

TABLE 2			
No. OF PAIRS	No. OF POS	N	N/2
-08,-12	36	36	18
-16	50	50	25
-24	68	68	34

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

DESIGNED & DIMENSIONED IN MILLIMETERS[INCHES]

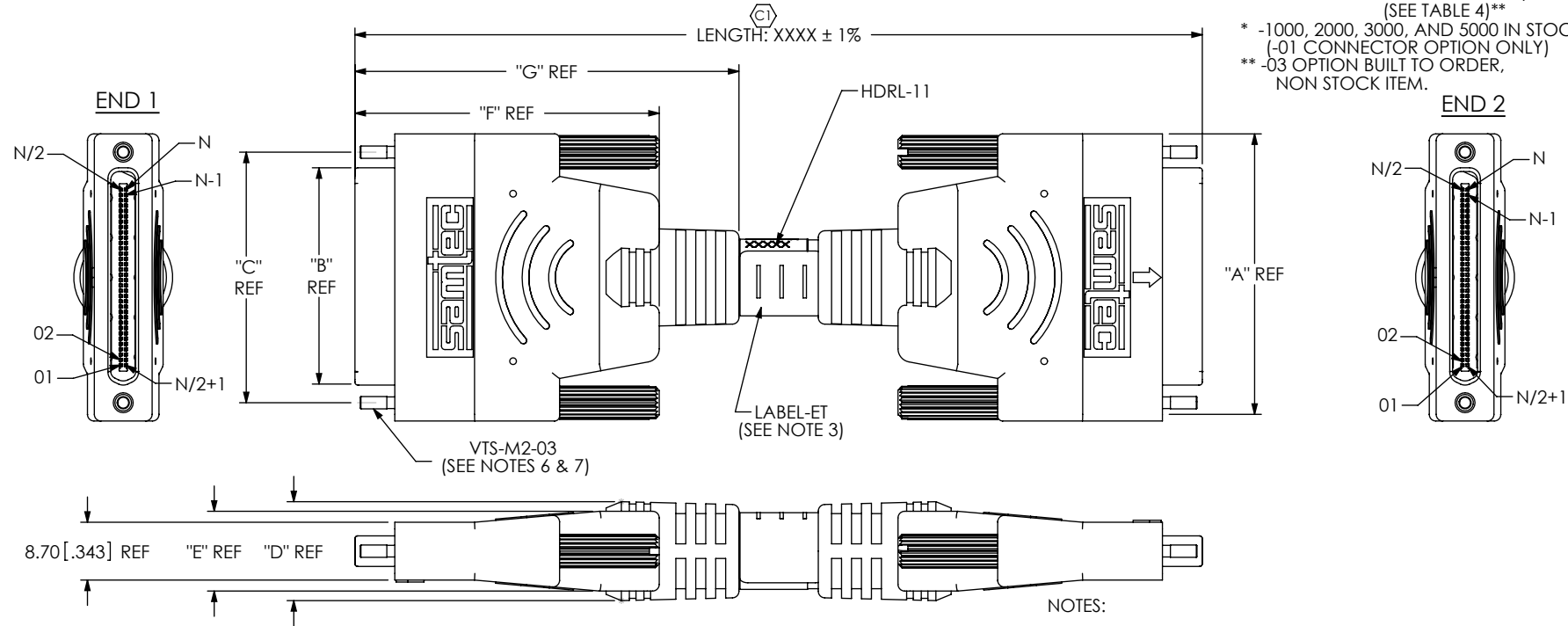
VPSTP-XX-XXXX-XX

No OF PAIRS  
-08, -12, -16, -24  
(SEE TABLE 4, SHEET 2)

LENGTH (MILLIMETERS)  
-0500 - 9999\*

CONNECTOR OPTION  
-01: PIN 1 TO PIN 1  
(SEE FIG 1, SHEET 1 & TABLE 4, SHEET 2)  
-02: PIN 1 TO PIN N/2+1  
(SEE TABLE 4 & FIG 2, SHEET 2)  
-03: PIN 1 TO PIN N/2  
(SEE TABLE 4)\*\*

\* -1000, 2000, 3000, AND 5000 IN STOCK.  
(-01 CONNECTOR OPTION ONLY)  
\*\* -03 OPTION BUILT TO ORDER, NON STOCK ITEM.

