



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

DO NOT SCALE FROM THIS PRINT

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

HPSTP-XX-XXXX-XX-XX

No OF POSITIONS  
 -19: (5 SIG PAIRS/4 POWER LINES)  
 USES HDMIP-19 (SEE FIG. 1)  
 -29: (8 SIG PAIRS/6 POWER LINES)  
 USES HDMIP-29 (SEE FIG. 2)

LENGTH \*  
 (IN MILLIMETERS)  
 -0500 - 9999  
 \*CONTACT SAMTEC FOR CUSTOM LENGTHS.  
 -1000, 2000, 3000, AND 5000 IN STOCK  
 LENGTHS LONGER THAN 5000 NOT SUPPORTED BY TEST DATA

FIRST END  
 -S: STANDARD PLUG  
 AVAILABLE SECOND END:  
 (19 AND 29 POSITION)  
 -STANDARD PLUG  
 -M: MINI PLUG  
 AVAILABLE SECOND END:  
 (19 POSITION ONLY)  
 -M: MINI PLUG  
 -S: STANDARD PLUG  
 -SL: LOCKING STANDARD PLUG  
 AVAILABLE SECOND END:  
 (19 POSITION ONLY)  
 -SL: LOCKING SECOND PLUG  
 -ML: LATCHING MINI PLUG  
 AVAILABLE SECOND END  
 (19 POSITION ONLY)  
 -ML: LATCHING MINI PLUG

SECOND END  
 -S: STANDARD PLUG  
 AVAILABLE FIRST END:  
 (19 AND 29 POSITION)  
 -S: STANDARD PLUG  
 -M: MINI PLUG  
 AVAILABLE FIRST END:  
 (19 POSITION ONLY)  
 -M: MINI PLUG  
 -SL: LOCKING STANDARD PLUG  
 AVAILABLE FIRST END:  
 (19 POSITION ONLY)  
 -SL: LOCKING SECOND PLUG  
 -ML: LATCHING MINI PLUG  
 AVAILABLE FIRST END  
 (19 POSITION ONLY)  
 -ML: LATCHING MINI PLUG

