

**PLEASE CHECK WWW.MOLEX.COM FOR LATEST PART INFORMATION**

**Part Number:** [0687830001](#)  
**Status:** **Active**  
**Overview:** [displayport](#)  
**Description:** DisplayPort\*-to-DisplayPort\* Cable Assembly with Latches, 3.0m (9.84' ) Length

**Documents:**

[Drawing \(PDF\)](#) [RoHS Certificate of Compliance \(PDF\)](#)  
[Product Specification PS-68783-001 \(PDF\)](#)

**General**

Product Family Cable Assemblies  
 Series [68783](#)  
 Connector to Connector DisplayPort\* Both Ends  
 Overview [displayport](#)  
 Product Name DisplayPort\*

**Physical**

Cable Length 3.0m (9.84' )  
 Circuits (Loaded) 20  
 Color - Resin Black  
 Gender Male-Male  
 Lock to Mating Part Yes  
 Material - Metal Brass, Stainless Steel  
 Material - Plating Mating Gold  
 Material - Plating Termination Tin  
 Material - Resin ABS Alloy, High Temperature Thermoplastic  
 Packaging Type Bag  
 Pitch - Mating Interface (in) 0.039 In  
 Pitch - Mating Interface (mm) 1.00 mm  
 Plating min: Mating (µin) 32  
 Plating min: Mating (µm) 0.8  
 Plating min: Termination (µin) 80  
 Plating min: Termination (µm) 2  
 Single Ended No  
 Termination Interface: Style Surface Mount  
 Waterproof / Dustproof No  
 Wire Insulation Diameter N/A  
 Wire Size AWG 30  
 Wire/Cable Type Round

**Electrical**

Current - Maximum per Contact 0.5A  
 Impedance 100 ohms  
 Shield Type Full Shield  
 Shielded Yes  
 Voltage - Maximum 40V

**Material Info**

**Reference - Drawing Numbers**

Packaging Specification PK-68783-001  
 Product Specification PS-68783-001  
 Sales Drawing SD-68783-001

\*DisplayPort is a Trademark of VESA



**EU RoHS**

**ELV and RoHS  
 Compliant  
 REACH SVHC  
 Not Reviewed  
 Halogen-Free  
 Status**

**China RoHS**



**Need more information on product  
 environmental compliance?**

Email [productcompliance@molex.com](mailto: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**

[68783Series](#)

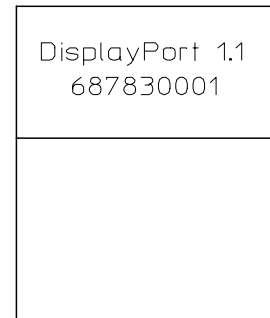
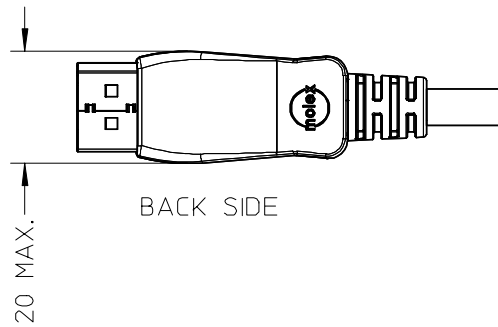
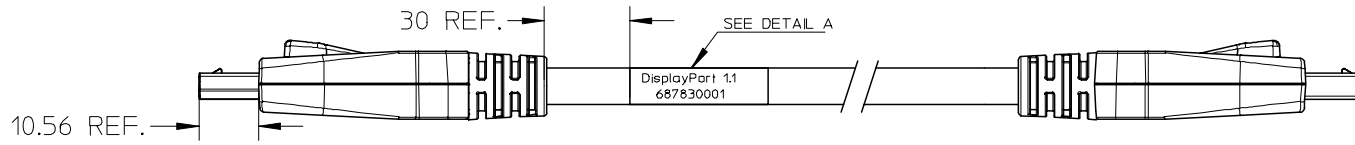
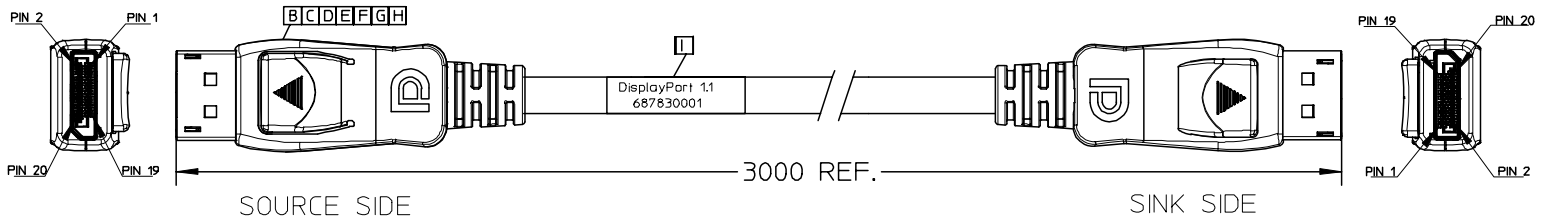
**Mates With**