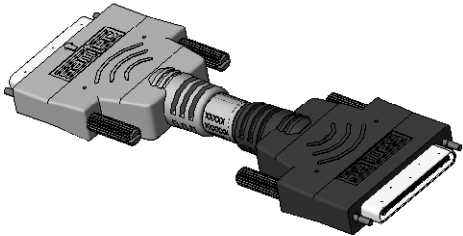


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FIG 1  
VPSTP-24-XXXX-01 SHOWN

- NOTES:
1.  $\text{C}$  REPRESENTS A CRITICAL DIMENSION.
  2. ALL ASSEMBLIES TO BE 100% ELECTRICALLY TESTED FOR SHORTS AND OPENS.
  3. ALL ASSEMBLIES TO BE 100% HI-POT TESTED AT 300V. AFTER FINAL ELECTRICAL TEST, LABEL ASSEMBLY WITH 1 LABEL-ET.
  4. WRAP ENDS IN BUBBLE WRAP AND PACKAGE IN CLEAR POLY-BAGS.
  5. SEE TABLE 4 FOR SIGNAL/GROUND CONFIGURATION.
  6. MAJOR DIAMETER FOR M2 x 4 - 6G EXTERNAL THREAD WITH 6g TOLERANCE IS 1.886 MIN TO 1.981 MAX ACCORDING TO ANSI-AMSE B1.13M-1983 (R19595).
  7. MINOR DIAMETER FOR M2 x 4 - 6G EXTERNAL THREAD WITH 6g TOLERANCE IS 1.408 MIN TO 1.548 MAX ACCORDING TO ANSI-AMSE B1.13M-1983 (R1995).
  8. HDR-11 IS TO BE CENTERED ON CABLE AS SHOWN. HDR-11 IS TO CONTAIN: PART NUMBER, SHOP ORDER, & DATE CODE.

TABLE 1								
No. OF PAIRS	"A"	"B"	"C"	"D"	"E"	"F"	"G"	CABLE
-08	30.50 [1.201]	19.80 [0.780]	24.90 [0.980]	12.60 [0.496]	10.00 [0.394]	33.80 [1.331]	44.40 [1.748]	STPC-08-01
-12	30.50 [1.201]	19.80 [0.780]	24.90 [0.980]	12.60 [0.496]	10.00 [0.394]	33.80 [1.331]	44.40 [1.748]	STPC-12-01
-16	36.00 [1.417]	25.40 [1.000]	30.50 [1.201]	14.00 [0.551]	11.00 [0.433]	35.80 [1.409]	47.80 [1.882]	STPC-16-01
-24	43.20 [1.701]	32.60 [1.283]	37.70 [1.484]	15.00 [0.591]	12.00 [0.472]	39.80 [1.567]	51.80 [2.039]	STPC-24-01



UNLESS OTHERWISE SPECIFIED, DIMENSIONS ARE IN MILLIMETERS.

TOLERANCES ARE:

DECIMALS

.X:  $\pm 0.3$  [0.01]

.XX:  $\pm 0.13$  [0.005]

.XXX:  $\pm 0.051$  [0.002]

ANGLES

2°

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MATERIAL:

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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:  
PLUG SHIELDED TWISTED PAIR CABLE ASSEMBLY

DWG. NO.

