

PLEASE CHECK WWW.MOLEX.COM FOR LATEST PART INFORMATION

Part Number:

0687850004

Status:

Active

Overview:

displayport

Description:

Mini DisplayPort*(Plug)-to-Mini DisplayPort*(Plug) Cable Assembly, 1.0m (3.28'), Lead-free



image - Reference only

Series

Documents:

[Drawing \(PDF\)](#)

[Product Specification PS-68785-0004 \(PDF\)](#)

[RoHS Certificate of Compliance \(PDF\)](#)

General

Product Family

Cable Assemblies

Series

68785

Connector to Connector

Mini DisplayPort* Both Ends

Overview

displayport

Product Name

DisplayPort*, Mini DisplayPort*

Physical

Cable Length

1.0m (3.28')

Circuits (Loaded)

20

Color - Resin

Black

Gender

Male-Male

Lock to Mating Part

Yes

Material - Metal

Copper Alloy

Material - Plating Mating

Gold

Material - Resin

High Temperature Thermoplastic

Packaging Type

Carton

Pitch - Mating Interface (in)

0.024 In

Pitch - Mating Interface (mm)

0.60 mm

Single Ended

No

Waterproof / Dustproof

No

Wire Insulation Diameter

N/A

Wire/Cable Type

Round

Electrical

Current - Maximum per Contact

.5A

Impedance

100 ohms

Shield Type

Full Shield

Shielded

Yes

Voltage - Maximum

40V AC

Material Info

Reference - Drawing Numbers

Product Specification

PS-68785-0004

Sales Drawing

SD-68785-0004

Mini DisplayPort* and DisplayPort* are trademarks or registered trademarks of VESA

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

68785Series

Mates With

105081 Mini DisplayPort* Receptacles

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REVISIONS				CHANGER
ECN NO	DATE	REVISION	DESCRIPTION	
	SEP 07,09	A	INITIAL RELEASE	JOE XIE

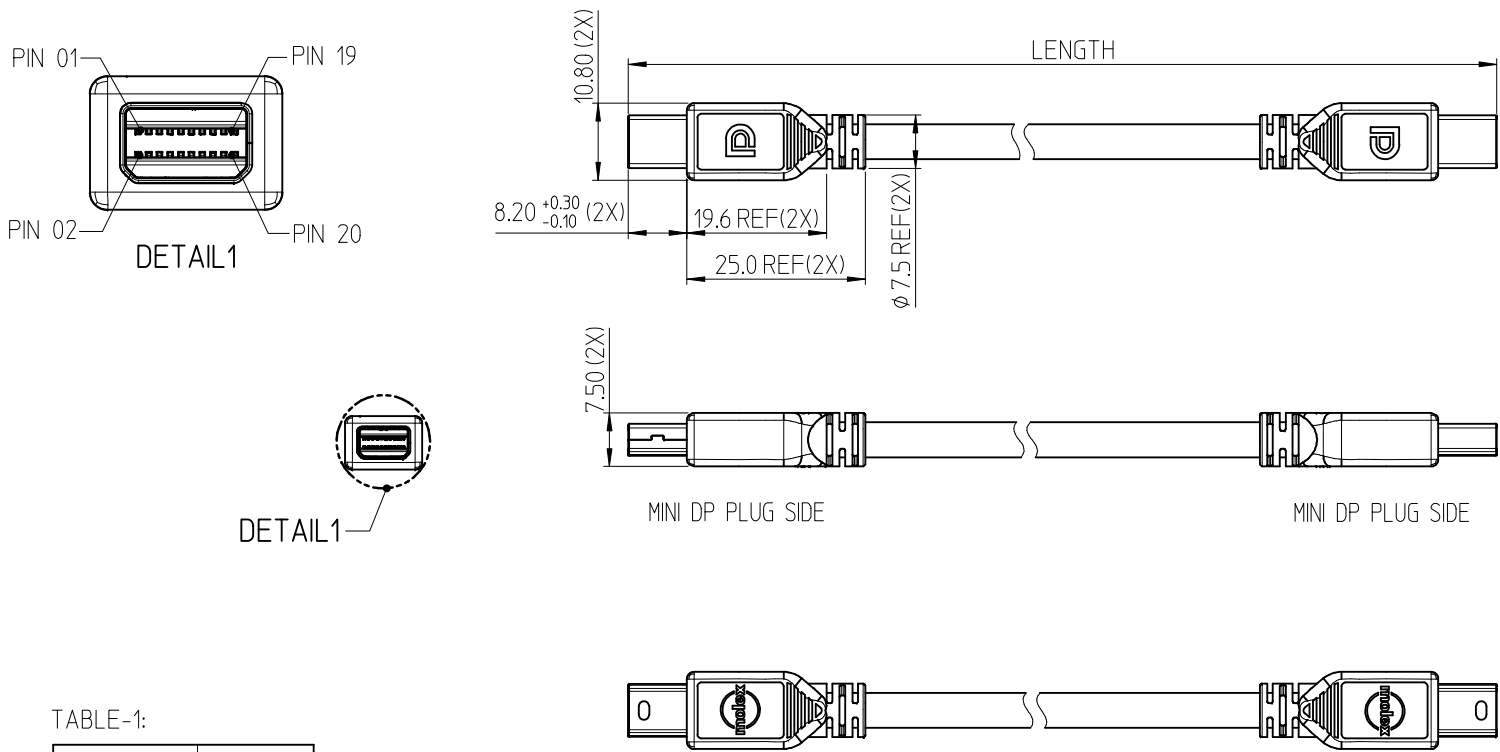


TABLE-1:

