

Series image - Reference only

EU RoHS

ELV and RoHS Compliant

China RoHS



Search Parts in this Series

88768 Series

Part Number: **0887689800**

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

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

General

Product Family	Cable Assemblies
Series	88768
Connector to Connector	HDMI* to HDMI*
Overview	HDMI High Definition Multimedia Interface
Product Name	HDMI*

Physical

Cable Length	1.0m (3.28')
Circuits (Loaded)	19
Color - Resin	Natural
Gender	Male-Male
Lock to Mating Part	Yes
Material - Metal	High Performance Alloy (HPA)
Material - Plating Mating	Gold
Material - Plating Termination	Tin
Material - Resin	High Temperature Thermoplastic
Material - Resin	Low Density Polyethylene
Packaging Type	Bag
Pitch - Mating Interface (in)	0.039 In
Pitch - Mating Interface (mm)	1.00 mm
Plating min: Mating (uin)	32
Plating min: Mating (um)	0.8
Plating min: Termination (uin)	50.8

Plating min: Termination (um)	1.27
Single Ended	No
Termination Interface: Style	Through Hole
Wire Insulation Diameter	N/A
Wire Size AWG	28
Wire/Cable Type	Round

Electrical

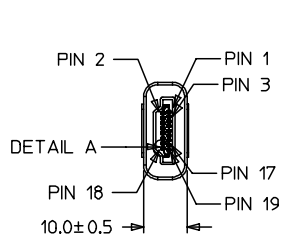
Current - Maximum	0.500 Amp
Impedance	100 ohms
Shielded	Yes
Voltage - Maximum	40V

Material Info

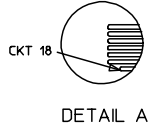
Reference - Drawing Numbers

Product Specification	PS-88768-002
Sales Drawing	SD-887689800

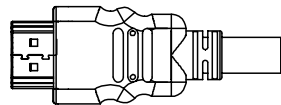
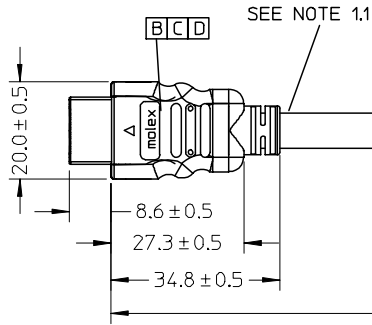
*High Definition Multimedia Interface and HDMI are trademarks of HDMI Licensing, LLC.



HDMI(M)



DETAIL A

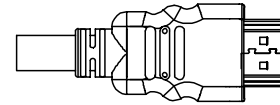
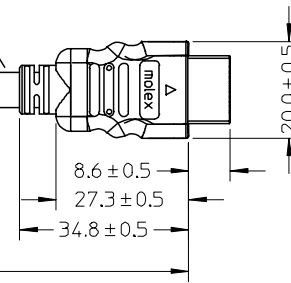


BACK SIDE

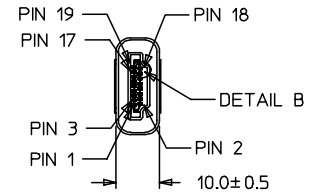
SEE NOTE 1.1

LENGTH

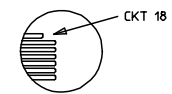
SEE NOTE 1.1



BACK SIDE



HDMI(M)



DETAIL B

88768-9830	HDMI TO HDMI CABLE ASS'Y,5M	5000 ± 100	BLACK	7.3MM(TMDS - AWG#28)	887808610
88768-9820	HDMI TO HDMI CABLE ASS'Y,3M	3000 ± 80	BLACK	7.3MM(TMDS - AWG#28)	887808610
88768-9810	HDMI TO HDMI CABLE ASS'Y,2M	2000 ± 60	BLACK	7.3MM(TMDS - AWG#28)	887808610
88768-9800	HDMI TO HDMI CABLE ASS'Y,1M	1000 ± 30	BLACK	7.3MM(TMDS - AWG#28)	887808610
MX P/N	DESCRIPTION	LENGTH	CABLE COLOR	CABLE OD	CABLE P/N

