

# 3M™ Shrunk Delta Ribbon (SDR) Cable Assembly

.80 mm High Speed Digital Data Transmission, 26 position

1MF26-L5XX-00C-XXX



- Supports new AIA Industrial Camera Link® Standard for new Mini C/L camera to C/L frame grabber applications
- 11 shielded, twisted twinax pairs with four drain wires
- Double overall shield with inner foil and outer braid
- Rugged ribbon contact type
- Rugged thumbscrew retention
- R/A overmolded MDR backshells eliminate bend radius issues
- See Regulatory Information Appendix (RIA) for chemical compliance information

Date Modified: December 17, 2007

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## Physical

### Connector Contact Plating:

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

Underplating: 100  $\mu$ " [ 2.55  $\mu$ m ] Nickel

### Shell Options:

Color: Parchment / Beige & Black

Material: Overmolded option: Polyvinyl Chloride (PVC)  
& Acrylonitrile Butadiene Styrene (ABS)

### Cable:

Color: Parchment / Beige

Jacket Material: Polyvinyl Chloride (PVC)

Flammability: AWM VW-1

Marking: 3M logo

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## Electrical

**Voltage Rating:** 30 V

**Current Rating:** 0.5 A

**Insulation Resistance:**  $1 \times 10^8 \Omega$  min at 100 V<sub>DC</sub>

**Withstanding Voltage:** 125 V<sub>AC RMS</sub> for 1 minute

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## Environmental

**Temperature Rating:** 0°C to +70°C

Camera Link is a certification mark of Automated Imaging Association.

UL File No.: E86982

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Figure 1  
R/A SDR to Straight MDR Cable Assembly



Figure 2  
R/A SDR Connector  
(-76 Option)

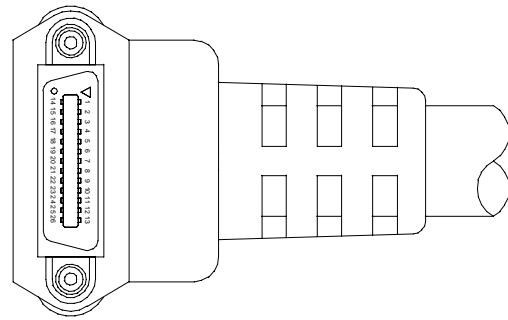


Figure 3  
R/A SDR Connector  
(-77 Option)

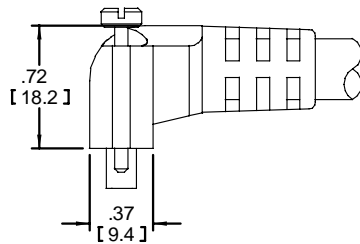


Figure 4  
SDR R/A Overmolded Connector

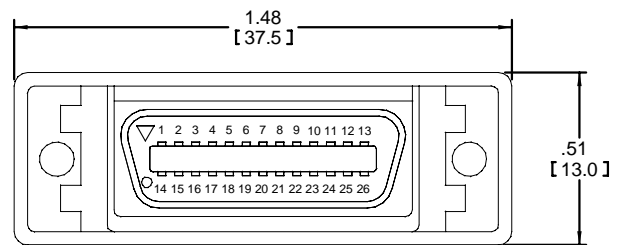


Figure 5  
MDR Straight Connector



Note: 1. For length dimension, refer to the product ordering number.

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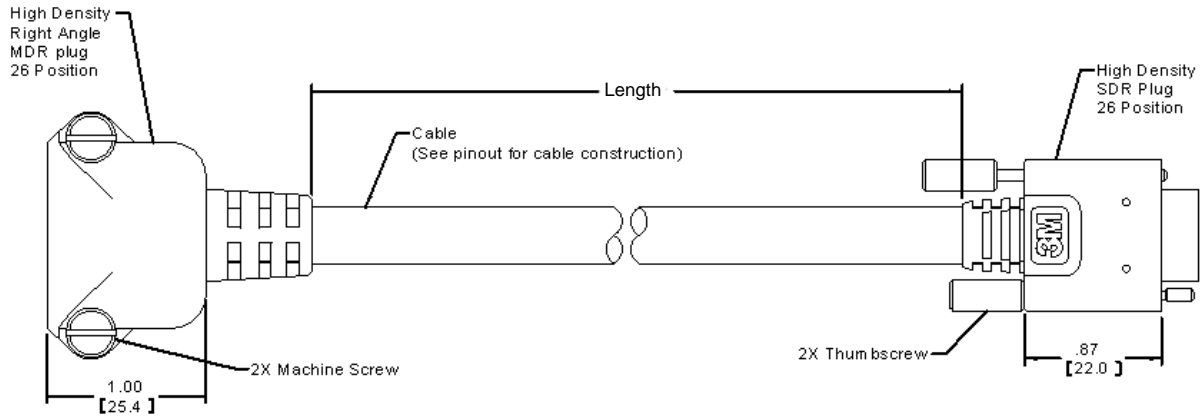


