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Part Number: [0887685300](#)
Status: **Active**
Overview: [dms59](#)
Description: 1.27mm (.050") Pitch DMS-59®-to-Two DVI-I Adapters Cable Assembly, 0.20m (7.87") Length

Documents:

[Drawing \(PDF\)](#) [RoHS Certificate of Compliance \(PDF\)](#)
[Product Specification PS-88768-5300 \(PDF\)](#)

General

Product Family	Cable Assemblies
Series	88759
Connector to Connector	DMS-59™-to-DVI-I
Overview	dms59
Product Name	DMS59®

Physical

Cable Length	0.20m (7.87")
Circuits (Loaded)	59
Color - Resin	Black
Gender	Male-Female
Lock to Mating Part	Yes
Material - Metal	Aluminum, Phosphor Bronze, Steel
Material - Plating Mating	Gold, 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
Plating min: Mating (µin)	2, 30, 75
Plating min: Mating (µm)	0.05, 0.75, 1.875
Plating min: Termination (µin)	100, 150
Plating min: Termination (µm)	2.5, 3.75
Single Ended	No
Termination Interface: Style	N/A, Through Hole
Wire Insulation Diameter	N/A
Wire Size AWG	32
Wire/Cable Type	Round

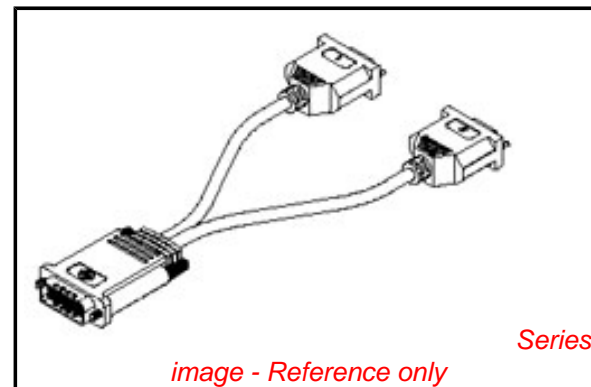
Electrical

Current - Maximum per Contact	1A
Impedance	100 ohms
Shielded	Yes
Voltage - Maximum	30V AC

Material Info

Reference - Drawing Numbers

Product Specification	PS-88768-5300
Sales Drawing	SD-88744-097



EU RoHS

ELV and RoHS Compliant
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
[88759Series](#)

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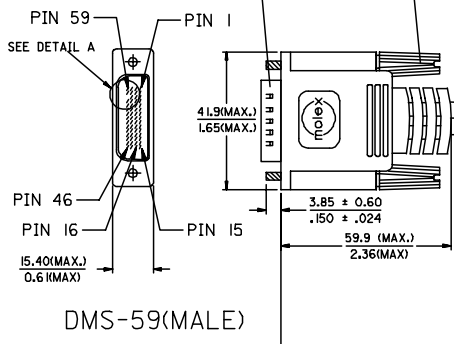
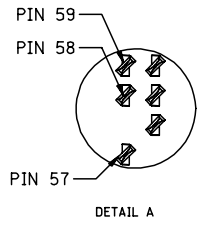
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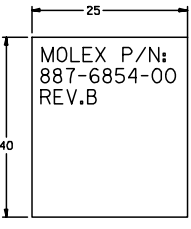
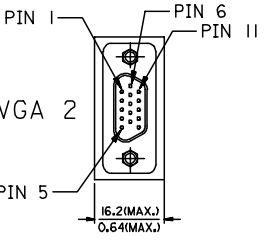
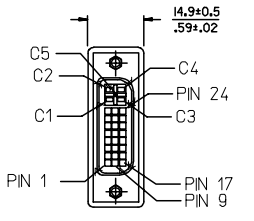
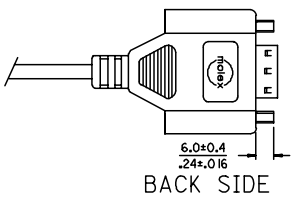
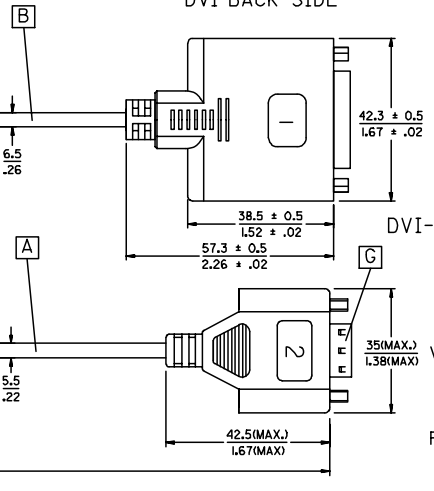
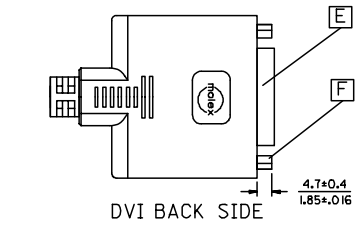
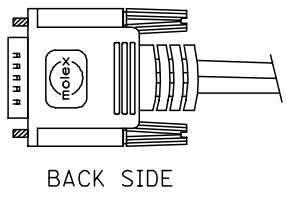
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A



