

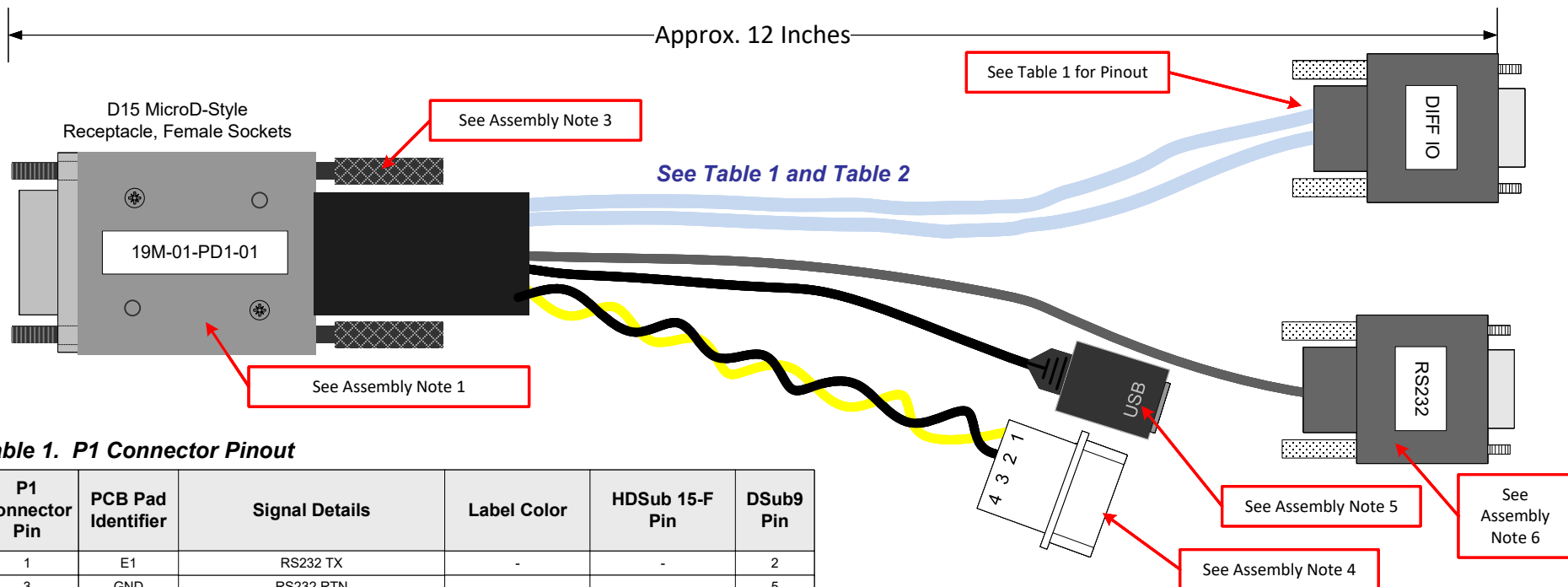


Table 1. P1 Connector Pinout

P1 Connector Pin	PCB Pad Identifier	Signal Details	Label Color	HDSUB 15-F Pin	DSUB9 Pin
1	E1	RS232 TX	-	-	2
3	GND	RS232 RTN	-	-	5
9	E9	RS232 RX	-	-	3
4	E4	DAT-/DATI+	-	1	-
11	E11	DATI-	-	11	-
5	E5	CLKI/CLKI+	-	5	-
12	E12	CLKI-	-	15	-
6	E6	CLKQ/DISC1	-	-	-
13	E13	DATQ/DISC2	-	-	-
2	E2	USB Communications (D+) GRN	-	-	-
10	E10	USB Communications (D-) WHT	-	-	-
-	GND	USB Communications Shield	-	6-10	-
8	PWR	9-42VDC Input Supply	(YEL 16AWG)	-	-
15					
7	GND	9-42VDC Input Return	(BLK 16AWG)	-	-
14					

Table 2. Assembly BOM

Description	Qty	Manufacturers PN	Manufacturer
Micro-DSub Aluminum Backshell	2	MEC-28M-01-303-02	Lumistar
MDM 15-pin Female Connector	1	CONN-380-015-213L001	NorComp
MDM 15-pin Female Backshell PCB	1	HARM-3419M0120101	Lumistar
UNC2-56 Thumbscrews	2	NTEC-B71014305	Northern Technologies
HD15 Female Connector, Solder Cup	1	CONN-180-015-203L001	NorComp
Heat-shrink Tubing	AR	(Common Stock)	(Various)
0-80 82-Degree Stainless Steel Screw, Flathead, 0.3125 Length	4	(Common Stock)	(Various)
D9 Female Connector, Solder Cup	1	CONN-171-009-203L001	NorComp
Backshell Kit w/Thumbscrews	2	CONN-973-009-10R011	NorComp
USB-B Receptacle Pigtail, 254mm.	1	MAND-6845548	Mandyman
1 Ft. 26AWG TSP, Audio Cable	1	CABL-9180-060	Belden
PC Peripheral Pwr Con., 4pos	1	CONN-1-480426-0	Tyco
PC Peripheral Pwr Con., Male pin	2	CONN-DMC-01B	Adam Tech

Assembly Notes:

- 1.) Place connector identification label containing "P1" on the key side at this location. On the bottom cover place cable assembly number. Omit the CBL- portion of the assembly number due to size constraints.
- 2.) Place pigtail identification labels with shown text and colors from table 1 at the locations shown and cover with clear heat shrink.
- 3.) Remove plastic thumbscrew covers prior to assembly.
- 4.) Twist AWG16 power cables prior to assembly.
- 5.) Modify MAND-6845548 assembly to provide connection as shown.
- 6.) For the RS232 cable, utilize the 9180-060 Belden TSP.

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Title:
LS-19M P01 Cable Assembly - Differential

Size A	Document Number: CBL-19M-01-PD1-01	REV -
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