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Part Number:

0687830004

Status:

Active

Overview:

displayport

Description:

DisplayPort*-to-DisplayPort* Cable Assembly with Latches, 15.0m (49.21') Length, AWG28 Thin

Documents:

Drawing (PDF)

RoHS Certificate of Compliance (PDF)

General	
Product Family	Cable Assemblies
Series	68783
Connector to Connector	DisplayPort* Both Ends
Overview	displayport
Product Name	DisplayPort*
Physical	
Cable Length	15.0m (49.21')
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	28
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-68783-004
Sales Drawing	SD-68783-004

*DisplayPort is a Trademark 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.

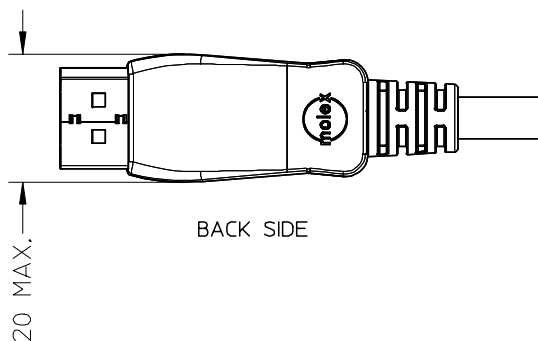
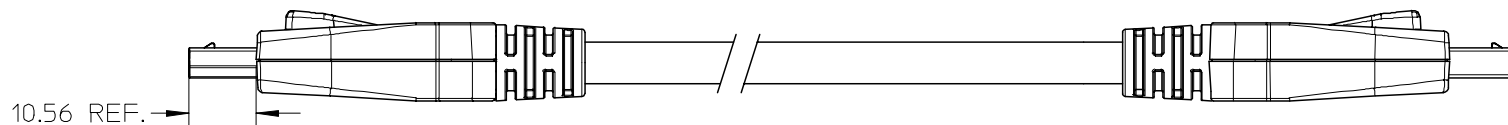
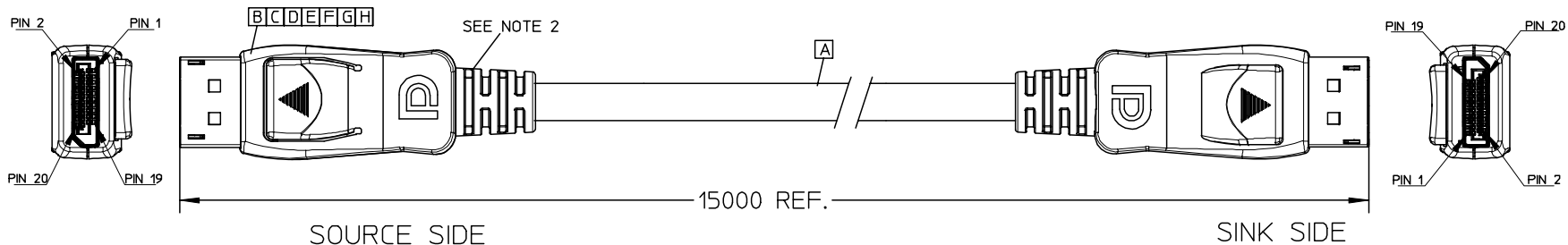
Search Parts in this Series

68783Series

Mates With

47272 DisplayPort* Receptacle

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BACK SIDE

H	COVER-UP WITH LATCH	47271-0004		2
G	COVER-DOWN	47271-0005		2
F	LATCH 2	47271-2006		2
E	LATCH 1	47271-1006		2
D	INNER-SHELL-LOWER	47271-1009		2
C	INNER-SHELL-UPPER WITH LATCH	47271-1008		2
B	PLUG SUB-ASS'Y CONN.	47271-0011		2
A	AWG28 CABLE OD=6.8mm		15M ref.	1
ITEM	DESCRIPTION		LENGTH	QTY.

