

DO NOT  
SCALE FROM  
THIS PRINT

TABLE 1

No. OF POS	"A"	"B"	"C"	"D"	"J"
-04	3.00 [0.118]	2.79 [0.110]	9.39 [0.370]	17.75 [0.699]	22.75 [0.896]
-05	4.00 [0.157]	3.79 [0.149]	10.39 [0.409]	18.75 [0.738]	23.75 [0.935]
-07	6.00 [0.236]	5.79 [0.228]	12.39 [0.488]	20.75 [0.817]	25.75 [1.014]
-10	9.00 [0.354]	8.79 [0.346]	15.39 [0.606]	23.75 [0.935]	28.75 [1.132]
-15	14.00 [0.551]	13.79 [0.543]	20.39 [0.803]	28.75 [1.132]	33.75 [1.329]
-20	19.00 [0.748]	18.79 [0.740]	25.39 [1.000]	33.75 [1.329]	38.75 [1.526]
-25	24.00 [0.945]	23.79 [0.937]	30.39 [1.196]	38.75 [1.526]	43.75 [1.722]
-30	29.00 [1.142]	28.79 [1.133]	35.39 [1.393]	43.75 [1.722]	48.75 [1.919]
-40	39.00 [1.535]	38.79 [1.527]	45.39 [1.787]	53.75 [2.116]	58.75 [2.313]

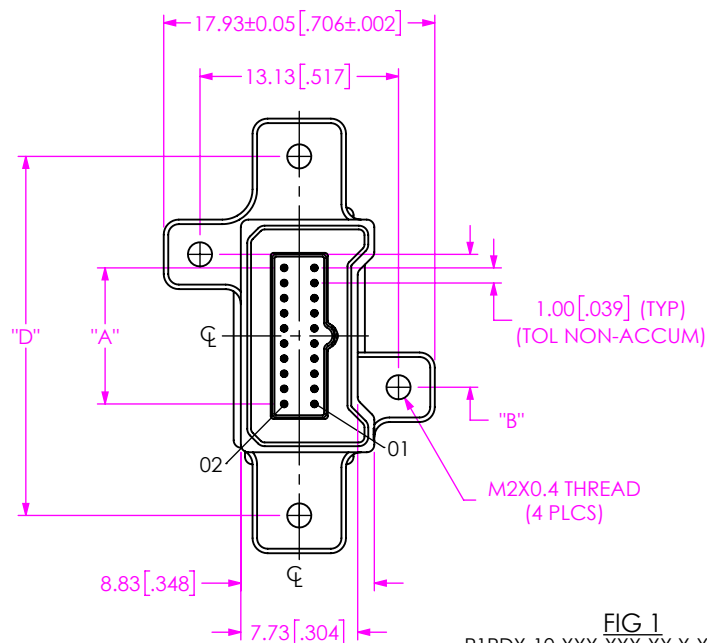


FIG 1  
P1PDX-10-XXX-XXX-XX.X-XX SHOWN

NOTES:

1. MINIMUM PUSHOUT FORCE: 4.445N [1.0 LB].
2. PARTS TO BE PACKAGED IN ASBBLTXXXX BUBBLE BAG.
3. FOR ASSEMBLED LENGTHS LESS THAN 330.2MM [13.00 IN], TOLERANCE SHALL BE  $\pm 3.18[.125]$ , FOR OTHER LENGTHS, TOLERANCE SHALL BE  $\pm 2\%$ .
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. ASSEMBLIES USING THE FEP OPTION ARE FOR CRIMP APPLICATIONS ONLY.
6. CONTACT MUST BE INSERTED UNTIL RETENTION FEATURE LOCKS IN PLACE.

