

60-way High Density to DVI-I, DVI-D, USB1, USB 2 and RS232, splitter cable

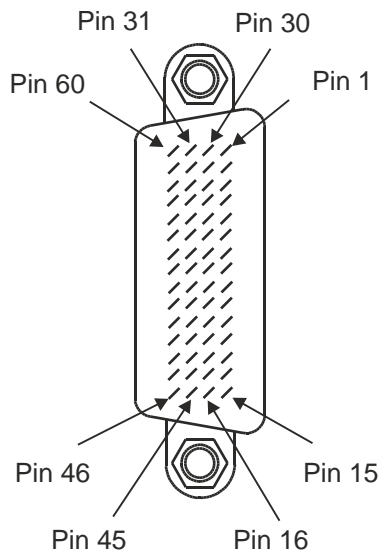


APPLICATIONS

The CB 60D/125-00 Concurrent Technologies five-way splitter cable provides a high quality screened interconnectivity solution for a range of single board computers. This cable allows interconnectivity between the onboard 60-way LFH high density connector and DVI-I, DVI-D, serial and two USB connectors.

HIGHLIGHTS

- The five-way splitter I/O connectors consist of:
 - 60-way LFH HD Male I/O
 - VGA (29-way Female DVI-I)
 - VGA (24-way Female DVI-D)
 - Serial (9-way Male D-Type)
 - 1st USB (4-way type-A socket)
 - 2nd USB (4-way type-A socket)
 - Length = 300mm (approx)
- Supports N, E, and K-Series extended operation temperatures, where:
 - N-Series: 0°C to +55°C
 - E-Series: -25°C to +70°C
 - K-Series: -40°C to +85°C
- The cable is designed to meet the EMC requirements for:
 - Radiated Emissions (EN55022)
 - Radiated Immunity (EN61000-4-3)



60-way I/O

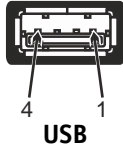
Part Number:
Molex® (0709292000) or equivalent

Pin	Function	Pin	Function	Pin	Function	Pin	Function
60	DVI-I Green GND	31	DVI-I TMDS CK+	30	DVI-I TMDS D0-	1	DVI-I Red GND
59	DVI-I Green	32	DVI-I TMDS CK-	29	DVI-I TMDS D0+	2	DVI-I Red
58	Output Enable	33	DVI-I TMDS D0 GND	28	DVI-I TMDS D1-	3	DVI-I Blue GND
57	DVI-I TMDS CK GND	34	DVI-I TMDS D1 GND	27	DVI-I TMDS D1+	4	DVI-I Blue
56	DVI-I H Sync	35	DVI-I TMDS D2 GND	26	DVI-I TMDS D2-	5	DVI-I +5V Power
55	DVI-I V Sync	36	DVI-I Hot Plug Detect	25	DVI-I TMDS D2+	6	DVI-I DDC Clock
54	DVI-I GND	37	Serial RTS	24	Serial DCD	7	DVI-I DDC Data
53	Serial DSR	38	Serial CTS	23	Serial DTR	8	DVI-D/Serial GND
52	USB 1 GND	39	Serial TxD	22	Serial RxD	9	DVI-D DDC Data
51	USB 1 +5V Power	40	DVI-D Hot Plug Detect	21	DVI-D TMDS D2-	10	DVI-D DDC Clock
50	Serial RI	41	DVI-D TMDS D2 GND	20	DVI-D TMDS D2+	11	DVI-D +5V Power
49	DVI-D TMDS CK GND	42	DVI-D TMDS D1 GND	19	DVI-D TMDS D1-	12	USB 1 Data +
48	nc	43	DVI-D TMDS D0 GND	18	DVI-D TMDS D1+	13	USB 1 Data -
47	USB 2 +5V Power	44	DVI-D TMDS CK-	17	DVI-D TMDS D0-	14	USB 2 Data +
46	USB 2 GND	45	DVI-D TMDS CK+	16	DVI-D TMDS D0+	15	USB 2 Data -

Note: For correct operation it is essential to include a loopback, which is connected between pin 54 (DVI-I GND) and pin 58 (Output Enable) at the 60-way LFH HD connector end.

nc = not connected

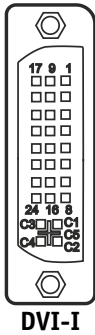
Cable Wiring Details



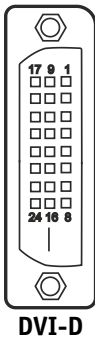
Pin	Function	Pin	Function	Pin	Function	Pin	Function
4	GND	3	Data +	2	Data -	1	+ 5V Power



Pin	Function	Pin	Function	Pin	Function	Pin	Function	Pin	Function
1	DCD	2	RxD	3	TxD	4	DTR	5	GND
6	DSR	7	RTS	8	CTS	9	RI	-	-



Pin	Function	Pin	Function	Pin	Function
17	TMDS D0-	9	TMDS D1 -	1	TMDS D2 -
18	TMDS D0+	10	TMDS D1 +	2	TMDS D2 +
19	TMDS D0 GND	11	TMDS D1 GND	3	TMDS D2 GND
20	nc	12	nc	4	nc
21	nc	13	nc	5	nc
22	TMDS CK GND	14	+ 5V Power	6	DDC Clock
23	TMDS CK +	15	GND	7	DDC Data
24	TMDS CK-	16	Hot Plug Detect	8	V Sync
C3	Blue			C1	Red
-	-	C5	Red, Green and Blue GND	-	-
C4	H Sync			C2	Green



Pin	Function	Pin	Function	Pin	Function
17	TMDS D0-	9	TMDS D1 -	1	TMDS D2 -
18	TMDS D0+	10	TMDS D1 +	2	TMDS D2 +
19	TMDS D0 GND	11	TMDS D1 GND	3	TMDS D2 GND
20	nc	12	nc	4	nc
21	nc	13	nc	5	nc
22	TMDS CK GND	14	+ 5V Power	6	DDC Clock
23	TMDS CK +	15	GND	7	DDC Data
24	TMDS CK-	16	Hot Plug Detect	8	nc

Note: Each of the connector shells and cable screens are connected to the 60-way HD connector shell.

nc = not connected

ORDERING INFORMATION

Order Number: CB 60D/125-00 **Product Description** 60-way High Density to DVI-I, DVI-D, RS232, USB 1 and USB 2 splitter cable