This document was generated on 05/19/2010

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

Series image - Reference only

Documents:
Drawing (PDF)
RoHS Certificate of Compliance (PDF)
Product Specification PS-68785-0004 (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.

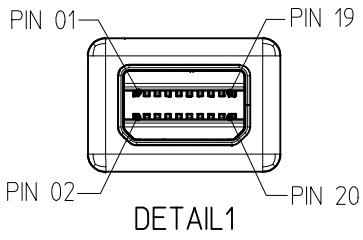
Search Parts in this Series
68785Series

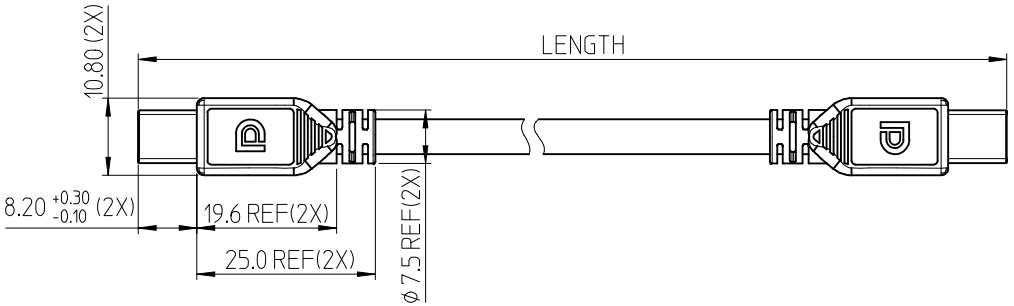
Mates With
105081 Mini DisplayPort* Receptacles

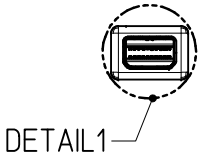
This document was generated on 05/19/2010

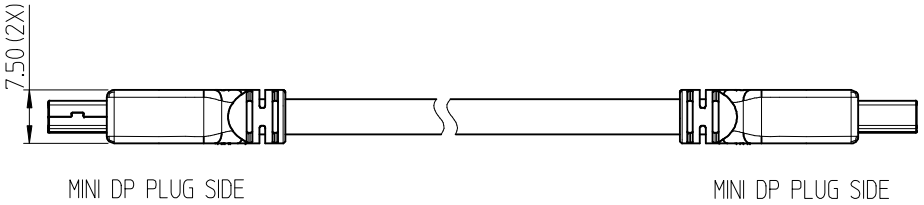
PLEASE CHECK WWW.MOLEX.COM FOR LATEST PART INFORMATION

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









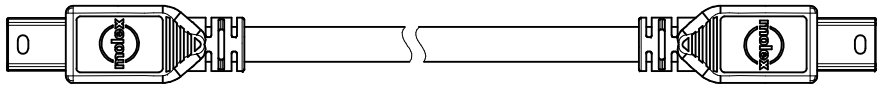


TABLE-1:

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

EC NO: DG2010-0085 2009/11/02
DRWN:YQXIE 2009/11/03
CH'KD:CLUO 2009/11/03
APPR:CLUO
DESCRIPTION

REV: A

QUALITY SYMBOLS
▼=0
Ⓒ=0

GENERAL TOLERANCES (UNLESS SPECIFIED)

	mm	INCH
4 PLACES	± ---	± ---
3 PLACES	± ---	± ---
2 PLACES	± 0.25	± ---
1 PLACE	± 0.5	± ---
ANGULAR ± 3 °		

DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS

DIMENSION STYLE: MM ONLY
SCALE: ---
DESIGN UNITS: METRIC
THIRD ANGLE PROJECTION

DRAWN BY DATE
CHECKED BY DATE
APPROVED BY DATE

TITLE: MINIDP PLUG TO MINIDP PLUG CABLE ASSY

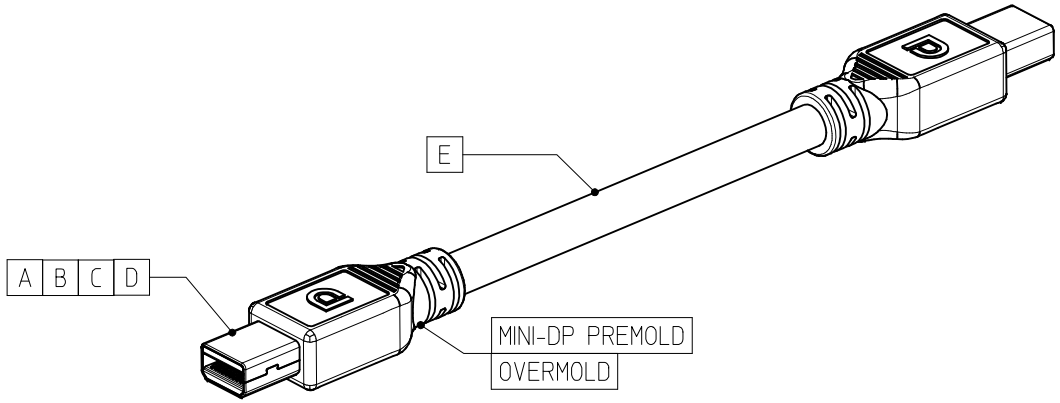
molex MOLEX INCORPORATED

MATERIAL NO.: SEE TABLE-1
DOCUMENT NO.: SD-68785-0004
SHEET NO.: 1 OF 2
SIZE: A4

THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION

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.

ITEM	DESCRIPTION	MATERIAL	USAGE
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

EC NO: DG2010-0085 2009/11/02
DRWN: YQXIE 2009/11/03
CH'KD: CLUO 2009/11/03
APPR: CLUO
DESCRIPTION
REV: A

QUALITY SYMBOLS
▼=0
Ⓒ=0

GENERAL TOLERANCES (UNLESS SPECIFIED)

	mm	INCH
4 PLACES	± ---	± ---
3 PLACES	± ---	± ---
2 PLACES	± 0.25	± ---
1 PLACE	± 0.5	± ---
ANGULAR ± 3 °		

DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS

DIMENSION STYLE: MM ONLY
SCALE: ---
DESIGN UNITS: METRIC
THIRD ANGLE PROJECTION
DRAWN BY DATE
CHECKED BY DATE
APPROVED BY DATE
MATERIAL NO.: SEE TABLE-1
TITLE: MINIDP PLUG TO MINIDP PLUG CABLE ASSY
molex MOLEX INCORPORATED
DOCUMENT NO.: SD-68785-0004
SHEET NO.: 2 OF 2
SIZE: A4

THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION