

Series image - Reference only

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Search Parts in this Series

88768 Series

Part Number: **0887683500**

Status: **Active** **Overview:** HDMI High Definition Multimedia Interface

Description: HDMI* to DVI-Digital Cable Assembly, 28 AWG, 1.0m (3.28')
Length

General

Product Family	Cable Assemblies
Series	<u>88768</u>
Connector to Connector	HDMI* to DVI-Digital
Overview	<u>HDMI High Definition Multimedia Interface</u>
Product Name	HDMI*

Physical

Cable Length	1.0m (3.28')
Circuits (Loaded)	19
Color - Resin	Black
Color - Resin	Natural
Gender	Male-Male
Lock to Mating Part	Yes
Material - Metal	High Performance Alloy (HPA)
Material - Metal	Phosphor Bronze
Material - Plating Mating	Gold
Material - Plating Termination	Tin
Material - Resin	High Temperature Thermoplastic
Material - Resin	Low Density Polyethylene
Material - Resin	Polyester
Packaging Type	Bag
Pitch - Mating Interface (in)	0.039 In
Pitch - Mating Interface (mm)	1.00 mm

Plating min: Mating (uin)	10
Plating min: Mating (uin)	32
Plating min: Mating (um)	0.25
Plating min: Mating (um)	0.8
Plating min: Termination (uin)	150
Plating min: Termination (uin)	50.8
Plating min: Termination (um)	1.27
Plating min: Termination (um)	3.75
Single Ended	No
Termination Interface: Style	Solder or Weld
Termination Interface: Style	Through Hole
Wire Insulation Diameter	N/A
Wire Size AWG	28
Wire/Cable Type	Round

Electrical

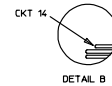
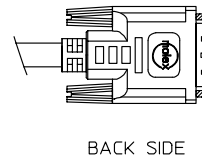
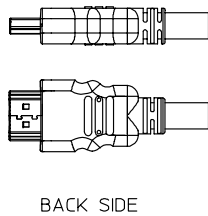
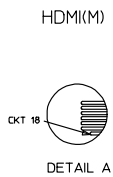
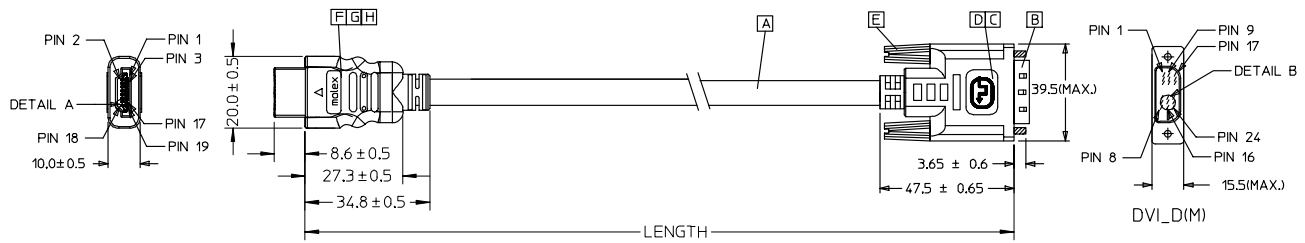
Current - Maximum	0.500 Amp
Impedance	100 ohms
Shielded	Yes
Voltage - Maximum	40V

Material Info

Reference - Drawing Numbers

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

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



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

ENTER DESCRIPTION EC NO: DG2006-0144 DRAWN: JFZHENG CHKD: 2005/12/26 APPR: DQLUO 2006/01/16	DESCRIPTION REV	QUALITY SYMBOLS	GENERAL TOLERANCES (UNLESS SPECIFIED) <table border="1"> <tr> <th></th> <th>mm</th> <th>INCH</th> </tr> <tr> <td>4 PLACES</td> <td>±---</td> <td>±---</td> </tr> <tr> <td>3 PLACES</td> <td>±---</td> <td>±---</td> </tr> <tr> <td>2 PLACES</td> <td>±---</td> <td>±---</td> </tr> <tr> <td>1 PLACE</td> <td>±---</td> <td>±---</td> </tr> <tr> <td colspan="3">ANGULAR ±---°</td> </tr> </table>		mm	INCH	4 PLACES	±---	±---	3 PLACES	±---	±---	2 PLACES	±---	±---	1 PLACE	±---	±---	ANGULAR ±---°			DIMENSION STYLE MM ONLY	SCALE ---	DESIGN UNITS METRIC	THIRD ANGLE PROJECTION
				mm	INCH																				
		4 PLACES		±---	±---																				
		3 PLACES		±---	±---																				
		2 PLACES		±---	±---																				
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ANGULAR ±---°																									
		DRAWN BY: JFZHENG DATE: 2005/12/26 CHECKED BY: JFZHENG DATE: 2005/12/26 APPROVED BY: DQLUO DATE: 2005/12/26	TITLE: #28 HDMI TO DVI 1M CABLE ASS'Y																						
		MATERIAL NO. ENTER PART	MOLEX INCORPORATED DOCUMENT NO. SD-887683500																						
		DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS	THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION																						
		SIZE A4	SHEET NO. 1 OF 00																						