VPSTP-XX-XXXX-XX

BY: J.RILEY

3-27-06

SHEET 1 OF 7

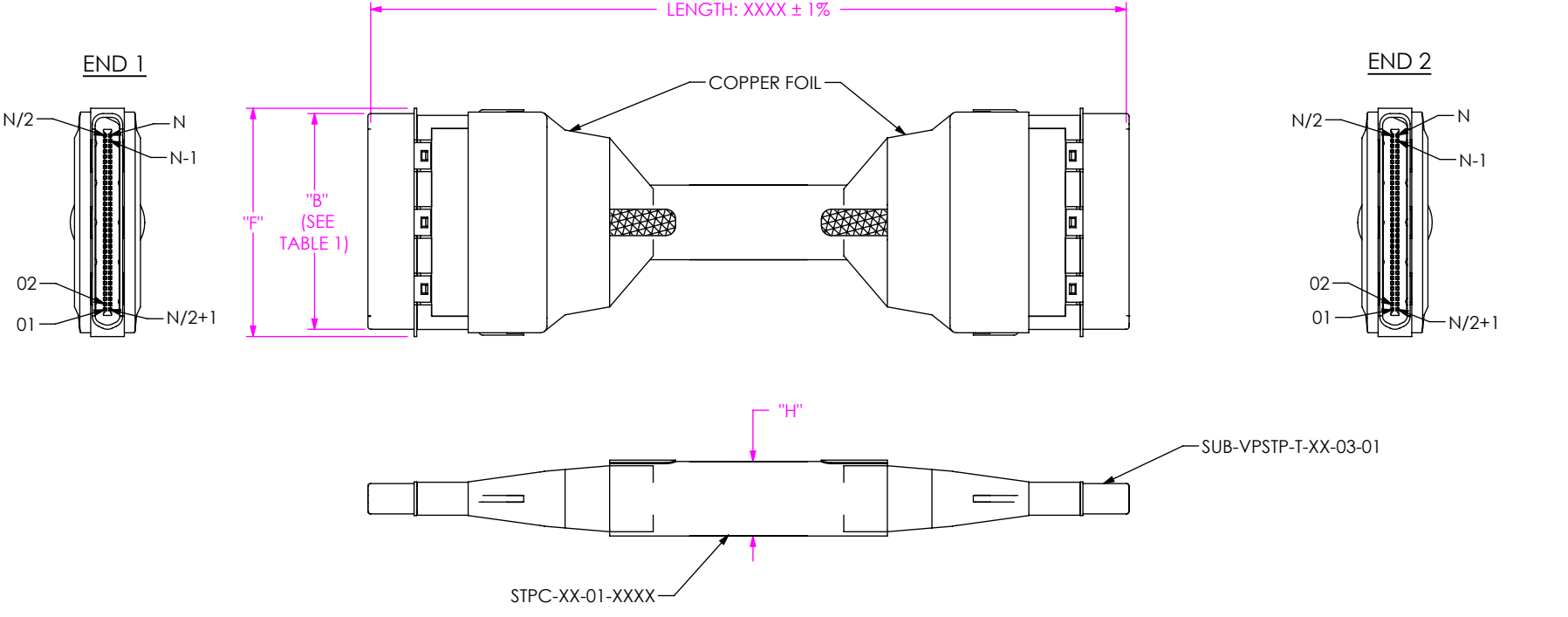


FIG. 2  
VPSTP-24-XXXX-01 SHOWN

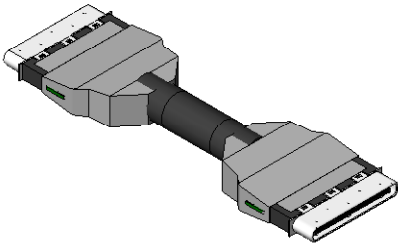


TABLE 2					
No. OF PAIRS	"H"		"J"		CABLE
-08	7.20	[0.283]	21.80	[0.858]	SUB-STPC-08-01-XXXX
-12	8.50	[0.335]	21.80	[0.858]	SUB-STPC-12-01-XXXX
-16	9.50	[0.374]	27.40	[1.079]	SUB-STPC-16-01-XXXX
-24	11.00	[0.433]	34.60	[1.362]	SUB-STPC-24-01-XXXX

TABLE 4		
CONNECTOR OPTION	FIRST END PIN #	SECOND END PIN #
-01	1	1
-02	1	N/2 + 1
-03	1	N/2

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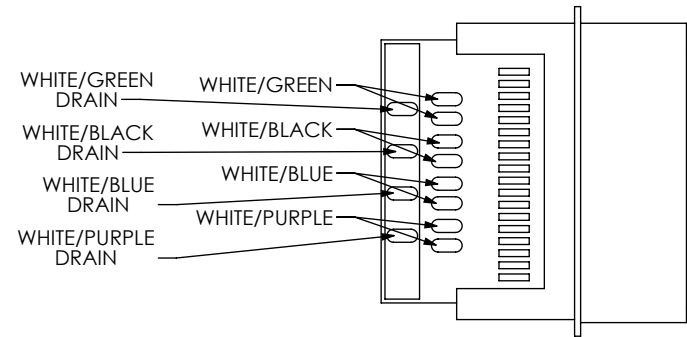
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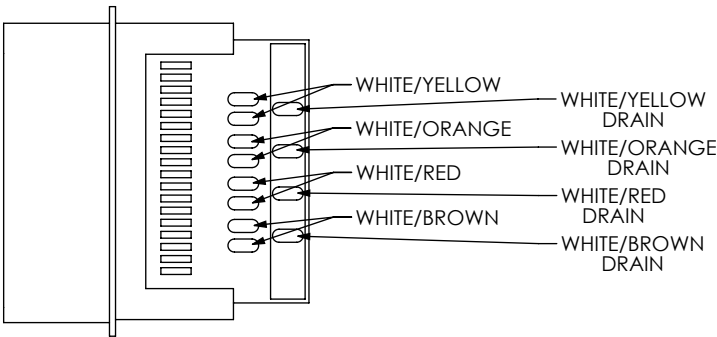
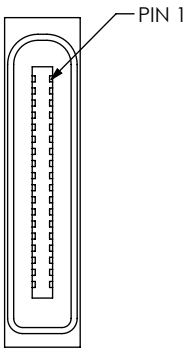
DWG. NO. **VPSTP-XX-XXXX-XX**

