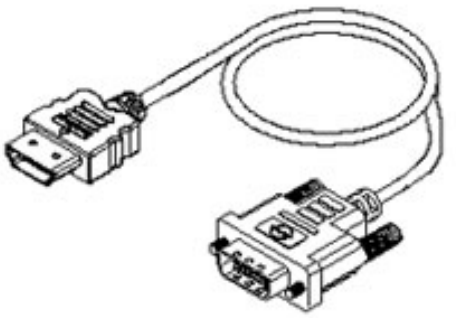
This document was generated on 06/08/2010

PLEASE CHECK WWW.MOLEX.COM FOR LATEST PART INFORMATION

Part Number: 0887683500
Status: Active
Overview: high_definition_multimedia_interface_hdmi
Description: HDMI*-to-DVI-Digital Cable Assembly, 28 AWG, 1.0m (3.28') Length

Documents:
Drawing (PDF)
RoHS Certificate of Compliance (PDF)
Product Specification PS-88768-001 (PDF)



Series image - Reference only

EU RoHS
RoHS Compliant by Exemption
REACH SVHC
Not Reviewed
Halogen-Free Status
Not Reviewed

China RoHS

Need more information on product environmental compliance?

Email productcompliance@molex.com
For a multiple part number RoHS Certificate of Compliance, click here

Please visit the Contact Us section for any non-product compliance questions.

Search Parts in this Series
88768Series

General

Product Family	Cable Assemblies
Series	88768
Connector to Connector	HDMI*-to-DVI-Digital
MolexKits	Yes
Overview	high_definition_multimedia_interface_hdmi
Product Name	HDMI*

Physical

Cable Length	1.0m (3.28')
Circuits (Loaded)	19
Color - Resin	Black, Natural
Gender	Male-Male
Lock to Mating Part	Yes
Material - Metal	High Performance Alloy (HPA), Phosphor Bronze
Material - Plating Mating	Gold
Material - Plating Termination	Tin
Material - Resin	High Temperature Thermoplastic, Low Density Polyethylene, Polyester
Packaging Type	Bag
Pitch - Mating Interface (in)	0.039 In
Pitch - Mating Interface (mm)	1.00 mm
Plating min: Mating (µin)	10, 32
Plating min: Mating (µm)	0.25, 0.8
Plating min: Termination (µin)	150, 50.8
Plating min: Termination (µm)	1.27, 3.75
Single Ended	No
Termination Interface: Style	Solder or Weld, Through Hole
Wire Insulation Diameter	N/A
Wire Size AWG	28
Wire/Cable Type	Round

Electrical

Current - Maximum per Contact	0.5A
Impedance	100 ohms
Shielded	Yes
Voltage - Maximum	40V

