

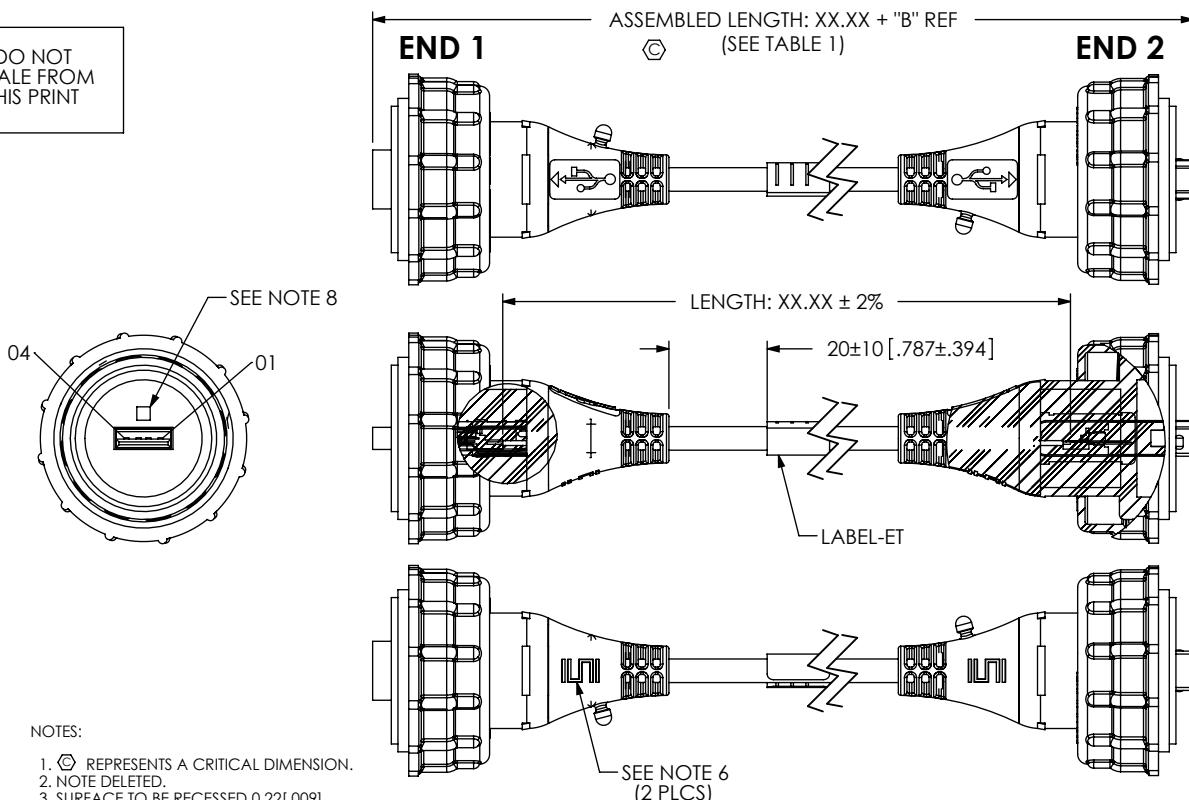
TABLE 1

PART NUMBER	END 2	"B"
SCPU-17-XX XX-AMS-	AMS	36.5 [1.45]
	BMS	36.5 [1.45]
	AM	36.5 [1.45]
	BM	36.5 [1.45]
	MB	36.5 [1.45]
	BC	18.25 [.718]
SCPU-17-XX XX-BMS-	AMS	36.5 [1.45]
	BMS	36.5 [1.45]
	AM	36.5 [1.45]
	BM	36.5 [1.45]
	MB	36.5 [1.45]
	BC	18.25 [.718]

DESIGNED & DIMENSIONED
IN MILLIMETERS [INCHES]

FIG 1

SCPU-17-G-XX.XX-AMS-BMS SHOWN

DO NOT
SCALE FROM
THIS PRINT

NOTES:

1. \diamond 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. NOTE DELETED.
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. ASSEMBLY TO BE 100% TESTED FOR OPENS AND SHORTS, HII-POINT TESTED AT 200V BEFORE PREMOLD AND AFTER FINAL ASSEMBLY IS COMPLETE, 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. NOTE DELETED.
17. NOTE DELETED.
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.
22. LENGTHS GREATER THAN 05.00 ARE NOT SUPPORTED BY USB 2.0 TEST DATA.
23. NOTE DELETED.

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

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

END 2 OPTIONS

- AMS: SEALED USB A (USB A END SEALED ONLY) (SEE SHEETS 1-3 & 11)
- BMS: SEALED USB B (USB B END SEALED ONLY) (SEE SHEETS 1-3 & 11)
- AM: USB A NOT SEALED (USB A END NOT SEALED ONLY) (SEE SHEET 2)
- BM: USB B NOT SEALED (USB B END NOT SEALED ONLY) (SEE SHEET 2)
- BC: BLUNT CUT (SEE SHEET 3)
- MB: MINI USB B NOT SEALED (MINI USB B END NOT SEALED ONLY) (SEE SHEET 11)

LENGTH

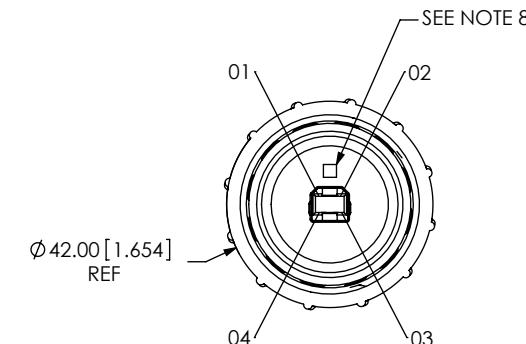
(00.25M [9.842] MIN - 50.00M [1968.50] MAX)
(SEE NOTE 22)

END 1 OPTIONS

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

NOTE:

-02.00, -03.00, AND -05.00 ARE CATALOG STANDARD LENGTHS.
FOR OTHER LENGTHS (0.17M[6.69] MIN - 50.00M[1968.50] MAX)
CONTACT SAMTEC.

THIS PRODUCT MANUFACTURED
WITH LEAD-FREE PROCESSINGUNLESS OTHERWISE SPECIFIED,
DIMENSIONS ARE IN MILLIMETERS.TOLERANCES ARE:
DECIMALS ANGLES
0.X: ±0.35 [.014] 2°
0.XX: ±0.25 [.010]
0.XXX: ±0.15 [.006]

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MATERIAL: DO NOT SCALE DRAWING SHEET SCALE: 1:1.33333

