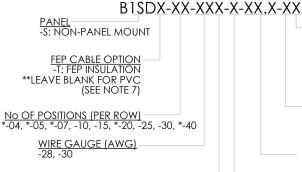
## **REVISION C**

## DESIGNED AND DIMENSIONED IN MILLIMETERS[INCHES] ALL DIMENSIONS REFERENCE EXCEPT AS SHOWN

SCALE FROM THIS PRINT

TABLE 1							
No. OF POS	"A"	"B"	"C"	"D"			
-04	3.00 [0.118]	7.94 [0.313]	17.75 [0.699]	21.75 [0.856]			
-05	4.00 [0.157]	8.94 [0.352]	18.75 [0.738]	22.75 [0.896]			
-07	6.00 [0.236]	10.94 [0.431]	20.75 [0.817]	24.75 [0.974]			
-10	9.00 [0.354]	13.94 [0.549]	23.75 [0.935]	27.75 [1.093]			
-15	14.00 [0.551]	18.94 [0.746]	28.75 [1.132]	32.75 [1.289]			
-20	19.00 [0.748]	23.94 [0.943]	33.75 [1.329]	37.75 [1.486]			
-25	24.00 [0.945]	28.94 [1.139]	38.75 [1.526]	42.75 [1.683]			
-30	29.00 [1.142]	33.94 [1.336]	43.75 [1.722]	47.75 [1.880]			
-40	39.00 [1.535]	43.94 [1.730]	53.75 [2.116]	57.75 [2.274]			

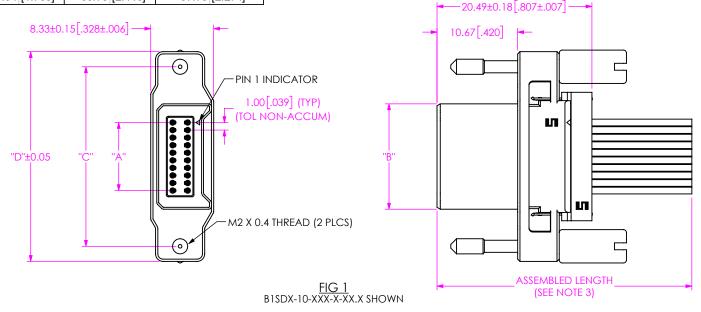


\*\*-C COLOR CODE WIRE (SEE TABLE 2, SHT 2) -LEAVE BLANK FOR STANDARD WIRE (NOT AVAILABLE FOR FEP OPTION, FEP OPTION ONLY AVAILABLE IN BLUE)

☐ (LEAVE BLANK FOR SINGLE END ASSEMBLY) -1: PIN 1 TO PIN 1 -2: PIN 1 TO PIN 2 -3: PIN 1 TO PIN N -4: PIN 1 TO PIN N-1 (LEAVE BLANK FOR NON EMI SHIELDED) -E: EMI SHIELD (SEE SHEET 4) ASSEMBLED LENGTH (SPECIFY IN INCHES) 06.0 IN MINIMUM

<u>PLATING SPECIFICATION</u>
-H: 30µ" GOLD IN CONTACT AREA, FLASH GOLD ON TAIL

(\* = NOT TOOLED)( □ = NOT AVAILABLE WITH -E) (\*\* = NOT RELEASED)



### NOTES:

- 1. MINIMUM PUSHOUT FORCE: 4.445N[1.0 LB].
  2. PARTS TO BE PACKAGED IN ASBBLTXXXXX BUBBLE BAG.
- 3. FOR ASSEMBLED LENGTHS LESS THAN 330.2 MM [13.00 IN], TOLERANCE SHALL BE
- ± 3.18[.125], FOR OTHER LENGTHS, TOLERANCE SHALL BE ± 2%. 4. ALL FINISHED GOODS ARE TO BE ELECTRICALLY TESTED INCLUDING HI-POT TEST AT 1000 VOLTS DC. AFTER FINAL ELECTRICAL TEST, LABEL WITH 1 ET STAMP ON THE BODY.
- 5. THUMB SCREWS TO BE TORQUED TO 0.8 IN-LBS, ALL OTHER FASTENERS TORQUE TO 1.1 TO 1.8 IN-LBS.
- 6. CONTACT MUST BE INSERTED UNTIL RETENTION FEATURE LOCKS IN PLACE. 7. ASSEMBLIES USING THE FEP OPTION ARE FOR CRIMP APPLICATIONS ONLY.