P1XDX-XX-XXX-X-XX.X-X-XX

PANEL \_\_\_\_\_  
-P: PANEL MOUNT

FEP CABLE OPTION  
-T: FEP INSULATION  
\*\*LEAVE BLANK FOR PVC  
(SEE NOTE 5)

NO OF POSITIONS (PER ROW)  
\*-04, \*-05, \*-07, -10, -15,  
\*-20, -25, -30, \*-40

WIRE GAUGE (AWG)  
-28, -30

COLOR CODE

**\*\*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)

**PINOUT**  
(LEAVE BLANK FOR SINGLE ENDED 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

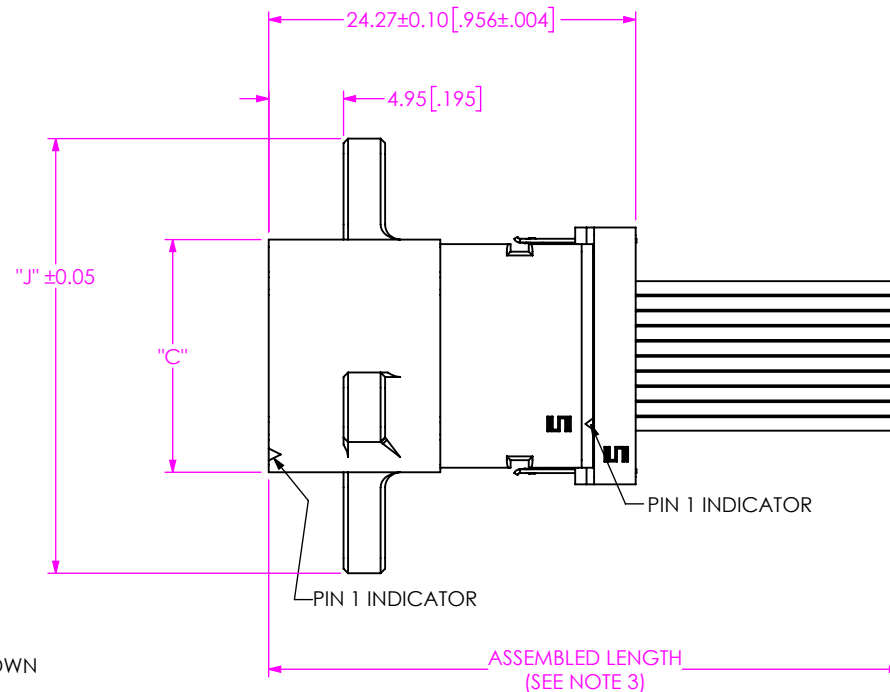
END OPTION  
(LEAVE BLANK FOR SINGLE ENDED ASSEMBLY)  
-B: B1SDX  
-S: SFSDX

— PIN LENGTH  
(LEAVE BLANK FOR STANDARD PIN)  
\*-H: HOT SWAP

ASSEMBLED LENGTH  
(SPECIFY IN INCHES) 06.0 IN MINIMUM

— PLATING SPECIFICATION  
-H: 30μ" GOLD IN CONTACT AREA, FLASH GOLD ON TAIL

\* NOT TOOLED  
\*\* NOT RELEASED



**PROPRIETARY NOTE**

THIS DOCUMENT CONTAINS CONFIDENTIAL AND PROPRIETARY INFORMATION AND ALL DESIGN, MANUFACTURING, REPRODUCTION, USE, PATENT RIGHTS AND SALES RIGHTS ARE EXPRESSLY RESERVED BY SAMTEC, INC. THIS DOCUMENT SHALL NOT BE DISCLOSED, IN WHOLE OR PART, TO ANY UNAUTHORIZED PERSON OR ENTITY NOR REPRODUCED, TRANSFERRED OR INCORPORATED IN ANY OTHER PROJECT IN ANY MANNER WITHOUT THE EXPRESS WRITTEN CONSENT OF SAMTEC, INC.

