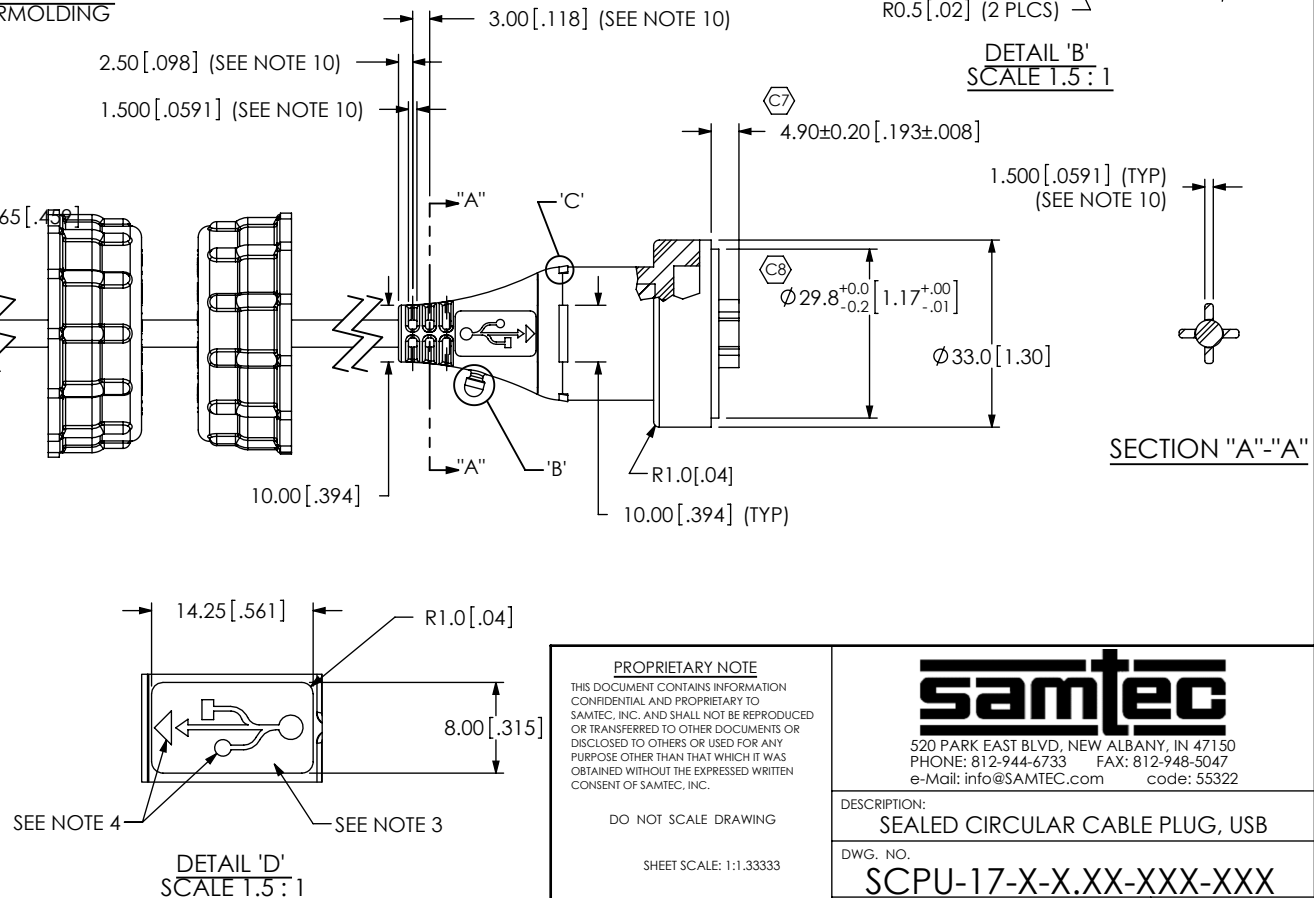
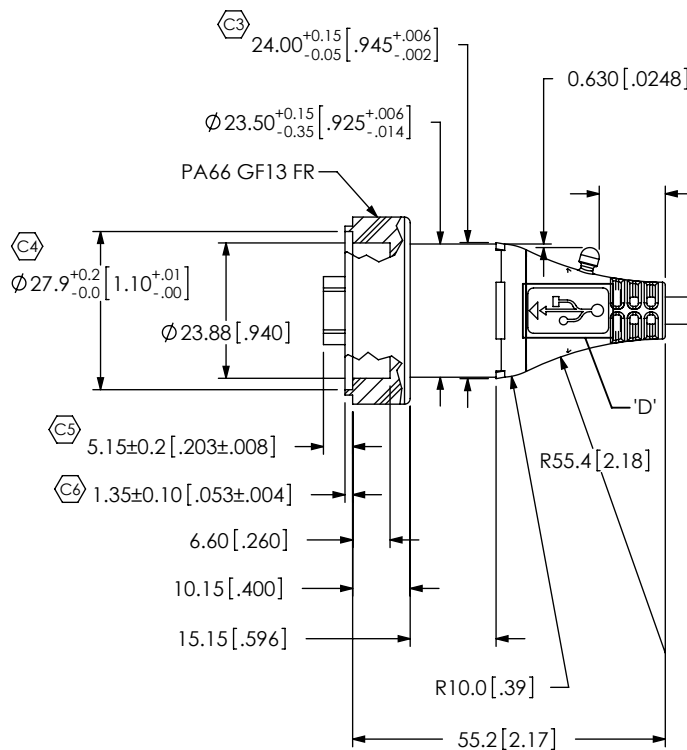
-AMS AND -BMS END OPTIONS  
IN-PROCESS 10  
PREMOLDING