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DO NOT SCALE DRAWING MATERIAL: SHEET SCALE: 1:2

MYATERIAL.
INSULATOR:
MAIN BODY: LCP, COLOR: BLACK
REAR BODY: LCP, COLOR: NATURAL
CONTACT: BEGS
SHEED: ZINC ALLOY, PLATING: NICKEL
LATCH & SCREW: STAINLESS STEEL
CABLE:
CABLE: SCC ANLOYE JACKET: SEE CALLOUT WIRE: TINNED COPPER



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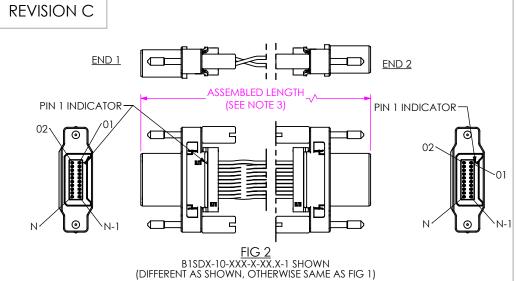
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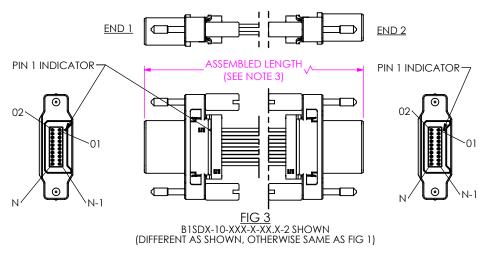
1MM BARREL CABLE ASSEMBLY

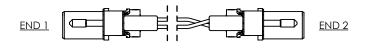
DWG, NO.

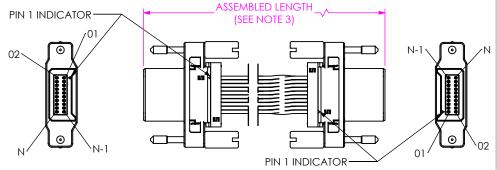
B1SDX-XX-XXX-X-XX.X-XX

BY: G DETHY 03/16/2021 | SHEET 1 OF 7











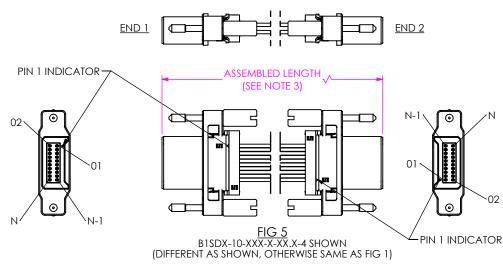


					TABLE	2					* THIS D
				B1SDX	COLOR CODED \	VIRE SEQUENCE	E				PROPR
					COI	LOR					MANU AND S
	BROWN	RED	ORANGE	YELLOW	GREEN	BLUE	VIOLET	GRAY	WHITE	BLACK	INC. TH
	DWC-XX-01-300	DWC-XX-02-300	DWC-XX-03-300	DWC-XX-04-300	DWC-XX-05-300	DWC-XX-13-300	DWC-XX-07-300	DWC-XX-08-300	DWC-XX-09-300	DWC-XX-10-300	OR PA
	1	2	3	4	5	6	7	8	9	10	OTHER
	11	12	13	14	15	16	17	18	19	20	WKIII
	21	22	23	24	25	26	27	28	29	30	1
END 1	31	32	33	34	35	36	37	38	39	40	DO
PIN#	41	42	43	44	45	46	47	48	49	50	
	51	52	53	54	55	56	57	58	59	60	]
	61	62	63	64	65	66	67	68	69	70	1
	71	72	73	7/	75	76	77	70	70	80	1