DO NOT SCALE DRAWING  
MATERIAL: SHEET SCALE: 1:2  
INSULATORS: LCP COLOR: BLACK  
TERMINAL: BeCu  
SHIELD: ZINC ALLOY  
LATCH: SS  
CABLE: JACKET (SEE CALLOUT)  
WIRE: TINNED COPPER

**samtec**

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

DESCRIPTION:	1MM PITCH PIN ASSEMBLY
--------------	------------------------

DWG. NO.  
P1XDX-XX-XXX-X-XX.X-X-XX

BY: G DETHY	03/17/2021	SHEET 1 OF 4
-------------	------------	--------------

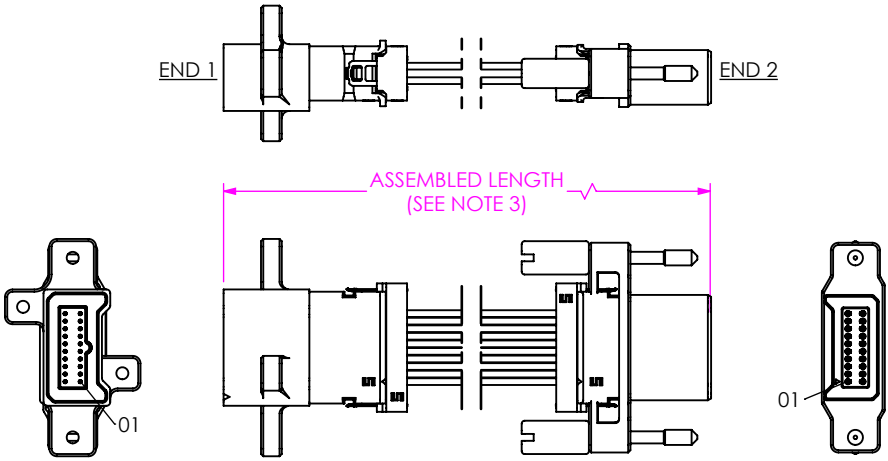


FIG 2  
P1PDX-10-XXX-X-XX.X-B1 SHOWN  
(DIFFERENT AS SHOWN, OTHERWISE SAME AS FIG 1)

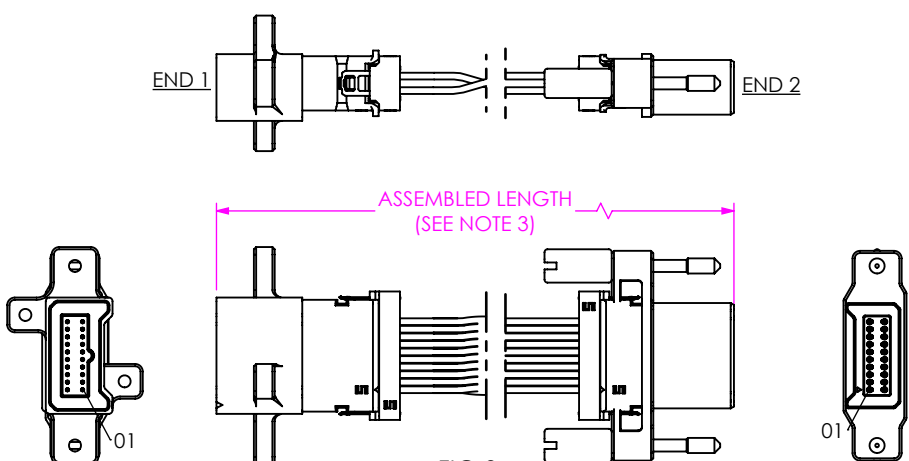


FIG 3  
P1PDX-10-XXX-X-XX.X-B2 SHOWN  
(DIFFERENT AS SHOWN, OTHERWISE SAME AS FIG 1)

