

3M™ .050" Mini D Ribbon (MDR) Cable Assembly

High Speed Digital Data Transmission System, 50 Position

14B50-EZBB-XXX-0LC



- Supports LVDS Channel Link™ signaling
- Ideal for high speed switch backplanes
- 20 shielded pairs (100 ohm) +6 grounds for high bandwidth applications
- High density 50 pos. MDR with rugged ribbon type contact
- Thumbscrew shell for positive retention

Date Modified: September 26, 2005

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Physical

Connector Contact Plating

Wiping Area: 30μ" [0.76μm] Min. Gold

Shell

Color: Parchment/Beige

Material: Polyester Elastomer

Cable

Color: Parchment/Beige

Jacket Material: Polyvinyl Chloride (PVC)

Flammability: AWM VW-1

Electrical

Voltage Rating: 30 V

Current Rating: 1 A

Insulation Resistance: $> 1 \times 10^8 \Omega$ at @100 Vdc

Withstanding Voltage: 350 Vrms for 1 minute

Individually Shielded Twisted Pairs

Characteristic Impedance: $100 \pm 10 \Omega$

Conductor Size: 28 AWG Stranded

Propagation Velocity: 1.25 ns/ft [4.1 ns/m]

Environmental

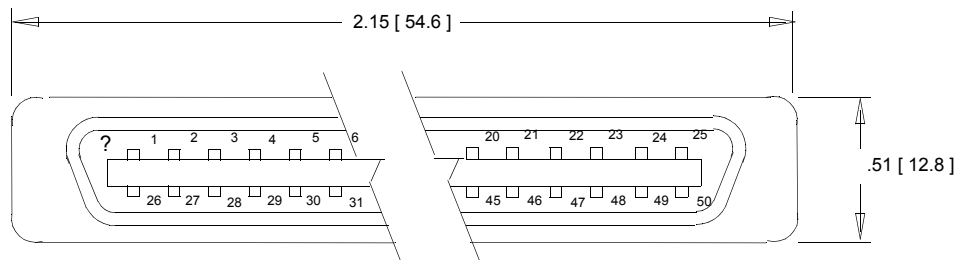
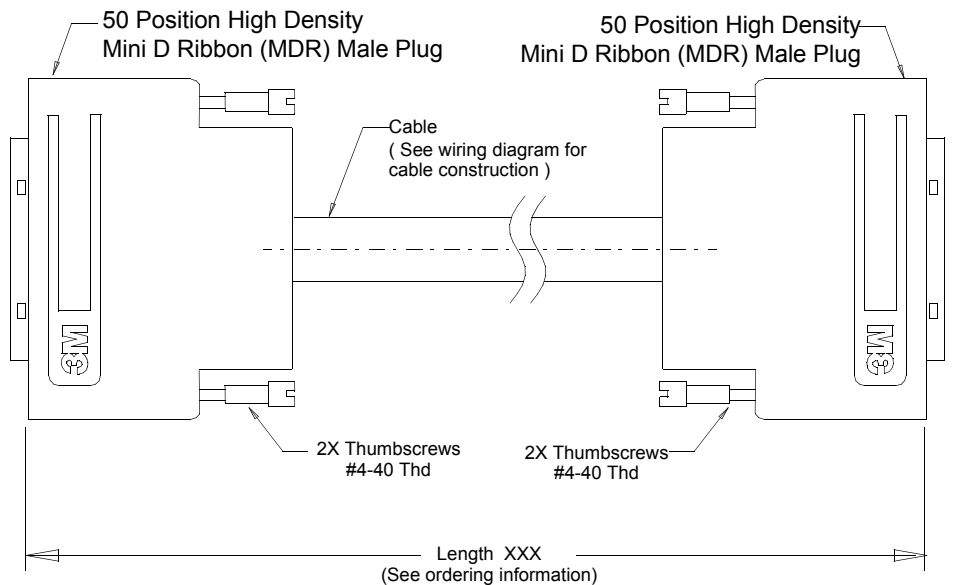
Temperature Rating: -20°C to +75°C

UL File No.: UL File No.: E86982

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**MDR 50 Position
Plug
(Both Ends)**



Inch
[mm]

Tolerance Unless Noted			
	.0	.00	.000
Inch	± .1	± .01	± .005

[] Dimensions for Reference only

Note: Use jacksocket kit #3341-30 for mounting receptacle to panel.

Ordering Information

14B50-EZBB-XXX-0LC

Assembly Length:
200 = 2.0 meters
300 = 3.0 meters
500 = 5.0 meters

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3M™ .050" Mini D Ribbon (MDR) Cable Assembly

High Speed Digital Data Transmission System, 50 Position

14B50-EZBB-XXX-0LC

MDR 50 Position, Pinout (C50-1) 3M Cable Version 22.0

P1 End						P2 End					
Pair	Signal	Position	Position	Signal	Pair	Pair	Signal	Position	Position	Signal	Pair
1	A0-	1	26	drain 1		20	B0-	1	26	drain 6	
1	A0+	2	27	A1-	2	20	B0+	2	27	B1-	19
3	A2-	3	28	A1+	2	18	B2-	3	28	B1+	19
3	A2+	4	29	AClk-	4	18	B2+	4	29	BClk-	17
	drain 2	5	30	AClk+	4		drain 5	5	30	BClk+	17
5	A3-	6	31	A4-	6	16	B3-	6	31	B4-	15
5	A3+	7	32	A4+	6	16	B3+	7	32	B4+	15
7	A5-	8	33	A6-	8	14	B5-	8	33	B6-	13
7	A5+	9	34	A6+	8	14	B5+	9	34	B6+	13
9	A7-	10	35	drain 3		12	B7-	10	35	drain 4	
9	A7+	11	36	N/C		12	B7+	11	36	N/C	
	N/C	12	37	ICMB+	10		N/C	12	37	ICMB+	10
11	Link A	13	38	ICMB-	10	11	Link B	13	38	ICMB-	10
11	Link B	14	39	N/C		11	Link A	14	39	N/C	
	N/C	15	40	B7+	12		N/C	15	40	A7+	9
	drain 4	16	41	B7-	12		drain 3	16	41	A7-	9
13	B6+	17	42	B5+	14	8	A6+	17	42	A5+	7
13	B6-	18	43	B5-	14	8	A6-	18	43	A5-	7
15	B4+	19	44	B3+	16	6	A4+	19	44	A3+	5
15	B4-	20	45	B3-	16	6	A4-	20	45	A3-	5
17	BClk+	21	46	drain 5		4	AClk+	21	46	drain 2	
17	BClk-	22	47	B2+	18	4	AClk-	22	47	A2+	3
19	B1+	23	48	B2-	18	2	A1+	23	48	A2-	3
19	B1-	24	49	B0+	20	2	A1-	24	49	A0+	1
	drain 6	25	50	B0-	20		drain 1	25	50	A0-	1

Notes:

1. All pairs are individually shielded with aluminum foil.
2. Pair shields are wrapped Aluminum out and in contact with six internal drains (logic ground).
3. Outer braid and foil (chassis ground) are isolated from inner drains (logic ground).

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Interconnect Solutions

<http://www.3M.com/interconnects/>

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