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SHEET SCALE: 1:2

O 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:

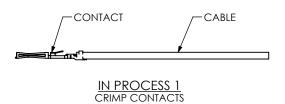
1MM BARREL CABLE ASSEMBLY

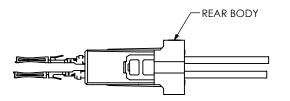
DWG. NO. B1SDX-XX-XXX-X-XX.X-XX

BY: G DETHY 03/16/2021 SHEET 2 OF 7

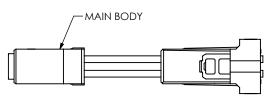
c:\enterprisevault\DWG\MISC\MKTG\B1SDX-XX-XXX-X-XX.X-XX-MKT.SLDDRW





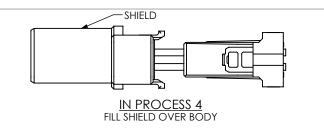


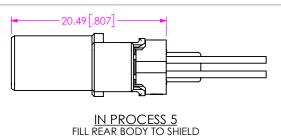
IN PROCESS 2
FILL CONTACTS/CABLES THRU REAR BODY

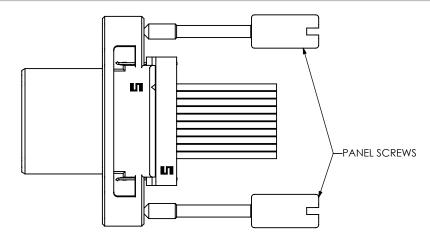


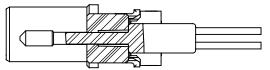
IN PROCESS 3 INSERT CONTACTS INTO BODY (SEE NOTE 6)

TABLE 3							
Series	Wire Gauge	Main Body	Rear Body	Shield	Contact	Cable	Panel Screw
B1SD B1SDT	28 AWG	· IBT1-XX-1	B1SDR-XX	B1SDS-XX-N	CC508-XX-X-X	DWC-28-XX-300	CPS-M2-18-X-S
	30 AWG					DWC-30-XX-300	
	28 AWG					DWCT-28-01-TC	
	30 AWG					DWCT-30-01-TC	









# IN PROCESS 6 INSERT PANEL SCREWS

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SHEET SCALE: 2:1

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DESCRIPTION:

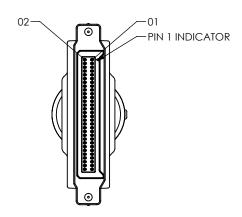
1MM BARREL CABLE ASSEMBLY

DWG. NO.

B1SDX-XX-XXX-X-XX.X-XX

BY: G DETHY

03/16/2021 SHEET 3 OF 7



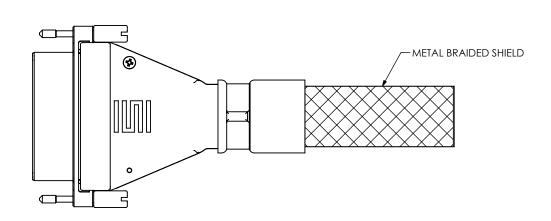


FIG 6
B1SDX-30-XXX-X-XX.X-EX SHOWN
(DIFFERENT AS SHOWN, OTHERWISE SAME AS FIG 1)

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SHEET SCALE: 1:2

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DESCI

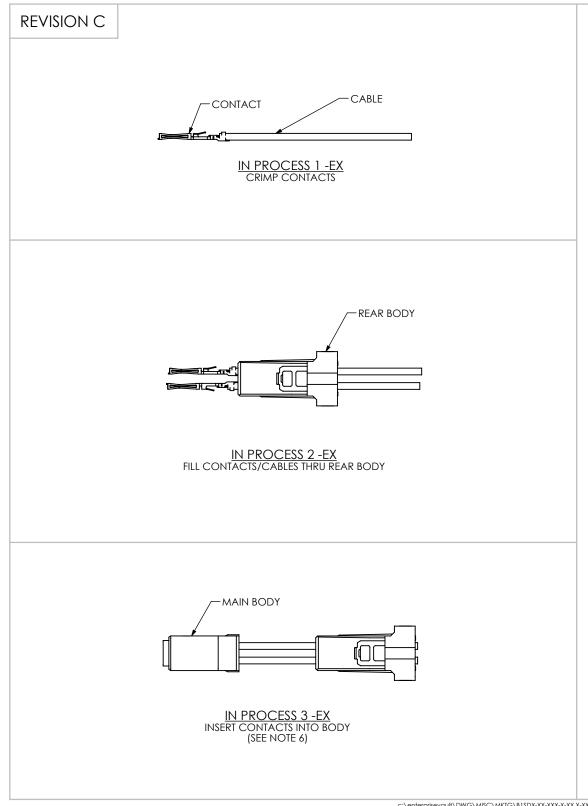


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DESCRIPTION: 1MM BARREL CABLE ASSEMBLY

B1SDX-XX-XXX-X-XX.X-XX

BY: G DETHY 03/16/2021 SHEET 4 OF 7



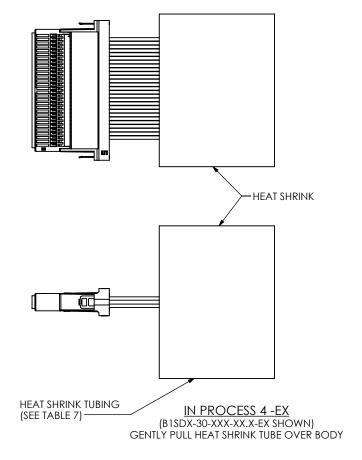


TABLE 7					
No. OF POS	HEAT SHRINK P/N				
-04	HST-0.630-02-BLK-A-4				
-05	1131-0.030-02-BLK-A-4				
-07					
-10	HST-0.945-02-BLK-A-4				
-15					
-20					
-25	   HST-1.260-02-BLK-A-4				
-30	H31-1.200-02-DLN-A-4				
-40					

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DESCRIPTION:

SHEET SCALE: 1:2 DO NOT SCALE DRAWING

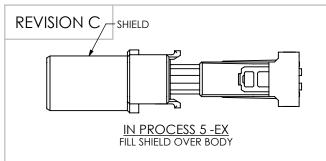
1MM BARREL CABLE ASSEMBLY

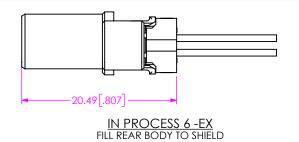
DWG. NO. B1SDX-XX-XXX-X-XX.X-XX

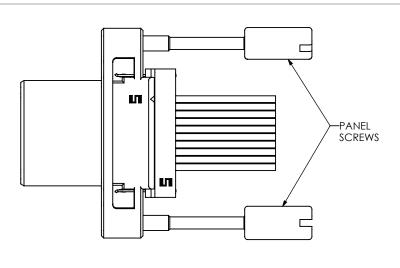
520 PARK EAST BLVD, NEW ALBANY, IN 47150

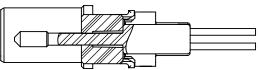
PHONE: 812-944-6733 FAX: 812-948-5047 e-Mail info@SAMTEC.com code 55322

