

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
 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](#)

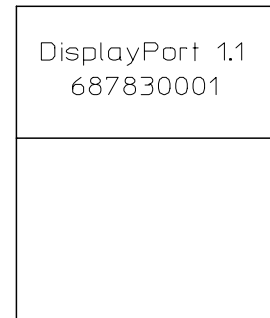
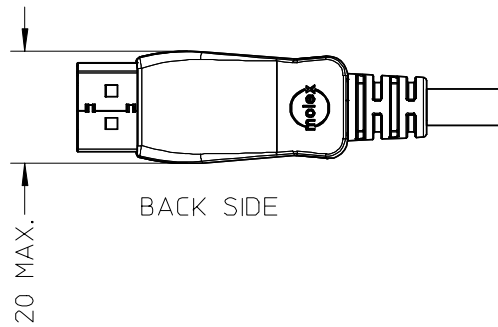
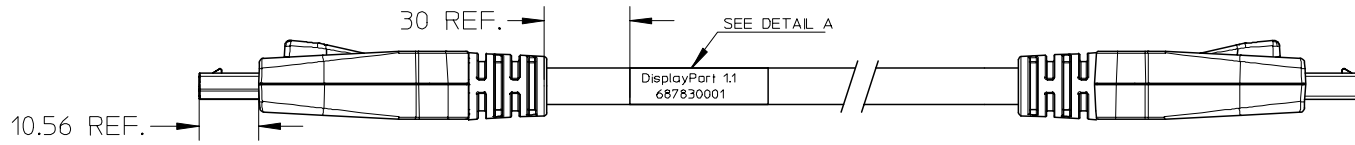
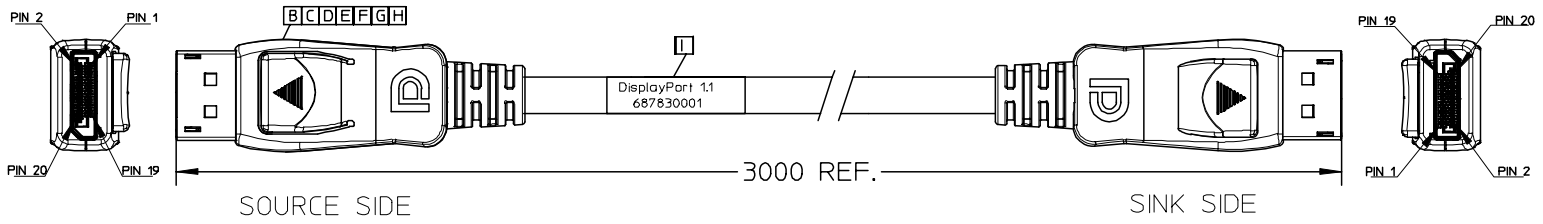
Mates With

[47272 DisplayPort* Receptacle](#)

This document was generated on 05/27/2010

PLEASE CHECK WWW.MOLEX.COM FOR LATEST PART INFORMATION

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 ±--- ±---	3 PLACES ±--- ±---	2 PLACES ±--- ±---	1 PLACE ±--- ±---	ANGULAR ±---°	DRAWN BY JLIU13	DATE 2007/04/11	TITLE DISPLAYPORT 3M WITH LATCH CABLE ASS'Y
		DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		MATERIAL NO. 687830001	DOCUMENT NO. SD-68783-001	SHEET NO. 1 OF 2	APPROVED BY BLAU	DATE 2007/04/11	MOLEX INCORPORATED
		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		GND	PIN 16
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	DRAIN	PIN 2	GND
PIN 10	ML3(p)	WHITE	PIN 3	ML3(p)
PIN 9	ML2(n)	WHITE	PIN 4	ML2(n)
PIN 8	GND	DRAIN	PIN 5	GND
PIN 7	ML2(p)	WHITE	PIN 6	ML2(p)
PIN 6	ML1(n)	WHITE	PIN 7	ML1(n)
PIN 5	GND	DRAIN	PIN 8	GND
PIN 4	ML1(p)	WHITE	PIN 9	ML1(p)
PIN 3	ML0(n)	WHITE	PIN 10	ML0(n)
PIN 2	GND	DRAIN	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.

ENTER DESCRIPTION EC NO: DG2007-0155 DRWN: JLIU13 2007/04/11 CHKD: BLAU 2007/04/13 APPR: BLAU 2007/04/16 C	QUALITY SYMBOLS  = 0  = 0.1	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. 2 OF 2	
1 PLACE ± --- ± ---	ANGULAR ± ---°		DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS					
REV	THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION							