



**Table 1. P11 Connector Pinout**

P11 Connector Pin	PCB Pad Identifier	Signal Details	Label Color	Label Text	HD15-F Connector Pin
12	E12	Combined I Clock Output	VIO	Comb ICLK OUT (12)	-
11	E11	Combined I Data Output	VIO	Comb IDAT OUT (11)	-
10	E10	Combined Q Clock Output	GRY	Comb QCLK OUT (10)	-
9	E9	Combined Q Data Output	GRY	Comb QDAT OUT (9)	-
8	E8	Combined I Clock (+) Output	-	-	1
7	E7	Combined I Clock (-) Output	-	-	11
6	E6	Combined I Data (+) Output	-	-	2
19	E19	Combined I Data (-) Output	-	-	12
5	E5	Combined Q Clock (+) Output	-	-	4
4	E4	Combined Q Clock (-) Output	-	-	14
3	E3	Combined Q Data (+) Output	-	-	5
2	E2	Combined Q Data (-) Output	-	-	15
13	E13	9-42VDC Input Supply	YEL 16AWG	-	-
24		9-42VDC Input Supply			
25		9-42VDC Input Supply			
1	E1	9-42VDC Input Return	BLK 16AWG	-	-
14		9-42VDC Input Return			
15		9-42VDC Input Return			
16	E16	External Power Down, Active Low	ORG	EXTRN PWRDN_L	-
17, 18, 20, 21, 22, 23	--	Ground	-	-	-

**Table 2. Assembly BOM**

Description	Qty	Manufacturers PN	Manufacturer
MDM Male Aluminum Backshell	2	MEC-28M-01-302-02	Lumistar
MDM 25-pin Male Connector	1	CONN-380-025-113L001	NorComp
MDM 25-pin Male Backshell PCB	1	HARM-3428M0141101	Lumistar
UNC2-56 Thumbscrews	2	NTEC-B71014305	Northern Technologies
BNC Female RG174 Pigtail, 12"	5	LCOM-SP7363	LCOM
Heat-shrink Tubing	AR	(Common Stock)	(Various)
0-80 82-Degree Stainless Steel Screw, Flathead, 0.3125 Length	4	(Common Stock)	(Various)
HD15 Female Connector, Solder Cup	1	CONN-180-015-203L001	NorComp
HD15 Backshell Kit w/Thumbscrews	1	CONN-973-009-10R011	NorComp
1 Ft. Twisted-Shielded Pair, 26AWG, 110 Ohm	4	CABL-55A1121-26-6/9-9	TE/Raychem
PC Peripheral Pwr Con., 4pos	1	CONN-1-480426-0	Tyco
PC Peripheral Pwr Con., Male pin	2	CONN-DMC-01B	Adam Tech
1 Ft. 16AWG Cable, Stranded, BLK/YEL	1 ea	CABL-AWG16 STRD	(Various)

**Assembly Notes:**

- Place connector identification label containing "P11" on the key side at this location. On the bottom cover place cable assembly number. You may omit the CBL- portion of the assembly number due to size constraints.
- Place pigtail identification labels with shown text and colors from table 1 at the locations shown and cover with clear heat shrink.
- Bundle twisted-shielded pair cables at approximate 4" intervals to keep cables together.
- Remove plastic thumbscrew covers prior to assembly.
- Table 2 provides assembly component Bill of Materials.
- Label HD15 Backshell as shown.
- Connect yellow 16AWG power wire to pin 1 and black 16AWG wire to pin 2 as shown.

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Title:  
**LS-28-M P11 Cable Assembly**

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