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88744 Series

Part Number: **0887667400**

Status: **Active** **Overview:** LFH™

Description: 1.27mm (.050") Pitch LFH™ (M) To Two VGA (F) Adapter Cable Assemblies, 0.20m (7.87") Length

General

| | |
|------------------------|------------------|
| Product Family | Cable Assemblies |
| Series | <u>88744</u> |
| Connector to Connector | LFHV to VGA |
| Obsolete Date | 2003-01-01 |
| Overview | <u>LFH™</u> |
| Product Name | LFH™ |

Physical

| | |
|--------------------------------|--------------------------------|
| Cable Length | 0.20m (7.87") |
| Circuits (Loaded) | 60 |
| Color - Resin | Black |
| Gender | Male-Female |
| Lock to Mating Part | Yes |
| Material - Metal | Aluminum |
| Material - Plating Mating | n/a |
| Material - Plating Termination | Tin |
| Material - Resin | High Temperature Thermoplastic |
| Packaging Type | Bag |
| Pitch - Mating Interface (in) | 0.050 In |
| Pitch - Mating Interface (mm) | 1.27 mm |
| Single Ended | No |
| Termination Interface: Style | N/A |
| Wire Insulation Diameter | N/A |
| Wire Size AWG | 32 |
| Wire/Cable Type | Round |

Electrical

| | |
|-----------|----------|
| Impedance | 100 ohms |
| Shielded | Yes |

Voltage - Maximum 30VAC

Material Info

Reference - Drawing Numbers

Sales Drawing SD-88744-026

6

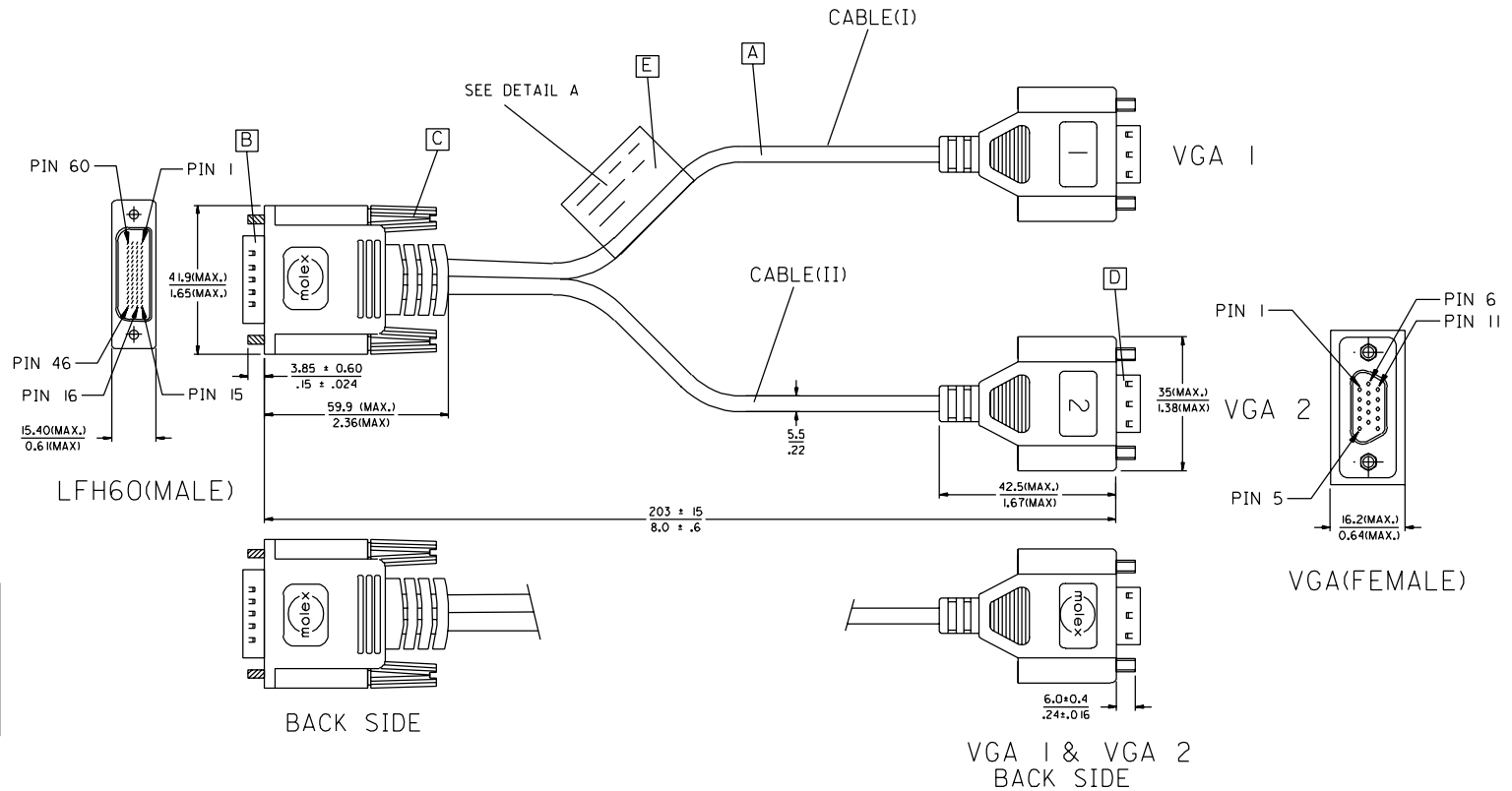
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MOLEX P/N:
887-6674-00
REV.D