-AMS AND -BMS END OPTIONS  
IN-PROCESS 11  
ADD SCN-17-01



-AMS AND -BMS END OPTIONS  
IN-PROCESS 12  
OVERMOLDING



DETAIL 'D'  
SCALE 1.5:1

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

DESCRIPTION:  
SEALED CIRCULAR CABLE PLUG, USB

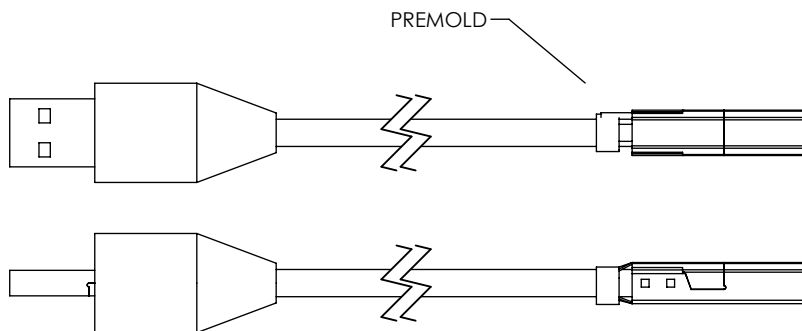
DWG. NO.  
**SCPU-17-X-X.XX-XXX-XXX**

BY: CHAD F 12/8/2004 SHEET 6 OF 10