BY: J.RILEY 3-27-06 SHEET 2 OF 7

\* FIRST COLOR LISTED GOES ON TOP

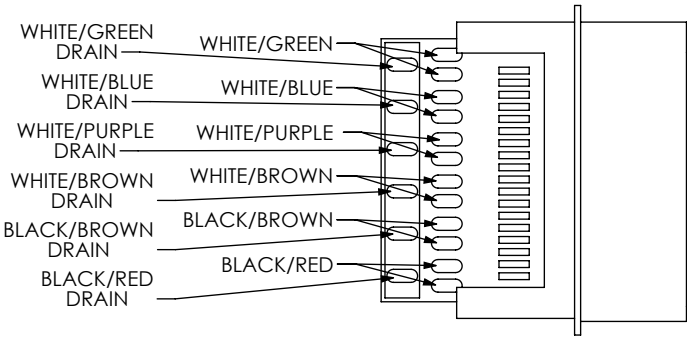


\* TWIST ONE DRAIN WIRE FROM TOP & BOTTOM, SOLDER TOGETHER, AND SOLDER TO APPROPRIATE PAD ON TOP AND BOTTOM

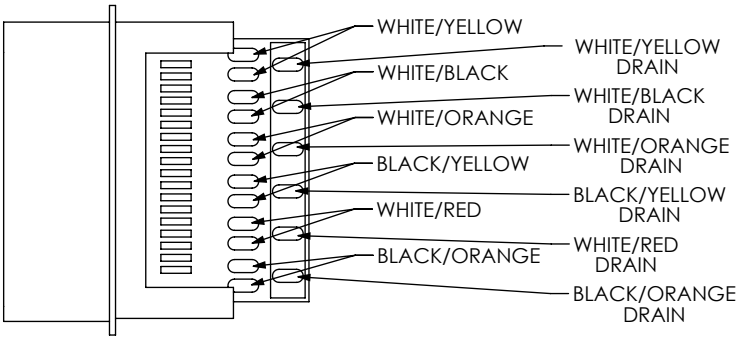
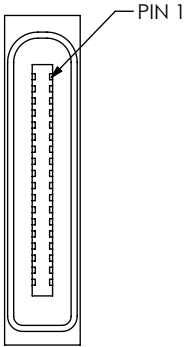


GROUND WIRES SOLDERED TO COMMON GROUND  
VPSTP-08-XXXX-01 SHOWN

\* FIRST COLOR LISTED GOES ON TOP



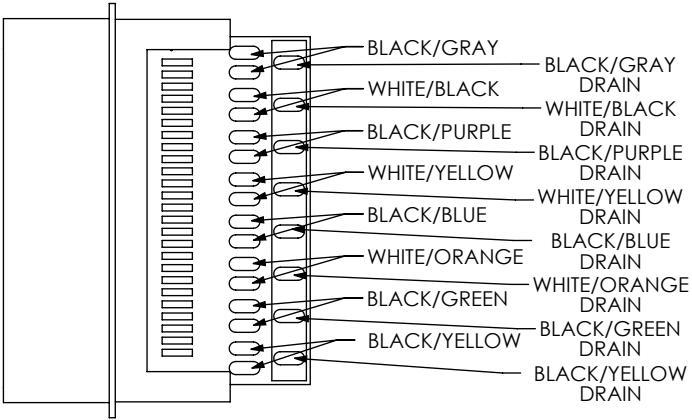
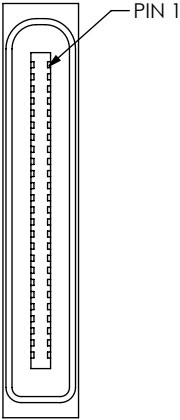
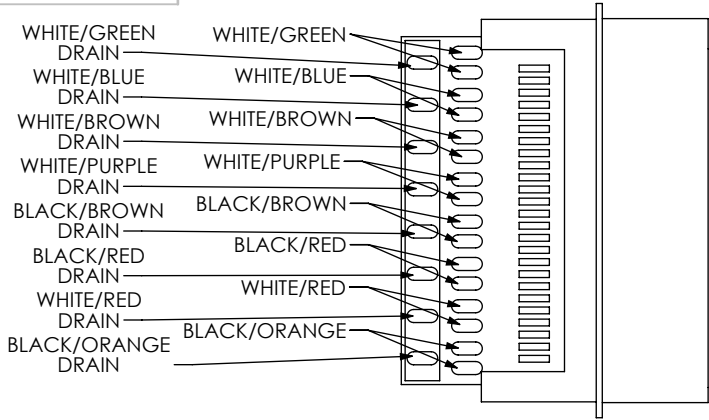
\* TWIST ONE DRAIN WIRE FROM TOP & BOTTOM, SOLDER TOGETHER, AND SOLDER TO APPROPRIATE PAD ON TOP AND BOTTOM



GROUND WIRES SOLDERED TO COMMON GROUND  
VPSTP-12-XXXX-01 SHOWN

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<p>DESCRIPTION: PLUG SHIELDED TWISTED PAIR CABLE ASSEMBLY</p> <p>DWG. NO. <b>VPSTP-XX-XXXX-XX</b></p>		
BY: J.RILEY 3-27-06		SHEET 3 OF 7