DETAIL A

| | | | | | | | | | | | |
|---|---|---|---|---|--------------------|---|---|--|--|---|-----------------------------|
| EC NO. DRWN: METTLE03/03/06 CHK: APPR: | EC NO. DRWN: K. MA 02/07/22 CHK: APPR: | EC NO. DRWN: K. MA 02/05/27 CHK: APPR: | EC NO. DRWN: K. MA 02/04/10 CHK: APPR: | EC NO. DRWN: K. MA 02/02/08 CHK: APPR: | DESCRIPTION REV | QUALITY SYMBOLS MAJOR = CRITICAL = | GENERAL TOLERANCES: (UNLESS SPECIFIED) | SCALE N.S.T | DESIGN UNITS <input checked="" type="checkbox"/> mm <input type="checkbox"/> INCH | THIRD ANGLE PROJECTION <input checked="" type="checkbox"/> mm <input type="checkbox"/> INCH <input type="checkbox"/> mm ONLY | SHT REV |
| D1 | D | C2 | C1 | C | | 4 PLACES ±0. ±. 3 PLACES ±0. ±. 2 PLACES ±0. ±. 1 PLACE ±0. ±. | mm INCH | DRAWN BY & DATE METTLE 03/03/06 | TITLE: LFH60(M) TO TWO VGA(F) ADAPTER CABLE | | REVISION ON CAD ONLY |
| | | | | | | ANGULAR: ± ° | | APPROVED BY & DATE T.WONG 02/07/22 | MATERIAL NO. 88766-7400 | | DRAWING NO. SD-88744-002 |
| | | | | | | | | CAD FILENAME S88744AZ.S01 | DRAWING NO. SD-88744-002 | | SHEET NO. 1 OF 3 |
| | | | | | | | | THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION. | | SIZE A4 | |

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WIRING DIAGRAM:

| SHIELD | SHIELD | GROUND |
|--------|--------|---------------------|
| PIN 60 | PIN 7 | GROUND(GREEN) |
| PIN 59 | PIN 2 | RGB1_GREEN |
| PIN 57 | PIN 5 | GROUND(ANALOG) |
| PIN 56 | PIN 13 | RGB1_HSYNC |
| PIN 55 | PIN 14 | RGB1_VSYNC |
| PIN 54 | PIN 10 | GROUND(SYNCS) |
| PIN 7 | PIN 12 | RGB1_SDA(DDC DATA) |
| PIN 6 | PIN 15 | RGB1_SCL(DDC CLOCK) |
| PIN 5 | PIN 9 | +5V |
| PIN 4 | PIN 8 | GROUND(BLUE) |
| PIN 3 | PIN 3 | RGB1_BLUE |
| PIN 2 | PIN 1 | RGB1_RED |
| PIN 1 | PIN 6 | GROUND(RED) |
| LFH60 | VGA1 | CABLE FUNCTION |

| SHIELD | SHIELD | GROUND |
|--------|--------|---------------------|
| PIN 46 | PIN 7 | GROUND(GREEN) |
| PIN 47 | PIN 2 | RGB2_GREEN |
| PIN 49 | PIN 5 | GROUND(ANALOG) |
| PIN 50 | PIN 13 | RGB2_HSYNC |
| PIN 51 | PIN 14 | RGB2_VSYNC |
| PIN 52 | PIN 10 | GROUND(SYNCS) |
| PIN 9 | PIN 12 | RGB2_SDA(DDC DATA) |
| PIN 10 | PIN 15 | RGB2_SCL(DDC CLOCK) |
| PIN 11 | PIN 9 | +5V |
| PIN 12 | PIN 8 | GROUND(BLUE) |
| PIN 13 | PIN 3 | RGB2_BLUE |
| PIN 14 | PIN 1 | RGB2_RED |
| PIN 15 | PIN 6 | GROUND(RED) |
| LFH60 | VGA2 | CABLE FUNCTION |

