imall

Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from, Europe, America and south Asia, supplying obsolete and hard-to-find components to meet their specific needs.

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3M[™] Mini D Ribbon (MDR) Cable Assembly 14H26-SZ3X-XXX-0LC

.050" High Speed Digital CameraLink[™] Cable – Right Angle



- Supports Industrial CameraLink[™] standard for camera to • frame grabber communications
- Space-saving right angle cable exit
- 11 shielded twin-ax pairs and four drain wires
- Entire cable bundle is shielded with foil and braid for ٠ additional signal protection
- Rugged MDR ribbon type contact •
- Rugged thumbscrew retention •
- EMI shielded junction shell on straight end
- EMI shielded overmolded shell on right-angle end
- See Regulatory Information Appendix (RIA) for chemical compliance information

Date Modified: January 24, 2008

TS-2262-A Sheet 1 of 3

Physical

Connector Contact Plating Wiping Area: 30 µ" [0.76 µm] Min. Gold (RIA E1 & C1 apply) **Overmolded Shell:** Color: Black Material: Polyvinyl Chloride (PVC) Shell: Color: Beige Material: Polyester Elastomer Cable: Color: Beige Jacket Material: Polyvinyl Chloride (PVC) Flammability: AWM VW-1

Electrical

Voltage Rating:	30V
Current Rating:	1 A
Insulation Resistance:	$> 1 \ x \ 10^8 \ \Omega$ at 100 $V_{_{DC}}$
Withstanding Voltage:	$350V_{\text{RMS}}$ for 1 minute
Individually Shielded Twisted Pairs	
Characteristic Impedance:	$100\pm10\Omega$
Conductor Size:	28 AWG Stranded
Propagation 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

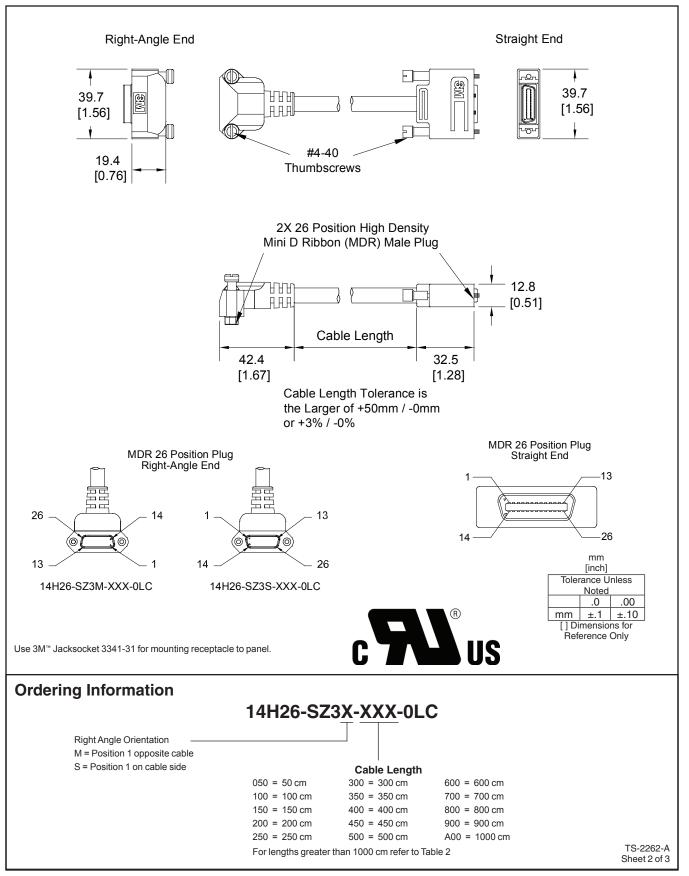
Temperature Rating: -20 °C to +75 °C

UL File No.: E86982

$3M^{TM}$ Mini D Ribbon (MDR) Cable Assembly

.050" High Speed Digital CameraLink $^{\rm {\scriptscriptstyle TM}}$ Cable – Right Angle

14H26-SZ3X-XXX-0LC



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$3M^{M}$ Mini D Ribbon (MDR) Cable Assembly

.050" High Speed Digital CameraLink $^{\text{\tiny IM}}$ Cable – Right Angle

14H26-SZ3X-XXX-0LC

Table 1. Cable Assembly and Camera Link Pinouts							
	Medium and Full Configurations			Base Configuration			
Two Channel Link Chips				One Channel Link Chip + Camera Control + Serial Communication			
Camera Connector	Right Angle Frame Grabber	Channel Link Signal	Cable Name (Reference only)	Camera Connector	Right Angle Frame Grabber	Channel Link Signal	
1	1	inner shield	inner shield	1	1	inner shield	
14	14	inner shield	inner shield	14	14	inner shield	
2	25	Y0-	Pair 1	2	25	X0-	
15	12	Y0+	Pair 1	15	12	X0+	
3	24	Y1-	Pair 2-	3	24	X1-	
16	11	Y1+	Pair 2+	16	11	X1+	
4	23	Y2-	Pair 3-	4	23	X2-	
17	10	Y2+	Pair 3+	17	10	X2+	
5	22	Yclk-	Pair 4-	5	22	Xclk-	
18	9	Yclk+	Pair 4+	18	9	Xclk+	
6	21	Y3-	Pair 5-	6	21	X3-	
19	8	Y3+	Pair 5+	19	8	X3+	
7	20	100 ohm	Pair 6+	7	20	SerTC+	
20	7	terminated	Pair 6-	20	7	SerTC-	
8	19	Z0-	Pair 7-	8	19	SerTFG-	
21	6	Z0+	Pair 7+	21	6	SerTFG+	
9	18	Z1-	Pair 8-	9	18	CC1-	
22	5	Z1+	Pair 8+	22	5	CC1+	
13	17	Z2-	Pair 9-	13	17	CC2+	
23	4	Z2+	Pair 9+	23	4	CC2-	
11	16	Zclk-	Pair 10-	11	16	CC3-	
24	3	Zclk+	Pair 10+	24	3	CC3+	
12	15	Z3-	Pair 11-	12	15	CC4+	
15	2	Z3+	Pair 11+	15	2	CC4-	
13	13	inner shield	inner shield	13	13	inner shield	
26	26	inner shield	inner shield	26	26	inner shield	

Notes:

- 1. All pairs are individually shielded with aluminum foil.
- 2. Pair shields are wrapped aluminum out and are in contact with four internal drains (logic ground).
- 3. Outer braid and foil (chassis ground) are isolated from inner drains (logic ground).
- 4. Cable assembly compatible with both CameraLink configurations.

Length Codes							
First 2 Digits	Alpha Code	First 2 Digits	Alpha Code	First 2 Digits	Alpha Code		
10	A	17	Н	24	R		
11	В	18	J	25	S		
12	С	19	К	26	Т		
13	D	20	L	27	V		
14	E	21	М	28	W		
15	F	22	N	29	Y		
16	G	23	Р	30	Z		

Table 2

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.

TS-2262-A Sheet 3 of 3

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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.

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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.

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; 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 🝕



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; 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)	
端子镀层(contact plating)	×	0	0	0	0	0	
hazardous substance contained in SJ/T11363-2006.) ×: 表示该有毒有害物质至少在该部作 hazardous substance contained in requirement in SJ/T11363-2006.)	牛的某一均)	质材料中的含	全量超出SJ/	T11363-2006 标准规	定的限量要求。(Ir	ndicates that this	

Appendix C3: China RoHS 4

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; 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)	镝 (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

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.)

Important Notice

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