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

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		SCALE
MM ONLY		---
DRAWN BY	DATE	TITLE
JFZHENG	2005/12/26	AWG28 HDMI TO HDMI CABLE ASS'Y
CHECKED BY	DATE	
JFZHENG	2005/12/26	
APPROVED BY	DATE	
DQLUO	2005/12/26	

THIRD ANGLE PROJECTION
MOLEX INCORPORATED
MATERIAL NO. ENTER PART
DOCUMENT NO. SD-887689800
SHEET NO. 1 OF 00

NOTE:

1. OVMOLD SPECIFICATION:
 - 1.1 HDMI INNERMOLD WITH BK PVC 887800019.
 - 1.2 HDMI OVERMOLD WITH PVC 887800150.
2. MECHANICAL SPECIFICATION:

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

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



(AWG#28*1P+D)*4 + AWG#28*1P + AWG#28*5C, 7.3MMOD

5. THIS PRODUCT MUST MEET ROHS COMPLIANCE.

WIRE DIAGRAM:

SHIELD	SHIELD	OVERALL SHIELD	GROUND
PIN 19	PIN 19	PINK	HOT PLUG DETECT
PIN 18	PIN 18	ORANGE	+5V POWER
PIN 17	PIN 17	YELLOW	DDC/CEC GROUND
PIN 16	PIN 16	WHITE	SDA
PIN 15	PIN 15	RED	SCL
PIN 14	PIN 14	VIOLET	RESERVED
PIN 13	PIN 13	GRAY	CEC
PIN 12	PIN 12	WHITE	TMDS CLOCK-
PIN 11	PIN 11	BRAID	TMDS CLOCK SHIELD
PIN 10	PIN 10	WHITE/BLACK	TMDS CLOCK+
PIN 9	PIN 9	WHITE	TMDS DATA 0-
PIN 8	PIN 8	BRAID	TMDS DATA 0 SHIELD
PIN 7	PIN 7	WHITE/BLUE	TMDS DATA 0+
PIN 6	PIN 6	WHITE	TMDS DATA 1-
PIN 5	PIN 5	BRAID	TMDS DATA 1 SHIELD
PIN 4	PIN 4	WHITE/GREEN	TMDS DATA 1+
PIN 3	PIN 3	WHITE	TMDS DATA 2-
PIN 2	PIN 2	BRAID	TMDS DATA 2 SHIELD
PIN 1	PIN 1	WHITE/RED	TMDS DATA 2+
HDMI	HDMI	COLOR	CABLE FUNCTION

D	SMALL METAL PLATE 47152-6009		2
C	HDMI METAL CAN 47152-4001		2
B	HDMI HOUSING ASSY' 47152-1100		2
A	HDMI SINGLE LINK CABLE (SEE TABLE)		1
ITEM	DESCRIPTION	L	QTY.

ENTER DESCRIPTION EC NO: DG2006-0144 TDRWN: JFZHENG CHKD: APPR: DQLUO	2005/12/27 2005/12/30 2006/01/16	QUALITY SYMBOLS  = 0  = 0	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE		SCALE	DESIGN UNITS	THIRD ANGLE PROJECTION			
					MM ONLY		---	METRIC				
			4 PLACES	± ---	± ---	DRAWN BY	DATE	TITLE				
			3 PLACES	± ---	± ---	JFZHENG	2005/12/26	AWG28 HDMI TO HDMI CABLE ASS'Y				
2 PLACES	± ---	± ---	CHECKED BY	DATE								
1 PLACE	± ---	± ---	JFZHENG	2005/12/26	MOLEX INCORPORATED							
ANGULAR ± ---°		APPROVED BY		DATE								
DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		MATERIAL NO.		DOCUMENT NO.		SHEET NO.						
		ENTER PART		SD-887689800		2 OF 00						
		SIZE		THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION								
		A 4										

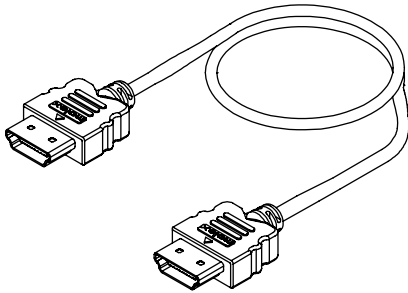
High Definition Multimedia Interface* (HDMI) Shielded I/O Cable Assembly/Adapter

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		
5000		88768-3630		
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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