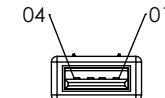
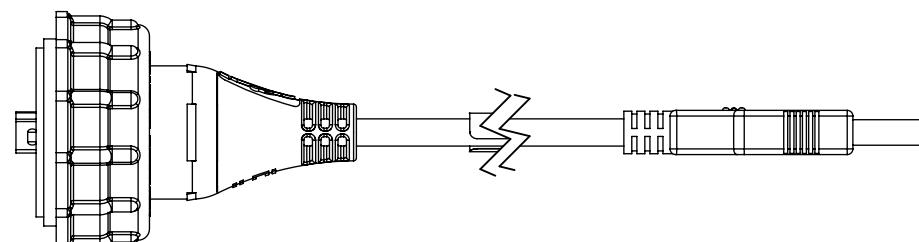
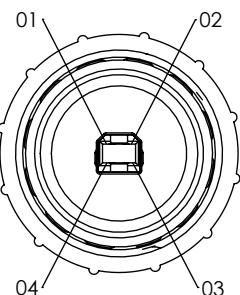
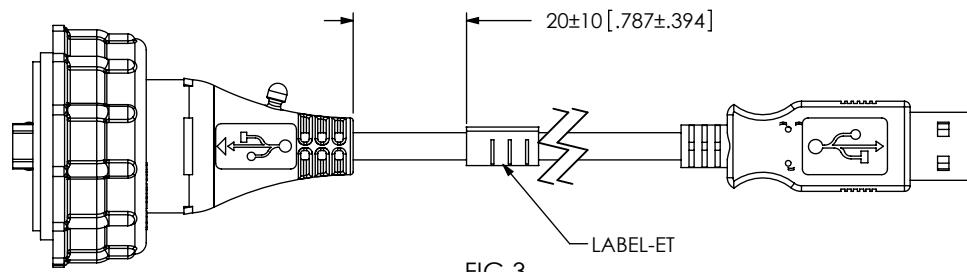
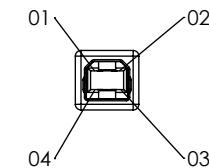
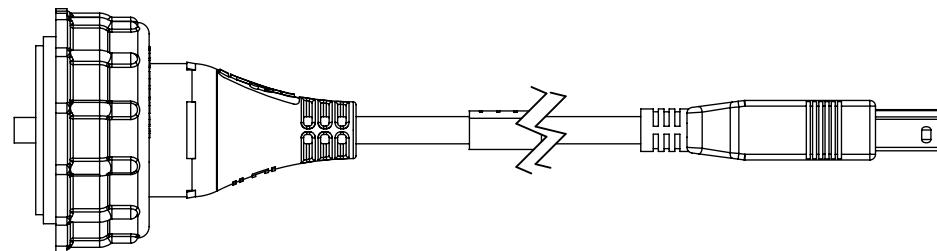
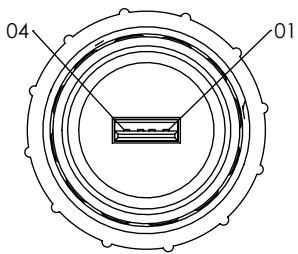
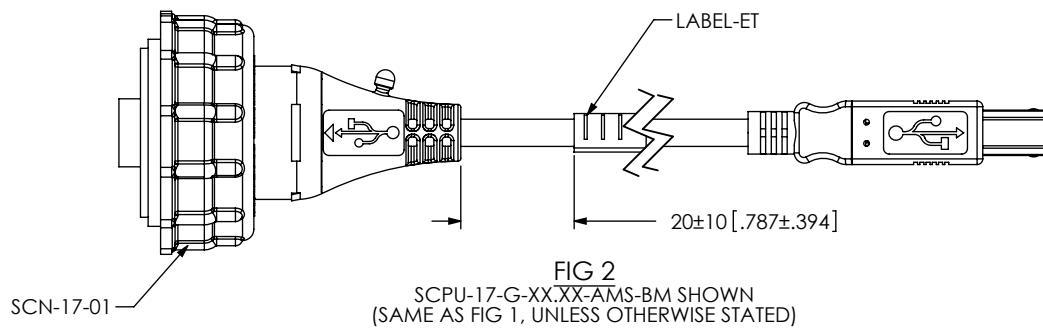
INSULATOR: GLASS FILLED THERMOPLASTIC
CONTACTS: COPPER ALLOY
SHIELDS: CRS. CABLE NUT: PA66
SEALED PREMOLD: RITEFLEX 640A
NON-SEALED PREMOLD: N/A
SEALED OVERMOLD: PA66 GF13 FR / SHOT WEIGHT 12.71 g [.0280 lb]
NON SEALED OVERMOLD: PVC / SHOT WEIGHT: 9.07 g (.0200 lb)
F:\DWG\MISC\MKTG\SCPU-17-X-XX.XX-XXX-XXX-MKT.SLDRW

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

DESCRIPTION: SEALED CIRCULAR CABLE PLUG, USB

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

BY: CHAD F 12/8/2004 SHEET 1 OF 11



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

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 e-Mail: info@SAMTEC.com code 55322

DESCRIPTION:	SEALED CIRCULAR CABLE PLUG, USB	
DWG. NO.	SCPU-17-X-XX.XX-XXX-XXX	
BY:	CHAD F	12/8/2004
	SHEET 2 OF 11	

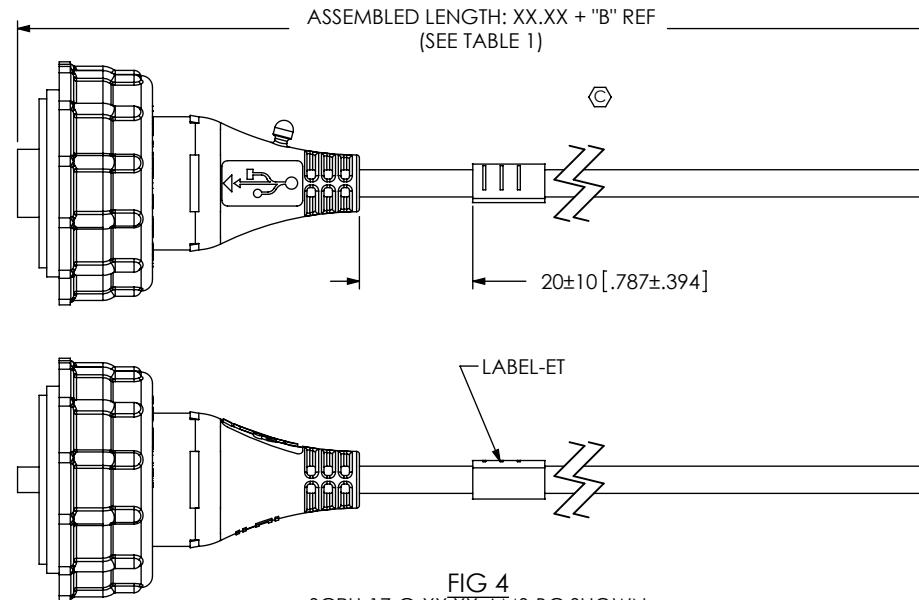
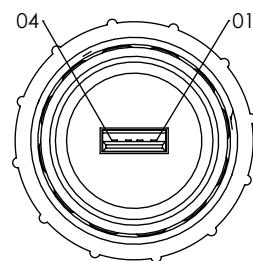


FIG 4
SCPU-17-G-XX.XX-AMS-BC SHOWN
(SAME AS FIG 1, UNLESS OTHERWISE STATED)