\* FIRST COLOR LISTED GOES ON TOP

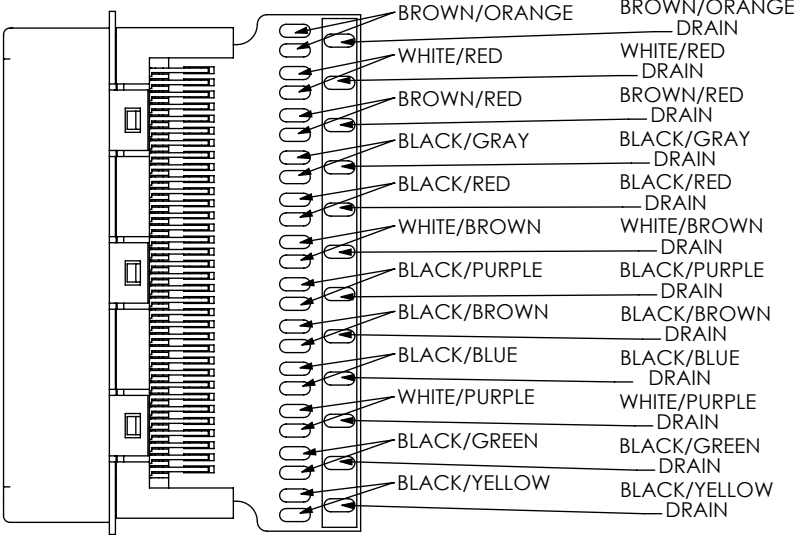
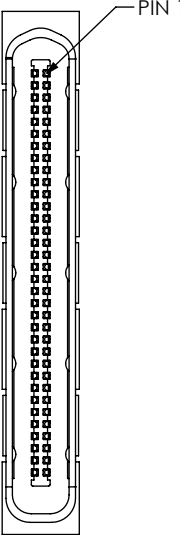
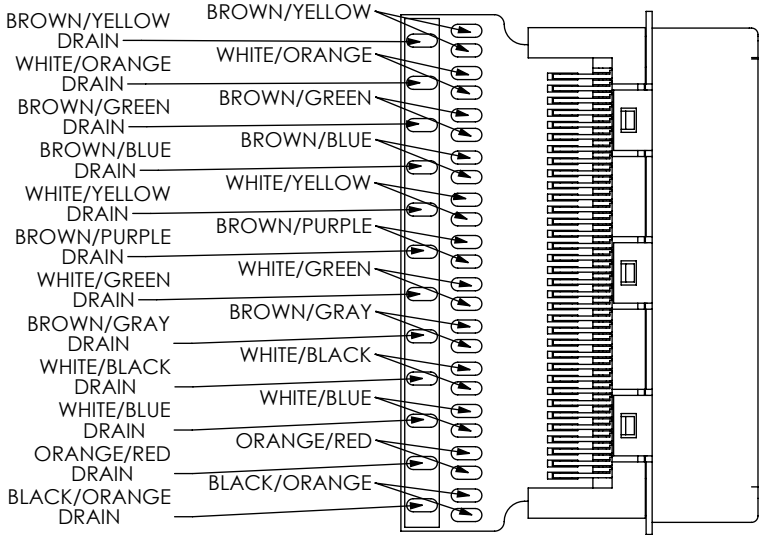