Material Info

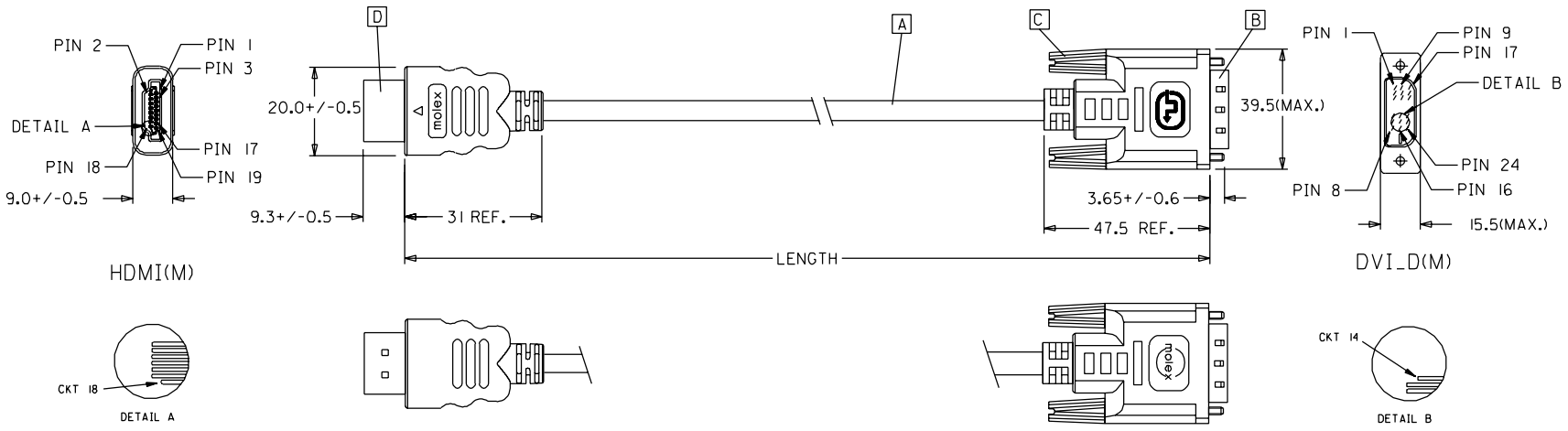
Reference - Drawing Numbers

Product Specification	PS-88768-001
Sales Drawing	SD-88768-3500, SD-887683500, SD-887683510, SD-887683520, SD-887683530, SD887683500

*High Definition Multimedia Interface and HDMI are trademarks of HDMI Licensing, LLC.

This document was generated on 06/08/2010

PLEASE CHECK WWW.MOLEX.COM FOR LATEST PART INFORMATION



MX P/N	DESCRIPTION	LENGTH	CABLE COLOR	CABLE OD
88768-3620	HDMI TO DVI-D(M) CABLE ASS'Y,3M	3000+/-80	BLACK	5.5MM(TMDS - AWG*30)
88768-3610	HDMI TO DVI-D(M) CABLE ASS'Y,2M	2000+/-60	BLACK	5.5MM(TMDS - AWG*30)
88768-3600	HDMI TO DVI-D(M) CABLE ASS'Y,1M	1000+/-30	BLACK	5.5MM(TMDS - AWG*30)
88768-3530	HDMI TO DVI-D(M) CABLE ASS'Y,5M	5000+/-100	BLACK	7.3MM(TMDS - AWG*28)
88768-3520	HDMI TO DVI-D(M) CABLE ASS'Y,3M	3000+/-80	BLACK	7.3MM(TMDS - AWG*28)
88768-3510	HDMI TO DVI-D(M) CABLE ASS'Y,2M	2000+/-60	BLACK	7.3MM(TMDS - AWG*28)
88768-3500	HDMI TO DVI-D(M) CABLE ASS'Y,1M	1000+/-30	BLACK	7.3MM(TMDS - AWG*28)

EC NO.
DRWN:
CH'K:
APPR:
C

DESCRIPTION
REV

QUALITY SYMBOLS
MAJOR ▼ = 0
CRITICAL ▽ = 0

GENERAL TOLERANCES: (UNLESS SPECIFIED)

	mm	INCH
4 PLACES	±0.	±.
3 PLACES	±0.	±.
2 PLACES	±0.	±.
1 PLACE	±0.	±.
ANGULAR: ±	°	

SCALE N.S.T
DESIGN UNITS ☒mm ☐INCH
THIRD ANGLE PROJECTION
☐ mm/INCH ☐ INCH/mm ☒ mm ONLY

SHT | REV
REVISE ON CAD ONLY

DRAWN BY & DATE: Louis Chen 03/11/17
CHECKED BY & DATE: Teddy Kan 03/11/17
APPROVED BY & DATE: Boron Chen 03/11/17

TITLE: HDMI(M) TO DVI-D(M) CABLE ASS'Y

MOLEX INCORPORATED

CAD FILENAME: S88768AA.S01
MATERIAL NO.: SEE TABLE
DRAWING NO.: SD-88768-001
SHEET NO.: 1 OF 2

THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION.

SIZE A4

NOTE: 1. OVERMOLD SPECIFICATION

1.1 DVI BOOT MOLDED WITH SNOW WHITE PVC RESIN P/N.

1.1.1 UL94V-0

1.1.2 HARDNESS (DUROMETER): SHORE A 90-95

1.2 HDMI OUTER MOLD WITH BLACK PVC RESIN. UL94V-0.

2. MECHANICAL SPECIFICATION

▽ 2.1 CABLE SHOULD STAND THE PULL FORCE 89-111N FOR 30 SECONDS WITH NO VISIBLE TERMINATION DAMAGE.

2.2 CABLE SHOULD PASS THE FLEX TEST IN 100 CYCLES AT EACH OF PLANES, PER EIA 364-41, CONDITION I.

3. CABLE ELECTRICAL SPECIFICATION

▽ 3.1 DIELECTRIC STRENGTH: 300V AC FOR 10MS.