7 6 5 4 3 2 1

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

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.

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

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.

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 DRWN: JFZHENG CHKD: 2005/12/26 APPR: DQLUO 2006/01/16	QUALITY SYMBOLS ▽=0 ▽=5	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE MM ONLY		SCALE	DESIGN UNITS	THIRD ANGLE PROJECTION
		mm	INCH	---	METRIC			
DESCRIPTION REV	▽=0 ▽=5	4 PLACES	±---	±---	DRAWN BY JFZHENG	DATE 2005/12/26	TITLE #28 HDMI TO DVI 1M CABLE ASS'Y	MATERIAL NO. 887683500
		3 PLACES	±---	±---	CHECKED BY JFZHENG	DATE 2005/12/26		
		2 PLACES	±---	±---	APPROVED BY DQLUO	DATE 2005/12/26		
		1 PLACE	±---	±---	MOLEX INCORPORATED			
		ANGULAR ±---°		DOCUMENT NO. SD-887683500		SHEET NO. 2 OF 2		
DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		SIZE A4 THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION						

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Rev. D 2004/04/02

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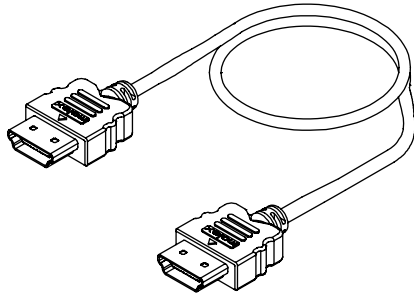
High Definition Multimedia Interface* (HDMI) Shielded I/O Cable Assembly/Adapter

88768

**HDMI to HDMI
HDMI to DVI**

88764

HDMI Adapters



Features and Benefits

- Compact, user-friendly design meets consumer equipment needs
- 5 Gbps bandwidth supports uncompressed audio/video in a single cable
- HDMI-DVI cables DVI backward compatible
- Fully shielded ESD protection

Reference Information

Product Specification: PS-88768-001 and PS-88768-002
Packaging: Bag or custom-specified
Mates With: HDMI and DVI header
Designed In: Millimeters

Electrical

Voltage: 40V
Current: 0.5A
Contact Resistance: 30 milliohms max.
Dielectric Withstanding Voltage: 300 AC (rms)
Insulation Resistance: 100 Megohms min.

Mechanical

Insertion Force: 44.1N max.
Withdraw Force: 39.2N max.
9.2N min.
Durability: 10000 cycle

Physical

Contact: Copper Alloy
Plating: Contact Area—0.75µm (30µ") min. Gold
Underplating: Nickel
Wire Gauge: 28, 30 AWG
Operating Temperature: 0 to +50°C

Cable Assembly Lengths (mm)	Wire Gauge (AWG)	Order No.	Description	Lead-free
1000	28	88768-3500	HDMI to DVI	Yes
2000		88768-3510		
3000		88768-3520		
5000		88768-3530		
1000	30	88768-3600	HDMI to DVI	
2000		88768-3610		
3000		88768-3620		
1000	28	88768-9800	HDMI to HDMI	
2000		88768-9810		
3000		88768-9820		
5000		88768-9830		
1000	30	88768-9900	HDMI to HDMI	
2000		88768-9910		
3000		88768-9920		

Order No.	Adapters Description	Lead-free
88764-2000	HDMI Male to DVI Female	Yes
88767-0600	HDMI Female to DVI Male	
88764-5900	HDMI Female to P&D (M1) Male	

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