# REVISION J

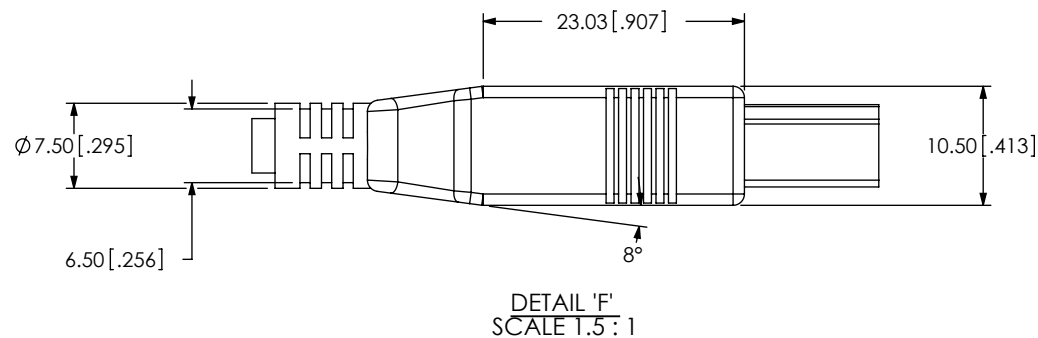
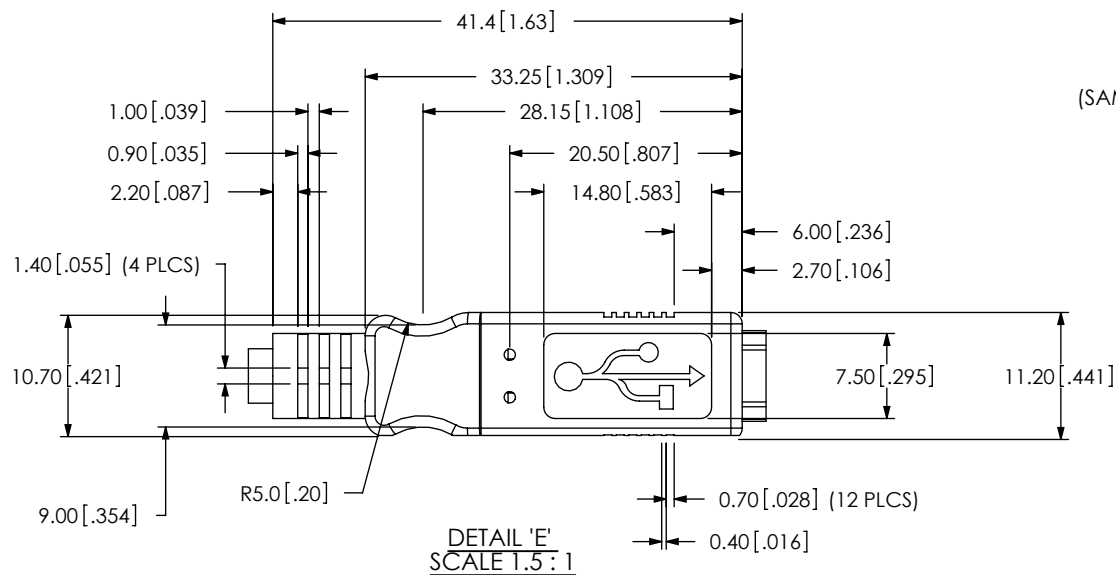
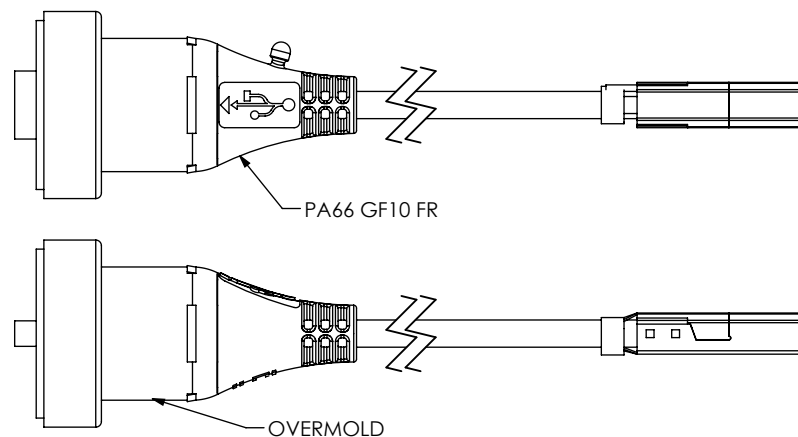
## -BM END OPTION IN-PROCESS 10 PREMOLDING

(SAME AS -AMS AND -BMS END OPTIONS IN-PROCESS 10, UNLESS OTHERWISE STATED)



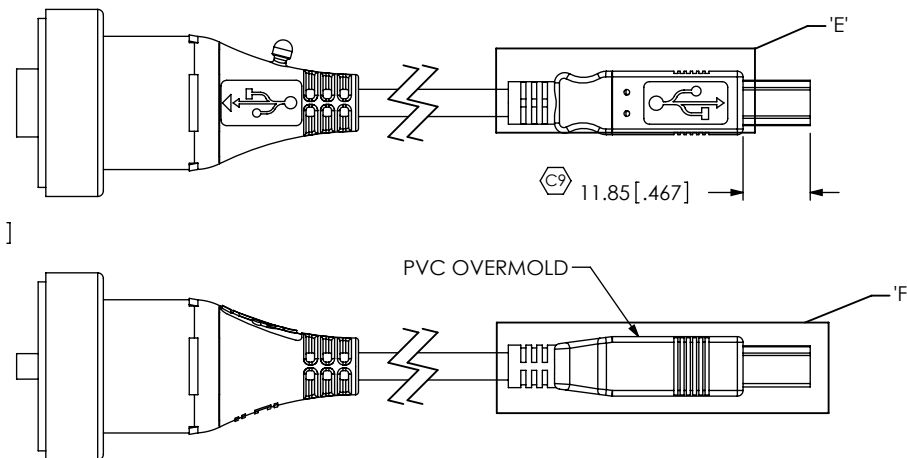
## -BM END OPTION IN-PROCESS 11 OVERMOLDING