[47272 DisplayPort\\* Receptacle](#)

This document was generated on 05/27/2010

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7 6 5 4 3 2 1



DETAIL A

ENTER DESCRIPTION EC NO: DG2007-0155 DRWN: JLIU13 2007/04/11 CHKD: BLAU 2007/04/13 APPR: BLAU 2007/04/16	QUALITY SYMBOLS ▽=0 ◻=0	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE MM ONLY	SCALE ---	DESIGN UNITS METRIC	THIRD ANGLE PROJECTION
		4 PLACES ± --- ± ---	DRAWN BY JLIU13	DATE 2007/04/11	TITLE DISPLAYPORT 3M WITH LATCH CABLE ASS'Y		
		3 PLACES ± --- ± ---	CHECKED BY BLAU	DATE 2007/04/11	MOLEX INCORPORATED		
		2 PLACES ± --- ± ---	APPROVED BY BLAU	DATE 2007/04/11	MATERIAL NO. 687830001	DOCUMENT NO. SD-68783-001	SHEET NO. 1 OF 2
1 PLACE ± --- ± ---	ANGULAR ± ---°	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		

6 5 4 3 2 1

WIRE DIAGRAM:

SHELL		OVERALL BRAID	SHELL	
PIN 20	PWR	N/A	PIN 20	PWR
PIN 19	Re-PWR	ORANGE	PIN 19	Re-PWR
PIN 18	HPD	YELLOW	PIN 18	HPD
PIN 17	AUX(n)	WHITE	PIN 17	AUX(n)
PIN 16	GND		PIN 16	GND
PIN 15	AUX(p)	WHITE	PIN 15	AUX(p)
PIN 14	GND	RED	PIN 14	GND
PIN 13	GND	BROWN	PIN 13	GND
PIN 12	ML3(n)	WHITE	PIN 1	ML3(n)
PIN 11	GND		PIN 2	GND
PIN 10	ML3(p)	WHITE	PIN 3	ML3(p)
PIN 9	ML2(n)	WHITE	PIN 4	ML2(n)
PIN 8	GND		PIN 5	GND
PIN 7	ML2(p)	WHITE	PIN 6	ML2(p)
PIN 6	ML1(n)	WHITE	PIN 7	ML1(n)
PIN 5	GND		PIN 8	GND
PIN 4	ML1(p)	WHITE	PIN 9	ML1(p)
PIN 3	ML0(n)	WHITE	PIN 10	ML0(n)
PIN 2	GND		PIN 11	GND
PIN 1	ML0(p)	WHITE	PIN 12	ML0(p)
SOURCE SIDE	Pin Description	WIRE COLOR	SINK SIDE	Pin Description

NOTE:

1. THE PRODUCT MUST MEET RoHS COMPLIANCE.
2. THE STRAIN RELIEF SHALL BE OVERMOLD WITH BLACK PVC .
3. THE CABLE ASSEMBLY CAN MEET DisplayPort SPECIFICATION 1.1 REVISION.

I	LABEL	172000487	1
H	COVER-UP WITH LATCH	47271-0004	2
G	COVER-DOWN	47271-0005	2
F	LATCH 2	47271-2016	2
E	LATCH 1	47271-1016	2
D	INNER-SHELL-LOWER	47271-1009	2
C	INNER-SHELL-UPPER WITH LATCH	47271-1008	2
B	PLUG SUB-ASSY CONN.	47271-0011	2
A	DisplayPort AWG30 CABLE		3M ref. 1
ITEM	DESCRIPTION	LENGTH	QTY.

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