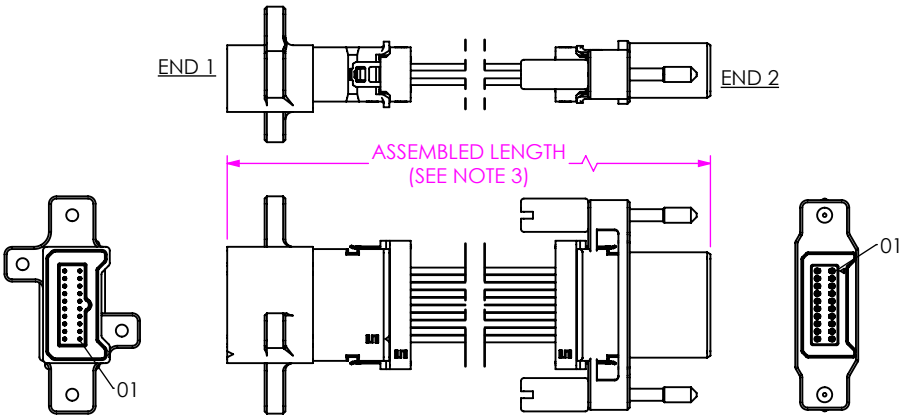


FIG 4  
P1PDX-10-XXX-XXX-XX.X-B3 SHOWN  
(DIFFERENT AS SHOWN, OTHERWISE SAME AS FIG 1)

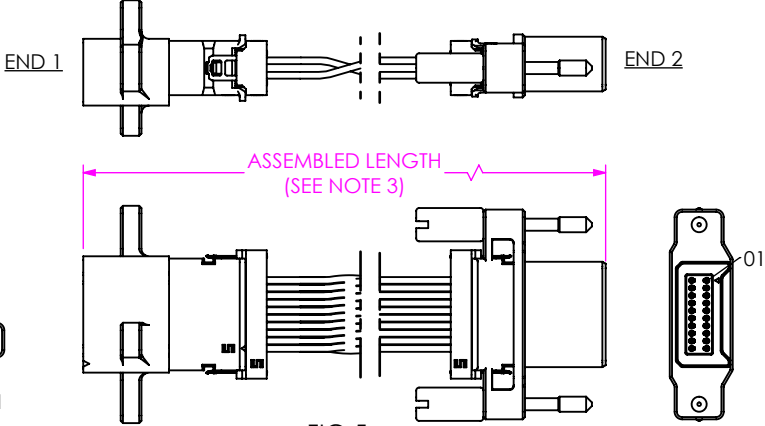


FIG 5  
P1PDX-10-XXX-X-XX.X-B4 SHOWN  
(DIFFERENT AS SHOWN, OTHERWISE SAME AS FIG 1 & FIG 4)

TABLE 2  
P1XD COLOR CODED WIRE SEQUENCE  
COLOR

END 1 PIN #	BROWN	RED	ORANGE	YELLOW	GREEN	BLUE	VIOLET	GRAY	WHITE	BLACK
	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
	1	2	3	4	5	6	7	8	9	10
	11	12	13	14	15	16	17	18	19	20
	21	22	23	24	25	26	27	28	29	30
	31	32	33	34	35	36	37	38	39	40
	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
	71	72	73	74	75	76	77	78	79	80

