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Part Number: [0887683510](#)
Status: **Active**
Overview: [high_definition_multimedia_interface_hdmi](#)
Description: HDMI*-to-DVI-Digital Cable Assembly, 28 AWG, 2.0m (6.56') Length

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

General	
Product Family	Cable Assemblies
Series	88768
Connector to Connector	HDMI*-to-DVI-Digital
Overview	high_definition_multimedia_interface_hdmi
Product Name	HDMI*
Physical	
Cable Length	2.0m (6.56')
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

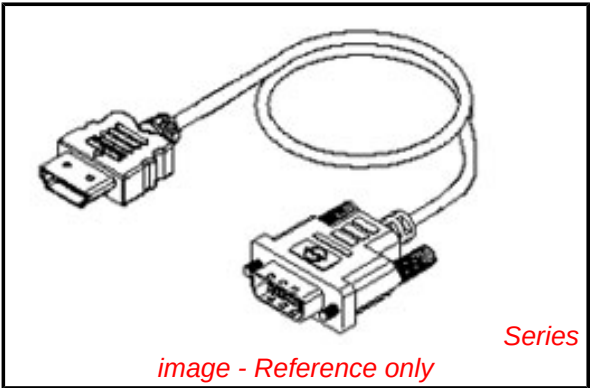
Electrical	
Current - Maximum per Contact	0.5A
Impedance	100 ohms
Shielded	Yes
Voltage - Maximum	40V

Material Info

Reference - Drawing Numbers

Product Specification PS-88768-001, RPS-88768-003
Sales Drawing SD-88768-3510, SD-887683510, SD887683510

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



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

China RoHS

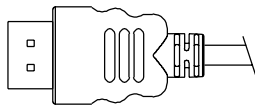
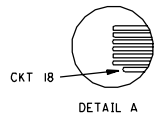
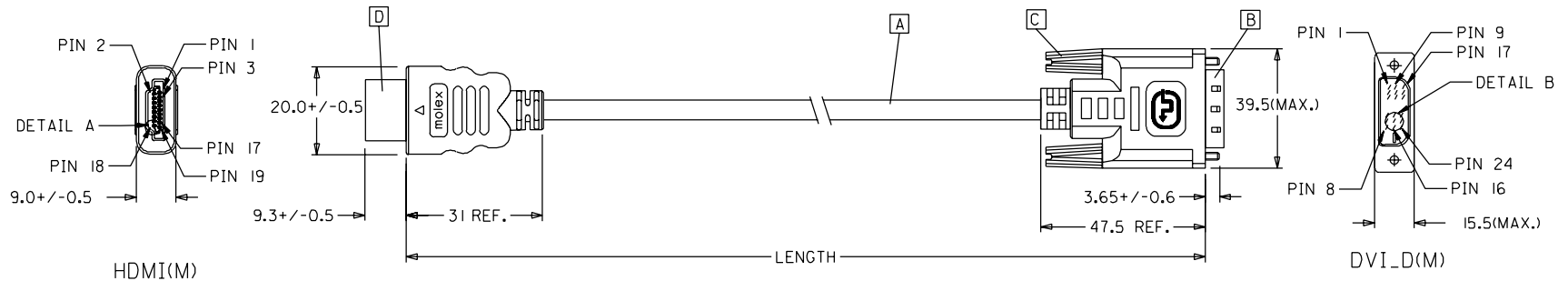
Pb

Need more information on product environmental compliance?

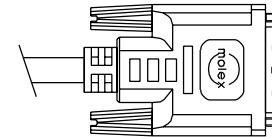
Email productcompliance@molex.com
For a multiple part number RoHS Certificate of Compliance, [click here](#)

Please visit the [Contact Us](#) section for any non-product compliance questions.

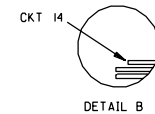
Search Parts in this Series
[88768Series](#)



BACK SIDE



BACK SIDE



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

EC NO. DRWN: CHK: APPR: C	DESCRIPTION	QUALITY SYMBOLS MAJOR ▼ = 0 CRITICAL ▽ = 0	GENERAL TOLERANCES: (UNLESS SPECIFIED)		SCALE N.S.T	DESIGN UNITS ☒ mm ☐ INCH		THIRD ANGLE PROJECTION	☐ mm INCH	☐ INCH mm	☒ mm ONLY	REVISE ON CAD ONLY				
			mm INCH		DRAWN BY & DATE Louis Chen 03/11/17		TITLE: HDMI(M) TO DVI-D(M) CABLE ASS'Y									
			4 PLACES ±0. ±.		CHECKED BY & DATE Teddy Kan 03/11/17											
			3 PLACES ±0. ±.		APPROVED BY & DATE Baron Chen 03/11/17		 MOLEX INCORPORATED									
			2 PLACES ±0. ±.		CAD FILENAME S88768AA.SOI										MATERIAL NO. SEE TABLE	
			1 PLACE ±0. ±.		ANGULAR: ± °		THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION.								SIZE A4	
			REV													

6

5

4

3

2

1

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 1.