▽ 3.2 INSULATION RESISTANCE: 10 MEGA Ohms MIN.

▽ 3.3 DIFFERENTIAL LINES CHARACTERISTIC IMPEDANCE: 100+/-10 Ohms @TDR.

▽ 3.4 CONTACT RESISTANCE: 2 OHMS(MAX.).

3.5 SIGNALS CROSSTALK(FEXT) : 5% (MAX.) PER ANSI/EIA-364-90.

3.6 SIGNALS INTRA-PAIR SKEW : <150 ps.

4. DVI CONNECTOR SPECIFICATION

4.1 REFER TO PRODUCT SPEC. PS74320-0001.

4.2 CONTACT PLATING: AU FLASH.

5. MATERIAL MUST MEET MANAGEMENT REGULATIONS FOR ENVIRONMENT (MX TS-0002).

HDMI	DVI-D	COLOR	CABLE FUNCTION
PIN 19	PIN 16		GROUND
PIN 18	PIN 14		HOT PLUG DETECT
PIN 17	PIN 15		POWER +5V
PIN 16	PIN 7		GROUND(+5V&DDC)
PIN 15	PIN 6		DDC DATA(SDA)
PIN 11	PIN 22		DDC CLOCK(SCL)
PIN 12	PIN 24		TMDS CLOCK SHIELD
PIN 10	PIN 23		TMDS CLOCK-
PIN 8	PIN 19		TMDS CLOCK+
PIN 9	PIN 17		TMDS DATA 0 SHIELD
PIN 7	PIN 18		TMDS DATA 0-
PIN 5	PIN 11		TMDS DATA 0+
PIN 6	PIN 9		TMDS DATA 1 SHIELD
PIN 4	PIN 10		TMDS DATA 1-
PIN 2	PIN 3		TMDS DATA 1+
PIN 3	PIN 1		TMDS DATA 2 SHIELD
PIN 1	PIN 2		TMDS DATA 2-
			TMDS DATA 2+

ITEM	DESCRIPTION	QTY.
D	HDMI PLUG ASSY'	1
C	DVI THUMB SCREW	2
B	DVI_D SINGLE CHANNEL G/F CONNECTOR	1
A	DVI SINGLE LINK CABLE (SEE TABLE)	1

EC NO. | DRWN: | CH'K: | APPR: | DESCRIPTION | REV

C

QUALITY SYMBOLS
MAJOR ▼ = 0
CRITICAL ▽C = 5

GENERAL TOLERANCES: (UNLESS SPECIFIED)

	mm	INCH
4 PLACES	±0.	±.
3 PLACES	±0.	±.
2 PLACES	±0.	±.
1 PLACE	±0.	±.
ANGULAR: ±	°	

SCALE N.S.T | DESIGN UNITS ☒mm ☐INCH | THIRD ANGLE PROJECTION | ☐ mm/INCH ☐ INCH/mm ☒ mm ONLY | SHT | REV | REVISE ON CAD ONLY

