### 3M<sup>™</sup> Shrunk Delta Ribbon (SDR) Cable Assembly 1MD26-X5XX-00C-XXX

.80 mm Digital Camera Cable, PoCL Compatible, 26 position



- Carries power in addition to signal to enable use in base • configuration Power over Camera Link® (PoCL) applications
- Connects between Mini-Camera Link style (SDR) I/O ports on PoCL Cameras and Camera Link style (MDR) ports on PoCL framegrabbers
- Both straight and right angle cable exit available
- 3 shielded quads and 6 unshielded twisted pairs
- Entire cable bundle shielded with foil and braid for additional signal protection
- Rugged ribbon type contact for reliable, repeatable connectivity
- Thumbscrew retention
- EMI shielded end-to-end for reduced emissions
- See Regulatory Information Appendix (RIA) for chemical compliance information

Date Modified: November 21, 2008

TS-2286-A Sheet 1 of 4

#### **Physical**

30 µ" [0.76 µm] Min. Gold (RIA E1 & C1 apply)
100 μ" [ 2.54 μm ] Nickel
Black
Polyvinyl Chloride (PVC)
Gray or Black
Polyester Elastomer
Gray or Black
Polyvinyl Chloride (PVC)
AWM VW-1

#### **Electrical**

Voltage Rating: Current Rating:	
<b>Insulation Resistance:</b>	
Withstanding Voltage:	$125 V_{AC (RMS)}$ for 1 minute
Twisted Pairs	
Cable Characteristic Impedence:	$100 \pm 10 \Omega$ differential
Conductor Size:	28 AWG Stranded
Skew (within pair):	50 ps/meter maximum
Skew (Channel skew per chipset):	100 ps/meter maximum, 50 ps/meter maximum for 1MD26-R5XX-00C-XXX

#### **Environmental**

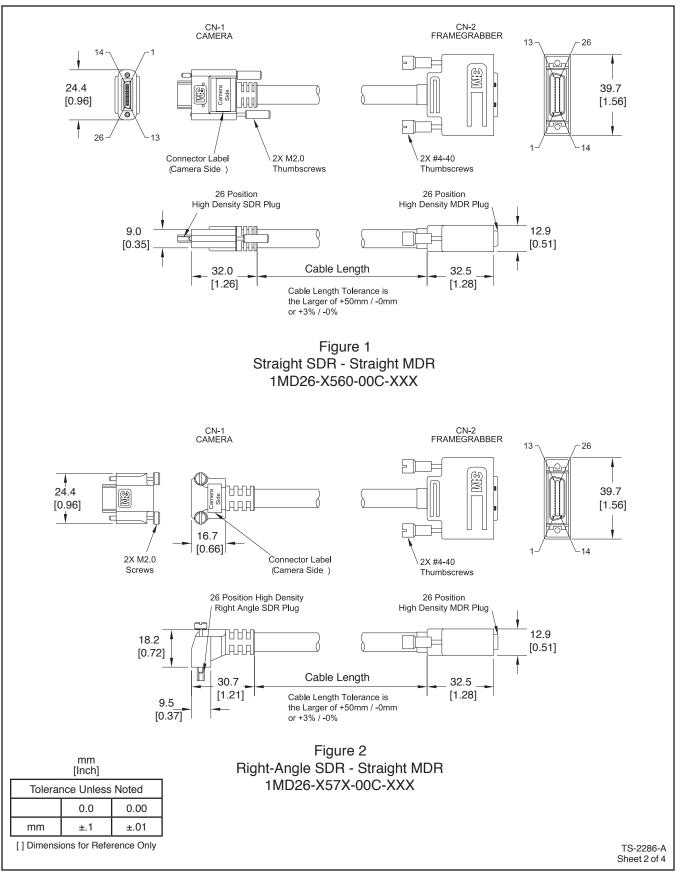
**Temperature Rating:** 0°C to +70°C

UL File No.: E86982

Camera Link is a certification mark of Automated Imaging Association.