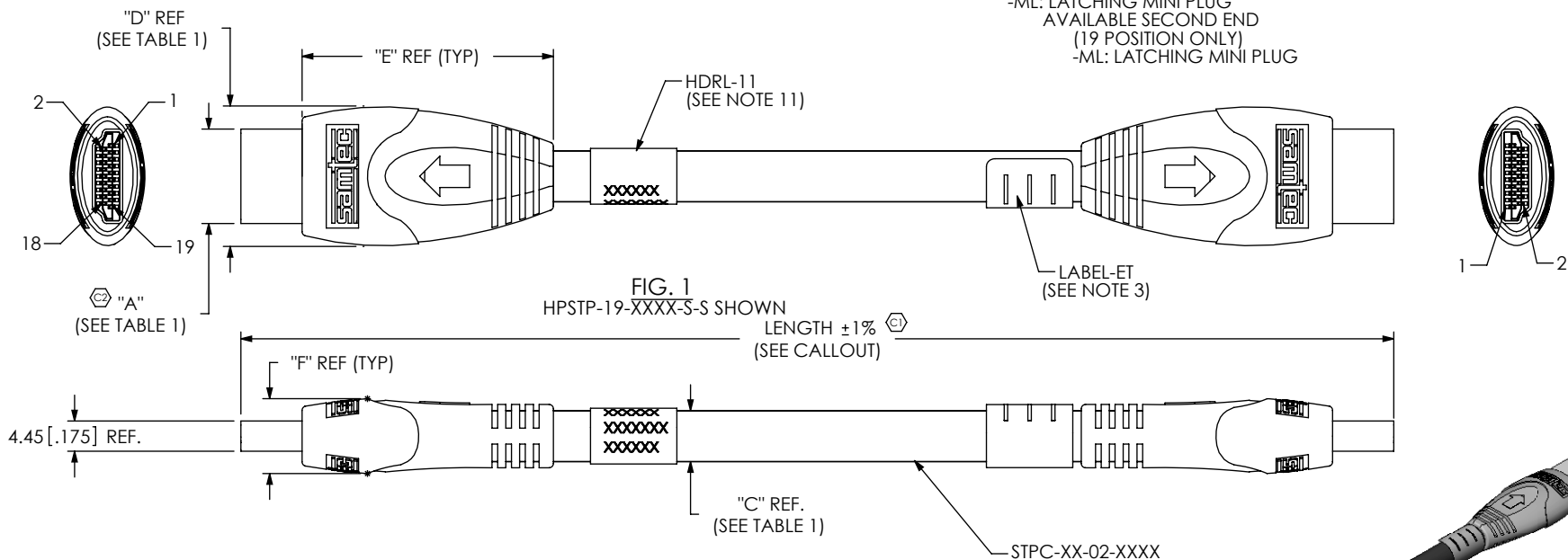


FIG. 1  
 HPSTP-19-XXXX-S-S SHOWN  
 LENGTH ±1%  
 (SEE CALLOUT)

NOTES:

1. Ⓢ REPRESENTS A CRITICAL DIMENSION.
2. ALL ASSEMBLIES TO BE 100% ELECTRICALLY TESTED.
3. ALL ASSEMBLIES TO BE 100% HI-POT TESTED AT 300V.  
 AFTER FINAL ELECTRICAL TEST, LABEL EACH ASSEMBLY WITH 1 LABEL-ET.
4. WRAP ENDS IN BUBBLE WRAP AND PACKAGE IN CLEAR POLY BAGS.
5. SEE TABLE 2, 3, 4, & 5 FOR SIGNAL/GROUND/POWER CONFIGURATION.
6. CONNECTOR SHEILD TIED TO BRAIDED CABLE SHIELD.
7. GOLD SHALL BE .000030" MIN GOLD PER MIL-G-45204B, CLASS 1, TO BE MEASURED IN CONTACT AREA.
8. NICKEL SHALL BE .000080" MIN PER QQ-N-290, CLASS 1, MEASURED ON SHELL.
9. NOTE DELETED.
10. NOTE DELETED.
11. HDRL-11 IS TO BE CENTERED ON CABLE AS SHOWN.  
 HDRL-11 IS TO CONTAIN: PART NUMBER, SHOP ORDER, & DATE CODE.

TABLE 1

POSITIONS	"A"	"C"	"D"	"E"	"F"	CABLE	SUB ASSEMBLY
-19	13.90 [0.547]	7.50 [0.295]	20.51 [0.807]	37.20 [1.465]	11.10 [0.437]	STPC-05-02	SUB-HDMIP-19-01
-19-L	13.90 [0.547]	7.50 [0.295]	20.00 [0.787]	40.56 [1.597]	9.80 [0.386]	STPC-05-02	SUB-HDMIP-19-01-L
-29	21.20 [0.835]	8.50 [0.335]	27.20 [1.071]	45.00 [1.772]	13.00 [0.512]	STPC-08-02	SUB-HDMIP-29-01

UNLESS OTHERWISE SPECIFIED, DIMENSIONS ARE IN MILLIMETERS  
 TOLERANCES ARE:  
 DECIMALS ANGLES  
 .X: ±.3 [.01] 2°  
 .XX: ±.13 [.005]  
 .XXX: ±.051 [.002]

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

OVERMOLD: PVC (UL94 V-0)  
 PREMOLD: PE (UL94 V-0)  
 CONNECTOR: LCP (UL94 V-0)  
 CABLE: (VW-1)

F:\DWG\MISC\MKTG\HPSTP-XX-XXXX-XX-XX-MKT.SLDDRW



520 PARK EAST BLVD, NEW ALBANY, IN 47150  
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DESCRIPTION:  
 HDMI SHIELDED TWISTED PAIR CABLE ASSY