DRAWN BY & DATE: Louis Chen 03/11/17

CHECKED BY & DATE: Teddy Kan 03/11/17

APPROVED BY & DATE: Boron Chen 03/11/17

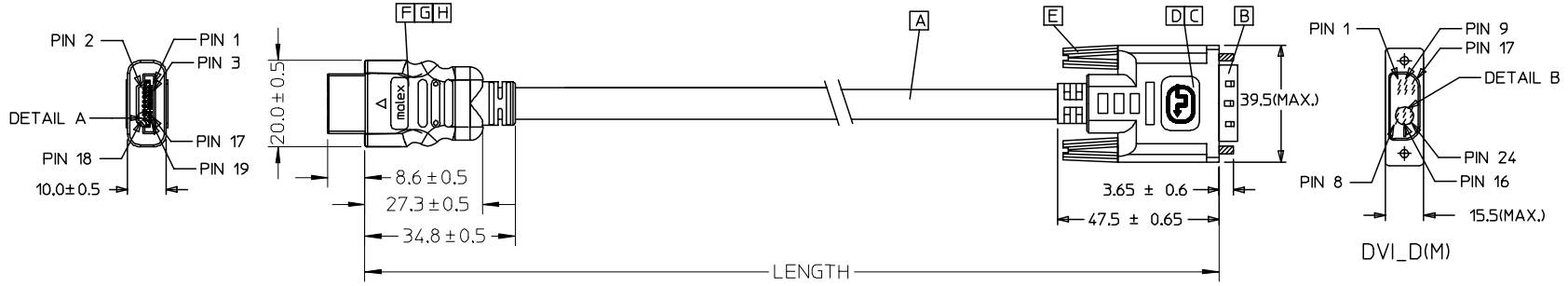
TITLE: HDMI(M) TO DVI-D(M) CABLE ASS'Y

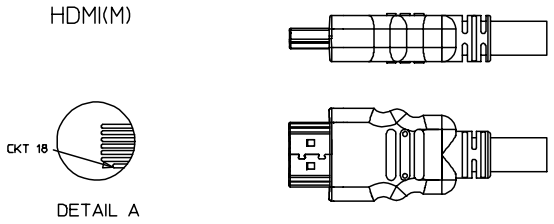
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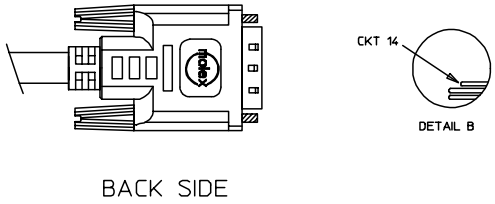
CAD FILENAME: S88768AA.SO2 | MATERIAL NO.: SEE TABLE | DRAWING NO.: SD-88768-001 | SHEET NO.: 2 OF 2

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SIZE A4







MX P/N	DESCRIPTION	LENGTH	CABLE COLOR	CABLE OD	CABLE P/N
88768-3530	HDMI TO DVI-D(M) CABLE ASS'Y,5M	5000 ± 100	BLACK	7.3MM(TMDS - AWG#28)	887808276
88768-3520	HDMI TO DVI-D(M) CABLE ASS'Y,3M	3000 ± 80	BLACK	7.3MM(TMDS - AWG#28)	887808276
88768-3510	HDMI TO DVI-D(M) CABLE ASS'Y,2M	2000 ± 60	BLACK	7.3MM(TMDS - AWG#28)	887808276
88768-3500	HDMI TO DVI-D(M) CABLE ASS'Y,1M	1000 ± 30	BLACK	7.3MM(TMDS - AWG#28)	887808276

ENTER DESCRIPTION
EC NO: DG2006-0144 2005/12/27
DRWN: JFZHENG 2005/12/30
CH'KD: 2006/01/16
APPR: DQLUO
DESCRIPTION
REV
E

QUALITY SYMBOLS
▼=0
Ⓒ=0

GENERAL TOLERANCES (UNLESS SPECIFIED)

	mm	INCH
4 PLACES	± ---	± ---
3 PLACES	± ---	± ---
2 PLACES	± ---	± ---
1 PLACE	± ---	± ---
ANGULAR ±---°		

DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS

DIMENSION STYLE: MM ONLY
SCALE: ---
DESIGN UNITS: METRIC
THIRD ANGLE PROJECTION

DRAWN BY: JFZHENG DATE: 2005/12/26
CHECKED BY: JFZHENG DATE: 2005/12/26
APPROVED BY: DQLUO DATE: 2005/12/26
MATERIAL NO.: ENTER PART

TITLE: #28 HDMI TO DVI 1M CABLE ASS'Y

molex MOLEX INCORPORATED

DOCUMENT NO.: SD-887683510
SHEET NO.: 1 OF 00

SIZE A4

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NOTE:

1. OVEMROLD SPECIFICATION:
   1.1 DVI BOOT MOLDED SNOW WHITE PVC RESIN 887800076,UL94V-0.
   1.2 HDMI INNERMOLD WITH BK PVC 887800019.
   HDMI OVERMOLD WITH PVC 887800150
   1.3 HDMI DUST COVER WITH PE 887800008

2. MECHANICAL SPECIFICATION
   2.1 CABLE SHOULD STAND THE PULL FORCE 89-111N FOR 30 SECONDS WITH NO VISIBLE TERMINATION DAMAGE.
   2.2 CABLE SHOULD PASS THE FLEX TEST IN 100 CYCLES AT EACH OF PLANES, PER EIA 364-41, CONDITION 1.
3. PRODUCT ELECTRICAL SPECIFICATION:
   3.1 DIELECTRIC STRENGTH.
   3.2 INSULATION RESISTANCE.
   3.3 CONDUCTIVE RESISTANCE.
   3.4 TMDS Signals Time Domain Impedence
   3.5 TMDS Signals Time Domain Crosstalk:FEXT
   3.6 TMDS Signals Skew
   3.7 Attenuation

REFER TO ES-002 ELECTRICAL SPECIFICATION FOR DETAILS.