SEE DETAIL B



ENTER DESCRIPTION EC NO: DG2006-0186 DRWN:PDAI 2006/03/09 CHKD: 2006/03/09 APPR:TKAN 2006/03/10 DESCRIPTION REV	QUALITY SYMBOLS	GENERAL TOLERANCES (UNLESS SPECIFIED)	DIMENSION STYLE	SCALE	DESIGN UNITS	THIRD ANGLE PROJECTION	
	▽=0 ◻=0	mm INCH 4 PLACES ± --- ± --- 3 PLACES ± --- ± --- 2 PLACES ± --- ± --- 1 PLACE ± --- ± --- ANGULAR ± ---°	MM/IN	---	METRIC		
			DRAWN BY	DATE	TITLE		
			CHECKED BY	DATE	DMS59(M) TO DVI-I(F)+ VGA(F) ADAPTE CABLE		
			APPROVED BY	DATE	MOLEX MOLEX INCORPORATED		
		DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		MATERIAL NO.	DOCUMENT NO.	SHEET NO.	
				887685400	SD-88744-098	1 OF 2	
		THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION					

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WIRING DIAGRAM:

SHIELD	SHIELD	GROUND
C5	PIN 1,4,59	GROUND(RED, BLUE, GREEN)
C4	PIN 56	VGA1_HSYNC
C3	PIN 3	VGA1_BLUE
C2	PIN 58	VGA1_GREEN
C1	PIN 2	VGA1_RED
PIN 23	PIN 31	DVII_TXC+
PIN 24	PIN 32	DVII_TXC-
PIN 22	PIN 57	DVII_TXC RTN
PIN 19	PIN 33	DVII_TX0 RTN
PIN 18	PIN 29	DVII_TX0+
PIN 17	PIN 30	DVII_TX0-
PIN 16	PIN 36	DVII_HPD
PIN 15	PIN 54	GROUND
PIN 14	PIN 5	+5V
PIN 11	PIN 34	DVII_TX1 RTN
PIN 10	PIN 27	DVII_TX1+
PIN 9	PIN 28	DVII_TX1-
PIN 8	PIN 55	VGA1_VSYNC
PIN 7	PIN 7	DVII_DDC_DATA
PIN 6	PIN 6	DVII_DDC_CLOCK
PIN 3	PIN 35	DVII_TX2 RTN
PIN 2	PIN 25	DVII_TX2+
PIN 1	PIN 26	DVII_TX2-
DVI_I	DMS-59	CABLE FUNCTION

SHIELD	SHIELD	GROUND
PIN 15	PIN 10	VGA_SCL
PIN 14	PIN 51	VGA_VSYNC
PIN 13	PIN 50	VGA_HSYNC
PIN 12	PIN 9	VGA_SDA
PIN 10	PIN 52	GROUND(SYNCS)
PIN 9	PIN 11	+5V
PIN 8	PIN 12	GROUND(BLUE)
PIN 7	PIN 46	GROUND(GREEN)
PIN 6	PIN 15	GROUND(RED)
PIN 5	PIN 49	GROUND(ANALOG)
PIN 3	PIN 13	VGA_BLUE
PIN 2	PIN 47	VGA_GREEN
PIN 1	PIN 14	VGA_RED
VGA2	DMS-59	CABLE FUNCTION

NOTE:1. OVERMOLD SPECIFICATION

- 1.1 DMS-59 BOOT MOLDED WITH SNOW WHITE PVC RESIN, UL94V-0.
- 1.2 VGA BOOT MOLDED WITH BLUE PVC RESIN, UL94V-0.
- 1.3 DVI.I BOOT MOLDED WITH SNOW WHITE PVC RESIN: , UL94V-0.

2. MECHANICAL SPECIFICATION

- ▽ 2.1 CABLE SHOULD STAND THE PULL FORCE 89-11IN 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 ASSEMBLY ELECTRICAL SPECIFICATION

- ▽ 3.1 HI-POT VOLTAGE: 300VDC FOR 10ms.
 - ▽ 3.2 INSULATION RESISTANCE: 20 MEGA Ohms PER MIN.
 - ▽ 3.3 CONNECTION RESISTANCE: 2 Ohms MAX.
 - ▽ 3.4 DIFFERENTIAL LINES CHARACTERISTIC IMPEDANCE: 100±7 Ohms. @TDR 200 PSEC RISETIME.
 - ▽ 3.5 COAXIAL LINES CHARACTERISTIC IMPEDANCE: 75±10% Ohms @TDR 200 PSEC RISETIME.
 - 3.6 WRAP COPPER TAPE OVER BRAID, THEN CRIMP THE METAL CAN ON COPPER TAPE WITH 360°.
4. CONNECTOR PLATING: GOLD FLASH PLATING.
5. SCREW SPEC.: 4-40 UNC.

MATERIAL LIST:

H	LABEL	I
G	VGA D-SUB CONNECTOR(FEMALE)	1
F	DVI(F) JACK SCREW	2
E	DVI.I FEMALE CONNECTOR	1
D	LFH THUMB SCREW 4-40 UNC	2
C	DMS-59 PLUG ASSY(NATURE)	1
B	DVI-A/D CABLE BLACK	1
A	DVI ANALOG CABLE BLACK	1
ITEM	DESCRIPTION	QTY.

ENTER DESCRIPTION EC NO: DG2006-0186 DRWN: PDAI CHKD: APPR: TKAN	2006/03/09 2006/03/09 2006/03/10	QUALITY SYMBOLS ▽=0 ▽=0	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE MM/IN		SCALE ---	DESIGN UNITS METRIC	THIRD ANGLE PROJECTION		
	4 PLACES ± --- ± ---		3 PLACES ± --- ± ---	2 PLACES ± --- ± ---	1 PLACE ± --- ± ---	ANGULAR ± ---°	DRAWN BY PDAI	DATE 2006/03/07	TITLE DMS59(M) TO DVI-I(F)+ VGA(F) ADAPTE CABLE		
	DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS					CHECKED BY ZXDENG	DATE 2006/03/07	APPROVED BY BORON			
						MATERIAL NO. 887685400	DOCUMENT NO. SD-88744-098	SHEET NO. 2 OF 2			