DWG. NO.  
**HPSTP-XX-XXXX-XX-XX**

BY: John Riley 2/23/2006 SHEET 1 OF 7

FIG. 2 HPSTP-29-XXXX-S-S SHOWN

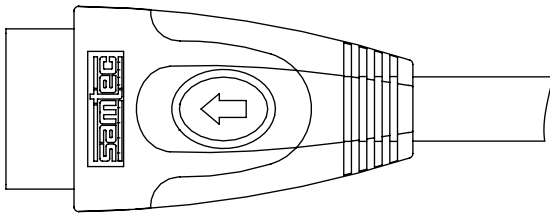
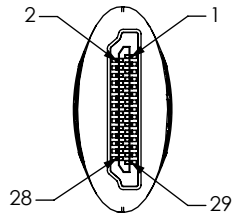
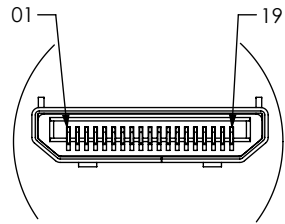
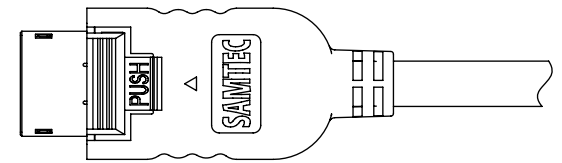
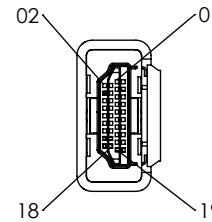


FIG. 3 HPSTP-19-XXXX-SL-SL SHOWN



DETAIL 'A'

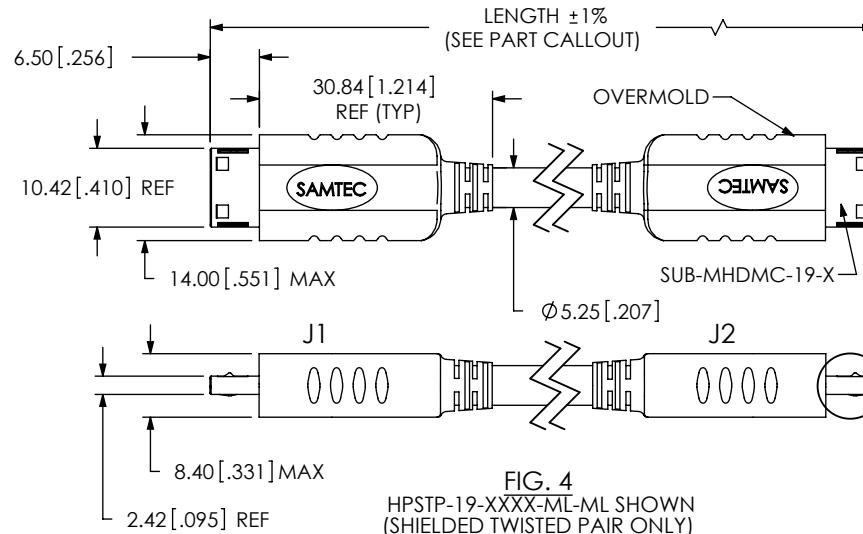
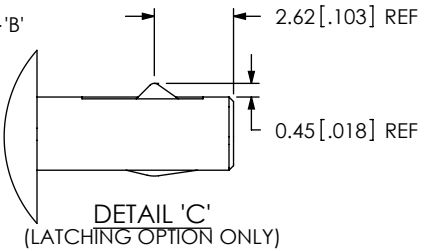
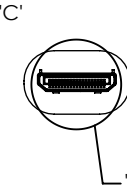
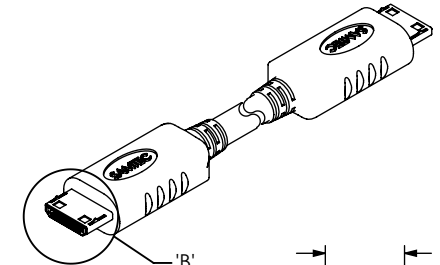
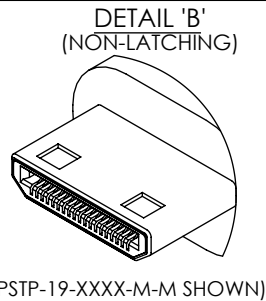


FIG. 4  
HPSTP-19-XXXX-ML-ML SHOWN  
(SHIELDED TWISTED PAIR ONLY)

