



D-Style Connector Pin/Contact No.	Label Text/Color	Pigtail Type	Signal Details
1	P(+)/RXD Serial Interface	DE9-1 (*)	Serial Control Interface - Primary
2	S(+) Serial Interface	DE9-2 (*)	Serial Control Interface - Secondary
3	PRN Output	-	-
4	DATA	Twinax - Pin 2	RS422 (-)
5	DATA	Twinax - Pin 1	RS422 (+)
6	CLK	Twinax - Pin 2	RS422 (-)
7	CLK	Twinax - Pin 1	RS422 (+)
8	(Spare)	-	-
9	(Spare)	-	-
10	PCM SE Input 2	-	-
11	PCMIN	BNC-F	Analog PCM Input
12	DIFF(-) Input	-	-
13	DIFF(+) Input	-	-
14	+12V Power Input	PCPWRPlug-M	12V PC Power Plug - Yellow Wire
15	+5V Power Input	PCPWRPlug-M	5V PC Power Plug - Red Wire
16-30	Ground	-	-
31	P(-)/TXD Serial Interface	DE9-1 (*)	Serial Control Interface - Primary
32	S(-) Serial Interface	DE9-2 (*)	Serial Control Interface - Secondary
33	(Spare)	-	-
34	(Spare)	-	-
35	(Spare)	-	-
36	TAPE	Twinax - Pin 1	RS422 (+)
37	TAPE	Twinax - Pin 2	RS422 (-)
38	PCM Analog Out	-	Analog PCM Output (Variable Level)
39	Discrete Output (DISC3)	-	Bit Sync Frame Sync Lock
40	Discrete Output (DISC2)	-	Bit Sync Es/No Signal Quality
41	Discrete Output (DISC1)	-	Bit Sync PLL Lock
42	Discrete Output (DISC0)	-	Bit Sync PCM Input Threshold
43	+12V Power Input	PCPWRPlug-M	12V PC Power Plug - Yellow Wire
44	+5V Power Input	PCPWRPlug-M	5V PC Power Plug - Red Wire

(*) - See Tables for pin-out information

DE9-1

HD44 Connector Pin/Contact No.	Signal Name	DE9-1 Pin No.
1	P(+)/RXD Serial Interface	3
31	P(-)/TXD Serial Interface	2
16-30	GND	5

DE9-2

HD44 Connector Pin/Contact No.	Signal Name	DE9-2 Pin No.
2	S(+) Serial Interface	3
32	S(-) Serial Interface	2
16-30	GND	5

Assembly Notes:

- 1.) Apply signal labels near connector end of cable pigtails and secure with clear heat shrink.
- 2.) Signal cable pigtails to be constructed from RG-174, approximately 12" in length.
- 3.) All differential signal cable pigtails to be constructed from Twinax Cable with 22ga conductors (Mil Spec P/N M17/176-00002), approximately 12" in length.
- 4.) Serial cables to be constructed of 36" of flexible jacketed, multi-conductor, stranded cable.
- 5.) Label HD44 back-shell with C40B0001 part number.
- 6.) Label DE9 Female back-shell with "SER PRI" label.
- 7.) Label DE9 Male back-shell with "SER SEC" label.
- 8.) Use PC Power Extension Plug - Male

Lumistar Inc 5870 Loker Ave West Carlsbad, CA 92008 (760) 431-2181		
Title: LS40B Interface Cable Assembly Drawing		
Size A	Document Number: C40B0001T	REV A
Date: 18 Dec 2008		Sheet 1 of 1