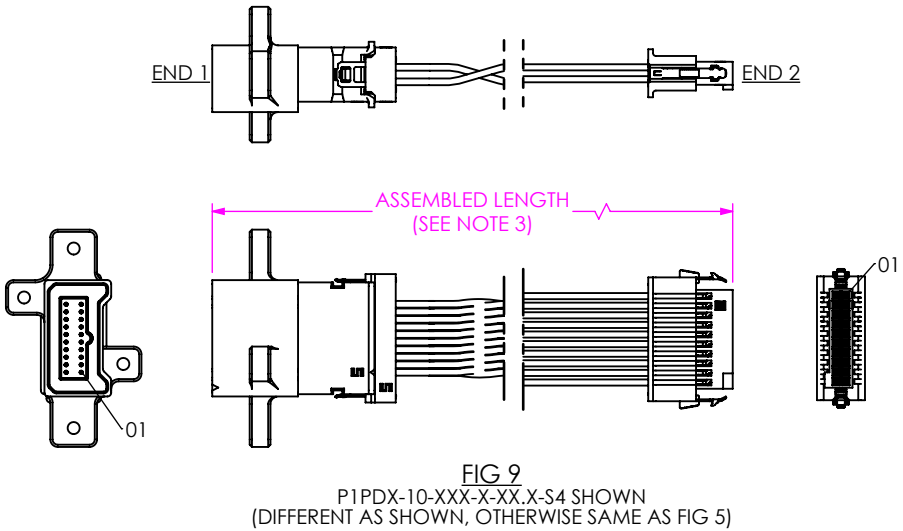
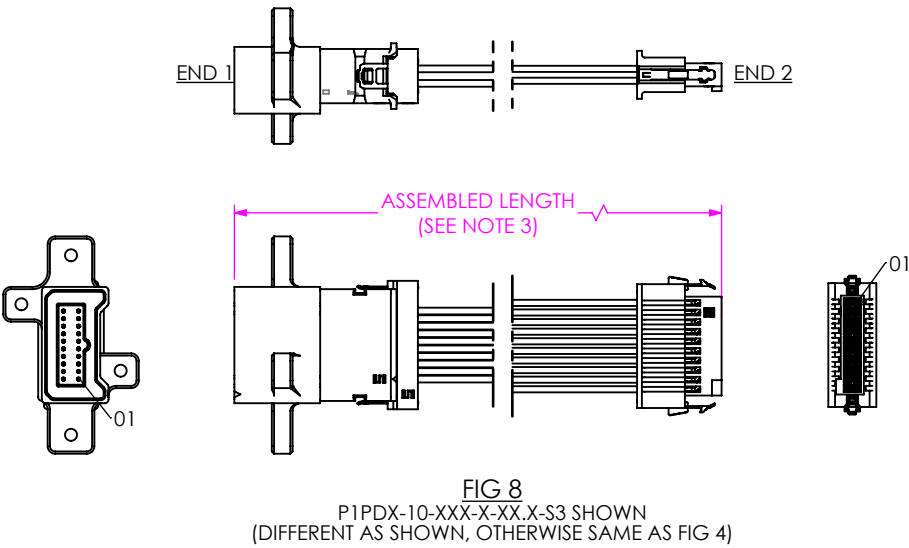
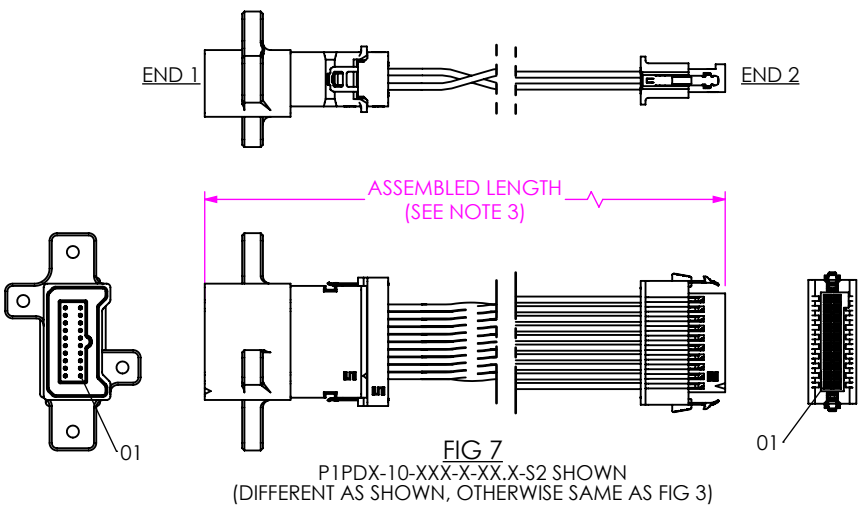
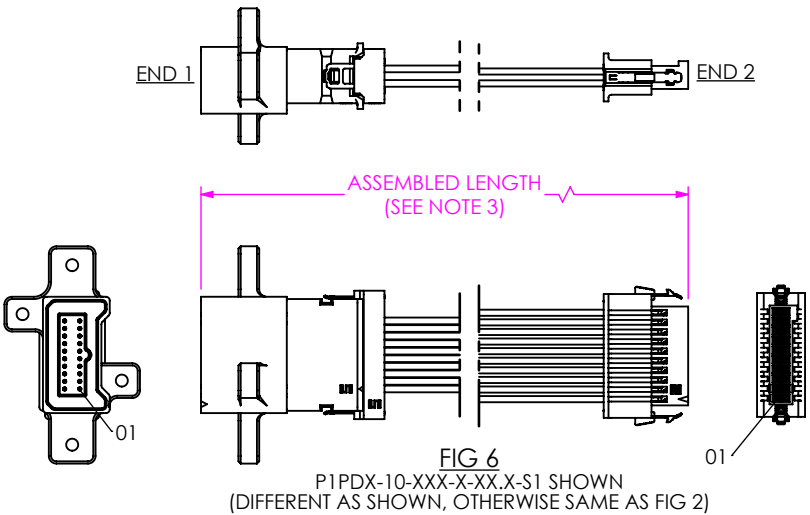
PROPRIETARY NOTE  
THIS DOCUMENT CONTAINS CONFIDENTIAL AND PROPRIETARY INFORMATION AND ALL DESIGN, MANUFACTURING, REPRODUCTION, USE, PATENT RIGHTS AND SALES RIGHTS ARE EXPRESSLY RESERVED BY SAMTEC, INC. THIS DOCUMENT SHALL NOT BE DISCLOSED, IN WHOLE OR PART, TO ANY UNAUTHORIZED PERSON OR ENTITY NOR REPRODUCED, TRANSFERRED OR INCORPORATED IN ANY OTHER PROJECT IN ANY MANNER WITHOUT THE EXPRESS WRITTEN CONSENT OF SAMTEC, INC.