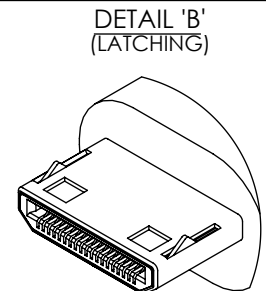


-19 TABLE 2 M-M, ML-ML

PIN OUT		MINI			
J1 PIN POSITION	WIRE LABEL	J2 PIN POSITION	#	ALUMNUM MYLAR WRAP	INDIVIDUAL WIRE COLOR
1	TMDS DATA 2 SHIELD	1	PAIR 1	HOT PINK	Drain Wire
2	TMDS DATA 2 +	2			Pink
3	TMDS DATA 2 -	3			White
4	TMDS DATA 1 SHIELD	4	PAIR 2	GREEN	Drain Wire
5	TMDS DATA 1 +	5			Pink
6	TMDS DATA 1 -	6			White
7	TMDS DATA 0 SHIELD	7	PAIR 3	BLUE	Drain Wire
8	TMDS DATA 0 +	8			Pink
9	TMDS DATA 0 -	9			White
10	TMDS CLOCK SHIELD	10	PAIR 4	BROWN	Drain Wire
11	TMDS CLOCK +	11			Pink
12	TMDS CLOCK -	12			White
13	DDC/CEC/ GROUND	13	P	N/A	Grey
14	CEC	14	P	N/A	Pink
15	SCL	15	P	N/A	Orange
16	SDA	16	PR5	N/A	Yellow
17	RESERVED	17	P	N/A	Purple
18	+5V POWER	18	P	N/A	Red
19	HOT PLUG DETECT	19	P	N/A	White
SHELL	BRAIDED CABLE	SHELL			



(HPSTP-19-XXXX-M-M SHOWN)



(HPSTP-19-XXXX-ML-ML SHOWN)

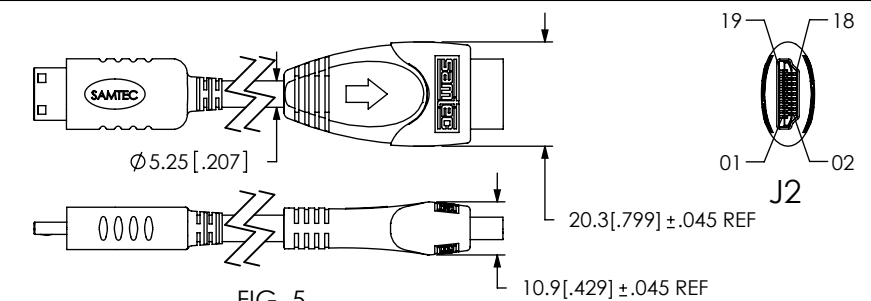


FIG. 5  
HPSTP-19-XXXX-M-S SHOWN  
(SAME AS FIG. 1 AND FIG. 4, DIFFERENT AS SHOWN)  
(SHIELDED TWISTED PAIR ONLY)

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DESCRIPTION:  
HDMI SHIELDED TWISTED PAIR CABLE ASSY

DWG. NO.  
HPSTP-XX-XXXX-XX-XX

BY: John Riley 2/23/2006 SHEET 2 OF 7

**-29 TABLE 3 S-S, SL-SL**

PIN OUT

J1 PIN POSITION	WIRE LABEL	J2 PIN POSITION	
1	TMDS DATA 2 +	1	PAIR 1
2	TMDS DATA 2 SHIELD	2	
3	TMDS DATA 2 -	3	
4	TMDS DATA 1+	4	PAIR 2
5	TMDS DATA 1 SHIELD	5	
6	TMDS DATA 1 -	6	
7	TMDS DATA 0 +	7	PAIR 3
8	TMDS DATA 0 SHIELD	8	
9	TMDS DATA 0 -	9	
10	TMDS CLOCK +	10	PAIR 4
11	TMDS CLOCK SHIELD	11	
12	TMDS CLOCK -	12	
13	TMDS DATA 5+	13	PAIR 5
14	TMDS DATA 5 SHIELD	14	
15	TMDS DATA 5-	15	
16	TMDS DATA 4+	16	PAIR 6
17	TMDS DATA 4 SHIELD	17	
18	TMDS DATA 4-	18	
19	TMDS DATA 3+	19	PAIR 7
20	TMDS DATA 3 SHIELD	20	
21	TMDS DATA 3-	21	
22	CEC	22	P
23	RESERVED	23	P
24	RESERVED	24	P
25	SCL	25	
26	SDA	26	
27	DDC/CEC GROUND	27	
28	+ 5V POWER	28	
29	HOT PLUG DETECT	29	
SHELL	BRAIDED CABLE	SHELL	

