.050" High Speed Video Data Transmission System, 50 Position

14X50-SZWB-XXX-0NC



- Supports LVDS Channel Link™ signaling
- 20 shielded pairs (100 ohm) +4 drains for high bandwidth applications
- High density 50 position MDR with rugged ribbon type contact
- 3 Unshielded Twisted 28 AWG Pairs
- EMI shielded junction shell in either plastic or over-molded construction
- Rugged thumbscrew retention
- RoHS\* compliant

Date Modified: May 12, 2006

TS-2103-03 Sheet 1 of 4

#### **Physical**

**Connector Contact Plating** 

Wiping Area: 30μ" [ 0.76μm ] Min. Gold

Shell

Color: Beige

Material: Acrylonitrile Butadiene Styrene (ABS)

Cable

Color: 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:**  $-20^{\circ}\text{C}$  to  $+75^{\circ}\text{C}$ 

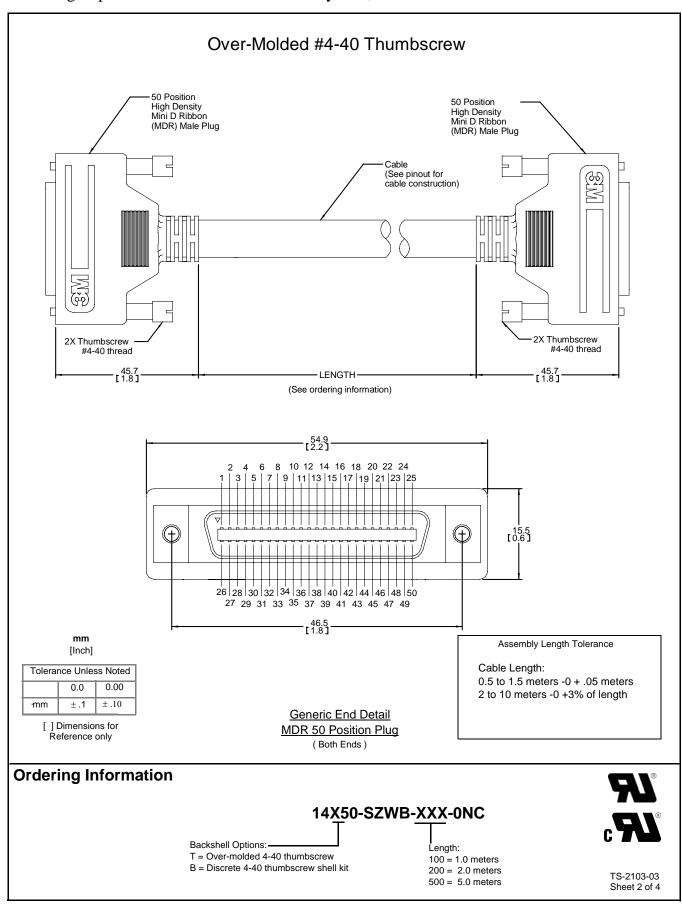
\*RoHS = Directive 2002/95/EC, Restriction of the Use of Certain Hazardous Substances in Electrical and Electronic Equipment "RoHS compliant" means that the product or part does not contain any of the following substances in excess of the following maximum concentration values in any homogeneous material, unless the substance is in an application that is exempt under RoHS: (a) 0.1% (by weight) for lead, mercury, hexavalent chromium, polybrominated biphenyls or prolybromianted diphenyl ethers; or (b) 0.01% (by weight) for cadmium. Unless otherwise stated by 3M in writing, this information represents 3M's knowledge and belief based upon information provided by third party suppliers to 3M.