687850006	2000±40
687850005	1500±30
687850004	1000±20
PART NO.	LENGTH

EC NO: DG2010-0085 DRWN:YX/E CHKD:CLU0 APPR:CLU0 A	DESCRIPTION REV	QUALITY SYMBOLS ▽=0 ◻=0	GENERAL TOLERANCES (UNLESS SPECIFIED)			DIMENSION STYLE MM ONLY		SCALE ---	DESIGN UNITS METRIC	THIRD ANGLE PROJECTION				
				mm	INCH	DRAWN BY		DATE	TITLE MINIDP PLUG TO MINIDP PLUG CABLE ASSY					
			4 PLACES	± ---	± ---	CHECKED BY		DATE						
			3 PLACES	± ---	± ---	APPROVED BY		DATE	molex MOLEX INCORPORATED					
			2 PLACES	± 0.25	± ---	MATERIAL NO.		DOCUMENT NO.					SHEET NO.	
			1 PLACE	± 0.5	± ---	SEE TABLE-1		SD-68785-0004					1 OF 2	
			ANGULAR ± 3 °			SIZE A 4		THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION						
DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS														

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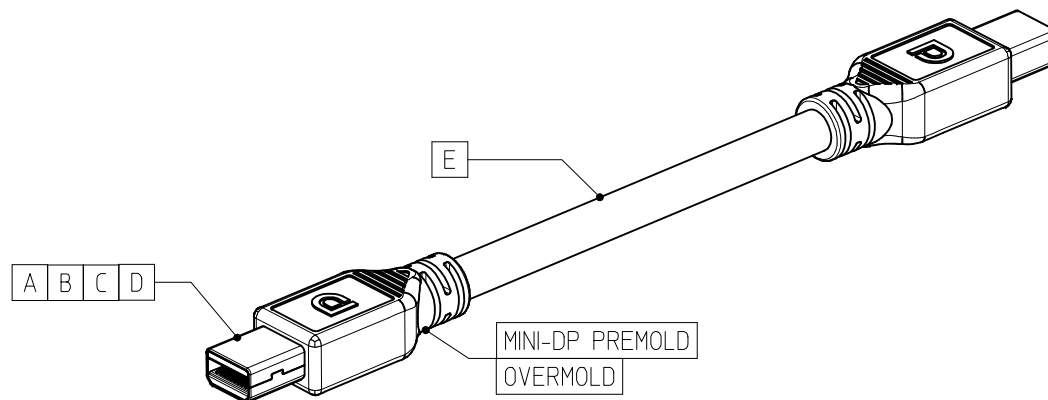
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WIRING DIAGRAM

MINI DP PLUG SOURCE SIDE	FUNCTION	MINI DP PLUG SINK SIDE
PIN 01	GROUND	PIN 08
PIN 03	ML0+	PIN 12
PIN 05	ML0-	PIN 10
PIN 07	GROUND	PIN 13
PIN 09	ML1+	PIN 17
PIN 11	ML1-	PIN 15
PIN 13	GROUND	PIN 07
PIN 15	ML2+	PIN 11
PIN 17	ML2-	PIN 09
PIN 19	GROUND	PIN 19
PIN 02	HOT PLUG DETECT	PIN 02
PIN 04	CONFIG 1	PIN 04
PIN 06	CONFIG 2	PIN 06
PIN 08	GROUND	PIN 01
PIN 10	ML3+	PIN 05
PIN 12	ML3-	PIN 03
PIN 14	GROUND	PIN 14
PIN 16	AUX+	PIN 16
PIN 18	AUX-	PIN 18
PIN 20	NO CONNECTION	PIN 20
SHELL	GROUND	SHELL



NOTES:

1. MATERIALS:

OVERMOLD: PVC, COLOR BLACK, UL94-V0.

CABLE: PVC JACKET, BLACK, UL94-VW-1.

HOUSING: HIGH TEMPERATURE THERMOPLASTIC.

TERMINAL: COPPER ALLOY, GOLD PLATING, NICKEL UNDERPLATE.

SHELL: COPPER ALLOY, NICKEL PLATING.

2. ELECTRICAL PROPERTY:

3.1 APPLIED VOLTAGE RATING: 40V AC (RMS).

3.2 CURRENT RATING: 0.5A.

3.3 DIELECTRIC WITHSTAND: 300V.

3.4 INSULATION RESISTANCE: 100M OHM (UNMATING),
10M OHM (MATING).

3. OPERATION TEMPERATURE: -20°C TO +80°C.

4. THE PRODUCT COMPLIANT TO MOLEX ES-40000-5016.

E	MINI DP CABLE	---	---
D	BOTTOM SHELL FOR MINI DP PLUG	COPPER ALLOY	2 PCS
C	TOP SHELL FOR MINI DP PLUG	COPPER ALLOY	2 PCS
B	SHIELD SHELL FOR MINI DP PLUG	COPPER ALLOY	2 PCS
A	SUB-ASSEMBLY FOR MINI DP PLUG	---	2 PCS
ITEM	DESCRIPTION	MATERIAL	USAGE

EC NO: DG2010-0085 DRWN:Y0XIE CHKD:CLU0 APPR:CLU0 A	2009/11/02 2009/11/03 2009/11/03 DESCRIPTION REV	QUALITY SYMBOLS ▽=0 ▽C=0	GENERAL TOLERANCES (UNLESS SPECIFIED)			DIMENSION STYLE MM ONLY		SCALE ---	DESIGN UNITS METRIC	THIRD ANGLE PROJECTION			
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			ANGULAR ± 3 °										
			DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS										
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