**-19 TABLE 4 S-S, SL-SL**

PIN OUT

J1 PIN POSITION	WIRE LABEL	J2 PIN POSITION	
1	TMDS DATA 2 +	1	PAIR 1
2	TMDS DATA 2 SHIELD	2	
3	TMDS DATA 2 -	3	
4	TMDS DATA 1 +	4	PAIR 2
5	TMDS DATA 1 SHIELD	5	
6	TMDS DATA 1 -	6	
7	TMDS DATA 0 +	7	PAIR 3
8	TMDS DATA 0 SHIELD	8	
9	TMDS DATA 0 -	9	
10	TMDS CLOCK +	10	PAIR 4
11	TMDS CLOCK SHIELD	11	
12	TMDS CLOCK -	12	
13	CEC	13	P
14	RESERVED	14	P
15	SCL	15	
16	SDA	16	
17	DDC/CEC GROUND	17	
18	+5V POWER	18	
19	HOT PLUG DETECT	19	
SHELL	BRAIDED CABLE	SHELL	

**-19 TABLE 5 M-S**

PIN OUT

J1 PIN POSITION	WIRE LABEL	J2 PIN POSITION	
1	TMDS DATA 2 SHIELD	2	PAIR 1
2	TMDS DATA 2 +	1	
3	TMDS DATA 2 -	3	
4	TMDS DATA 1 SHIELD	5	PAIR 2
5	TMDS DATA 1 +	4	
6	TMDS DATA 1 -	6	
7	TMDS DATA 0 SHIELD	8	PAIR 3
8	TMDS DATA 0 +	7	
9	TMDS DATA 0 -	9	
10	TMDS CLOCK SHIELD	11	PAIR 4
11	TMDS CLOCK +	10	
12	TMDS CLOCK -	12	
13	DDC/CEC/ GROUND	17	P
14	CEC	13	P
15	SCL	15	
16	SDA	16	
17	RESERVED	14	P
18	+5V POWER	18	P
19	HOT PLUG DETECT	19	P
SHELL	BRAIDED CABLE	SHELL	

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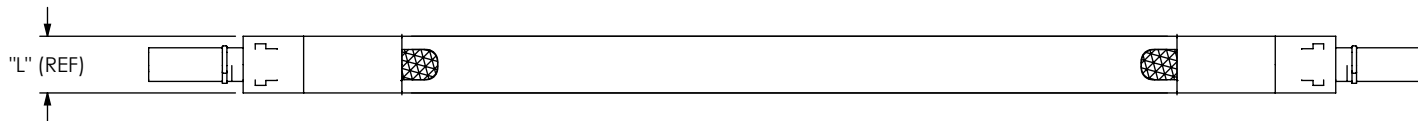
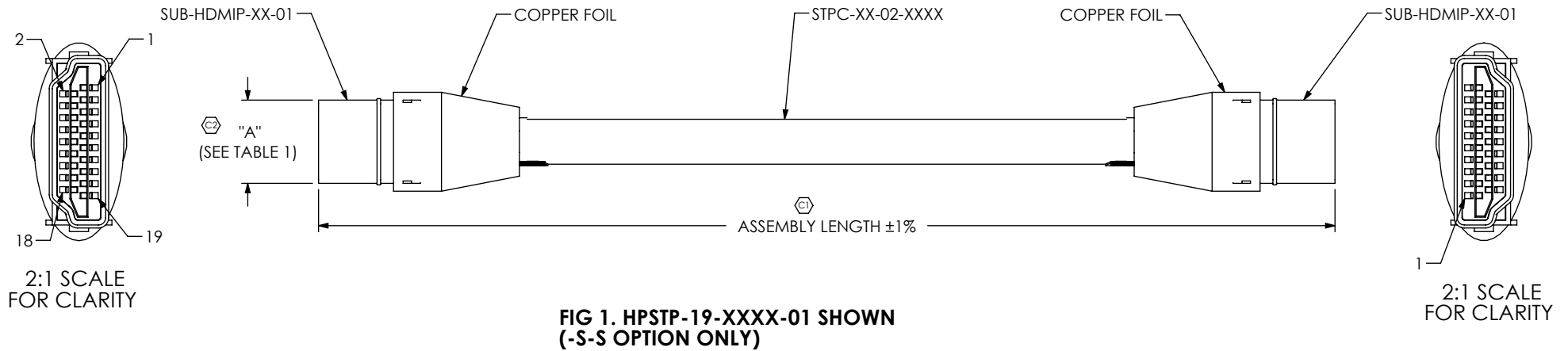