(SAME AS -AMS AND -BMS END OPTIONS IN-PROCESS 11, UNLESS OTHERWISE STATED)



## -BM END OPTION IN-PROCESS 12 NON-SEALED OVERMOLDING

(SAME AS -AMS AND -BMS END OPTIONS IN PROCESS 12, UNLESS OTHERWISE STATED)



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SHEET SCALE: 1:1.33333

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

DESCRIPTION:

SEALED CIRCULAR CABLE PLUG, USB

DWG. NO.

SCPU-17-X-X.XX-XXX-XXX

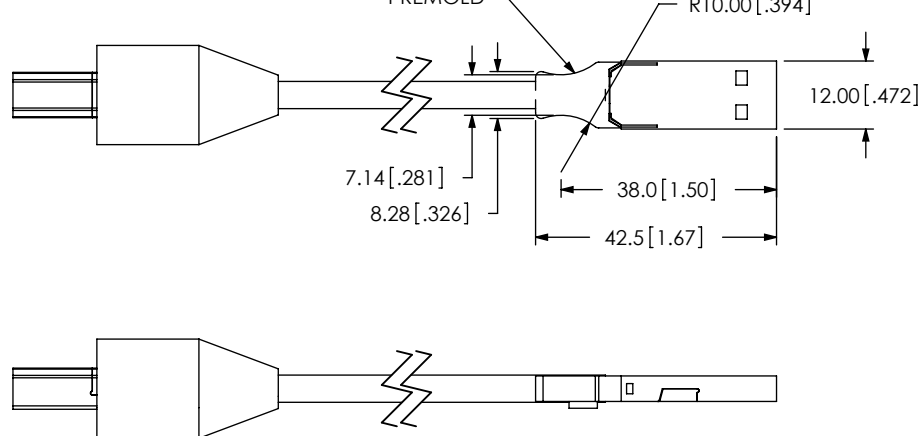
BY: CHAD F

12/8/2004

SHEET 7 OF 10

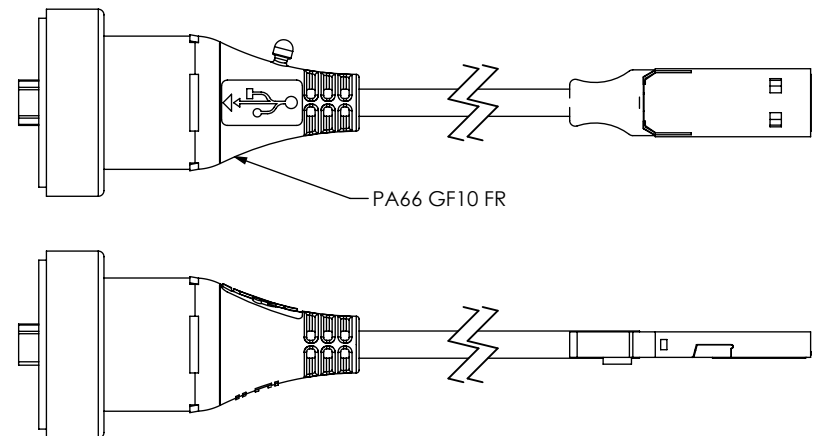
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IN-PROCESS 10  
PREMOLDING

(SAME AS -AMS AND -BMS END OPTIONS IN-PROCESS 10, UNLESS OTHERWISE STATED)