### 3M<sup>™</sup> Shrunk Delta Ribbon (SDR) Cable Assembly 1MD26-X5XX-00C-XXX

.80 mm Digital Camera Cable, PoCL Compatible, 26 position

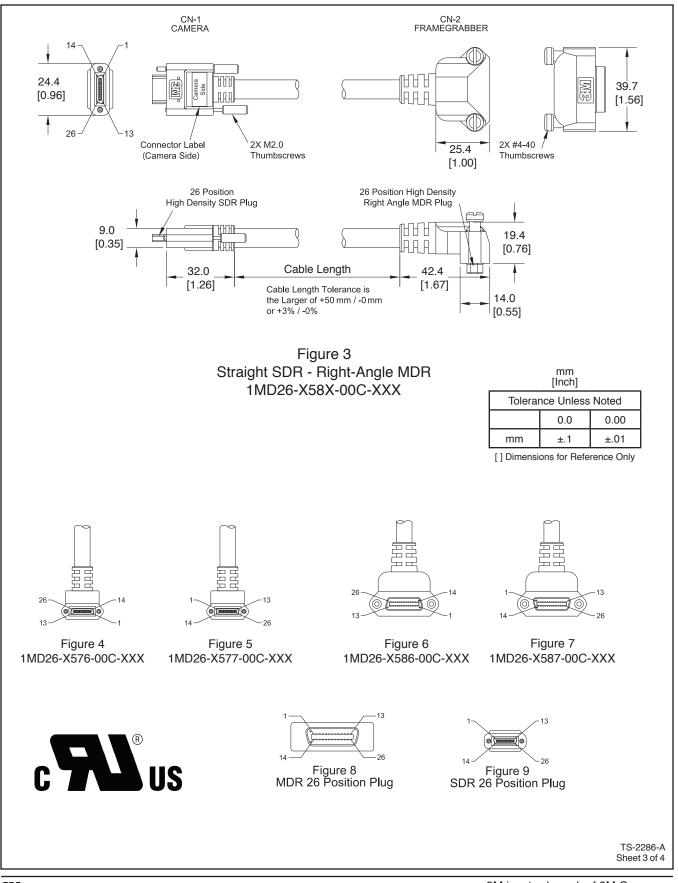


#### ЗМ

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### 3M<sup>™</sup> Shrunk Delta Ribbon (SDR) Cable Assembly 1MD26-X5XX-00C-XXX

.80 mm Digital Camera Cable, PoCL Compatible, 26 position



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# $3M^{TM}$ Shrunk Delta Ribbon (SDR) Cable Assembly

.80 mm Digital Camera Cable, PoCL Compatible, 26 position

1MD26-X5XX-00C-XXX

	Table 1 Wiring Chart							
Γ	CN-1	]	CN-2					
	Connector Position	Signal	1MD26-35XX- 00C-XXX Cable	1MD26-R5XX- 00C-XXX Cable	Signal	Connector Position		
	2	X0-			X0-	25		
	15	X0+	Quad 1	Quad 1	X0+	12		
	3	X1-	Quau	Quau	X1-	24		
	16	X1+			X1+	11		
	4	X2-			X2-	23		
	17	X2+	Quad 2	Quad 2	X2+	10		
	5	Xclk-	Guud 2	Guud 2	Xclk-	22		
	18	Xclk+			Xclk+	9		
	6	X3-			X3-	21		
	19	X3+	Quad 3	Quad 3	X3+	8		
	7	SerTC+	Quud o	Quu	SerTC+	20		
	20	SerTC-			SerTC-	7		
	8	SerTFG-	Twisted Pair 1	Twisted Pair 1	SerTFG-	19		
	21	SerTFG+			SerTFG+	6		
	9	CC1-	Twisted Pair 2	Twisted Pair 2	CC1-	18		
	22	CC1+			CC1+	5		
	10	CC2+	Twisted Pair 3	Twisted Pair 3	CC2+	17		
	23 CC2-				CC2-	4		
	11	CC3-	Twisted Pair 4	Twisted Pair 4	CC3-	16		
	24	CC3+			CC3+	3		
	12	CC4+	Twisted Pair 5	Twisted Pair 5	CC4+	15		
	25	CC4-			CC4-	2		
	1	+12V	Twisted Pair 6	Twisted Pair 6	+12V	1		
	26	+12V			+12V	26		
	13	Inner Shield	Drain Wire	Insulated Wire	Inner Shield	13		
	14 Inner Shield Drain Wire		Drain Wire	Insulated Wire Inner Shield		14		
L	Shell		Brai	d Shield		Shell		
Ordering	g Informatio	on						
Cable Type: 3: Standard ( <u>c</u> R: Flexible (bl	ack) Cable Ex 60: Strai 76: Strai 77: Strai 86: R/A (	it Combination & Atta ght discrete MDR bac ght discrete MDR bac ght discrete MDR bac overmolded MDR with	chment Direction: kshell to a straight overmoldd kshell to a R/A overmolded S kshell to a R/A overmolded S u cable opposite position 1 to	X - OOC - XX ed SDR (Figure 1) DR with cable opposite positi DR with cable same side as p a straight overmolded SDR ( 1 to a straight overmolded SI	ion 1 (Figures 2 & 4) osition 1 (Figures 2 & 5) Figures 3 & 6)			
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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, as amended by EU Commission Decision 2005/717/EC, as amended by EU Court of Justice Decision 2008/C 116/04

# This product contains decaBDE in the insulating material in excess of the maximum concentration allowed for finished products subject to EU RoHS that are placed on the EU market after June 30, 2008.

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 (excluding decaBDE); 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 왾



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 (excluding decaBDE); 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.

The numerical reference in the symbol above should not be construed as a representation regarding the product's life or an extension of a product warranty. The product warranty is stated below. 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 product Warranty stated below.

#### 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

<u>)</u> 而于自专行占物质或冗余的石标及自重 Rume and Content of Hazardous Substances of Elements								
部件名称	有毒有害物质或元素 (Hazardous Substances or Elements)							
(Part or Component Name)	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)	×	0	0	0	0	0		
O: 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.

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 (excluding decaBDE); 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.

The numerical reference in the symbol above should not be construed as a representation regarding the product's life or an extension of a product warranty. The product warranty is stated below. 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 product Warranty stated below.

#### 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	有毒有害物质或元素(Hazardous Substances or Elements)					
(Part or Component Name)	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)	×	0	0	0	0	0

○: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

×: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.)

#### **Important Notice**

All statements, technical information, and recommendations related to 3M's products are based on information believed to be reliable, but the accuracy or completeness is not guaranteed. Before using this product, you must evaluate it and determine if it is suitable for your intended application. You assume all risks and liability associated with such use. Any statements related to the product which are not contained in 3M's current publications, or any contrary statements contained on your purchase order shall have no force or effect unless expressly agreed upon, in writing, by an authorized officer of 3M.

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