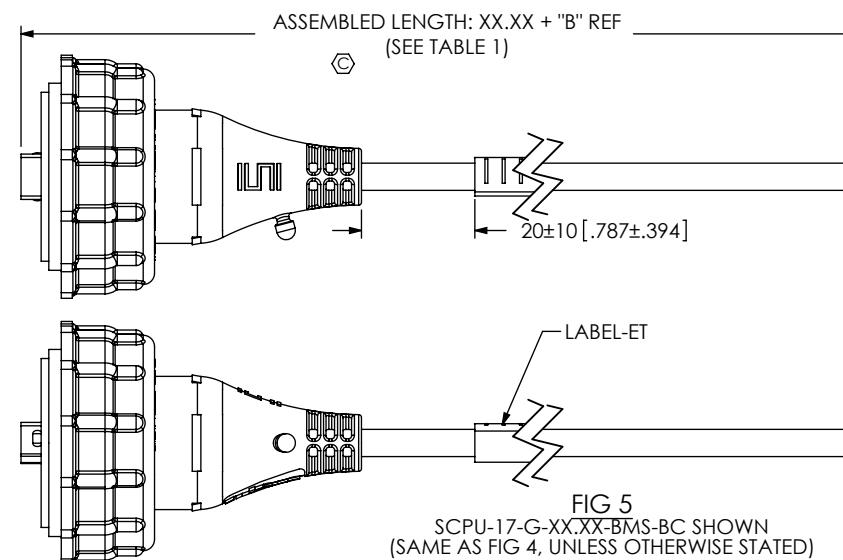
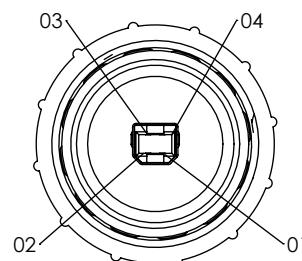


FIG 5
SCPU-17-G-XX.XX-BMS-BC SHOWN
(SAME AS FIG 4, UNLESS OTHERWISE STATED)

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

BY: CHAD F 12/8/2004 SHEET 3 OF 11

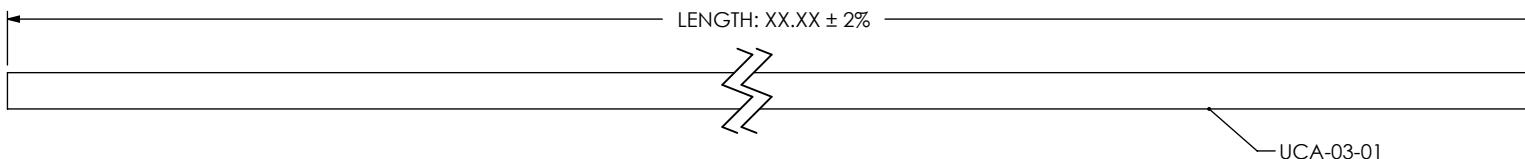
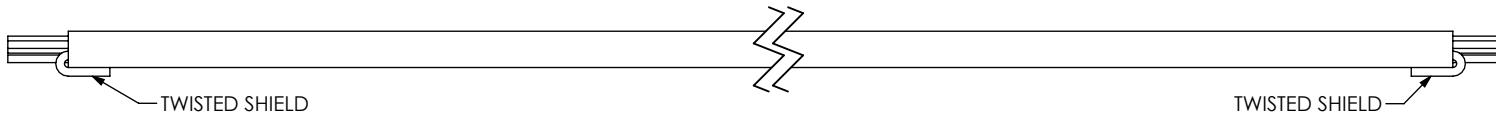
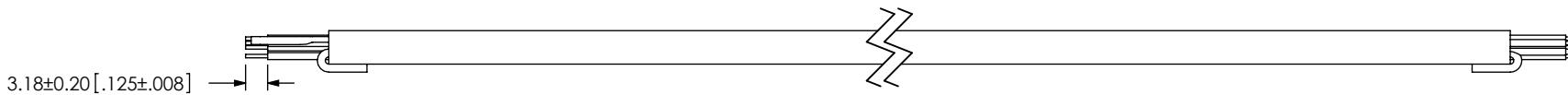
IN-PROCESS 1
(CUT TO LENGTH IN METERS)IN-PROCESS 2
(STRIP JACKET)IN-PROCESS 3
(FOLD SHIELD BACK, REMOVE FOIL AND TWIST SHIELD)IN-PROCESS 4
(STRIP INDIVIDUAL WIRES AND DIP IN TIN)

TABLE 2: PIN-OUT

END 1		Wire Color	END 2					
-AMS	-BMS		-AMS	-BMS	-AM	-BM	-BC	-MB
01	01	RED	01	01	01	01	01	01
02	02	WHITE	02	02	02	02	02	02
03	03	GREEN	03	03	03	03	03	03
n/a	n/a	NOT CONNECTED	n/a	n/a	n/a	n/a	n/a	04
04	04	BLACK	04	04	04	04	04	05
USB Shield	USB Shield	DRAIN/CABLE SHIELD	USB Shield					

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DESCRIPTION:

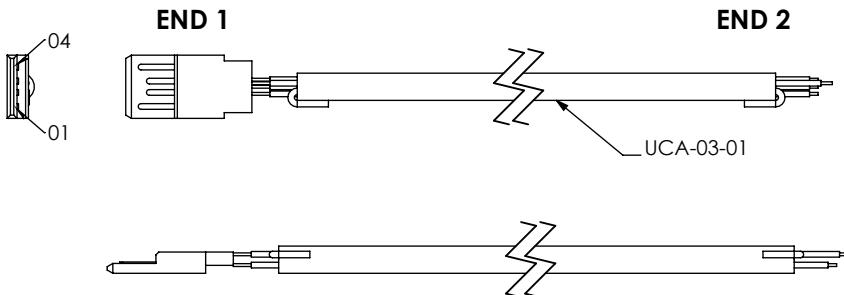
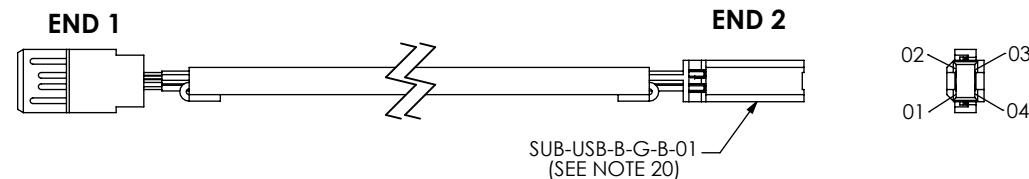
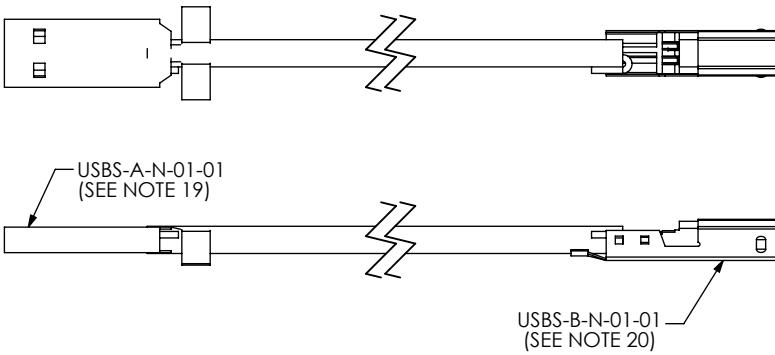
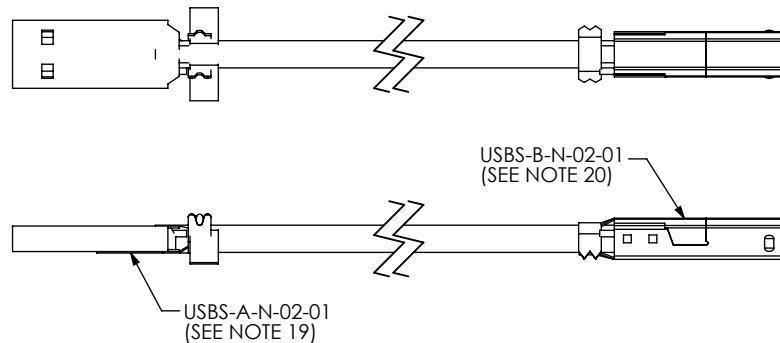
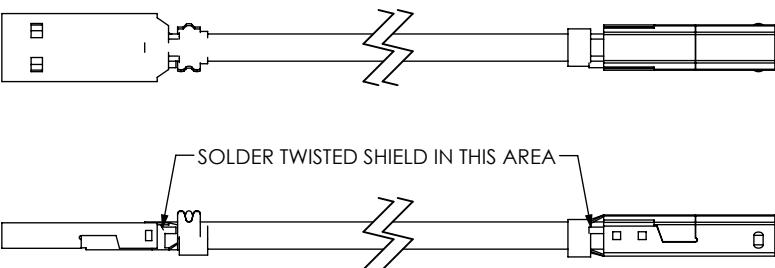
SEALED CIRCULAR CABLE PLUG, USB

DWG. NO.