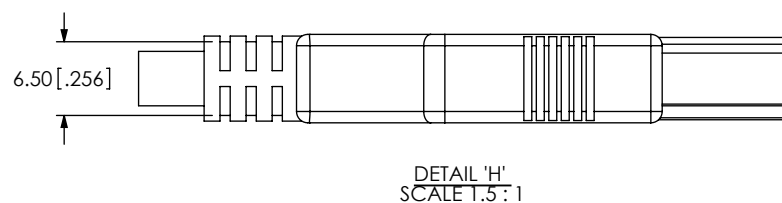
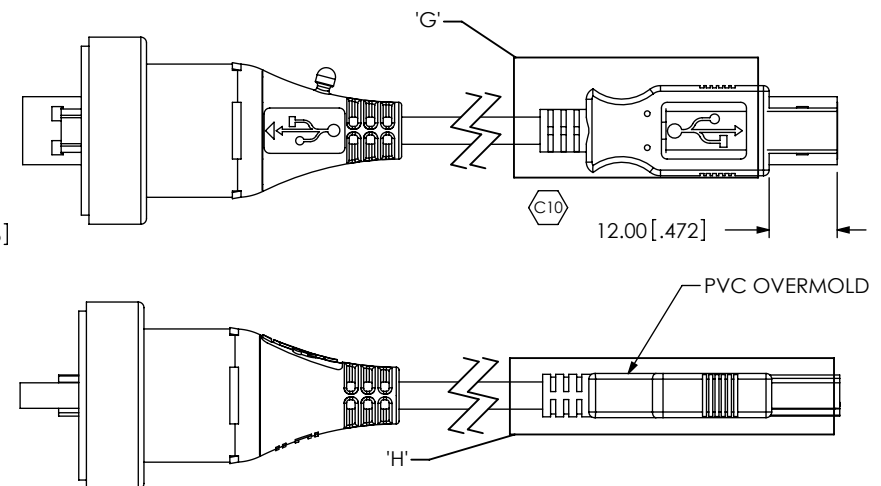
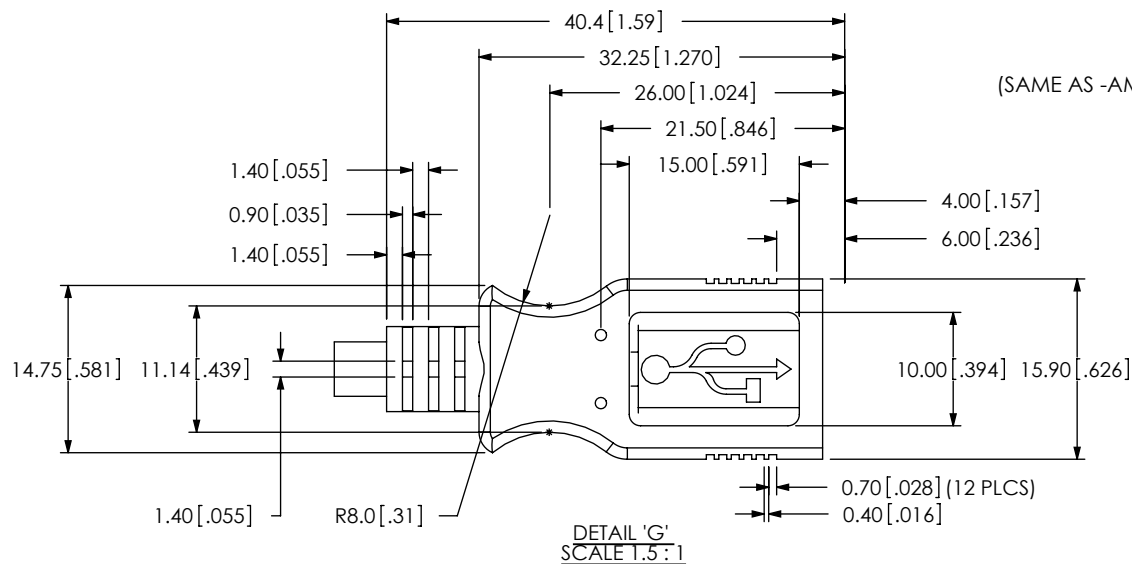
-AM END OPTION  
IN-PROCESS 11  
OVERMOLDING

(SAME AS -AMS AND -BMS END OPTIONS IN-PROCESS 11, UNLESS OTHERWISE STATED)



-AM END OPTION  
IN-PROCESS 12  
NON-SEALED OVERMOLDING

(SAME AS -AMS AND -BMS END OPTIONS IN-PROCESS 12, UNLESS OTHERWISE STATED)