\* TWIST ONE DRAIN WIRE FROM TOP & BOTTOM, SOLDER TOGETHER, AND SOLDER TO APPROPRIATE PAD ON TOP AND BOTTOM

GROUND WIRES SOLDERED TO COMMON GROUND

VPSTP-16-XXXX-01 SHOWN

\* FIRST COLOR LISTED GOES ON TOP



\* TWIST ONE DRAIN WIRE FROM TOP & BOTTOM, SOLDER TOGETHER, AND SOLDER TO APPROPRIATE PAD ON TOP AND BOTTOM

GROUND WIRES SOLDERED TO COMMON GROUND

VPSTP-24-XXXX-01 SHOWN

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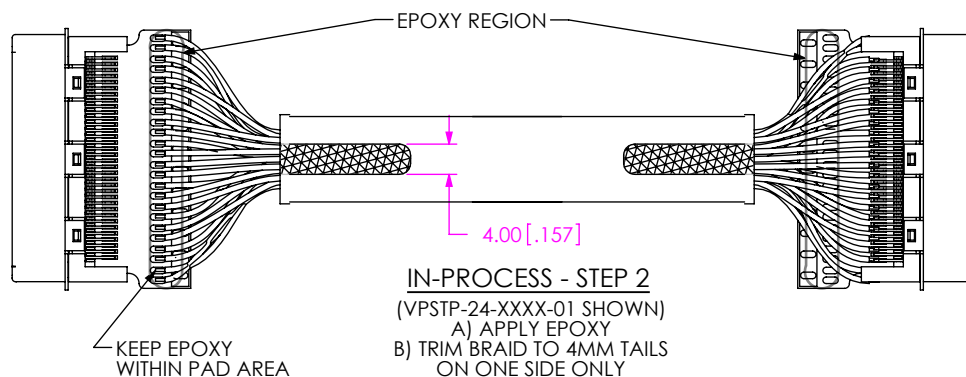
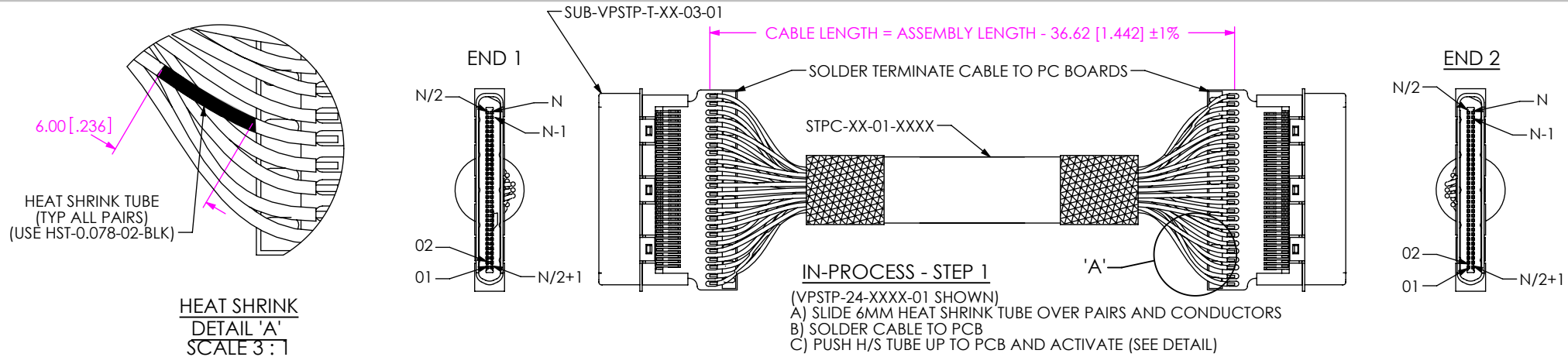
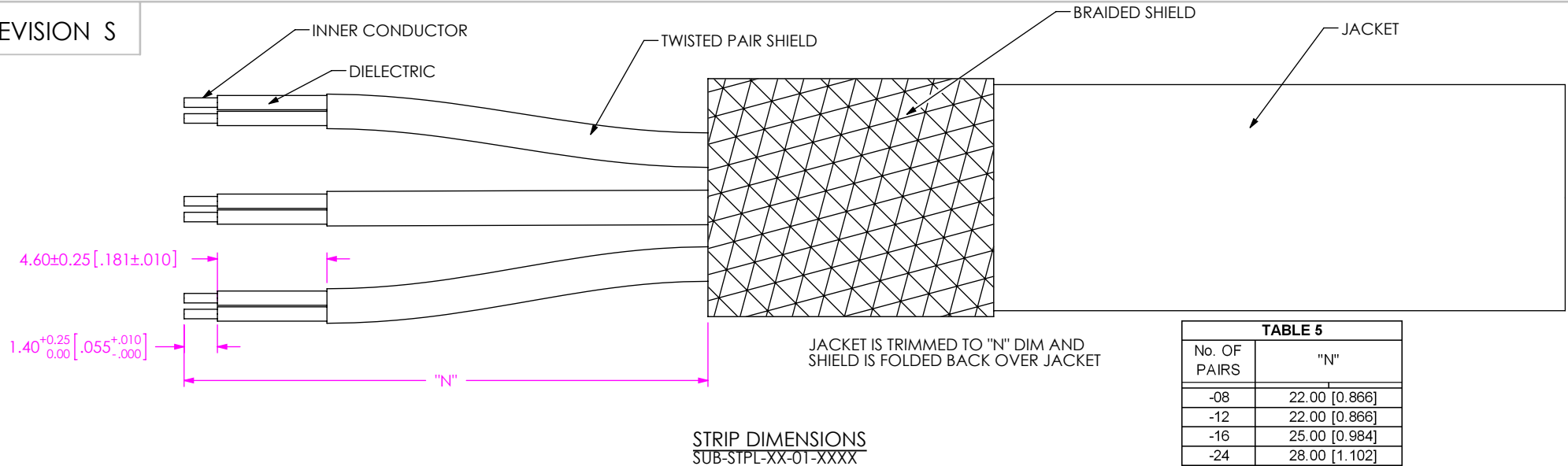
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e-Mail: info@SAMTEC.com code: 55322

