.80 mm High Speed Digital Data Transmission, 26 position

1SF26-L1XX-00C-XXX



- Supports AIA Industrial Camera Link® Standard for Mini C/L camera to 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
- EMI shielded overmolded junction shell
- Optional R/A overmolded backshells eliminate bend radius
- See the Regulatory Information Appendix (RIA) in the "RoHS compliance" section of www.3M.com/Interconnect for compliance information (RIA E1 & C1 apply)

Date Modified: August 10, 2009

TS-2120-D Sheet 1 of 4

Physical

Connector Contact Plating:

Wiping Area: 30μ " [0.76μ m] Min Gold Underplating: 100μ " [2.55μ m] Nickel

Overmolded Shell:

Color: Black

Material: Polyvinyl Chloride (PVC)

Cable:

Color: Beige

Jacket Material: Polyvinyl Chloride (PVC)

Flammability: AWM VW-1 Marking: 3M Logo

Electrical

Voltage Rating: 30 V

Current Rating: 0.5 A

Insulation Resistance: $1 \times 10^8 \Omega \text{ min at } 100 \text{ V}_{DC}$

Withstanding Voltage: 125 V_{AC} RMS for 1 minute

Individually Shielded Twisted Pairs

Characteristic Impedance: $100 \pm 10\Omega$

Conductor Size: 28 AWG Stranded

Propogation Velocity: 1.25 ns/ft [4.1 ns/m]

Skew (within pair): 50 ps / meter maximum

Skew (channel skew per chipset): 50 ps / meter maximum

Environmental

Temperature Rating: $0^{\circ}\text{C to } +70^{\circ}\text{C}$

UL File No.: E86982

Camera Link is a certification mark of Automated Imaging Association

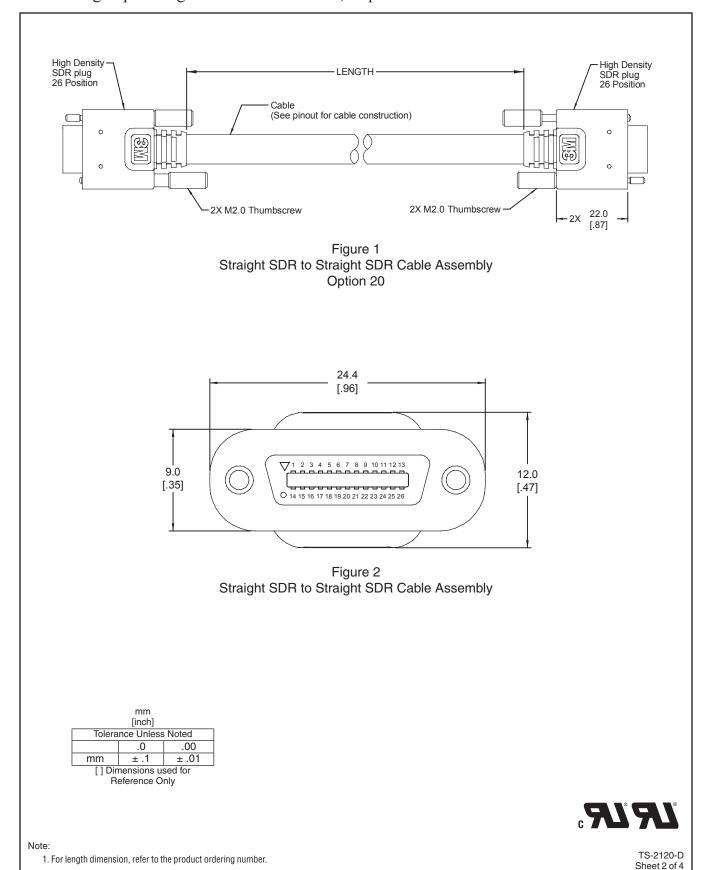
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Electronic Solutions Division Interconnect Solutions
http://www.3M.com/interconnects/

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.80 mm High Speed Digital Data Transmission, 26 position