4.CABLE CONSTRUCTION(CABLE
(AWG#28*1P+D)*4 + AWG#28*1P + AWG#28*3C, 7.3MMOD

5. DVI CONNECTOR SPECIFICATION(DVI
   5.1 REFER TO PRODUCT SPEC. PS74320-001
   5.2 CONTACT PLATING: AU FLASH.
6. THIS PRODUCT MUST MEET ROHS COMPLIANCE.

SHIELD	SHIELD	OVERALL SHIELD	GROUND
PIN 19	PIN 16	WHITE	HOT PLUG DETECT
PIN 18	PIN 14	YELLOW	POWER +5V
PIN 17	PIN 15	ORANGE	GROUND(+5V&DDC)
PIN 16	PIN 7	RED	DDC DATA(SDA)
PIN 15	PIN 6	VIOLET	DDC CLOCK(SCL)
PIN 12	PIN 24	WHITE	TMDS CLOCK-
PIN 11	PIN 22	BRAID	TMDS CLOCK SHIELD
PIN 10	PIN 23	BROWN	TMDS CLOCK+
PIN 9	PIN 17	WHITE	TMDS DATA 0-
PIN 8	PIN 19	BRAID	TMDS DATA 0 SHIELD
PIN 7	PIN 18	BLUE	TMDS DATA 0+
PIN 6	PIN 9	WHITE	TMDS DATA 1-
PIN 5	PIN 11	BRAID	TMDS DATA 1 SHIELD
PIN 4	PIN 10	GREEN	TMDS DATA 1+
PIN 3	PIN 1	WHITE	TMDS DATA 2-
PIN 2	PIN 3	BRAID	TMDS DATA 2 SHIELD
PIN 1	PIN 2	RED	TMDS DATA 2+
HDMI	DVI-D	COLOR	CABLE FUNCTION

ITEM	DESCRIPTION	QTY.
H	HDMI METAL PLATED 47152-6009	1
G	HDMI METAL CAN 47152-4001	1
F	HDMI HOUSING ASSY' 47152-1100	1
E	DVI THUMB SCREW 887806077	2
D	PCB 887899569/887899570	1
C	ONE BODY CAN 887899392	1
B	DVI_D SINGLE CHANNEL G/F CONNECTOR 743230001	1
A	DVI SINGLE LINK CABLE (SEE TABLE)	1

ENTER DESCRIPTION
EC NO: DG2006-0144 2005/12/27
DRWN: JFZHENG 2005/12/30
CH'KD: 2006/01/16
APPR: DQLUO
DESCRIPTION
REV

QUALITY SYMBOLS
▼=0
▽=5

GENERAL TOLERANCES (UNLESS SPECIFIED)

	mm	INCH
4 PLACES	± ---	± ---
3 PLACES	± ---	± ---
2 PLACES	± ---	± ---
1 PLACE	± ---	± ---
ANGULAR ±---°		

DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS

DIMENSION STYLE: MM ONLY
SCALE: ---
DESIGN UNITS: METRIC
THIRD ANGLE PROJECTION

DRAWN BY: JFZHENG DATE: 2005/12/26
CHECKED BY: JFZHENG DATE: 2005/12/26
APPROVED BY: DQLUO DATE: 2005/12/26
MATERIAL NO.

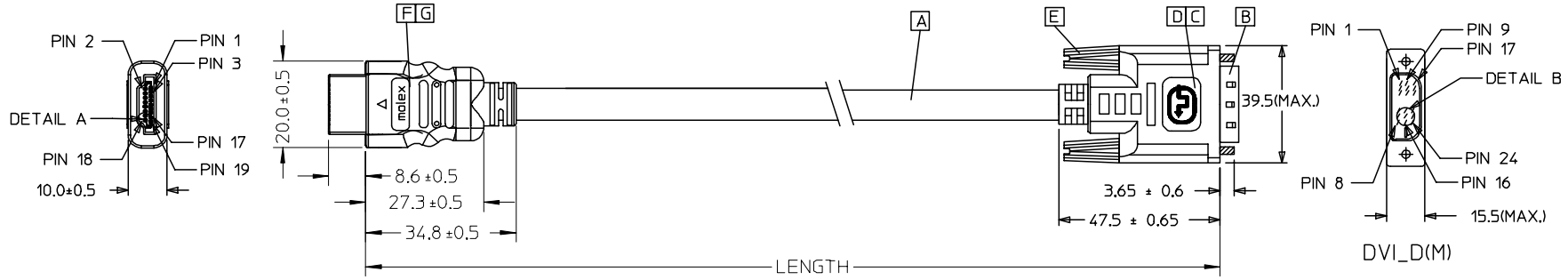
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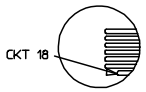
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SHEET NO.: 2 OF 2

SIZE: A4

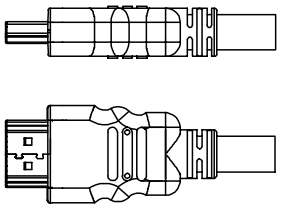
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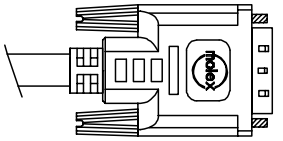
HDMI(M)



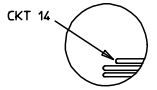
DETAIL A



BACK SIDE



BACK SIDE



DETAIL B

MX P/N	DESCRIPTION	LENGTH	CABLE COLOR	CABLE OD	CABLE P/N
88768-3530	HDMI TO DVI-D(M) CABLE ASS'Y,5M	5000 ± 100	BLACK	7.3MM(TMDS - AWG#28)	887808276
88768-3520	HDMI TO DVI-D(M) CABLE ASS'Y,3M	3000 ± 80	BLACK	7.3MM(TMDS - AWG#28)	887808276
88768-3510	HDMI TO DVI-D(M) CABLE ASS'Y,2M	2000 ± 60	BLACK	7.3MM(TMDS - AWG#28)	887808276
88768-3500	HDMI TO DVI-D(M) CABLE ASS'Y,1M	1000 ± 30	BLACK	7.3MM(TMDS - AWG#28)	887808276

ENTER DESCRIPTION
EC NO: DG2005-0094 2005/01/18
DRWN: JLIU13 2005/01/18
CH'KD: TEDDY 2005/01/20
APPR: TKAN
DESCRIPTION
D
REV

QUALITY SYMBOLS
▼=0
▽=0

GENERAL TOLERANCES (UNLESS SPECIFIED)

	mm	INCH
4 PLACES	± ---	± ---
3 PLACES	± ---	± ---
2 PLACES	± ---	± ---
1 PLACE	± ---	± ---

ANGULAR ±---°

DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS

DIMENSION STYLE: MM ONLY
SCALE: ---
DESIGN UNITS: METRIC
THIRD ANGLE PROJECTION

DRAWN BY: JLIU13 DATE: 2005/01/18
CHECKED BY: TEDDY DATE: 2005/01/18
APPROVED BY: BORON DATE: 2005/01/18
MATERIAL NO.: 887683510