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DWG. NO. VPSTP-XX-XXXX-XX

BY: J.RILEY 3-27-06 SHEET 4 OF 7



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DWG. NO.  
VPSTP-XX-XXXX-XX

BY: J.RILEY 3-27-06 SHEET 5 OF 7

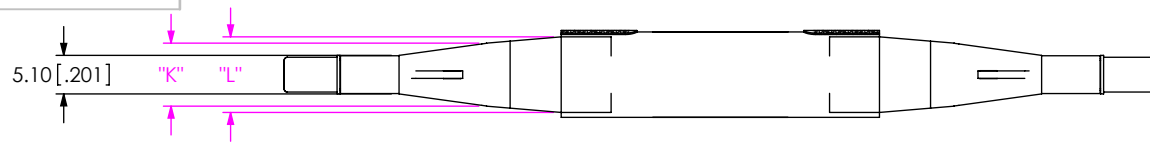
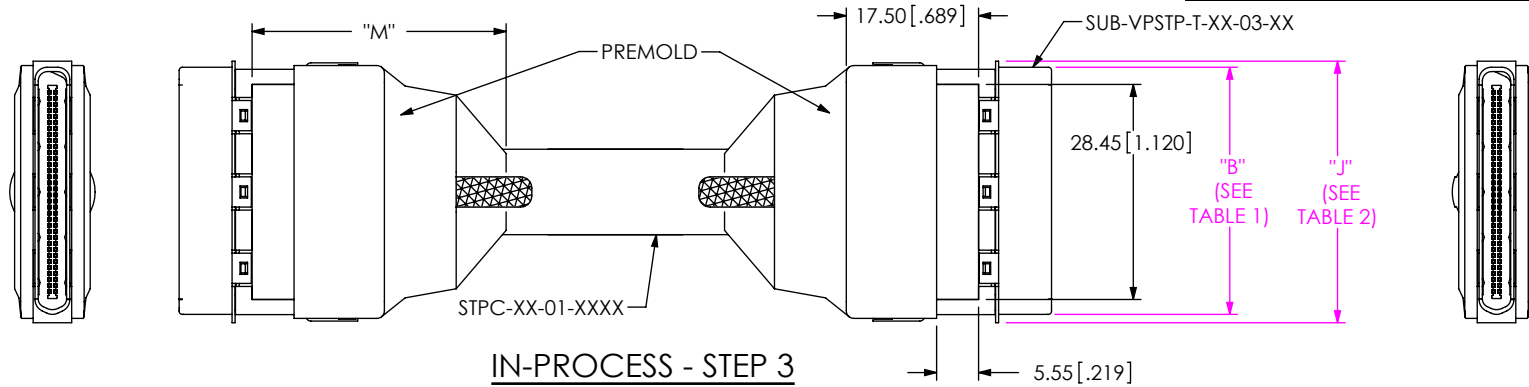
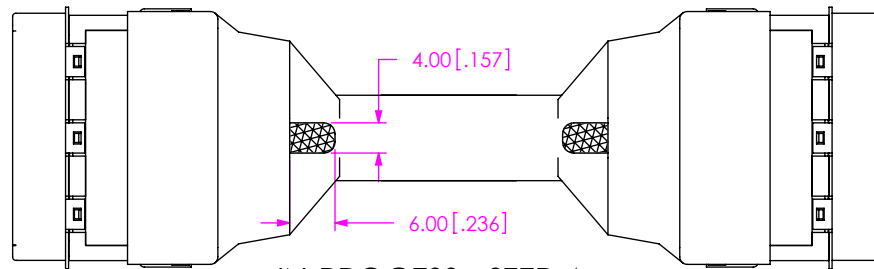


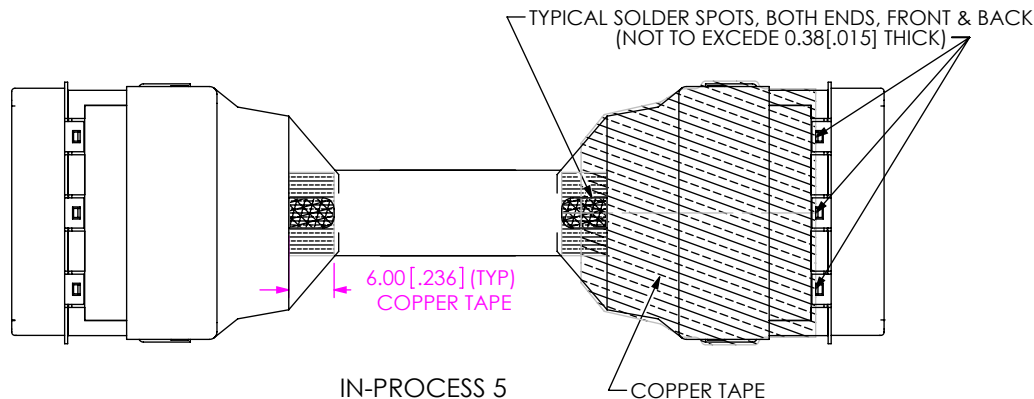
TABLE 6						
No. OF PAIRS	"K"		"L"		"M"	
-08	5.82	[0.229]	6.2	[0.244]	25.5	[1.004]
-12	6.7	[0.264]	7.5	[0.295]	25.5	[1.004]
-16	7.38	[0.291]	8.5	[0.335]	25.5	[1.004]
-24	8.4	[0.331]	10	[0.394]	33.6	[1.323]



**IN-PROCESS - STEP 3**  
(VPSTP-24-XXXX-01 SHOWN)  
ADD PREMOLD



**IN-PROCESS - STEP 4**  
(VPSTP-24-XXXX-01 SHOWN)  
TRIM BRAID TO 6MM TAIL



**IN-PROCESS 5**  
(VPLSP-24-XXXX-01 SHOWN)

- A) ADD 6MM STRIP OF COPPER TAPE AROUND EACH CABLE  
B) ADD MASKING TAPE AS NEEDED OVER ANY EXPOSED WIRES OR SHIELDING (SHOWING THROUGH PREMOLD)  
C) ADD COPPER TAPE OVER PREMOLD AND SOLDER TO CONNECTOR AND 6MM COPPER STRIPS