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DESCRIPTION:  
HDMI SHIELDED TWISTED PAIR CABLE ASSY

DWG. NO. HPSTP-XX-XXXX-XX-XX

BY: John Riley 2/23/2006 SHEET 3 OF 7



**TABLE 2**

POSITIONS	"G"		"H"		"J"		"K"		"L"		"M"	
-19	16.71	[0.658]	11.50	[0.453]	13.00	[0.512]	21.20	[0.835]	7.70	[0.303]	1.53	[0.060]
-19-L	16.71	[0.658]	11.50	[0.453]	13.00	[0.512]	21.20	[0.835]	7.70	[0.303]	1.53	[0.060]
-29	23.40	[0.921]	15.80	[0.622]	20.00	[0.787]	27.50	[1.083]	9.25	[0.364]	2.15	[0.085]

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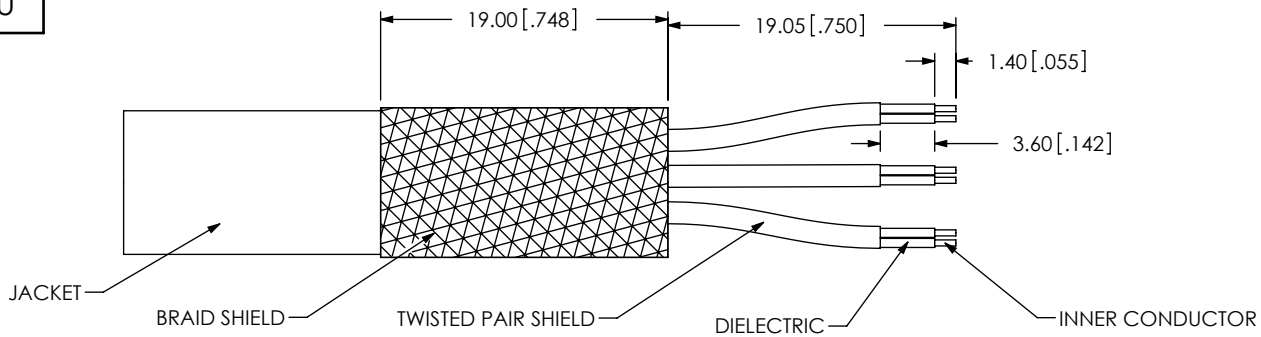


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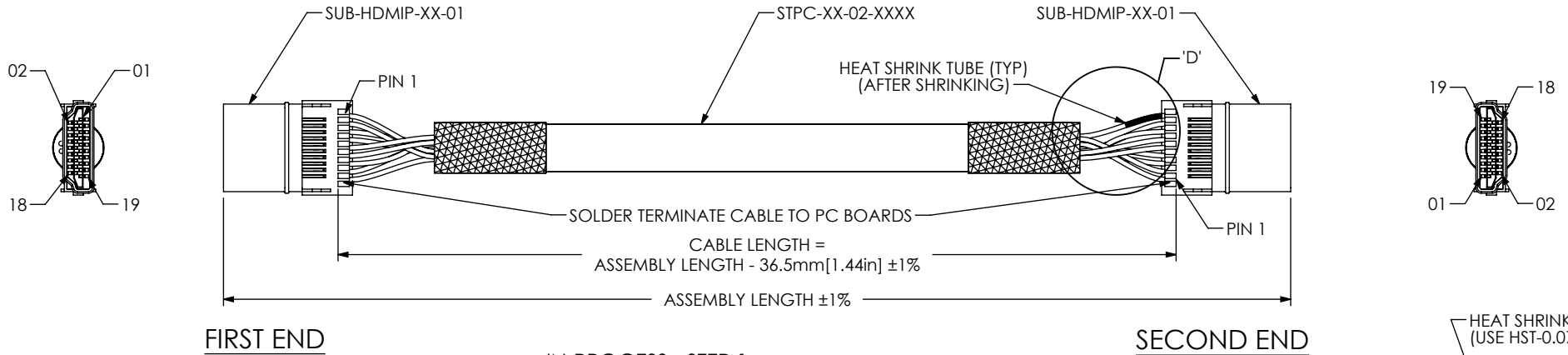
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 HDMI SHIELDED TWISTED PAIR CABLE ASSY

