

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

.050" Right-Angle Digital Camera Cable – 26 position

14H26-SZ3X-XXX-03C



- Mates to popular 3M MDR 26 position receptacle
- For machine vision camera to frame grabber communications in applications where full CameraLink™ configuration is not necessary
- 3 shielded quads with drains and 5 unshielded twisted pairs
- Entire cable bundle shielded with foil and braid for additional signal protection
- Rugged MDR ribbon type contact for reliable, repeatable connectivity
- Rugged thumbscrew retention
- EMI shielded junction shell
- See Regulatory Information Appendix (RIA) for chemical compliance information

Date Modified: January 16, 2008

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## Physical

### Connector Contact Plating:

Wiping Area: 30 μ" [0.76 μm] Min. Gold (RIA E1 & C1 apply)

### Overmolded Shell:

Color: Black

Material: Polyvinyl Chloride (PVC)

### Shell:

Color: Gray

Material: Polyester Elastomer

### Cable:

Color: Gray

Jacket Material: Polyvinyl Chloride (PVC)

Flammability: AWM VW-1

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## Electrical

**Voltage Rating:** 30V

**Current Rating:** 1 A

**Insulation Resistance:** > 1 x 10<sup>8</sup> Ω at 100 V<sub>DC</sub>

**Withstanding Voltage:** 350 V<sub>RMS</sub> for 1 minute

### Individually Shielded Twisted Pairs:

**Characteristic Impedance:** 100 ± 10 Ω

**Conductor Size:** 28 AWG Stranded

**Skew (within pair):** 50 ps/meter maximum

**Skew (Channel skew per chipset):** 100 ps/meter maximum

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## Environmental

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

UL File No.: E86982

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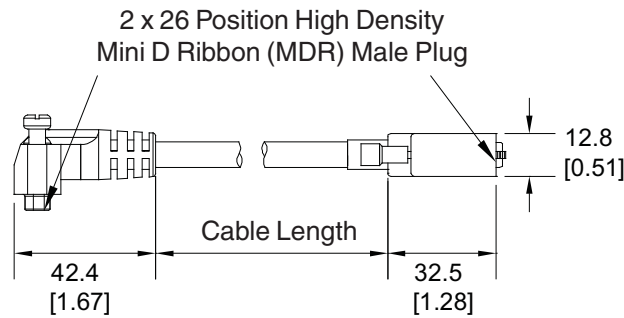
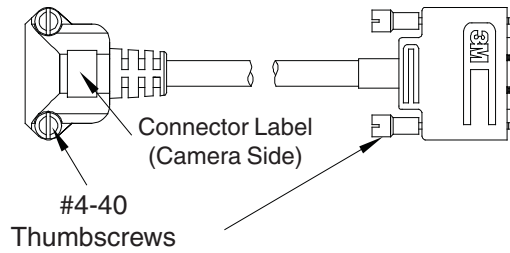
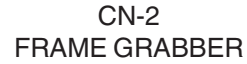
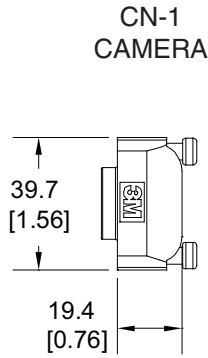
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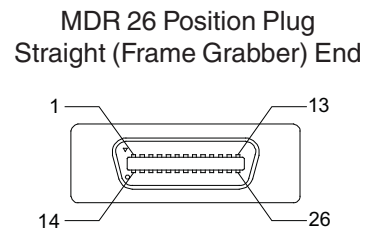
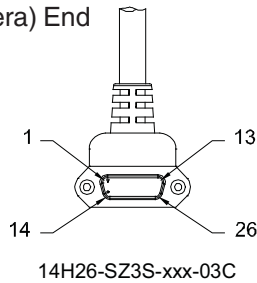
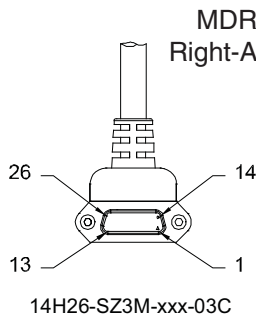
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.050" Right-Angle Digital Camera Cable – 26 position

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Cable Length Tolerance is the larger of + 50 mm / -0 mm or +3% / -0%



mm [inch]		
Tolerance Unless Noted		
	.0	.00
mm	±.1	±.10
[ ] Dimensions for Reference Only		

Use 3M™ Jacksocket 3341-31 for mounting receptacle to panel.



## Ordering Information

### 14H26-SZ3X-XXX-03C

Right Angle Orientation

M = Position 1 opposite cable

S = Position 1 on cable side

#### Cable Length

050 = 50 cm	300 = 300 cm	600 = 600 cm
100 = 100 cm	350 = 350 cm	700 = 700 cm
150 = 150 cm	400 = 400 cm	800 = 800 cm
200 = 200 cm	450 = 450 cm	900 = 900 cm
250 = 250 cm	500 = 500 cm	A00 = 1000 cm

For lengths greater than 1000 cm refer to Table 2

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**Table 1**

Wiring Chart				
CN-1	Cable			CN-2
Connector Position				Connector Position
14	X0 X1 GND	QUAD 1	X0 X1 GND	13
2	X0-		X0-	25
15	X0+		X0+	12
3	X1-		X1-	24
16	X1+		X1+	11
1	X2 XC GND	QUAD 2	X2 XC GND	26
4	X2-		X2-	23
17	X2+		X2+	10
5	XC-		XC-	22
18	XC+		XC+	9
6	X3-	QUAD 3	X3-	21
19	X3+		X3+	8
7	SerTC+		SerTC+	20
20	SerTC-		SerTC-	7
13	X3 SerTC GND		X3 SerTC GND	14
8	SerTFG-	Twisted Pair 1	SerTFG-	19
21	SerTFG+		SerTFG+	6
9	CC1-	Twisted Pair 2	CC1-	18
22	CC1+		CC1+	5
10	CC2+	Twisted Pair 3	CC2+	17
23	CC2-		CC2-	4
11	CC3-	Twisted Pair 4	CC3-	16
24	CC3+		CC3+	3
12	CC4+	Twisted Pair 5	CC4+	15
25	CC4-		CC4-	2
26	NC	OPEN	NC	1

**Table 2**  
Length Codes

First 2 Digits	Alpha Code	First 2 Digits	Alpha Code	First 2 Digits	Alpha Code
10	A	17	H	24	R
11	B	18	J	25	S
12	C	19	K	26	T
13	D	20	L	27	V
14	E	21	M	28	W
15	F	22	N	29	Y
16	G	23	P	30	Z

For lengths in excess of 1000 cm substitute the corresponding alpha code for the first 2 digits. Example: the code for 1160 cm is B60.

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# Regulatory Information Appendix

## 3M Electronic Solutions Division/Interconnect

### EUROPE

#### Appendix E1: European Union RoHS

Directive 2002/95/EC, Restriction of the Use of Certain Hazardous Substances in Electrical & Electronic Equipment, as amended by EU Commission Decision 2005/618/EC.

**This product is RoHS Compliant 2005/95/EC.**

“RoHS Compliant 2005/95/EC” means that the product or part (“Product”) does not contain any of the substances in excess of the maximum concentration values in EU Directive 2002/95/EC, as amended by Commission Decision 2005/618/EC, unless the substance is in an application that is exempt under EU RoHS. Unless otherwise stated by 3M in writing, this information represents 3M’s best knowledge and belief based upon information provided by third party suppliers to 3M.

In the event any product is proven not to conform with 3M’s Regulatory Information Appendix, then 3M’s entire liability and Buyer’s exclusive remedy will be in accordance with the Warranty stated below.

#### Appendix E2: European Union RoHS

Directive 2002/95/EC, Restriction of the Use of Certain Hazardous Substances in Electrical & Electronic Equipment, as amended by EU Commission Decision 2005/618/EC.

**This product contains lead in the compliant pin area in excess of the maximum concentration value allowed but is compliant by exemption under EU Commission Decision 2005/747/EC.**

“RoHS Compliant 2005/95/EC” means that the product or part (“Product”) does not contain any of the substances in excess of the maximum concentration values in EU Directive 2002/95/EC, as amended by Commission Decision 2005/618/EC, unless the substance is in an application that is exempt under EU RoHS. Unless otherwise stated by 3M in writing, this information represents 3M’s best knowledge and belief based upon information provided by third party suppliers to 3M.

In the event any product is proven not to conform with 3M’s Regulatory Information Appendix, then 3M’s entire liability and Buyer’s exclusive remedy will be in accordance with the Warranty stated below.

#### Appendix E3: European Union RoHS

Directive 2002/95/EC, Restriction of the Use of Certain Hazardous Substances in Electrical & Electronic Equipment as amended by Commission Decision 2005/618/EC.

**This product contains lead in the solder tail area in excess of the maximum concentration value allowed.**

Unless otherwise stated by 3M in writing, this information represents 3M’s best knowledge and belief based upon information provided by third party suppliers to 3M.

In the event any product is proven not to conform with 3M’s Regulatory Information Appendix, then 3M’s entire liability and Buyer’s exclusive remedy will be in accordance with the Warranty stated below.

#### Appendix E4: European Union RoHS

Directive 2002/95/EC, Restriction of the Use of Certain Hazardous Substances in Electrical & Electronic Equipment, as amended by EU Commission Decision 2005/618/EC.

