

3M™ Mini D Ribbon (MDR) Cable Assembly

.050" Digital Camera Cable - 26 position

14B26-SZ3B-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

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Sheet 1 of 3

Physical

Connector Contact Plating:

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

Shell:

Color: Gray

Material: Polyester Elastomer

Cable:

Color: Gray

Jacket Material: Polyvinyl Chloride (PVC)

Flammability: AWM VW-1

Electrical

Voltage Rating: 30V

Current Rating: 1 A

Insulation Resistance: > 1 x 10⁸ Ω at 100 V_{DC}

Withstanding Voltage: 350 V_{RMS} 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

Environmental

Temperature Rating: -20 °C to +75 °C

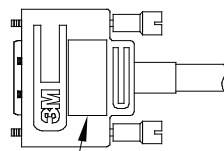
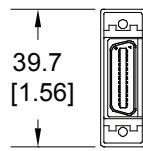
UL File No.: E86982

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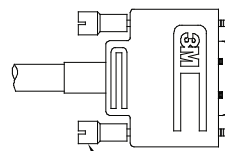
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CN-1
CAMERA

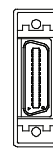


Connector Label
(Camera Side)

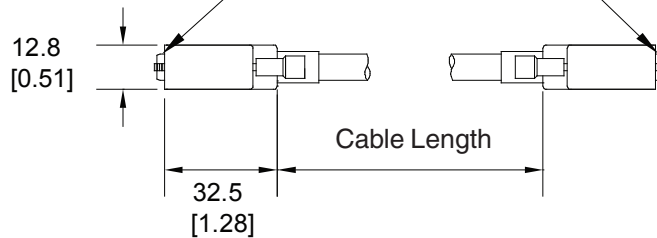
CN-2
FRAME GRABBER



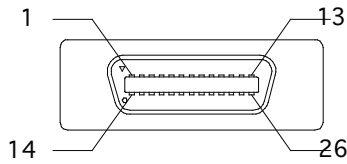
4 x #4-40
Thumbscrews



2 x 26 Position High Density
Mini D Ribbon (MDR) Male Plug



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



Generic End Detail
MDR 26 Position Plug
(Both Ends)

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

14B26-SZ3B-XXX-03C

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.