SHEET SCALE: 1:2  
DO NOT SCALE DRAWING

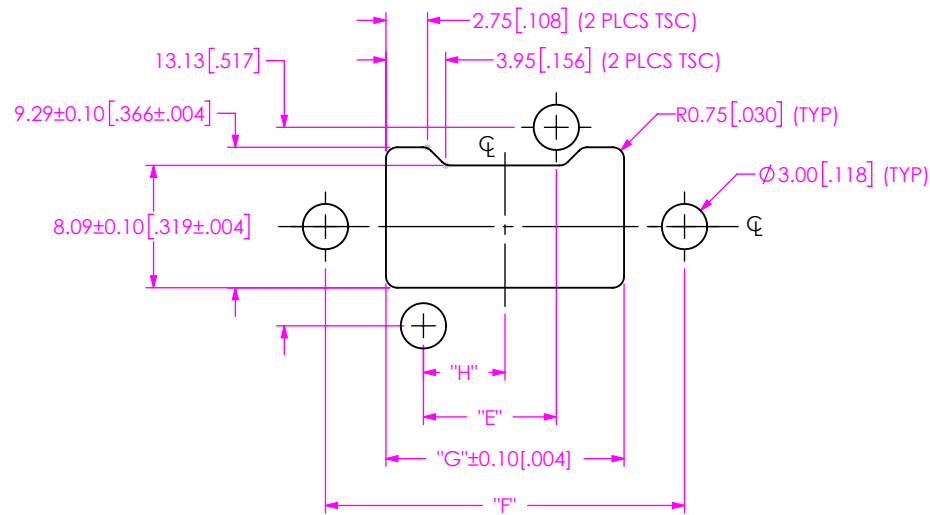


520 PARK EAST BLVD, NEW ALBANY, IN 47150  
PHONE: 812-944-6733 FAX: 812-948-5047  
e-Mail info@SAMTEC.com code 55322

DESCRIPTION:  
1MM PITCH PIN ASSEMBLY  
DWG. NO.  
P1XDX-XX-XXX-X-XX.X-X-XX  
BY:G DETHY 03/17/2021 SHEET 2 OF 4



<p>• <b>PROPRIETARY NOTE</b></p> <p>THIS DOCUMENT CONTAINS CONFIDENTIAL AND PROPRIETARY INFORMATION AND ALL DESIGN, MANUFACTURING, REPRODUCTION, USE, PATENT RIGHTS AND SALES RIGHTS ARE EXPRESSLY RESERVED BY SAMTEC, INC. THIS DOCUMENT SHALL NOT BE DISCLOSED, IN WHOLE OR PART, TO ANY UNAUTHORIZED PERSON OR ENTITY NOR REPRODUCED, TRANSFERRED OR INCORPORATED IN ANY OTHER PROJECT IN ANY MANNER WITHOUT THE EXPRESS WRITTEN CONSENT OF SAMTEC, INC.</p>	
<p>SHEET SCALE: 1:2 DO NOT SCALE DRAWING</p>	<p><b>samtec</b></p> <p>520 PARK EAST BLVD, NEW ALBANY, IN 47150 PHONE: 812-944-6733 FAX: 812-948-5047 e-Mail: info@SAMTEC.com code 55322</p>
	<p>DESCRIPTION: 1MM PITCH PIN ASSEMBLY</p>
	<p>DWG. NO. P1XDX-XX-XXX-X-XX.X-X-XX</p>
<p>BY: G DETHY 03/17/2021 SHEET 3 OF 4</p>	



RECOMMENDED PANEL CUTOUT

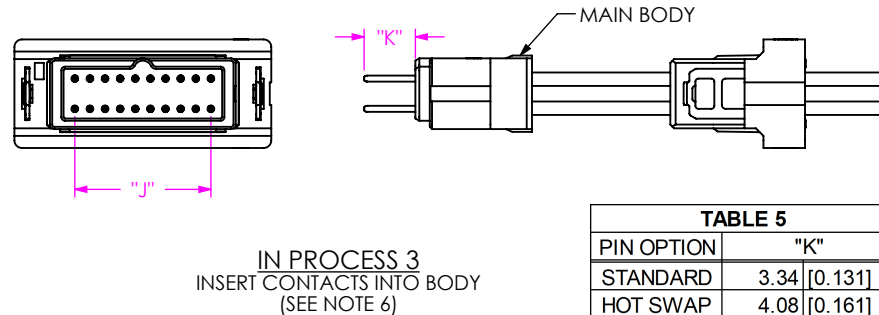
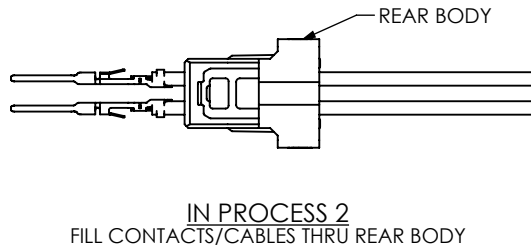
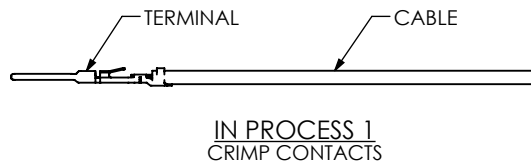
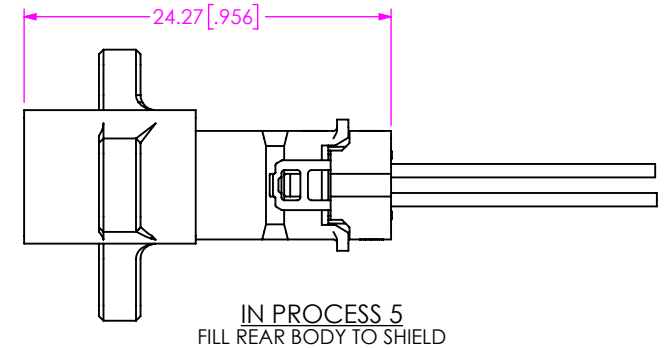
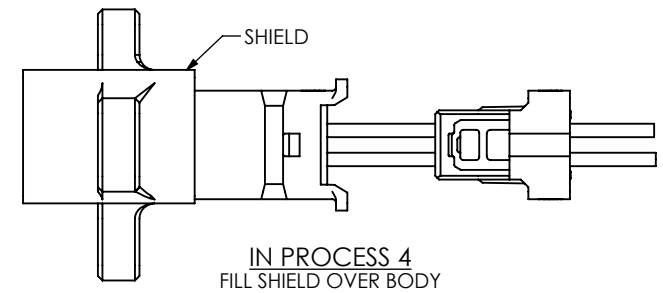