03/16/2021 SHEET 5 OF 7 BY: G DETHY

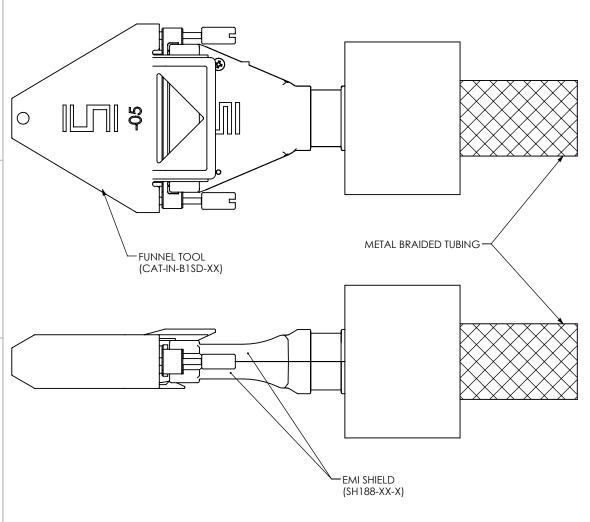








IN PROCESS 7 -EX INSERT PANEL SCREWS



IN PROCESS 8 -EX
ADD EMI SHIELD HOUSINGS,
ADD CAT-IN-B1SD-XX TO EMI SHIELD,
GENTLY PULL METAL BRAID TUBE OVER
CAT-IN-B1SD-XX

TABLE 8					
No. OF POS	METAL BRAIDED P/N				
-04					
-05	B1SD-08-06-09.00-SC				
-07					
-10					
-15	B1SD-08-06-10.50-SC				
-20					
-25					
-30	B1SD-08-06-15.00-SC				
-40					

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SHEET SCALE: 2:1

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DESCRIPTION:

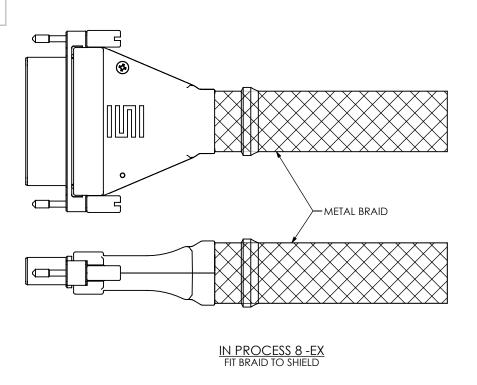
1MM BARREL CABLE ASSEMBLY

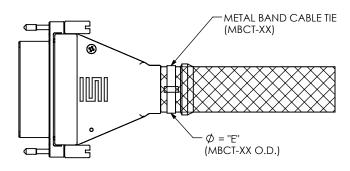
DWG. NO.

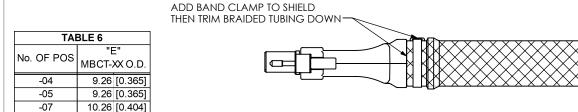
B1SDX-XX-XXX-X-XX.X-XX

BY: G DETHY 03/16/2021 SHEET 6 OF 7

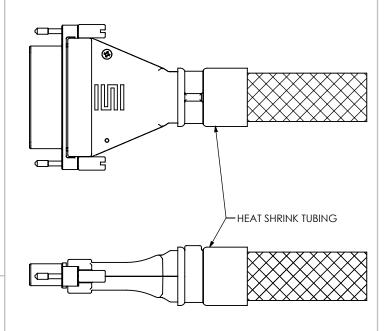
## **REVISION C**







IN PROCESS 9 -EX ADD BAND CLAMP TO SHIELD



<u>IN PROCESS 10 -EX</u> ACTIVATE HEAT SHRINK TUBING BY APPLING HEAT

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SHEET SCALE: 2:1

DO NOT SCALE DRAWING

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DESCRIPTION:

1MM BARREL CABLE ASSEMBLY

DWG. NO. B1SDX-XX-XXX-X-XX.X-XX

03/16/2021 | SHEET 7 OF 7 BY: G DETHY

15.26 [0.601] 16.76 [0.660] -30 -40 20.26 [0.798]

10.76 [0.424]

12.26 [0.483]

14.26 [0.561]

-10

-15

-20

-25