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

DESCRIPTION:  
SEALED CIRCULAR CABLE PLUG, USB

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

BY: CHAD F 12/8/2004 SHEET 8 OF 10



**IN-PROCESS 5**  
 TERMINATE TO SUB-USB-A-G-B-01 (SEE NOTE 19)  
 (SAME AS -AMS AND -BMS END OPTIONS IN-PROCESS 5, UNLESS OTHERWISE STATED)

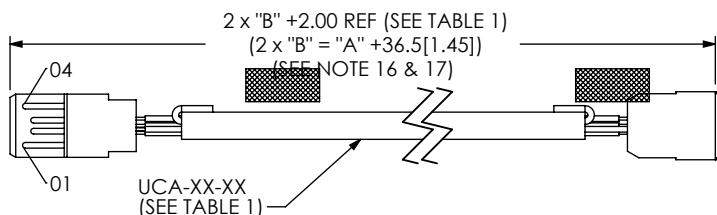
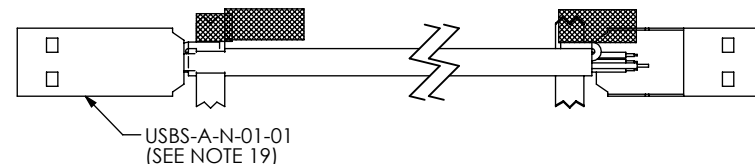
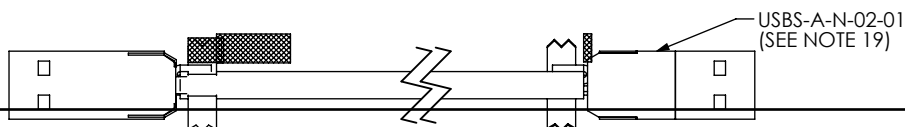


TABLE 4 - PIN-OUT	
POS	WIRE COLOR
01	RED
02	WHITE
03	GREEN
04	BLACK

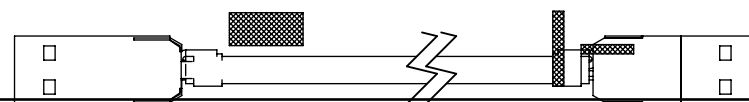
**IN-PROCESS 6**  
 ADD USB-A-N-01-01 SHELL  
 (SAME AS -AMS AND -BMS END OPTIONS IN-PROCESS 7, UNLESS OTHERWISE STATED)



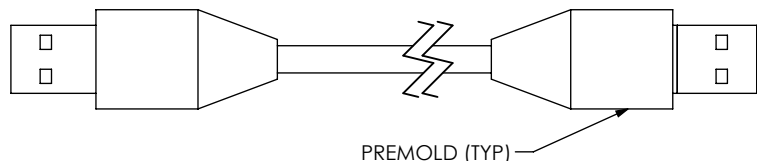
**IN-PROCESS 7**  
 ADD USB-A-N-02-01 SHELL  
 (SAME AS -AMS AND -BMS END OPTIONS IN-PROCESS 8, UNLESS OTHERWISE STATED)



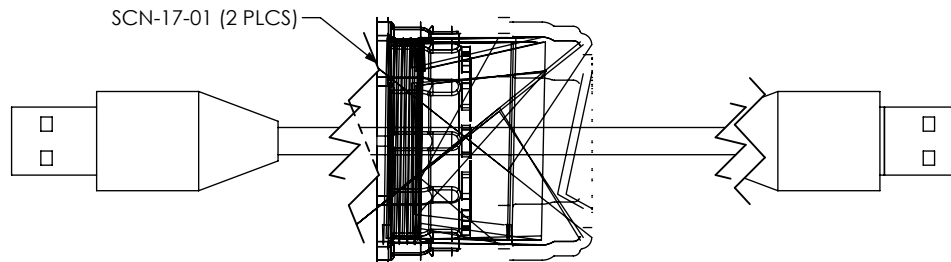
**IN-PROCESS 8**  
 CRIMP SHELLS OVER BRAID  
 (SAME AS -AMS AND -BMS END OPTIONS IN-PROCESS 9, UNLESS OTHERWISE STATED)



