

3M™ Shrunk Delta Ribbon (SDR) Cable Assembly

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

1SD26-X1XX-00C-XXX



- Carries power in addition to signal to enable use in base configuration Power over Camera Link® (PoCL) applications
- Connects to Mini-Camera Link style (SDR) I/O ports on both PoCL camera and PoCL framegrabber
- 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-2287-A
Sheet 1 of 3

Physical

Connector Contact Plating:

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

Underplating: 100 μ " [2.54 μ m] Nickel

Overmolded Shell:

Color: Black

Material: Polyvinyl Chloride (PVC)

Cable:

Color: Gray or Black

Jacket Material: Polyvinyl Chloride (PVC)

Flammability: AWM VW-1

Electrical

Voltage Rating: 30 V

Current Rating: 0.5 A

Insulation Resistance: $> 1 \times 10^8 \Omega$ at 100 V_{DC}

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 1SD26-R1XX-00C-XXX

Environmental

Temperature Rating: 0°C to +70°C

UL File No.: E86982

Camera Link is a certification mark of Automated Imaging Association.



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800-225-5373

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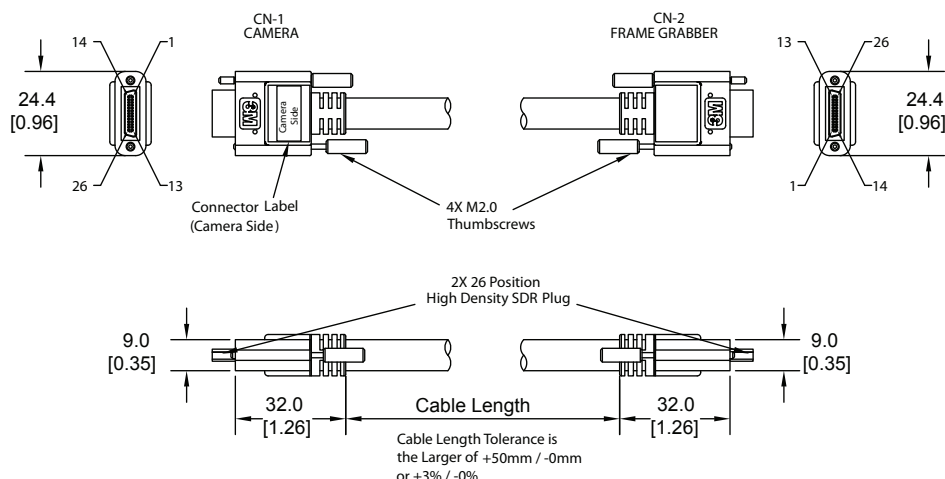
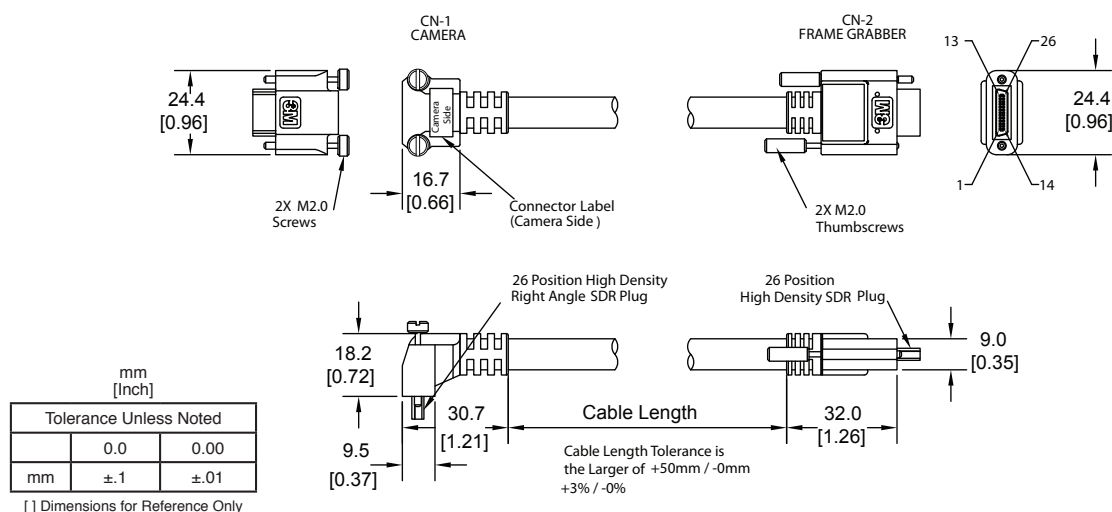


Figure 1
Straight SDR - Straight SDR
1SD26-X120-00C-XXX



mm [Inch]		
Tolerance Unless Noted		
	0.0	0.00
mm	±.1	±.01

[] Dimensions for Reference Only

Figure 2
Straight SDR - Right-Angle SDR
1SD26-X13X-00C-XXX

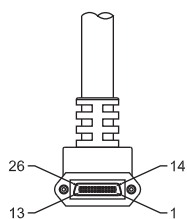


Figure 3
1SD26-X136-00C-XXX

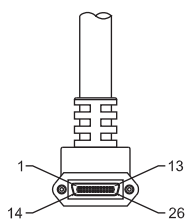


Figure 4
1SD26-X137-00C-XXX



TS-2287-A
Sheet 2 of 3



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Table 1
Wiring Chart

CN-1				CN-2	
Connector Position	Signal	1SD26-31XX-00C-XXX Cable	1SD26-R1XX-00C-XXX Cable	Signal	Connector Position
2	X0-	Quad 1	Quad 1	X0-	25
15	X0+			X0+	12
3	X1-			X1-	24
16	X1+			X1+	11
4	X2-	Quad 2	Quad 2	X2-	23
17	X2+			X2+	10
5	Xclk-			Xclk-	22
18	Xclk+			Xclk+	9
6	X3-	Quad 3	Quad 3	X3-	21
19	X3+			X3+	8
7	SerTC+			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	Insulated Wire	Inner Shield	14
Shell	Braid Shield				Shell

Ordering Information

1SD26 - X1XX - 00C - XXX

Cable Type:
3: Standard (gray)
R: Flexible (black)

Cable Exit & Attachment Direction:

20: Straight-Straight (Figure 1)

36: Camera end right-angle, cable exit opposite position 1 (Figures 2 & 3)

37: Camera end right angle, cable exit same side as position 1 (Figures 2 & 4)

Cable Length:
200 = 200 cm
500 = 500 cm
A00 = 1000 cm

Other lengths available by special order. Contact 3M for details.

TS-2287-A
Sheet 3 of 3



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