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

BY: CHAD F 12/8/2004

SHEET 4 OF 11

IN-PROCESS 5
TERMINATE TO SUB-USB-A-G-B-01 (SEE NOTE 19)IN-PROCESS 6
TERMINATE TO SUB-USB-B-G-B-01 (SEE NOTE 20)IN-PROCESS 7
ADD USBS-A-N-01-01 (SEE NOTE 19) & USBS-B-N-01-01 (SEE NOTE 20) SHELLSIN-PROCESS 8
ADD USBS-A-N-02-01 (SEE NOTE 19) & USBS-B-N-02-01 (SEE NOTE 20) SHELLSIN-PROCESS 9
CRIMP SHELLS OVER BRAID AND TRIM EXCESS SHIELD 

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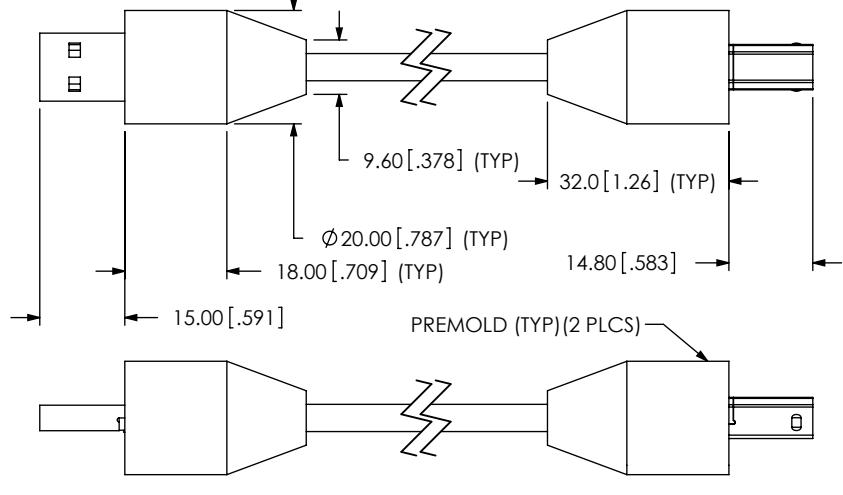
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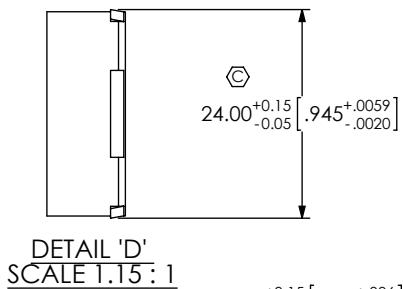
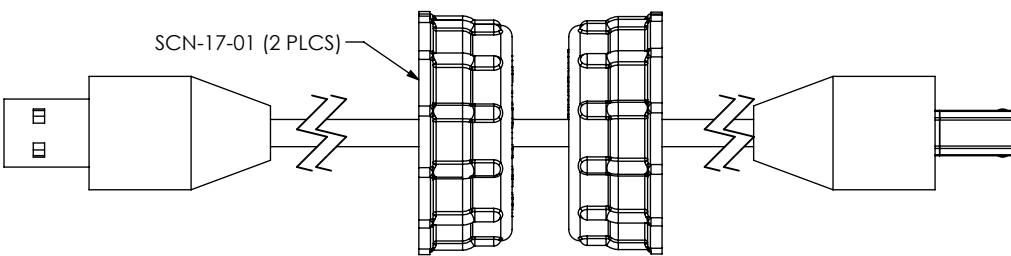
DESCRIPTION:
SEALED CIRCULAR CABLE PLUG, USB
DWG. NO.
SCPU-17-X-XX.XX-XXX-XXX
BY: CHAD F 12/8/2004 SHEET 5 OF 11

REVISION Y

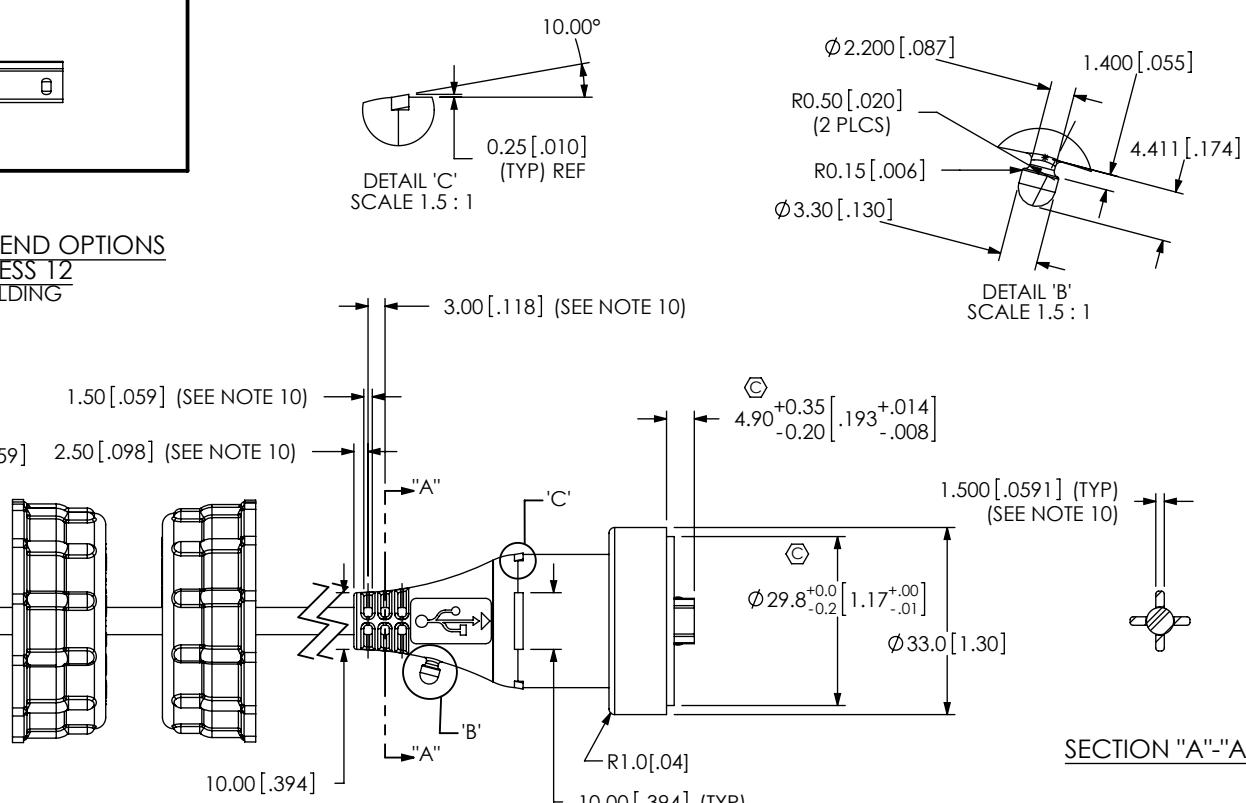
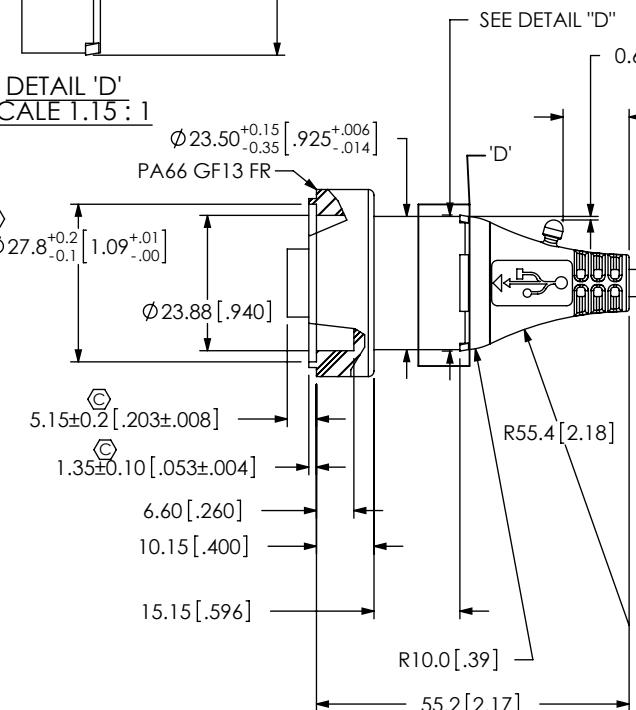
-AMS AND -BMS END OPTIONS
IN-PROCESS T0
PREMOLDING