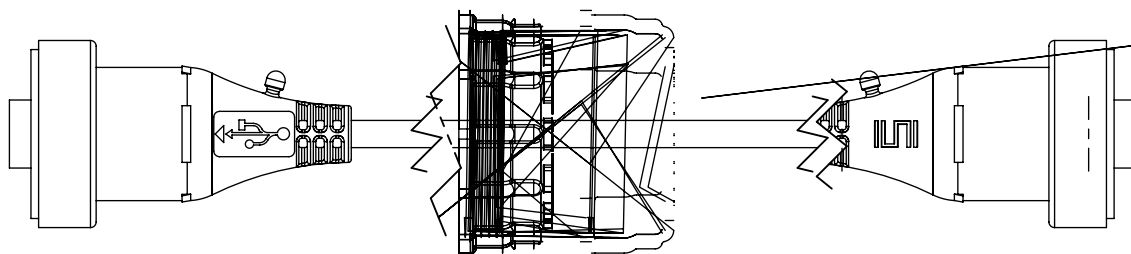
**IN-PROCESS 9**  
 PREMOLDING  
 (SAME AS -AMS AND -BMS END OPTIONS IN-PROCESS 10, UNLESS OTHERWISE STATED)



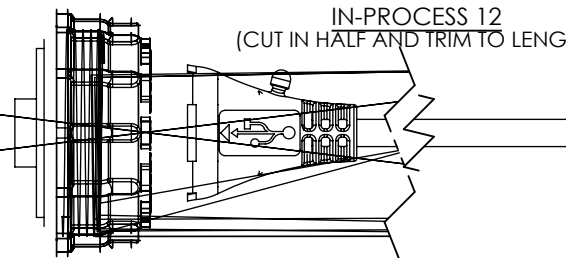
**IN-PROCESS 10**  
 ADD SCN-17-01  
 (SAME AS -AMS AND -BMS END OPTIONS IN-PROCESS 11, UNLESS OTHERWISE STATED)



**IN-PROCESS 11**  
 OVERMOLDING  
 (SAME AS -AMS AND -BMS END OPTIONS IN-PROCESS 12, UNLESS OTHERWISE STATED)



**IN-PROCESS 12**  
 (CUT IN HALF AND TRIM TO LENGTH)



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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:  
 SEALED CIRCULAR CABLE PLUG, USB

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

BY: CHAD F 12/8/2004 SHEET 9 OF 10

**IN-PROCESS 5**  
 TERMINATE TO SUB-USB-B-G-B-01  
 (SAME AS -AMS AND -BMS END OPTIONS IN-PROCESS 6, UNLESS OTHERWISE STATED)

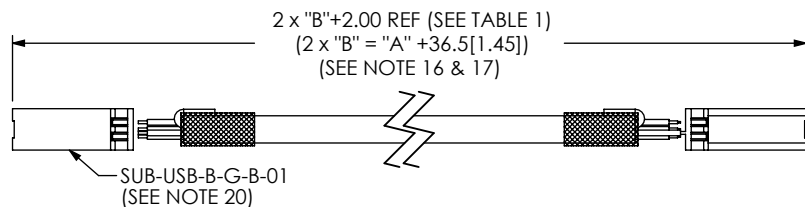
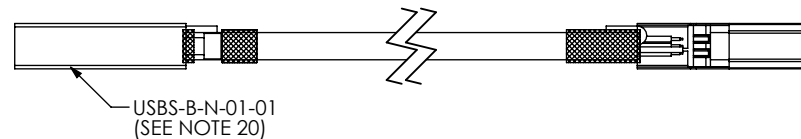
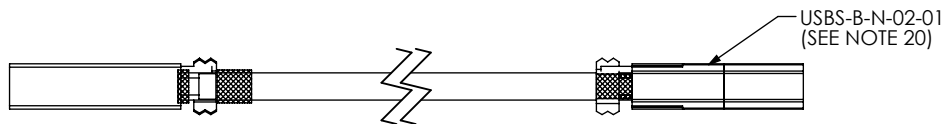


TABLE 5 - PIN-OUT	
POS	WIRE COLOR
01	RED
02	WHITE
03	GREEN
04	BLACK

**IN-PROCESS 6**  
 ADD USB5-B-N-01-01 SHELL  
 (SAME AS -AMS AND -BMS END OPTIONS IN-PROCESS 7, UNLESS OTHERWISE STATED)