| | | | | | | | | | | | | | |
|---|---|---|---|---|--------------------|---|---|----------------------------|--|---------------------------|--|------------------------------------|-------------------------------------|
| EC NO. DRWN: METTLE03/03/06 CHK: APPR: | EC NO. DRWN: K. MA 02/07/22 CHK: APPR: | EC NO. DRWN: K. MA 02/05/27 CHK: APPR: | EC NO. DRWN: K. MA 02/04/10 CHK: APPR: | EC NO. DRWN: K. MA 02/02/08 CHK: APPR: | DESCRIPTION REV | QUALITY SYMBOLS | GENERAL TOLERANCES: (UNLESS SPECIFIED) | SCALE N.S.T | DESIGN UNITS <input checked="" type="checkbox"/> mm <input type="checkbox"/> INCH | THIRD ANGLE PROJECTION | <input checked="" type="checkbox"/> mm INCH <input type="checkbox"/> mm ONLY | SHT | REV |
| | | | | | | MAJOR ▼ = CRITICAL ▽ = | 4 PLACES ±0. ±. | 3 PLACES ±0. ±. | 2 PLACES ±0. ±. | 1 PLACE ±0. ±. | ANGULAR: ± ° | DRAWN BY & DATE METTLE 03/03/06 | CHECKED BY & DATE MACKY 03/03/06 |
| | | | | | | TITLE: LFH60(M) TO TWO VGA(F) ADAPTER CABLE | | MOLEX INCORPORATED | | | | | |
| | | | | | | THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION. | | | | | | SIZE A4 | |

WBORD_A.BOR REV A
97/05/14 LEVEL 3

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NOTE:1. OVERMOLD SPECIFICATION

1.1 LFH60 BOOT MOLDED WITH BLACK PVC RESIN, UL94V-0.

1.2 VGA BOOT MOLDED WITH BLUE 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 ASSEMBLY ELECTRICAL SPECIFICATION

3.1 HI-POT VOLTAGE: 500VDC FOR 10ms.

3.2 INSULATION RESISTANCE: 100 MEGA Ohms PER MIN.

3.3 CONNECTION RESISTANCE: 2 Ohms MAX.

3.4 COAXIAL LINES CHARACTERISTIC IMPEDANCE: 75 ±10% Ohms @TDR 200 PSEC RISETIME.

3.5 WRAP COPPER TAPE OVER BRAID, THEN CRIMP THE METAL CAN ON COPPER TAPE WITH 360°.

4. CONNECTOR PLATING: 0.000030" GOLD PLATING.

5. SCREW SPEC.: 4-40 UNC.

MATERIAL LIST:

| | | |
|------|-----------------------------|---|
| E | LABEL | 1 |
| D | VGA D-SUB CONNECTOR(FEMALE) | 2 |
| C | LFH THUMB SCREW 4-40 UNC | 2 |
| B | LFH-60 PLUG ASSEMBLY | 1 |
| A | DVI ANALOG CABLE BLACK | 2 |
| ITEM | DESCRIPTION | |

| | | | | | | | | | | | | | | |
|---|---|---|---|---|--------------------|--|---|------|---------------------------------------|--|--|------------|----------------------------|--|
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| | | | | | | | mm | INCH | | | | | | |
| D1 | D | C2 | C1 | C | | | 4 PLACES ±0. ±. | | | | | | | |
| | | | | | | | 3 PLACES ±0. ±. | | | | | | | |
| | | | | | | | 2 PLACES ±0. ±. | | | | | | | |
| | | | | | | | 1 PLACE ±0. ±. | | | | | | | |
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| | | | | | | | | | APPROVED BY & DATE T.WONG 03/03/06 | | CAD FILENAME S88744AZ.S03 | | MATERIAL NO. 88766-7400 | |
| | | | | | | | | | | | DRAWING NO. SD-88744-002 | | SHEET NO. 3 OF 3 | |
| | | | | | | | | | | THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION. | | | SIZE A4 | |