-AMS AND -BMS END OPTIONS
IN-PROCESS T1
ADD SCN-17-01



-AMS AND -BMS END OPTIONS
IN-PROCESS T2
OVERMOLDING



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DESCRIPTION: SEALED CIRCULAR CABLE PLUG, USB

DWG. NO.

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

BY:

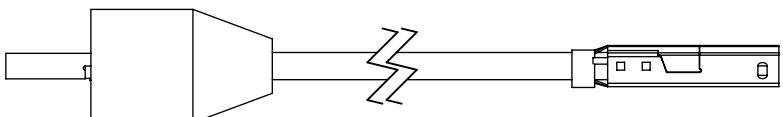
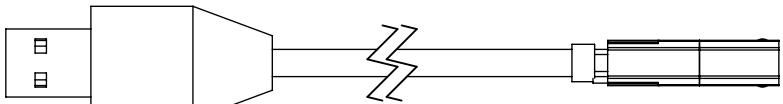
CHAD F 12/8/2004

SHEET 6 OF 11

REVISION Y

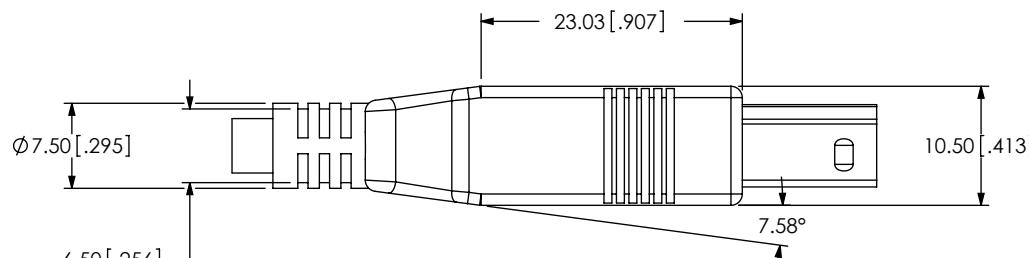
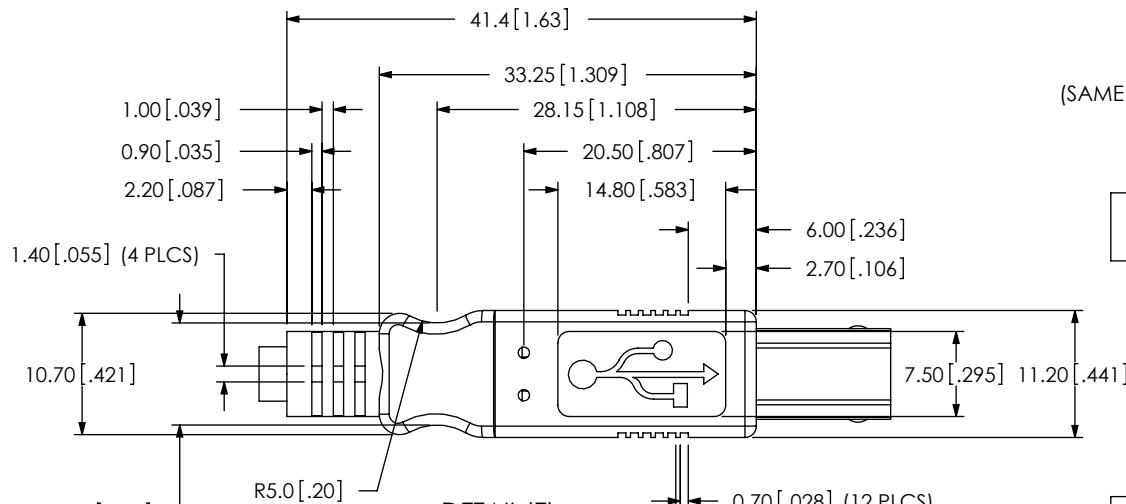
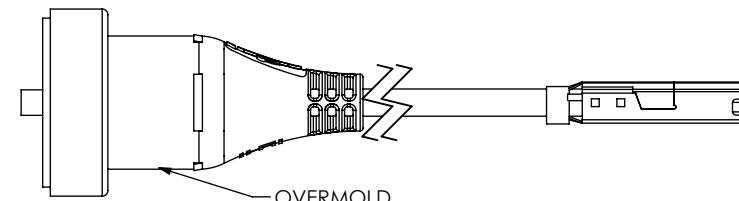
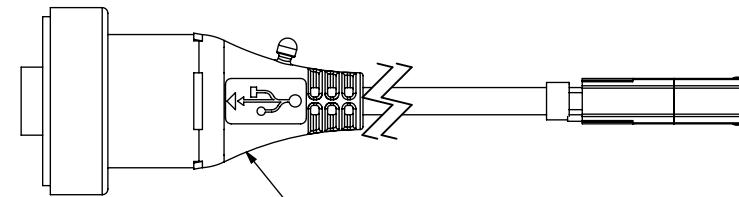
**-BM END OPTION
IN-PROCESS 10
PREMOLDING**