UL File No.: E86982

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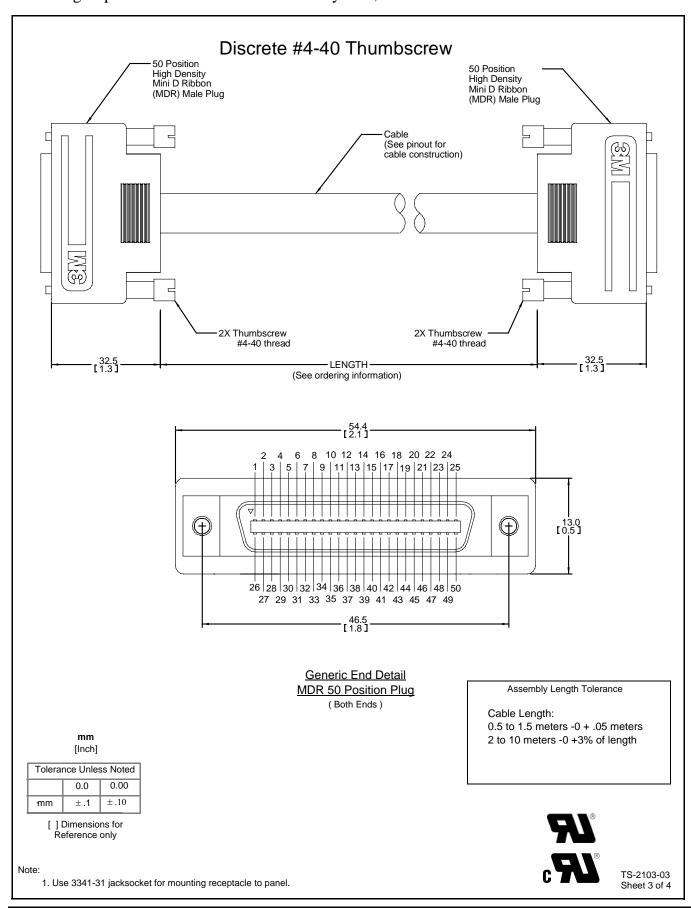
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800-225-5373

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MDR 50 Position Pinout (F50-13)															
P1								P2							
<u>Pair</u>	<u>Signal</u>	<u>Position</u>		<u>Position</u>	<u>Signal</u>	<u>Pair</u>		<u>Pair</u>	<u>Signal</u>	<u>Position</u>		<u>Position</u>	<u>Signal</u>	<u>Pair</u>	
1	A0M	1		38	DDC Gnd	TP2		1	A0M	1		38	DDC Gnd	TP2	
1	A0P	26		14	DDC SCL	TP2		1	A0P	26		14	DDC SCL	TP2	
2	A1M	2	ŀ	39	DDC SDA	TP3		2	A1M	2		39	DDC SDA	TP3	
2	A1P	27	ŀ	15	A8M	11		2	A1P	27		15	A8M	11	
3	A2M	3	ŀ	40	A8P	11		3	A2M	3		40	A8P	11	
3	A2P	28	Ī	16	A9M	12		3	A2P	28		16	A9M	12	
4	CLK1M	4	ŀ	41	A9P	12		4	CLK1M	4		41	A9P	12	
4	CLK1P	29	Ī	17	A10M	13		4	CLK1P	29		17	A10M	13	
5	A3M	5	Ī	42	A10P	13		5	A3M	5		42	A10P	13	
5	A3P	30	Ī	18	CLK3M	14		5	A3P	30		18	CLK3M	14	
N/A	Shield 1	6	Ī	43	CLK3P	14		N/A	Shield 1	6		43	CLK3P	14	
N/A	Shield 1	31	Ī	19	A11M	15		N/A	Shield 1	31		19	A11M	15	
6	A4M	7	Ī	44	A11P	15		6	A4M	7		44	A11P	15	
6	A4P	32	Ī	20	Shield 4	N/A		6	A4P	32		20	Shield 4	N/A	
7	A5M	8	Ī	45	Shield 3	N/A		7	A5M	8		45	Shield 3	N/A	
7	A5P	33	Ī	21	A12M	16		7	A5P	33		21	A12M	16	
8	A6M	9	Ī	46	A12P	16		8	A6M	9		46	A12P	16	
8	A6P	34	Ī	22	A13M	17		8	A6P	34		22	A13M	17	
9	A7M	10	Ī	47	A13P	17		9	A7M	10		47	A13P	17	
9	A7P	35	Ī	23	A14M	18		9	A7P	35		23	A14M	18	
10	CLK2M	11	Ī	48	A14P	18		10	CLK2M	11		48	A14P	18	
10	CLK2P	36	Ī	24	A15M	19		10	CLK2P	36		24	A15M	19	
TP1	twpr-	12	j	49	A15P	19		TP1	twpr-	12		49	A15P	19	
TP1	twpr+	37	Ī	25	CLK4M	20		TP1	twpr+	37		25	CLK4M	20	
TP3	DDC+5V	13		50	CLK4P	20		TP3	DDC+5V	13		50	CLK4P	20	

TS-2103-03 Sheet 4 of 4

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

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