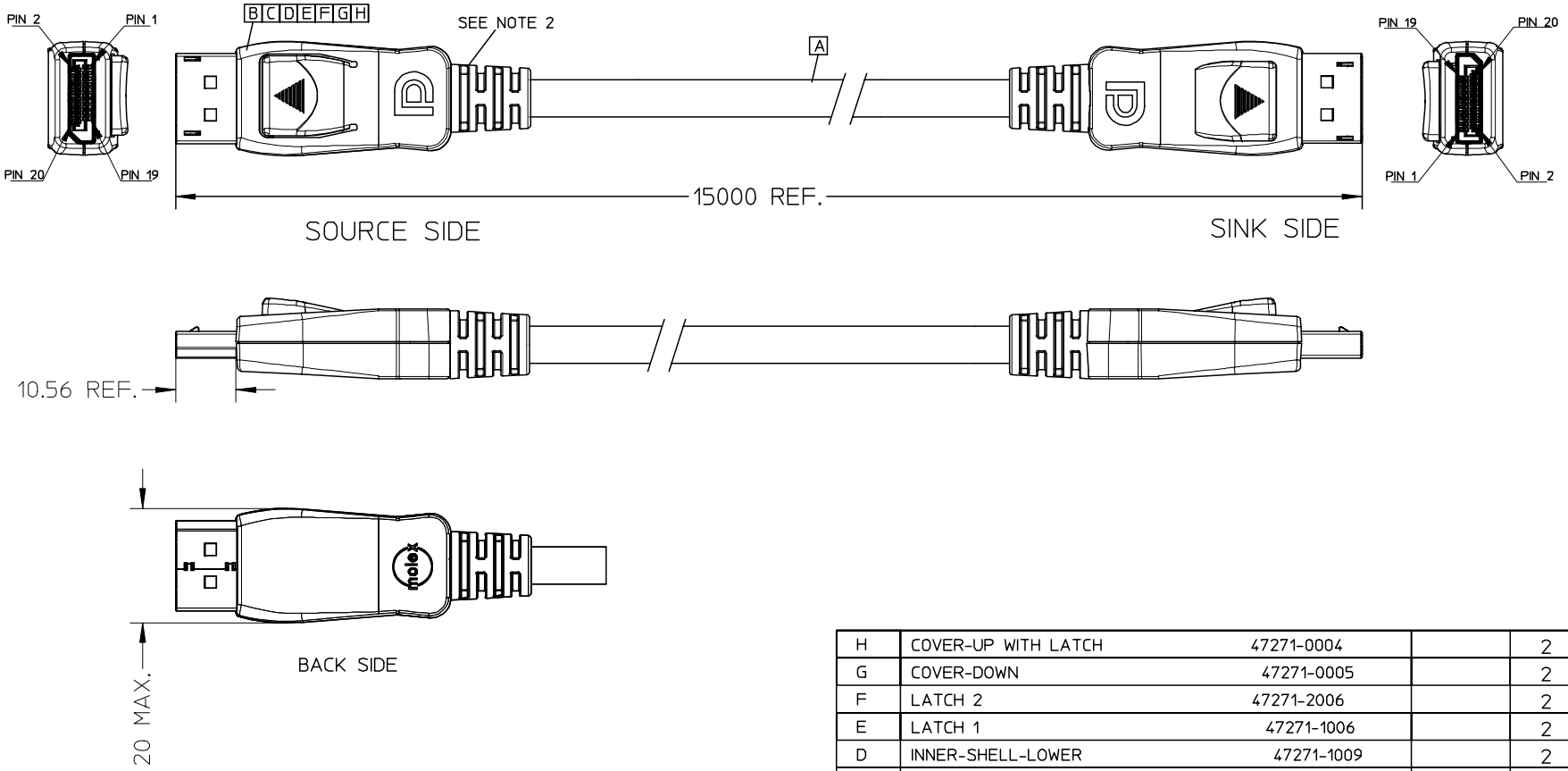

ITEM	DESCRIPTION		LENGTH	QTY.
H	COVER-UP WITH LATCH	47271-0004		2
G	COVER-DOWN	47271-0005		2
F	LATCH 2	47271-2006		2
E	LATCH 1	47271-1006		2
D	INNER-SHELL-LOWER	47271-1009		2
C	INNER-SHELL-UPPER WITH LATCH	47271-1008		2
B	PLUG SUB-ASS'Y CONN.	47271-0011		2
A	AWG28 CABLE OD=6.8mm		15M ref.	1

ENTER DESCRIPTION
EC NO: DG2007-0075 2006/12/20
DRWN: JLIU13 2006/12/21
CH'KD: BLAU 2006/12/22
APPR: BLAU
DESCRIPTION
B
REV

QUALITY SYMBOLS
▼=0
Ⓒ=0

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
CHECKED BY: BLAU DATE: 2006/11/28
APPROVED BY: BLAU DATE: 2006/11/28

TITLE: AWG28 15M CABLE ASS'Y

MOLEX INCORPORATED

MATERIAL NO.: 68783-0004
DOCUMENT NO.: SD-68783-004
SHEET NO.: 1 OF 2

SIZE A4

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	PIN 17	AUX(n)
PIN 16	GND	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	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 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; f_0=0.825GHz

$$IL_{max}[dB] = \begin{cases} -3 - 10\times\sqrt{f} & : 0.01 < f \le \frac{f_0}{3} \\ -12.5\left(\frac{3f - f_0}{5}\right)^{1.8} & : \frac{f_0}{3} < f \le 5 \end{cases}$$

▽ RETURN LOSS: f is given in GHz; f_0=0.8GHz

$$RL_{min}[dB] = \begin{cases} 15 & : f \le f_0 \\ 15 + 4.34\times Log_{10}\left(\frac{f}{f_0}\times 1.25\right) & : f_0 < f \le 2f_0 \\ -5 + 12.56\times Log_{10}\left(\frac{f}{f_0}\times 0.625\right) & : 2f_0 < f \le 4 \end{cases}$$

▽ NEAR END CROSSTALK: f is given in GHz; f_0=0.8GHz

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

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

DESCRIPTION		REV
ENTER DESCRIPTION		
EC NO: DG2007-0075	2006/12/20	
DRWN:JLIU13	2006/12/21	
CH'KD:BLAU	2006/12/22	
APPR:BLAU		
		B

QUALITY SYMBOLS
▼=0
▽C=6

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
CHECKED BY	BLAU
DATE	2006/11/28
APPROVED BY	BLAU
DATE	2006/11/28
MATERIAL NO.	68783-0004
TITLE	AWG28 15M CABLE ASS'Y
	MOLEX INCORPORATED
DOCUMENT NO.	SD-68783-004
SHEET NO.	2 OF 2
SIZE	A4