

REVISED
EC NO: J2012-1390
DRAWN BY NAGANO
CHECKED BY TAKAHASHI
APPR: KIMORIKAWA
E
REV
6
5
4

GENERAL TOLERANCES
(UNLESS SPECIFIED)
10 UNDER ±0.2
10 OVER 30 UNDER ±0.25
30 OVER ±0.3
ANGULAR ±3 °
DRAFT WHERE APPLICABLE
MUST REMAIN
WITHIN DIMENSIONS

DIMENSION STYLE
MM ONLY
DRAWN BY M. UMEDA
DATE 2005/03/08
CHECKED BY K. TOYODA
DATE 2005/03/08
APPROVED BY N. UKITA
DATE 2005/03/08
MATERIAL NO.
SEE CHART
SIZE A3
THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX
INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION

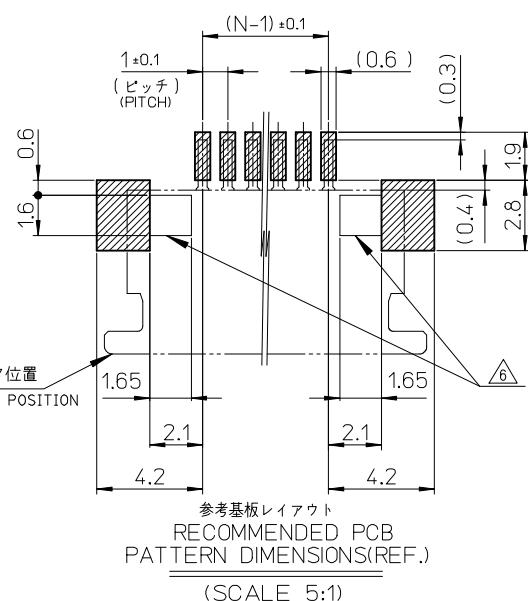
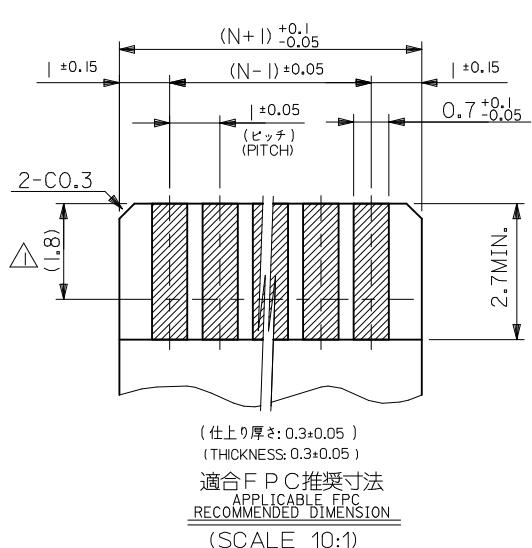
35	31.2	29	52271-3069	30
34	30.2	28	52271-2969	29
33	29.2	27	52271-2869	28
32	28.2	26	52271-2769	27
31	27.2	25	52271-2669	26
30	26.2	24	52271-2569	25
29	25.2	23	52271-2469	24
28	24.2	22	52271-2369	23
27	23.2	21	52271-2269	22
26	22.2	20	52271-2169	21
25	21.2	19	52271-2069	20
24	20.2	18	52271-1969	19
23	19.2	17	52271-1869	18
22	18.2	16	52271-1769	17
21	17.2	15	52271-1669	16
20	16.2	14	52271-1569	15
19	15.2	13	52271-1469	14
18	14.2	12	52271-1369	13
17	13.2	11	52271-1269	12
16	12.2	10	52271-1169	11
15	11.2	9	52271-1069	10
14	10.2	8	52271-0969	9
13	9.2	7	52271-0869	8
12	8.2	6	52271-0769	7
11	7.2	5	52271-0669	6
10	6.2	4	52271-0569	5
9	5.2	3	52271-0469	4
C	B	A	EMBOSSED PACKAGE オーダー番号 ORDER NO.	CIRCUITS
52271-**29 CONNECTOR SERIES NO.				

1.0 FPC CONN ZIF SMT
(BOTTOM CONTACT)
-LEAD FREE-

molex

SD-52271-038
SHEET NO.
1 OF 2

10 | 9 | 8 | 7 | 6 | 5 | 4 | 3 | 2 | 1



注記 NOTES

△ 接点部までの嵌合長さ。
LENGTH TO CONTACT POINT.