Figure 6  
R/A MDR To Straight SDR Cable Assembly

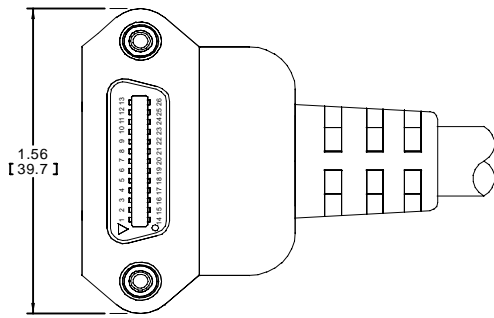


Figure 7  
R/A MDR Connector  
(-86 Option)

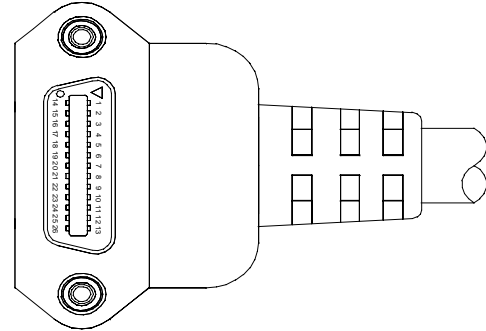


Figure 8  
R/A MDR Connector  
(-87 Option)

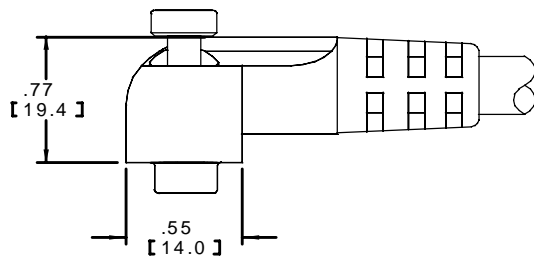


Figure 9  
MDR R/A Connector

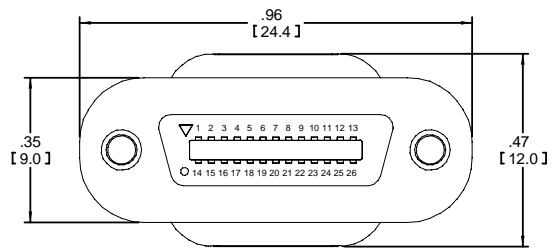


Figure 10  
SDR Straight Connector

Note: 1. For length dimension, refer to the product ordering number.



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# 3M™ Shrunk Delta Ribbon (SDR) Cable Assembly

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CN-1 Conn. Pos.	Base Configuration					CN-2 Conn. Pos.
	Full / Medium configuration					
			Cable			
2	XO-	YO-	TWINAX 1	YO-	XO-	25
15	XO+	YO+		YO+	XO+	12
3	X1-	Y1-	TWINAX 2	Y1-	X1-	24
16	X1+	Y1+		Y1+	X1+	11
4	X2-	Y2-	TWINAX 3	Y2-	X2-	23
17	X2+	Y2+		Y2+	X2+	10
5	XC-	Yclk-	TWINAX 4	Yclk-	XC-	22
18	XC+	Yclk+		Yclk+	XC+	9
6	X3-	Y3-	TWINAX 5	Y3-	X3-	21
19	X3+	Y3+		Y3+	X3+	8
7	Ser TC+	100 ohm	TWINAX 6	100 ohm	Ser TC+	20
20	Ser TC-	Terminated		Terminated	Ser TC-	7
8	Ser TFG-	ZO-	TWINAX 7	ZO-	Ser TFG-	19
21	Ser TFG+	ZO+		ZO+	Ser TFG+	6
9	CC1-	Z1-	TWINAX 8	Z1-	CC1-	18
22	CC1+	Z1+		Z1+	CC1+	5
10	CC2+	Z2-	TWINAX 9	Z2-	CC2+	17
23	CC2-	Z2+		Z2+	CC2-	4
11	CC3-	Zclk-	TWINAX 10	Zclk-	CC3-	16
24	CC3+	Zclk+		Zclk+	CC3+	3
12	CC4+	Z3-	TWINAX 11	Z3-	CC4+	15
25	CC4-	Z3+		Z3+	CC4-	2
1	INNER SHIELD	INNER SHIELD	DRAIN WIRE	INNER SHIELD	INNER SHIELD	1
14	INNER SHIELD	INNER SHIELD		INNER SHIELD	INNER SHIELD	14
13	INNER SHIELD	INNER SHIELD		INNER SHIELD	INNER SHIELD	13
26	INNER SHIELD	INNER SHIELD		INNER SHIELD	INNER SHIELD	26
Shell	BRAID SHIELD					Shell

Table 1  
Cable Assembly Wiring Diagram

## Ordering Information

**1MF26-L5XX-00C-XXX** (RIA E1 & C1 apply)

76 = Straight discrete MDR backshell to a R/A (cable dresses down) overmolded SDR.  
 77 = Straight discrete MDR backshell to a R/A (cable dresses up) overmolded SDR.  
 86 = R/A (cable dresses down) overmolded MDR to a straight overmolded SDR.  
 87 = R/A (cable dresses up) overmolded MDR to a straight overmolded SDR.

Length =:  
 100 = 1m  
 200 = 2m  
 500 = 5m  
 A00 = 10m  
 Refer to length dimension in figures 1 & 3  
 Reference notes 1 & 2 for cable length tolerance

Notes:

- For a cable length of less than 2m, the length tolerance is +50mm / -0mm
- For a cable length of 2m or more, the length tolerance is +3% / -0% of cable length

# 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.

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