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



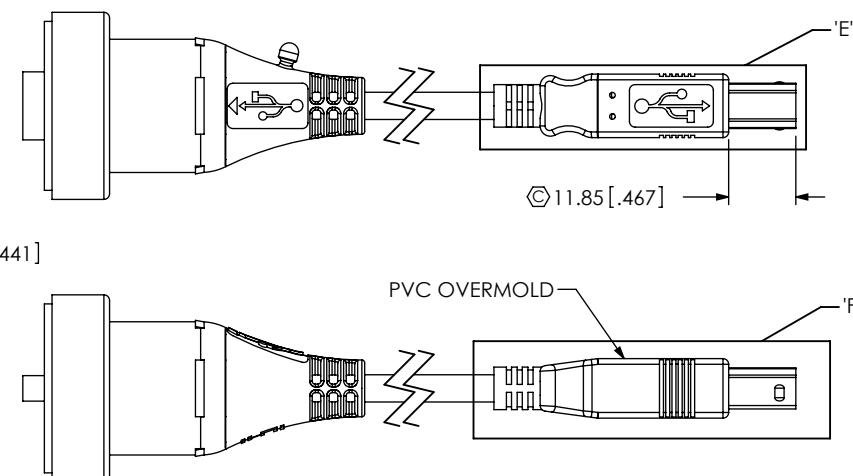
**-BM END OPTION
IN-PROCESS 11
OVERMOLDING**

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

DESCRIPTION: SEALED CIRCULAR CABLE PLUG, USB

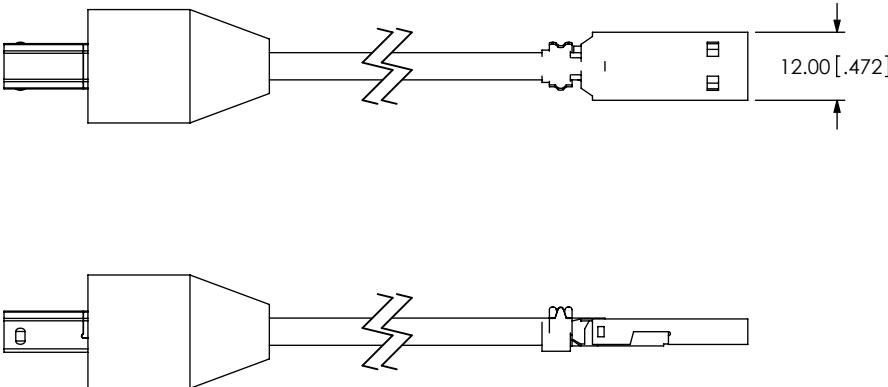
DWG. NO. SCPU-17-X-XX.XX-XXX-XXX

BY: CHAD F 12/8/2004 SHEET 7 OF 11

REVISION Y

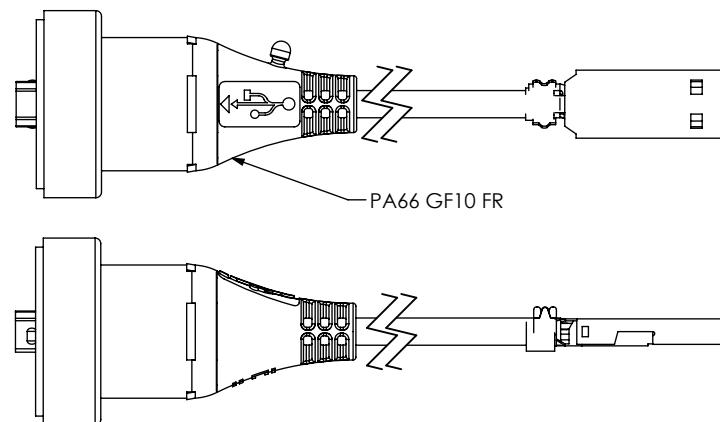
-AM END OPTION
IN-PROCESS 10
PREMOLDING

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

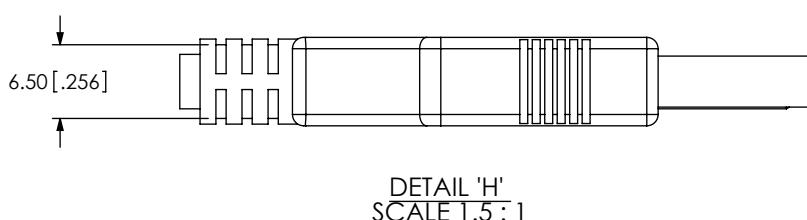
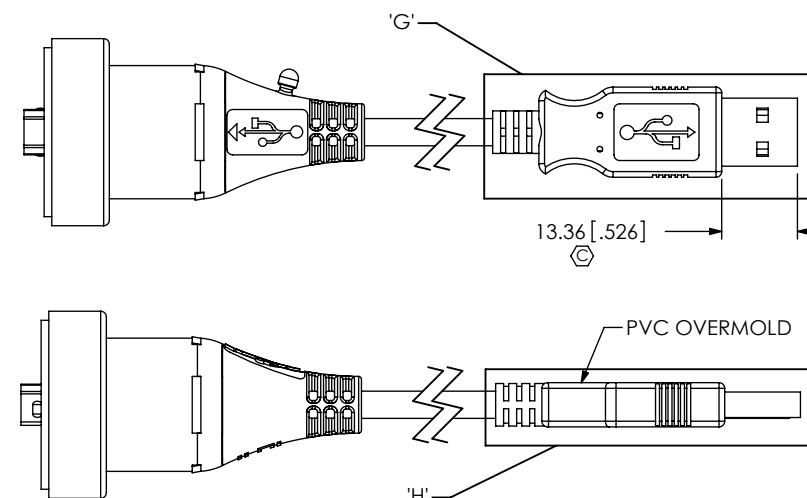


**-AM END OPTION
IN-PROCESS TI
OVERMOLDING**

(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)



DETAIL 'H'
SCALE 1.5 : 1

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SHEET SCALE: 1:1.3333

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

PTION:

SEALED CIRCULAR CABLE PLUG, U

NO. CPH 13 X XX XX XXX XXX

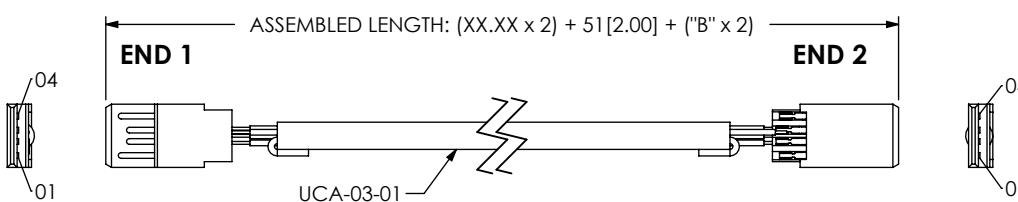
CHAD E 12/8/2004

04

SHEET 8 OF 11

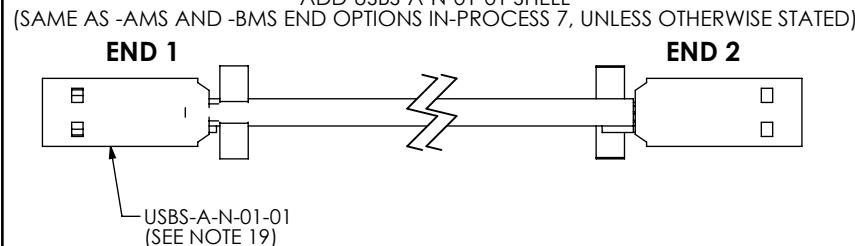
IN-PROCESS 5

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



IN-PROCESS 6

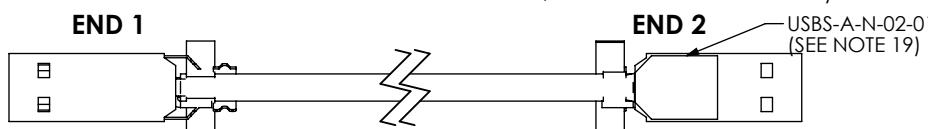
ADD USBS-A-N-01-01 SHELL



IN-PROCESS 7

ADD USBS-A-N-02-01 SHELL

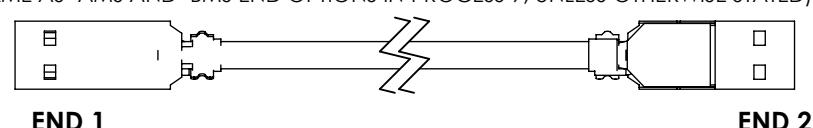
(SAME AS -AMS AND -BMS END OPTIONS IN-PROCESS 8, UNLESS OTHERWISE STATED)