DWG. NO.  
 HPSTP-XX-XXXX-XX-XX

BY: John Riley 2/23/2006 SHEET 4 OF 7



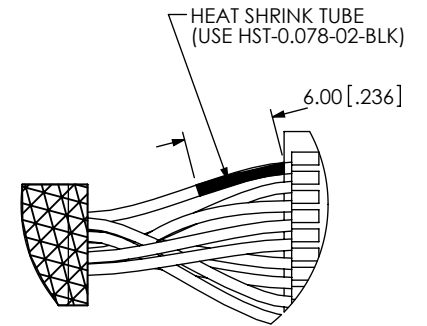
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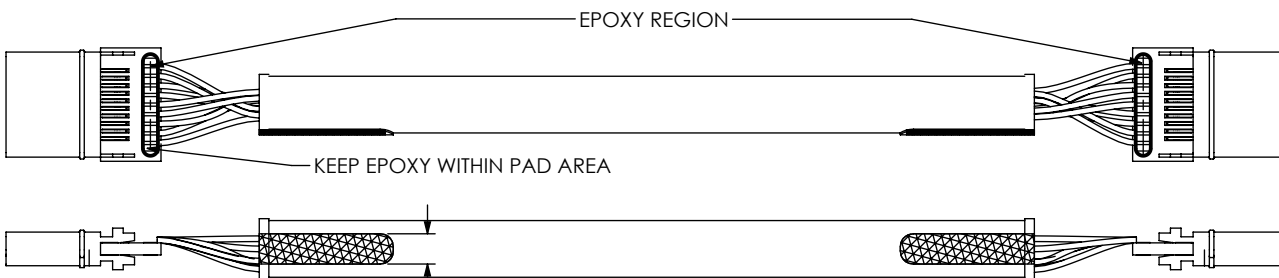
FIRST END

SECOND END

**IN-PROCESS - STEP 1**  
 (HPSTP-19-XXXX-S-S SHOWN)  
 A) SLIDE 6MM HEAT SHRINK TUBE OVER PAIRS AND CONDUCTORS  
 B) SOLDER CABLE TO PCB  
 C) PUSH H/S TUBE UP TO PCB AND ACTIVATE (SEE DETAIL)



HEAT SHRINK DETAIL  
 DETAIL 'D'  
 SCALE 2:1



4.00 [.157]

**IN-PROCESS - STEP 2**  
 (HPSTP-19-XXXX-S-S SHOWN)

A) APPLY EPOXY  
 B) TRIM BRAID TO 4MM WIDE TAILS ON THIS SIDE ONLY  
 (DO NOT TRIM LENGTH)