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).

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

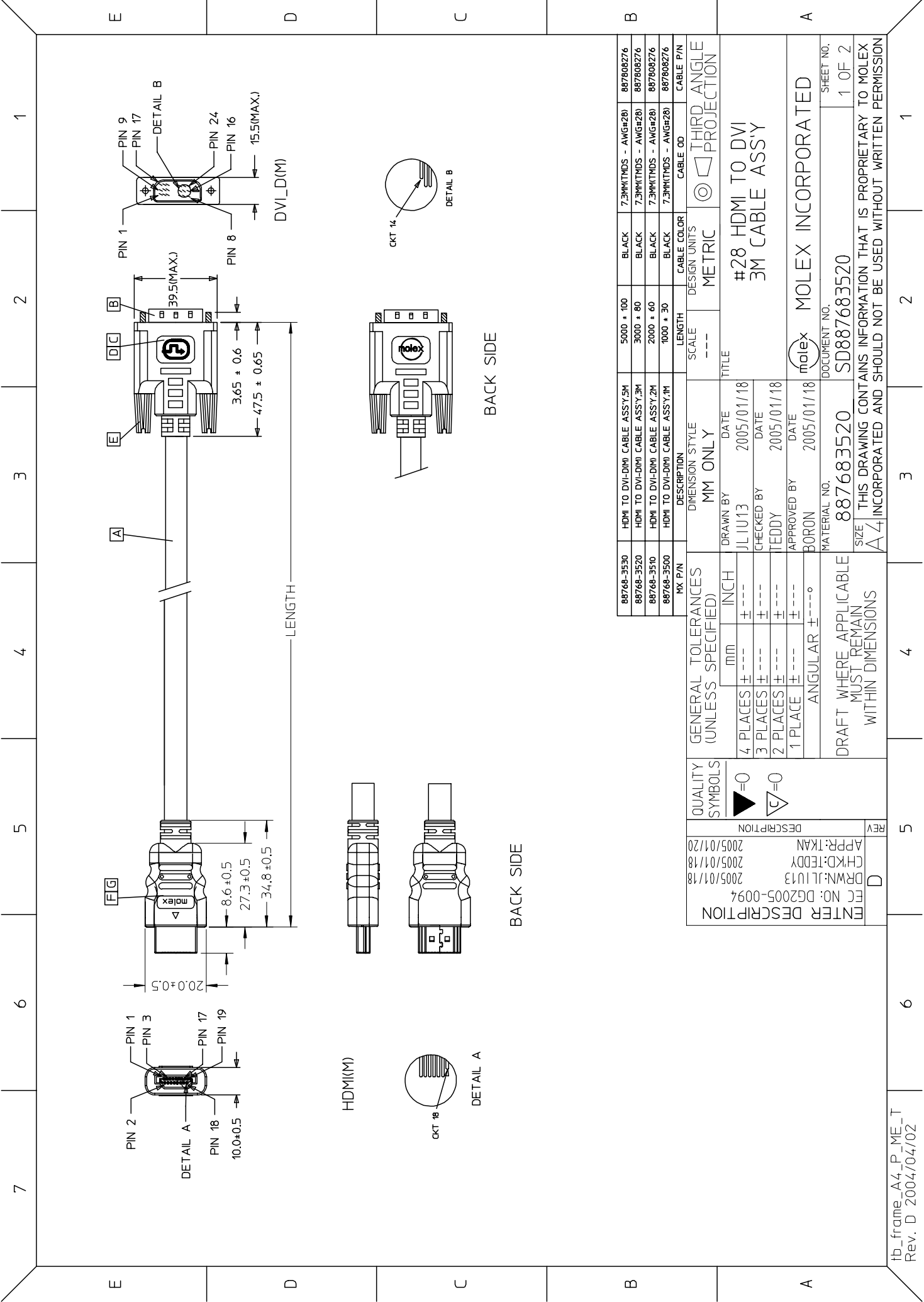
D	HDMI PLUG ASSY'	1
C	DVI THUMB SCREW	2
B	DVI-D SINGLE CHANNEL G/F CONNECTOR	1
A	DVI SINGLE LINK CABLE (SEE TABLE)	1
ITEM	DESCRIPTION	QTY.