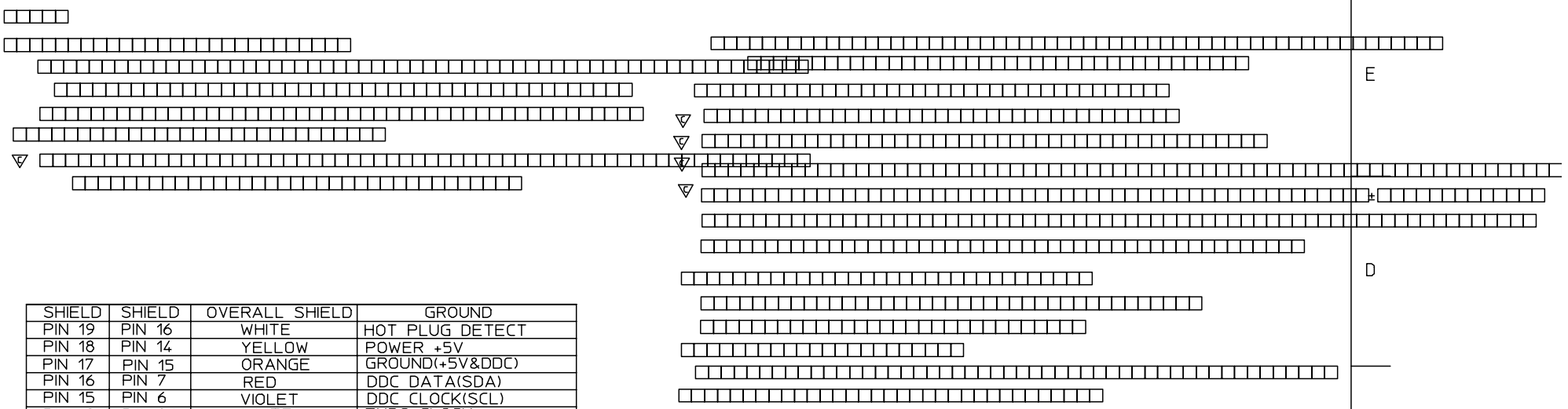
TITLE: #28 HDMI TO DVI 2M CABLE ASS'Y

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DOCUMENT NO.: SD887683510
SHEET NO.: 1 OF 2

SIZE A4

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SHIELD	SHIELD	OVERALL SHIELD	GROUND
PIN 19	PIN 16	WHITE	HOT PLUG DETECT
PIN 18	PIN 14	YELLOW	POWER +5V
PIN 17	PIN 15	ORANGE	GROUND(+5V&DDC)
PIN 16	PIN 7	RED	DDC DATA(SDA)
PIN 15	PIN 6	VIOLET	DDC CLOCK(SCL)
PIN 12	PIN 24	WHITE	TMDS CLOCK-
PIN 11	PIN 22	BRAID	TMDS CLOCK SHIELD
PIN 10	PIN 23	BROWN	TMDS CLOCK+
PIN 9	PIN 17	WHITE	TMDS DATA 0-
PIN 8	PIN 19	BRAID	TMDS DATA 0 SHIELD
PIN 7	PIN 18	BLUE	TMDS DATA 0+
PIN 6	PIN 9	WHITE	TMDS DATA 1-
PIN 5	PIN 11	BRAID	TMDS DATA 1 SHIELD
PIN 4	PIN 10	GREEN	TMDS DATA 1+
PIN 3	PIN 1	WHITE	TMDS DATA 2-
PIN 2	PIN 3	BRAID	TMDS DATA 2 SHIELD
PIN 1	PIN 2	RED	TMDS DATA 2+
HDMI	DVI-D	COLOR	CABLE FUNCTION

ITEM	DESCRIPTION	QTY.
G	HDMI METAL CAN 5011840118	1
F	HDMI HOUSING ASSY' 5011850001	1
E	DVI THUMB SCREW 887806077	2
D	PCB 887899569/887899570	1
C	ONE BODY CAN 887899392	1
B	DVI_D SINGLE CHANNEL G/F CONNECTOR 743230001	1
A	DVI SINGLE LINK CABLE (SEE TABLE)	1

ENTER DESCRIPTION
EC NO: DG2005-0094 2005/01/18
DRWN: JLIU13 2005/01/18
CH'KD: TEDDY 2005/01/18
APPR: TKAN 2005/01/20
DESCRIPTION
D
REV

QUALITY SYMBOLS
▼=0
▽=5

GENERAL TOLERANCES (UNLESS SPECIFIED)

	mm	INCH
4 PLACES	± ---	± ---
3 PLACES	± ---	± ---
2 PLACES	± ---	± ---
1 PLACE	± ---	± ---
ANGULAR ±---°		

DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS

DIMENSION STYLE: MM ONLY
SCALE: ---
DESIGN UNITS: METRIC
THIRD ANGLE PROJECTION

DRAWN BY: JLIU13 DATE: 2005/01/18
CHECKED BY: TEDDY DATE: 2005/01/18
APPROVED BY: BORON DATE: 2005/01/18

TITLE: #28 HDMI TO DVI 2M CABLE ASS'Y

MOLEX INCORPORATED

MATERIAL NO.: 887683510
DOCUMENT NO.: SD887683510
SHEET NO.: 2 OF 2
SIZE: A4

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