TABLE 4	
No. OF POS	"J"
-04	3.00 [0.118]
-05	4.00 [0.157]
-07	6.00 [0.236]
-10	9.00 [0.354]
-15	14.00 [0.551]
-20	19.00 [0.748]
-25	24.00 [0.945]
-30	29.00 [1.142]
-40	39.00 [1.535]

TABLE 5	
PIN OPTION	"K"
STANDARD	3.34 [0.131]
HOT SWAP	4.08 [0.161]

TABLE 3				
No. OF POS	"E"	"F"	"G"	"H"
-04	2.79 [0.110]	17.75 [0.699]	9.75 [0.384]	2.395 [0.094]
-05	3.79 [0.149]	18.75 [0.738]	10.75 [0.423]	2.895 [0.114]
-07	5.79 [0.228]	20.75 [0.817]	12.75 [0.502]	3.895 [0.153]
-10	8.79 [0.346]	23.75 [0.935]	15.75 [0.620]	5.395 [0.212]
-15	13.79 [0.543]	28.75 [1.132]	20.75 [0.817]	7.895 [0.311]
-20	18.79 [0.740]	33.75 [1.329]	25.75 [1.014]	10.395 [0.409]
-25	23.79 [0.937]	38.75 [1.526]	30.75 [1.211]	12.895 [0.508]
-30	28.79 [1.133]	43.75 [1.722]	35.75 [1.407]	15.395 [0.606]
-40	38.79 [1.527]	53.75 [2.116]	45.75 [1.801]	20.395 [0.803]

TABLE 6						
SERIES	WIRE GAUGE	MAIN BODY	REAR BODY	SHIELD	TERMINAL	CABLE
P1PD	28 AWG	IPP1-XX-1	P1PDR-XX	P1PDS-XX-N	TC145-XX-X-X	DWC-28-XX-300
	30 AWG					DWC-30-XX-300
P1PDT	28 AWG					DWCT-28-01-TC
	30 AWG					DWCT-30-01-TC



**PROPRIETARY NOTE**  
 THIS DOCUMENT CONTAINS CONFIDENTIAL AND PROPRIETARY INFORMATION AND ALL DESIGN, MANUFACTURING, REPRODUCTION, USE, PATENT RIGHTS AND SALES RIGHTS ARE EXPRESSLY RESERVED BY SAMTEC, INC. THIS DOCUMENT SHALL NOT BE DISCLOSED, IN WHOLE OR PART, TO ANY UNAUTHORIZED PERSON OR ENTITY NOR REPRODUCED, TRANSFERRED OR INCORPORATED IN ANY OTHER PROJECT IN ANY MANNER WITHOUT THE EXPRESS WRITTEN CONSENT OF SAMTEC, INC.

SHEET SCALE: 2:1  
 DO NOT SCALE DRAWING

**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:  
 1MM PITCH PIN ASSEMBLY

DWG. NO.  
 P1XDX-XX-XXX-X-XX.X-X-XX

BY: G DETHY 03/17/2021 SHEET 4 OF 4