ENTER DESCRIPTION
EC NO: DG2007-0075
DRWN: JLIU13
CHKD: BLAU
APPR: BLAU
REV

QUALITY SYMBOLS
=0
=0
DESCRIPTION
REV

GENERAL TOLERANCES (UNLESS SPECIFIED)

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

DRAFT WHERE APPLICABLE
MUST REMAIN
WITHIN DIMENSIONS

DIMENSION STYLE MM ONLY		SCALE ---	DESIGN UNITS METRIC	THIRD ANGLE PROJECTION
DRAWN BY JLIU13	DATE 2006/11/28	TITLE AWG28 15M CABLE ASS'Y		
CHECKED BY BLAU	DATE 2006/11/28	APPROVED BY BLAU		
MATERIAL NO. 68783-0004		DOCUMENT NO. SD-68783-004		SHEET NO. 1 OF 2
THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION				

WIRE DIAGRAM:

SHELL		OVERALL BRAID	SHELL	
PIN 20	PWR	GREEN	PIN 20	PWR
PIN 19	Re-PWR	ORANGE	PIN 19	Re-PWR
PIN 18	HPD	YELLOW	PIN 18	HPD
PIN 17	AUX(n)	WHITE GND	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	DRAIN	PIN 2	GND
PIN 10	ML3(p)	WHITE	PIN 3	ML3(p)
PIN 9	ML2(n)	WHITE DRAIN	PIN 4	ML2(n)
PIN 8	GND		PIN 5	GND
PIN 7	ML2(p)	WHITE	PIN 6	ML2(p)
PIN 6	ML1(n)	WHITE DRAIN	PIN 7	ML1(n)
PIN 5	GND		PIN 8	GND
PIN 4	ML1(p)	WHITE	PIN 9	ML1(p)
PIN 3	ML0(n)	WHITE DRAIN	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 MOLD WITH BLACK PVC .

3. ELECTRICAL PERFORMANCE:
- DIELECTRIC STRENGTH: TEST VOLTAGE 300±30V DC FOR 0.01S NO BREAKDOWN
- INSULATION RESISTANCE: BETWEEN ADJACENT CONTACTS AND CONTACTS
TEST VOLTAGE 300±30V DC FOR 0.01S 20M ohms (min).
- ▽ DIFFERENTIAL IMPEDANCE: 100+/-10 FOR TERMINATION AREA
100+/-5 FOR CABLE AREA
- ▽ INTRA PAIR SKEW: 250ps MAX.
- ▽ INSERTION LOSS: f is given in GHz, f₀=0.825GHz

$$S_{21} [dB] = \begin{cases} 10 & : 0.01 \leq f \leq \frac{f_0}{3} \\ -12 \times \left(\frac{3f - f_0}{f_0} \right) & : \frac{f_0}{3} \leq f \leq 3f_0 \end{cases}$$

- ▽ RETURN LOSS: f is given in GHz, f₀=0.8GHz

$$RL_{min} [dB] = \begin{cases} 15 & : f \leq f_0 \\ 15 + 13 \times \log_{10} \left(\frac{f}{f_0} \times 1.25 \right) & : f_0 < f \leq 2f_0 \\ -5 + 13.56 \times \log_{10} \left(\frac{f}{f_0} \times 0.625 \right) & : 2f_0 < f \leq 4f_0 \end{cases}$$

- ▽ NEAR END CROSSTALK: f is given in GHz, f₀=0.8GHz

$$Isolation_{near} [dB] = \begin{cases} 26 & : 0.1 < f < f_0 \\ -26 - 15 \log_{10} \left(\frac{f}{f_0} \right) & : f_0 < f \leq 7f_0 \end{cases}$$

- ▽ FAR END CROSSTALK: <-26dB(100MHz~7GHz),
THE FAR END NOISE SHALL BE DEFINED IN FREQUENCY DOMAIN.

ENTER DESCRIPTION EC NO: DG2007-0075 DRWN: JLIU13 CHKD: BLAU APPR: BLAU		DESCRIPTION REV	QUALITY SYMBOLS ▽=0 ▽C=6	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE MM ONLY		SCALE ---	DESIGN UNITS METRIC	THIRD ANGLE PROJECTION										
					mm	INCH	DRAWN BY JLIU13	DATE 2006/11/28	TITLE AWG28 15M CABLE ASS'Y											
				4 PLACES	± ---	± ---	CHECKED BY BLAU	DATE 2006/11/28												
				3 PLACES	± ---	± ---	APPROVED BY BLAU		DATE 2006/11/28		MOLEX MOLEX INCORPORATED									
				2 PLACES	± ---	± ---														
				1 PLACE	± ---	± ---	MATERIAL NO. 68783-0004									DOCUMENT NO. SD-68783-004		SHEET NO. 2 OF 2		
				ANGULAR ± ---°																
				DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS					SIZE A4							THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION				