

# 3M™ Mini D Ribbon (MDR) Cable Assembly

.050" High Speed Digital Data Transmission System, 100 Pos. 141A0-SZ5B-XXX-0DC



- 24 shielded quad pairs (96 cond.) plus 4 drains
- Solution for high speed datacom and telecom applications
- Each differential pair is shielded with foil and braid for additional signal protection
- Rugged MDR ribbon type contact
- Quick release latches
- RoHS\* compliant

Date Modified: October 11, 2005

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## Physical

### Connector Contact Plating

Wiping Area: 30  $\mu$ " [ 0.76  $\mu$ m ] Min. Gold

### Shell

Plating: Nickel

Material: Aluminum

### Cable

Color: Parchment/Beige

Jacket Material: Polyvinyl Chloride (PVC)

Flammability: AWM VW-1

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## Electrical

**Voltage Rating:** 30 V

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

**Withstanding Voltage:** 350 Vrms for 1 minute

**Current Rating:** 1 A

### Individually Shielded Balanced Quads

**Characteristic Impedance:**  $100 \pm 10 \Omega$

**Conductor Size:** 30 AWG

**Propagation Velocity:** 1.45 ns/ft [4.8 ns/m ]

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## Environmental

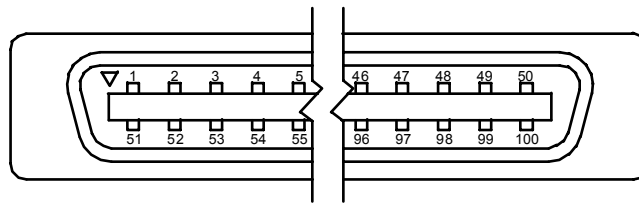
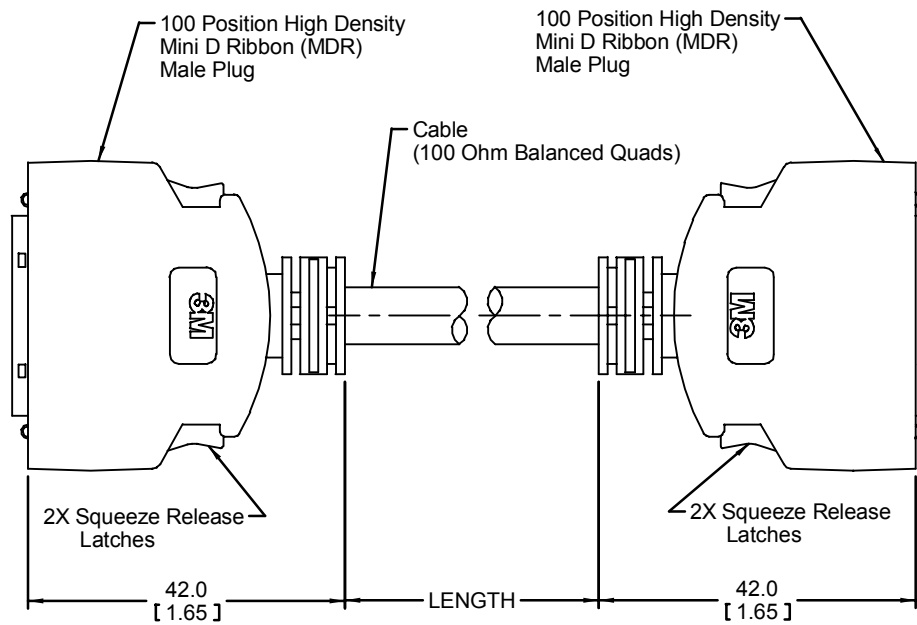
**Temperature Rating:** -20°C to +75°C

"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 polybrominated 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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MDR 100 Position Plug  
Both Ends

mm  
[Inch]

Tolerance Unless Noted		
	0.0	0.00
mm	±.1	±.10

[ ] Dimensions for Reference only



## Ordering Information

**141A0-SZ5B-XXX-0DC**

Length: \_\_\_\_\_  
300 = 3 meters  
500 = 5 meters

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# 3M™ Mini D Ribbon (MDR) Cable Assembly

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MDR 100 Position Pinout F100-1					
Quad	Signal	Pin #	Quad	Signal	Pin #
	LVDS GRND 1	1	2	25M	26
11	1M	51	2	26M	76
11	2M	2	2	25P	27
11	1P	52	2	26P	77
11	2P	3	7	27M	28
12	3M	53	7	28M	78
12	4M	4	7	27P	29
12	3P	54	7	28P	79
12	4P	5	8	29M	30
13	5M	55	8	30M	80
13	6M	6	8	29P	31
13	5P	56	8	30P	81
13	6P	7		LVDS GRND 3	32
14	7M	57	9	31M	82
14	8M	8	9	32M	33
14	7P	58	9	31P	83
14	8P	9	9	32P	34
15	9M	59	10	33M	84
15	10M	10	10	34M	35
15	9P	60	10	33P	85
15	10P	11	10	34P	36
16	11M	61	18	35M	86
16	12M	12	18	36M	37
16	11P	62	18	35P	87
16	12P	13	18	36P	38
17	13M	63	19	37M	88
17	14M	14	19	38M	39
17	13P	64	19	37P	89
17	14P	15	19	38P	40
	LVDS GRND 2	65	20	39M	90
3	15M	16	20	40M	41
3	16M	66	20	39P	91
3	15P	17	20	40P	42
3	16P	67	21	41M	92
4	17M	18	21	42M	43
4	18M	68	21	41P	93
4	17P	19	21	42P	44
4	18P	69	22	43M	94
5	19M	20	22	44M	45
5	20M	70	22	43P	95
5	19P	21	22	44P	46
5	20P	71	23	45M	96
6	21M	22	23	46M	47
6	22M	72	23	45P	97
6	21P	23	23	46P	48
6	22P	73	24	47M	98
1	23M	24	24	48M	49
1	24M	74	24	47P	99
1	23P	25	24	48P	50
1	24P	75		LVDS GRND 4	100

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*Minimum 10%  
Post-Consumer Fiber*

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