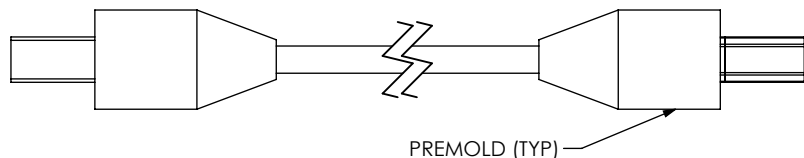
**IN-PROCESS 7**  
 ADD USB5-B-N-02-01 SHELL  
 (SAME AS -AMS AND -BMS END OPTIONS IN-PROCESS 8, UNLESS OTHERWISE STATED)



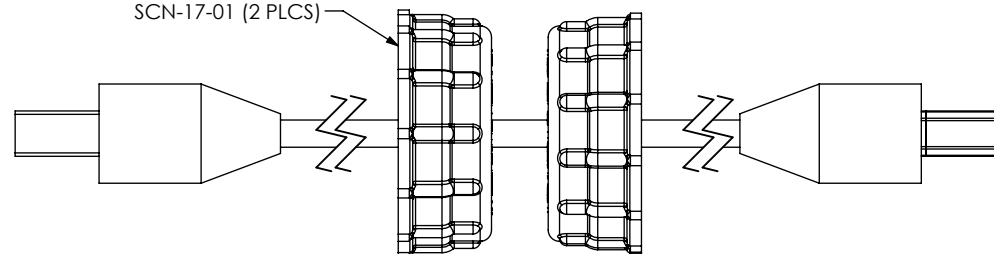
**IN-PROCESS 8**  
 CRIMP SHELLS OVER BRAID  
 (SAME AS -AMS AND -BMS END OPTIONS IN-PROCESS 9, UNLESS OTHERWISE STATED)



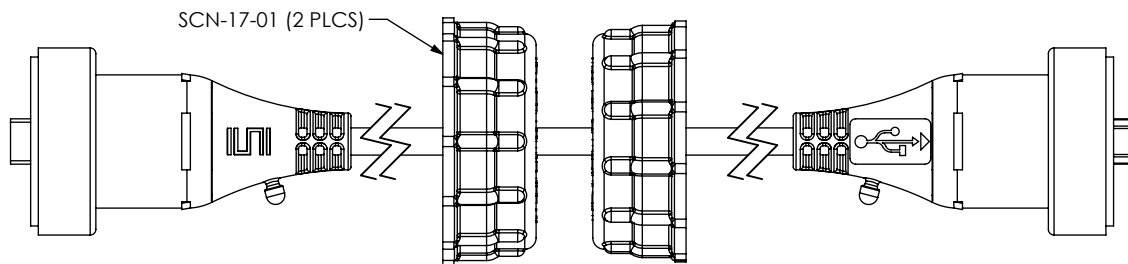
**IN-PROCESS 9**  
 PREMOLDING  
 (SAME AS -AMS AND -BMS END OPTIONS IN-PROCESS 10, UNLESS OTHERWISE STATED)



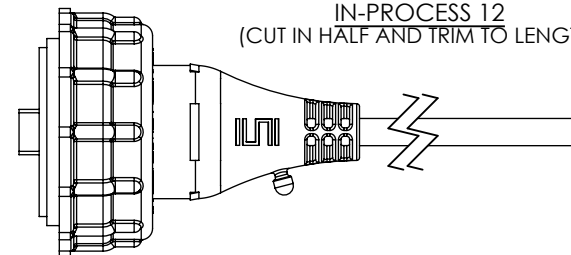
**IN-PROCESS 10**  
 ADD SCN-17-01  
 (SAME AS -AMS AND -BMS END OPTIONS IN-PROCESS 11, UNLESS OTHERWISE STATED)  
 SCN-17-01 (2 PLCS)



**IN-PROCESS 11**  
 OVERMOLD  
 (SAME AS -AMS AND -BMS END OPTIONS IN-PROCESS 12, UNLESS OTHERWISE STATED)



**IN-PROCESS 12**  
 (CUT IN HALF AND TRIM TO LENGTH)



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**samtec**

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BY: CHAD F

12/8/2004

SHEET 10 OF 10