IN-PROCESS 8

CRIMP SHELLS OVER BRAID

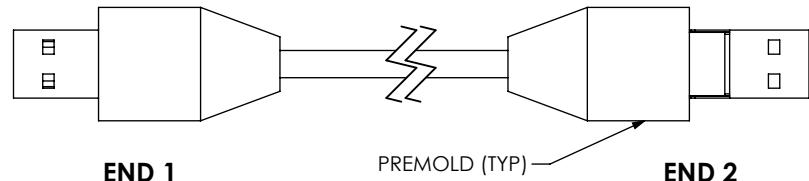
(SAME AS -AMS AND -BMS END OPTIONS IN-PROCESS 9, UNLESS OTHERWISE STATED)



IN-PROCESS 9

PREMOLDING

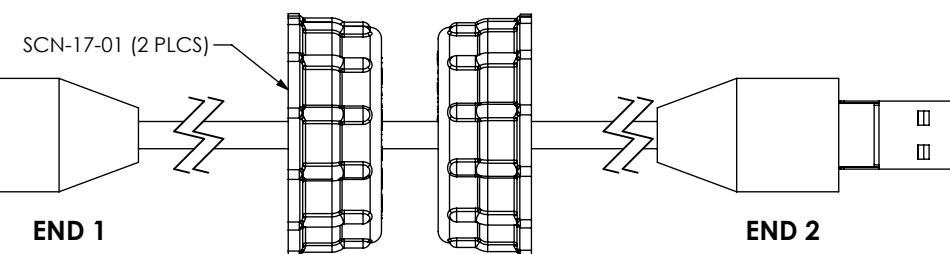
(SAME AS -AMS AND -BMS END OPTIONS IN-PROCESS 10, UNLESS OTHERWISE STATED)



IN-PROCESS 10

ADD SCN-17-01

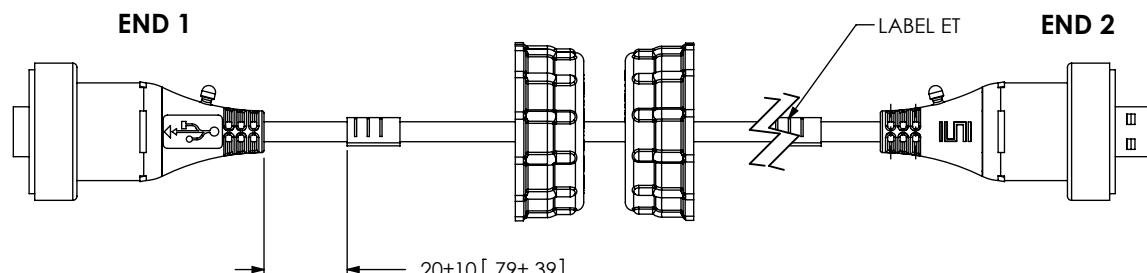
(SAME AS -AMS AND -BMS END OPTIONS IN-PROCESS 11, UNLESS OTHERWISE STATED)



IN-PROCESS 11

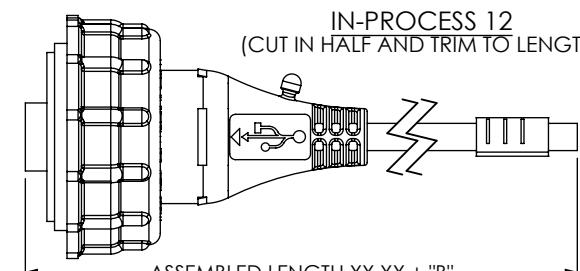
OVERMOLDING

(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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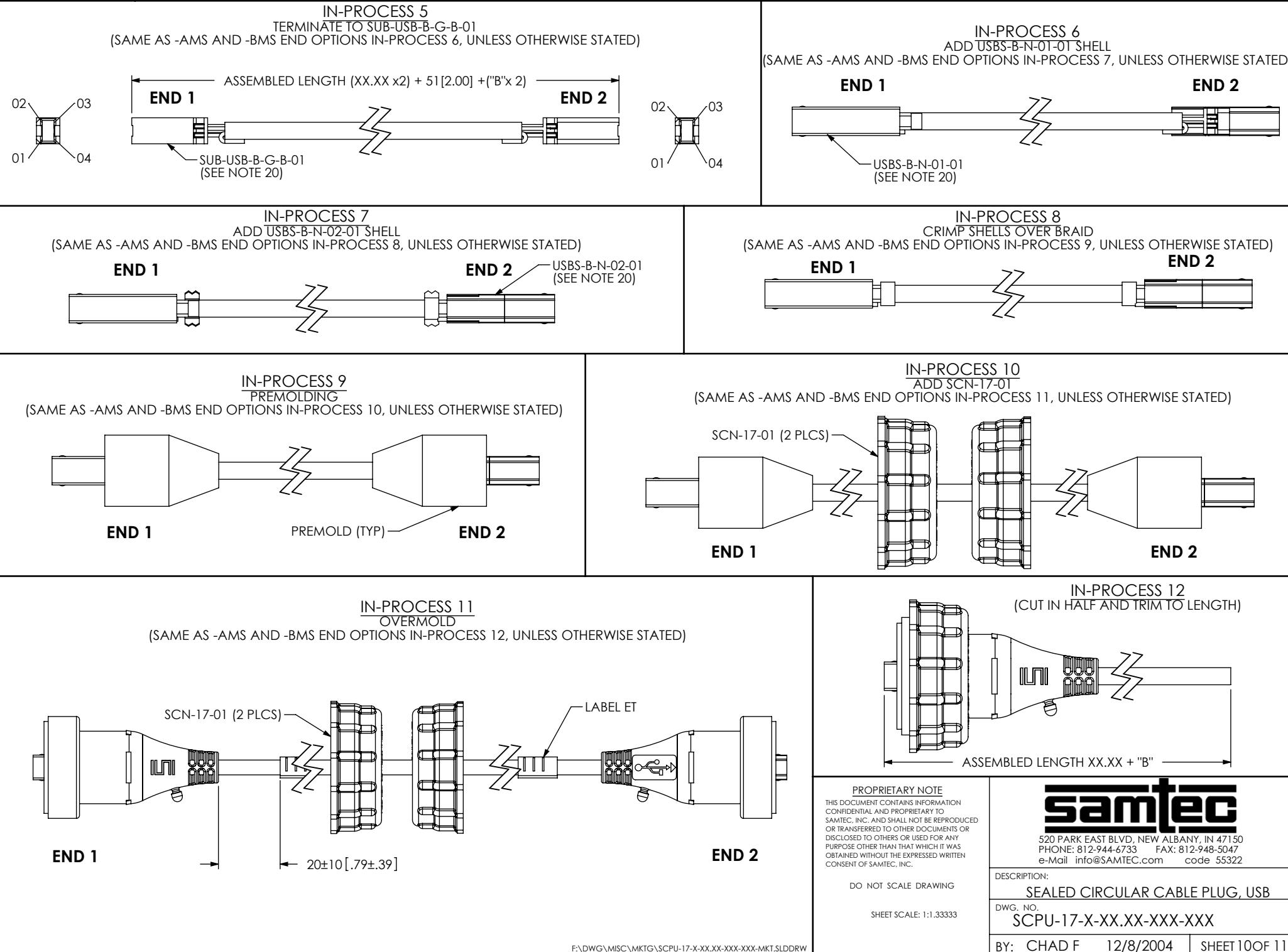
SHEET SCALE: 1:1.33333