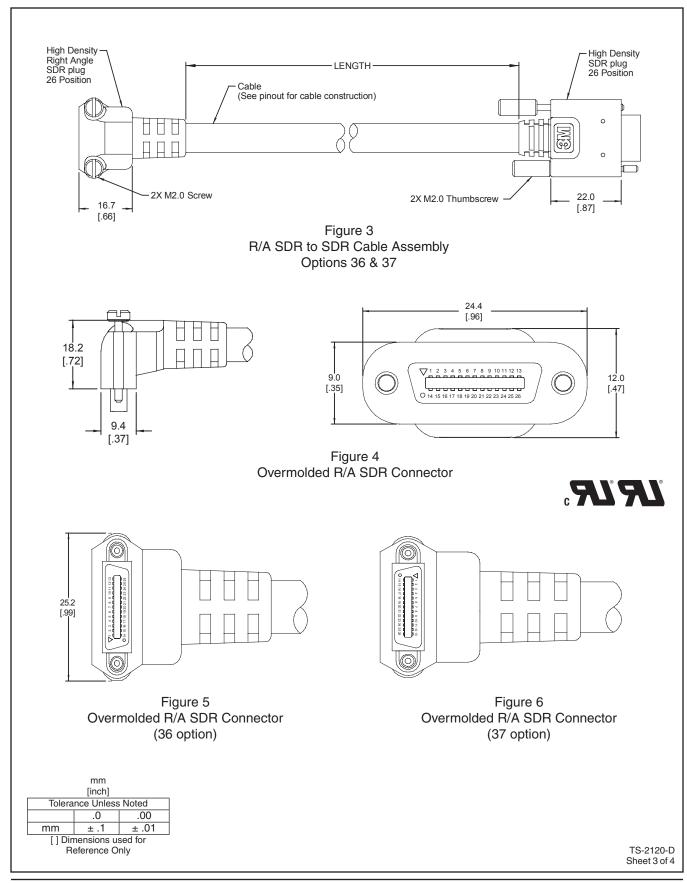
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CN-1	Base Configuration					CN-2
Conn.	Full / Medium configuration					Conn.
Pos.			Cable			Pos.
2	XO-	YO-	TIA/INIA V 1	YO-	XO-	25
15	XO+	YO+	TWINAX 1	YO+	XO+	12
3	X1-	Y1-	TWINAX 2	Y1-	X1-	24
16	X1+	Y1+		Y1+	X1+	11
4	X2-	Y2-	TWINAX 3	Y2-	X2-	23
17	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+	<i>Z</i> 2-	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
	INNER	INNER		INNER	INNER	
1	SHIELD	SHIELD	DRAIN WIRE	SHIELD	SHIELD	1
14	INNER	INNER		INNER	INNER	
	SHIELD	SHIELD		SHIELD	SHIELD	14
	INNER	INNER		INNER	INNER	
13	SHIELD	SHIELD		SHIELD	SHIELD	13
	INNER	INNER		INNER	INNER	
26	SHIELD	SHIELD		SHIELD	SHIELD	26
Shell	BRAID SHIELD					Shell

Table 1
Cable Assembly Wiring Diagram

Ordering Information

 $\textbf{1SF26-L1}\underline{\textbf{XX}}\textbf{-00C-}\underline{\textbf{XXX}} \hspace{0.1cm} (\mathsf{RIA} \hspace{0.1cm} \mathsf{E1} \hspace{0.1cm} \& \hspace{0.1cm} \mathsf{C1} \hspace{0.1cm} \mathsf{apply})$

20 = SDR straight to SDR straight backshell.

36 = The direction of the cable for the RA SDR connector dresses down with respect to a horizontal board mount connector. The topology for the 36 option is a straight overmolded SDR backshell to a R/A overmolded SDR backshell.

37 = The direction of the cable for the RA SDR connector dresses up with respect to a horizontal board mount connector. The topology for the 37 option is a straight overmolded SDR backshell to a R/A overmolded SDR backshell.

Notes:

1. For a cable length of less than 2m, the length tolerance is $+50 \, \text{mm}$ / $-0 \, \text{mm}$

2. For a cable length of 2m or more, the length tolerance is +3% / -0% of cable length

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

> TS-2120-D Sheet 4 of 4

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