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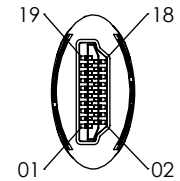
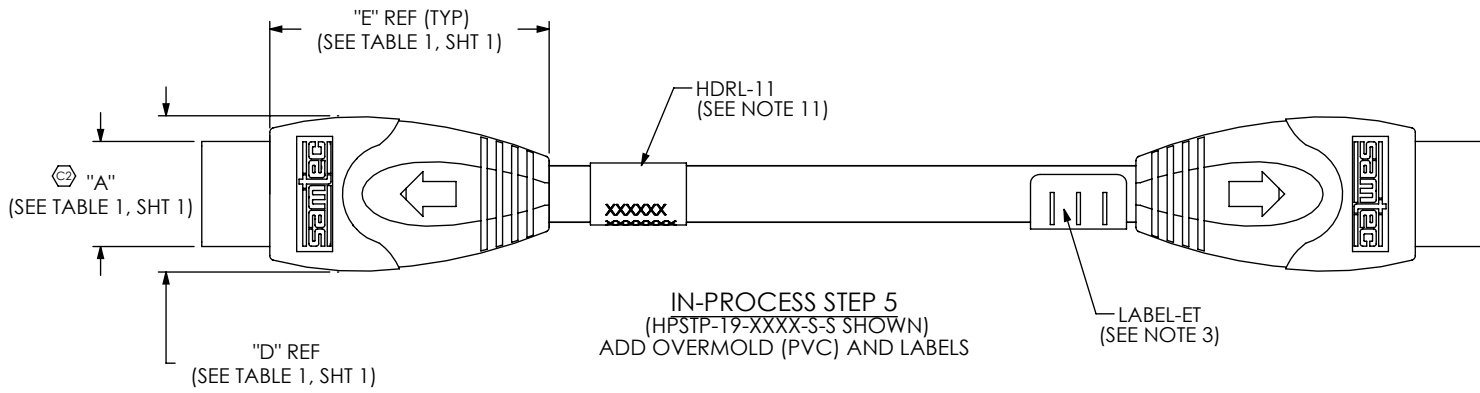
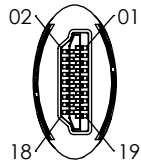
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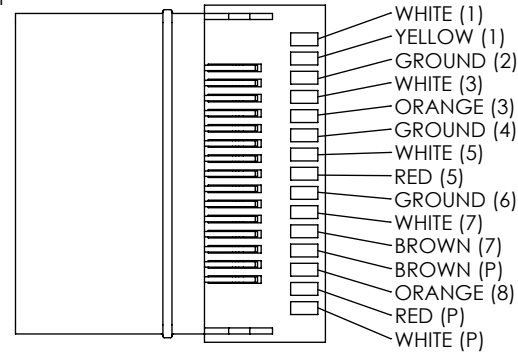
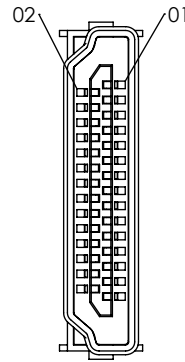
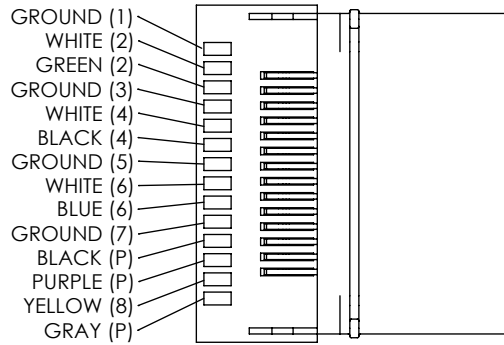
DWG. NO.  
**HPSTP-XX-XXXX-XX-XX**

BY: John Riley 11/7/07 SHEET 5 OF 7



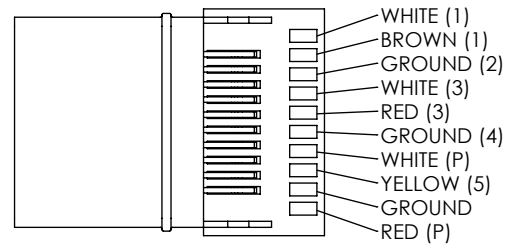
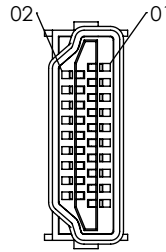
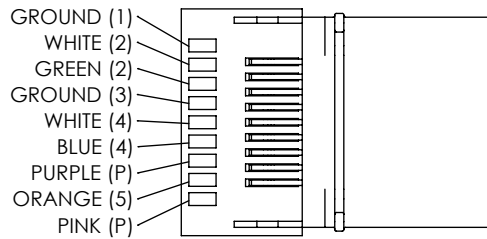


IN-PROCESS STEP 5  
(HPSTP-T9-XXXX-S-S SHOWN)  
ADD OVERMOLD (PVC) AND LABELS



HPSTP-29-XXXX-S-S SHOWN

(P) = POWER  
(X) = PAIR NUMBER



HPSTP-19-XXXX-S-S SHOWN

(P) = POWER  
(X) = PAIR NUMBER

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DO NOT SCALE DRAWING

DESCRIPTION:  
CUSTOM HDR CABLE ASSEMBLY

DWG. NO.

HPSTP-XX-XXXX-XX-XX

SHEET SCALE: 1:2

BY: John Riley 2/23/2006 SHEET 7 OF 7