samtec
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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-XX.XX-XXX-XXX

BY: CHAD F 12/8/2004 SHEET 9 OF 11



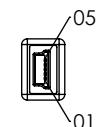
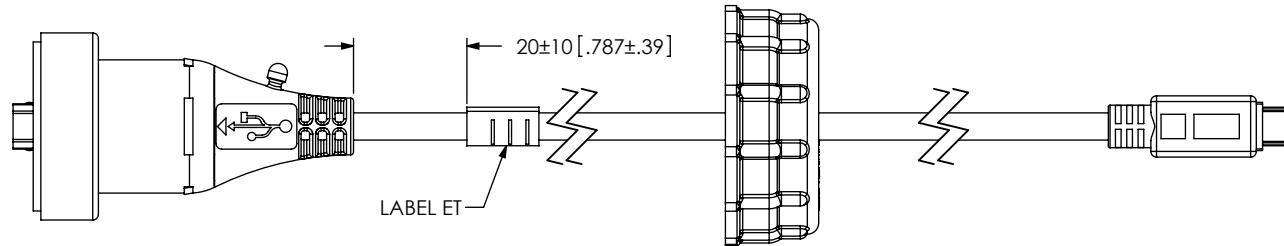
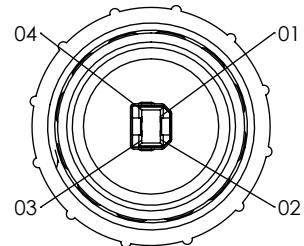


FIG 6
SCPU-17-G-XX.XX-BMS-MB SHOWN
(SAME AS FIG 1, UNLESS OTHERWISE STATED)

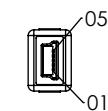
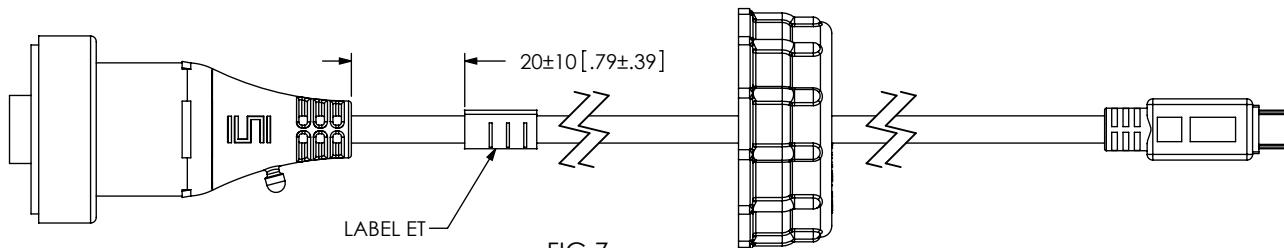
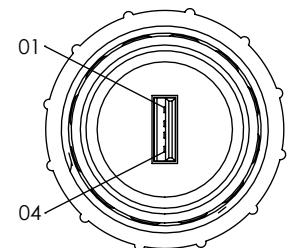
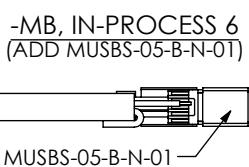
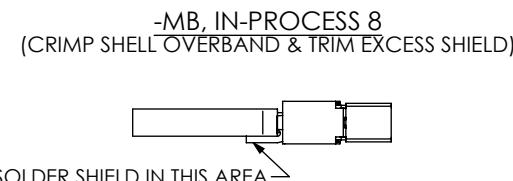
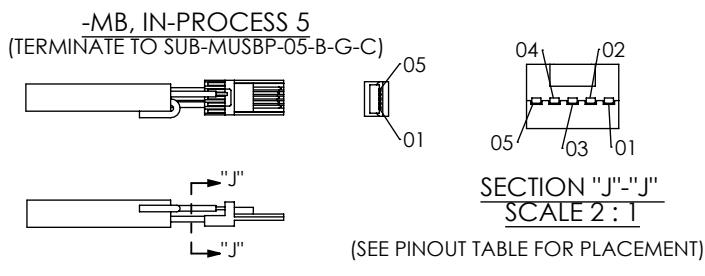
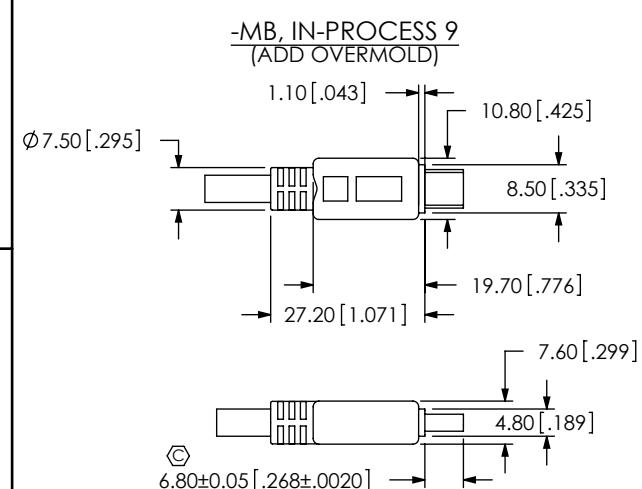
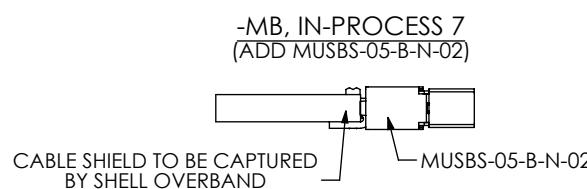
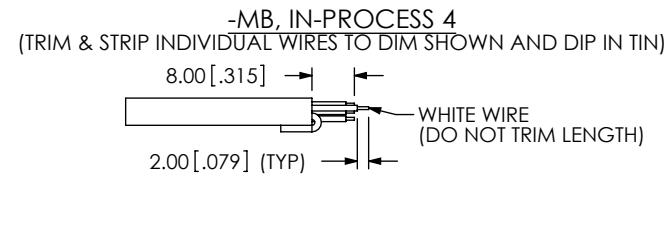


FIG 7
SCPU-17-G-XX.XX-AMS-MB SHOWN
(SAME AS FIG 1, UNLESS OTHERWISE STATED)



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DWG. NO.
SCPU-17-X-XX.XX-XXX-XXX
BY: CHAD F 12/8/2004 SHEET 11 OF 11

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