DNA-CBL-LAN   **Revision 002**

37-pin 38999 plug to 2x RJ45 and one DB9F, 2x USB-A and one DNA-SYNC cable

J1	38999M	D38999/26FD35PN
J2,J3	8P8C, shielded (RJ47)	5-569532-2 (or similar)
J4	9-pin receptacle (DB9F)	1658654-1 (use hex nuts instead of thumb screws)
J5,J6	4-pin USB-A receptacle	1002-021-01000
J7	10P10C, shielded (RJ50)	937-SP-361010-A161

Pinout/twisted pair information

J1 | Notes

J2 - Ethernet Port 1 (use shielded CAT5e/6e)
1	J2.1
18	J2.2
2	J2.3
19	J2.4
3	J2.5
20	J2.6
4	J2.7
21	J2.8
5	J2.Shield

J3 - Ethernet Port 2 (use shielded CAT5e/6e)
6	J3.1
22	J3.2
7	J3.3
23	J3.4
8	J3.5
24	J3.6
9	J3.7
25	J3.8
10	J3.Shield

J4.DB9 SERIAL PORT/RESET (use 2466C SL005 or similar cable, also can use same cable as for J5/J6)
11	J4.4 (Misc In)
26	J4.9 (Misc Out)
31	J4.2 (RS232 TX, WHITE wire)
32	J4.3 (RS232 RX, RED wire)
33	J4.5 (RS232 GND, BLACK and GREEN wires)
Shield	Shield

J5 USB-A (use standard USB-graded cable with 20AWG power wires)
12	J5.1 (USB P+)
27	J5.4 (USB P-)
13	J5.3 (USB D+)
28	J5.2 (USB D-)
Shield	Shield

J6 USB-A (use standard USB-graded cable with 20AWG power wires)
14	J6.1 (USB P+)
15	J6.4 (USB P-)
16	J6.3 (USB D+)
17	J6.2 (USB D-)
Shield	Shield

J7 (DNA-SYNC RJ connector)
29	J7.4 (Clock Out)
30	J7.10 (Trig Out)
34	J7.2 (Clock In)
35	J7.1 (Trig In)
36	J7.8, J7.9 (SYNC +5V)
37	J7.3, J7.5, J7.6, J7.7 (SYNC Gnd), also J4.6
Shield	Shield
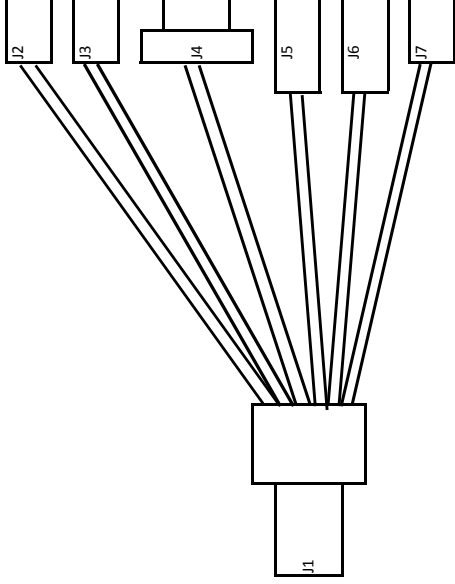
Revision control

Date	Revision	Autor	Notes
8/19/2013	1	DK	Initial revision
11/10/2013	2	DK	J4.4 wired to J1.11, J4.9 wired to J1.26
			J4.6 wired to J1.37, NIC1/NIC2 labels swapped
			Label requirements updated

Note:

1. Full p/n is **DNA-CBL-LAN-x**
   where **x** is length of the cable in feet (standard length is 6ft)
2. Alternative connectors with the same footprint and specification can be used
3. Unused pins on D38999 connector may be left unpopulated
4. J1, J4, J5, J6 should be overmolded, preferred color of the cable and connectors - black
5. J2 and J3 should be labeled "J2 (NIC2)" and "J3 (NIC1)"
   J5 and J6 should be labeled "J5 (USB1)" and "J6 (USB2)"
6. Labels should be applied 2" from the connector they are referring to

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Design Engineer				Revision
Dennis L. Kraplin	PowerDNA D38999 8D15-35P to LAN/RS232/USB/SYNC splitter			2
	UEI p/n			
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