EC NO. DRWN: CHK: APPR:	DESCRIPTION REV	QUALITY SYMBOLS	GENERAL TOLERANCES: (UNLESS SPECIFIED)		SCALE N.S.T	DESIGN UNITS ☒ mm ☐ INCH	THIRD ANGLE PROJECTION 	☐ mm INCH ☐ mm ONLY	SHT	REV	
		MAJOR ▼ = 0	mm	INCH	DRAWN BY & DATE Louis Chen 03/11/17	TITLE: HDMI(M) TO DVI-D(M) CABLE ASS'Y					
		CRITICAL ▽ = 5	4 PLACES ±0.1	±.1	CHECKED BY & DATE Teddy Kan 03/11/17	MOLEX INCORPORATED					
			2 PLACES ±0.1	±.1	APPROVED BY & DATE Boron Chen 03/11/17	MATERIAL NO. SEE TABLE					
			1 PLACE ±0.1	±.1	CAD FILENAME S88768AA.S02	DRAWING NO. SD-88768-001		SHEET NO. 2 OF 2		SIZE A4	
					THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION.						

7		6		5		4		3		2		1																																																																																					
E	NOTE: 1. OVERMOLD 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												E																																																																																				
D	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												D																																																																																				
C	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.												C																																																																																				
B	<table><tr><td>H</td><td>HDMI METAL PLATED 47152-6009</td><td>1</td></tr><tr><td>G</td><td>HDMI METAL CAN 47152-4001</td><td>1</td></tr><tr><td>F</td><td>HDMI HOUSING ASSY' 47152-1100</td><td>1</td></tr><tr><td>E</td><td>DVI THUMB SCREW 887806077</td><td>2</td></tr><tr><td>D</td><td>PCB 887899569/887899570</td><td>1</td></tr><tr><td>C</td><td>ONE BODY CAN 887899392</td><td>1</td></tr><tr><td>B</td><td>DVLD SINGLE CHANNEL G/F CONNECTOR 743230001</td><td>1</td></tr><tr><td>A</td><td>DVI SINGLE LINK CABLE (SEE TABLE)</td><td>1</td></tr></table>												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	DVLD SINGLE CHANNEL G/F CONNECTOR 743230001	1	A	DVI SINGLE LINK CABLE (SEE TABLE)	1	B																																																												
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FNZTFR DESCRIPTION	REV
FC NO: DG2006-0144	E
DRWN: JFZHENG	
CHKD: 2005/12/30	
APPR: DQLUO 2006/01/16	
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	



88768-3530	HDMI TO DVI-DM0 CABLE ASSY,5M	5000 ± 100	BLACK	7.3MMTMS - AWG#28	887808276
88768-3520	HDMI TO DVI-DM0 CABLE ASSY,3M	3000 ± 80	BLACK	7.3MMTMS - AWG#28	887808276
88768-3510	HDMI TO DVI-DM0 CABLE ASSY,2M	2000 ± 60	BLACK	7.3MMTMS - AWG#28	887808276
88768-3500	HDMI TO DVI-DM0 CABLE ASSY,1M	1000 ± 30	BLACK	7.3MMTMS - AWG#28	887808276

MX P/N	DESCRIPTION	SCALE	DESIGN UNITS	CABLE OD	CABLE P/N
	MM ONLY	---	METRIC		

GENERAL TOLERANCES (UNLESS SPECIFIED)	THIRD ANGLE PROJECTION
4 PLACES ± ---	#28 HDMI TO DVI 3M CABLE ASSY
3 PLACES ± ---	
2 PLACES ± ---	
1 PLACE ± ---	

ANGULAR ± ---°	
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DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS	MATERIAL NO. 887683520	DOCUMENT NO. SD887683520	SHEET NO. 1 OF 2
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THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX A4 INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION			
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QUALITY SYMBOLS	REVISION
ENTER DESCRIPTION EC NO: DG2005-0094 DRWN: JLIU13 CHKD: TEDDY APPR: IKAN 2005/01/18	DESCRIPTION 2005/01/20

1	2	3	4	5	6	7
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[illegible]