**This product contains decaBDE in the insulating material in excess of the maximum concentration value allowed but is compliant by exemption under EU Commission Decision 2005/717/EC.**

“RoHS Compliant 2005/95/EC” means that the product or part (“Product”) does not contain any of the substances in excess of the maximum concentration values in EU Directive 2002/95/EC, as amended by Commission Decision 2005/618/EC, unless the substance is in an application that is exempt under EU RoHS. Unless otherwise stated by 3M in writing, this information represents 3M’s best knowledge and belief based upon information provided by third party suppliers to 3M.

In the event any product is proven not to conform with 3M’s Regulatory Information Appendix, then 3M’s entire liability and Buyer’s exclusive remedy will be in accordance with the Warranty stated below.

## Appendix E5: European Union RoHS

Directive 2002/95/EC, Restriction of the Use of Certain Hazardous Substances in Electrical and Electronic Equipment, as amended by EU Commission Decision 2005/618/EC.

**This product contains lead in excess of the maximum concentration value allowed but is compliant by exemption under Item 6 of the Annex to the Directive.**

“RoHS Compliant 2005/95/EC” means that the product or part (“Product”) does not contain any of the substances in excess of the maximum concentration values in EU Directive 2002/95/EC, as amended by Commission Decision 2005/618/EC, unless the substance is in an application that is exempt under EU RoHS. Unless otherwise stated by 3M in writing, this information represents 3M’s best knowledge and belief based upon information provided by third party suppliers to 3M.

In the event any product is proven not to conform with 3M’s Regulatory Information Appendix, then 3M’s entire liability and Buyer’s exclusive remedy will be in accordance with the Warranty stated below.

## CHINA

### Appendix C1: China RoHS



Electronic Industry Standard of the People’s Republic of China, SJ/T11363-2006, Requirements for Concentration Limits for Certain Hazardous Substances in Electronic Information Products.

This symbol, per Marking for the Control of Pollution Caused by Electronic Information Products, SJ/T11364-2006, 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: (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 best knowledge and belief based upon information provided by third party suppliers to 3M.

In the event any product is proven not to conform with 3M’s Regulatory Information Appendix, then 3M’s entire liability and Buyer’s exclusive remedy will be in accordance with the Warranty stated below.

### Appendix C2: China RoHS



Electronic Industry Standard of the People’s Republic of China, SJ/T11363-2006, Requirements for Concentration Limits for Certain Hazardous Substances in Electronic Information Products.

This symbol, per Marking for the Control of Pollution Caused by Electronic Information Products, SJ/T11364-2006, means that the product or part **does** contain a substance, as detailed in the chart below, in excess of the following maximum concentration values in any homogeneous material: (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 best knowledge and belief based upon information provided by third party suppliers to 3M.

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产品中有毒有害物质或元素的名称及含量 Name and Content of Hazardous Substances or Elements

部件名称 (Part or Component Name)	有毒有害物质或元素 (Hazardous Substances or Elements)					
	铅(Pb)	汞(Hg)	镉(Cd)	六价铬(Cr(VI))	多溴联苯(PBB)	多溴二苯醚(PBDE)
端子镀层(contact plating)	×	○	○	○	○	○
○: 表示该有毒有害物质在该部件所有均质材料中的含量均在SJ/T11363-2006 标准规定的限量要求以下。(Indicates that this hazardous substance contained in all of the homogeneous materials for this part is below the limit requirement in SJ/T11363-2006.) ×: 表示该有毒有害物质至少在该部件的某一均质材料中的含量超出SJ/T11363-2006 标准规定的限量要求。(Indicates that this hazardous substance contained in at least one of the homogeneous materials used for this part is above the limit requirement in SJ/T11363-2006.)						

# Appendix C3: China RoHS

Electronic Industry Standard of the People's Republic of China, SJ/T11363-2006, Requirements for Concentration Limits for Certain Hazardous Substances in Electronic Information Products.

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产品中有毒有害物质或元素的名称及含量 Name and Content of Hazardous Substances or Elements

部件名称 (Part or Component Name)	有毒有害物质或元素 (Hazardous Substances or Elements)					
	铅(Pb)	汞(Hg)	镉(Cd)	六价铬(Cr(VI))	多溴联苯(PBB)	多溴二苯醚(PBDE)
合金(Metal alloy)	×	○	○	○	○	○
<p>○：表示该有毒有害物质在该部件所有均质材料中的含量均在SJ/T11363-2006 标准规定的限量要求以下。(Indicates that this hazardous substance contained in all of the homogeneous materials for this part is below the limit requirement in SJ/T11363-2006.)</p> <p>×：表示该有毒有害物质至少在该部件的某一均质材料中的含量超出SJ/T11363-2006 标准规定的限量要求。(Indicates that this hazardous substance contained in at least one of the homogeneous materials used for this part is above the limit requirement in SJ/T11363-2006.)</p>						

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### 3M Electronics Solutions Division

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