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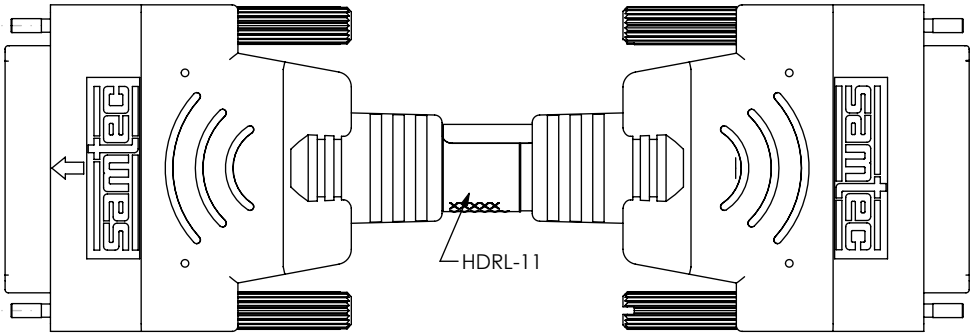
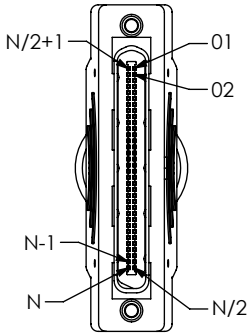
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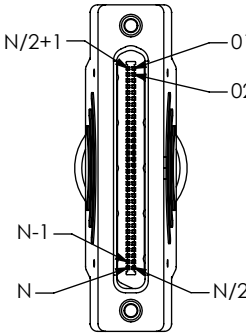
DWG. NO.  
**VPSTP-XX-XXXX-XX**

BY: J.RILEY 3-27-06 SHEET 6 OF 7

END 1



END 2



IN-PROCESS - STEP 6  
(VPSTP-24-XXXX-02 SHOWN)  
ADD OVERMOLD AND LABELS

TABLE 3																																																													
No OF PAIRS		POSITIONS (G = GROUND, S = SIGNAL)																																																											
-008			PAIR 1				PAIR 2				PAIR 3				PAIR 4																																														
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18																																											
	G	G	S	S	G	G	S	S	G	G	S	S	G	G	S	S	G	G																																											
			PAIR 5				PAIR 6				PAIR 7				PAIR 8																																														
	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36																																											
	G	G	S	S	G	G	S	S	G	G	S	S	G	G	S	S	G	G																																											
-012			PAIR 1				PAIR 2				PAIR 3				PAIR 4				PAIR 5				PAIR 6																																						
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18																																											
	S	S	G	S	S	G	S	S	G	G	S	S	G	S	S	G	S	S																																											
			PAIR 7				PAIR 8				PAIR 9				PAIR 10				PAIR 11				PAIR 12																																						
	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36																																											
	S	S	G	S	S	G	S	S	G	G	S	S	G	S	S	G	S	S																																											
-016			PAIR 1				PAIR 2				PAIR 3				PAIR 4				PAIR 5				PAIR 6				PAIR 7				PAIR 8																														
	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																																				
	G	S	S	G	S	S	G	S	S	G	S	S	G	S	S	G	S	S	G	S	S	G	S	S	G																																				
			PAIR 9				PAIR 10				PAIR 11				PAIR 12				PAIR 13				PAIR 14				PAIR 15				PAIR 16																														
	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																																				
	G	S	S	G	S	S	G	S	S	G	S	S	G	S	S	G	S	S	G	S	S	G	S	S	G																																				
-024			PAIR 1				PAIR 2				PAIR 3				PAIR 4				PAIR 5				PAIR 6				PAIR 7				PAIR 8				PAIR 9				PAIR 10				PAIR 11				PAIR 12														
	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																											
	G	G	S	S	S	S	S	S	G	G	S	S	S	S	S	S	G	G	S	S	S	S	S	S	G	G	S	S	S	S	S	S	S	G	G																										
			PAIR 13				PAIR 14				PAIR 15				PAIR 16				PAIR 17				PAIR 18				PAIR 19				PAIR 20				PAIR 21				PAIR 22				PAIR 23				PAIR 24														
	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																											
	G	G	S	S	S	S	S	S	G	G	S	S	S	S	S	S	G	G	S	S	S	S	S	S	G	G	S	S	S	S	S	S	S	G	G																										

VPSTP-XX-XXXX-XX BOM			
ITEM #	PART #	QTY	DESCRIPTION
IH ROUTING			
1	SUB-VPSTP-XX-XXXX-XX	1	SUB ASSEMBLY
2	VTS-M2-03	4	THUMB SCREW
3	OVERMOLD	2	RITE FLEX 640
4	CUT-1.000	2	CU TAPE
OC ROUTING			
5	SUB-VPSTP-T-XX-03-01	2	SUB ASSEMBLY

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DWG. NO.  
VPSTP-XX-XXXX-XX

BY: J.RILEY 3-27-06 SHEET 7 OF 7