2. 使用材料 MATERIAL

ハウジング HOUSING : 46 NYLON, UL94V-0

アクチュエータ ACTUATOR : PPS, UL94V-0

ターミナル TERMINAL : リン青銅 (t=0.25)
PHOSPHOR BRONZE (t=0.25)

メッキ PLATING : 接点部: 金メッキ : 0.1 MICROMETER MIN.
CONTACT PORTION : GOLD PLATING : 0.1 MICROMETER MIN.

: 半田付部: 錫メッキ : 1.0 MICROMETER MIN.
SOLDERING PORTION : TIN PLATING : 1.0 MICROMETER MIN.

: 下地: ニッケルメッキ : 1.0 MICROMETER MIN.
UNDER PLATING : NICKEL PLATING : 1.0 MICROMETER MIN.

金具 FITTING NAIL : 銅合金 (t=0.25)
COPPER ALLOY (t=0.25)

: メッキ: 錫メッキ : 1.0 MICROMETER MIN.
PLATING : TIN PLATING : 1.0 MICROMETER MIN.

: 下地: ニッケルメッキ : 1.0 MICROMETER MIN.
UNDER PLATING : NICKEL PLATING : 1.0 MICROMETER MIN.

△ パターンはくり止め用金具
FITTING NAIL FOR PREVENTION OF PEELING
OF P.C.B. PATTERN.

4. エンボステープ梱包時は、アクチュエータがロックした状態とする。
IN THE PACKAGE, ACTUATOR OF PART NO.54550-**29 SHOULD BE LOCKED.

△ テール及び金具の平坦度は、0.15 以下とする。
TAIL AND NAIL COPLANARITY TO BE 0.15 MAXIMUM.

△ パターン書き込み禁止エリア
NO FOOT PRINT AREA.

FPCについて :

打抜き方向は、導体側から補強板側を推奨致します。

補強フィルム材質は、ポリイミドを推奨致します。

接着剤は、熱硬化接着剤を推奨致します。

ABOUT FPC :

RECOMMENDED PUNCHER DIRECTION :

FROM CONDUCTOR SIDE TO STIFFENER BOARD SIDE

RECOMMENDED MATERIAL :

STIFFENER FILM : POLYIMIDE

BONDING AGENT : THERMOSETTING BONDING AGENT

GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE MM ONLY		SCALE ---	DESIGN UNITS METRIC	THIRD ANGLE PROJECTION
10 UNDER	± 0.2	DRAWN BY M. UMEDA	DATE 2005/03/08	TITLE	1.0 FPC CONN ZIF SMT (BOTTOM CONTACT)	
10 OVER	30 UNDER	CHECKED BY K. TOYODA	DATE 2005/03/08		-LEAD FREE-	
30 OVER	± 0.3	APPROVED BY N. UKITA	DATE 2005/03/08			
ANGULAR	± 3 °	MATERIAL NO.		DOCUMENT NO.		
DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		SEE SHEET 1		SD-52271-038		
SIZE A3	THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION			SHEET NO. 2 OF 2		

molex

10 9 8 7 6 5 4 3 2 1

2

引き出し方向
←
PULL OUT
DIRECTION

The drawing shows a U-shaped metal bracket. The top horizontal distance between the outer vertical walls is labeled as 8.3. The height of each vertical wall from its base to the top horizontal line is labeled as 5.8. The thickness of each vertical wall is labeled as 0.8. The bottom horizontal distance between the inner vertical walls is labeled as 3.3. The height of the inner vertical walls from their bases to the bottom horizontal line is labeled as 1.

引き出し方向
PULL OUT DIRECTION

(2.9)

(6.5)

W

V

(A)

(B)

(C)

(11.5)

Ø 1.5 ± 0.1

(2)

I2 ± 0.1

4 ± 0.1

累積ピッチ 40 ± 0.2

ACCUMULATIVE PITCH

522771-**29

NOTES

1. 製品番号 52271-**29 の梱包状態はアクチュエータがロックした状態とする。
詳細寸法については図面 SD-52271-038 を参照下さい。
IN THE PACKAGE, AUTOMATOR OF PART NO. 52271-**29 SHOULD BE LOCKED
RE DETAILED DIMENSIONS, SEE SD-52271-038.

2. 梱包数量: 1000個/リール
NUMBER OF CONNECTORS : 1000 PCS/REEL

3. リードテープ長さ LEAD TAPE LENGTH

トップテープ リーダー部 TOP TAPE LEADER PART	トップテープ 未接着部 TOP TAPE NON-BONDED PART
175 \pm 25	25 \pm 5

4. カバーテープの剥離強度については、IEC60286-3に準拠
COVER TAPE PEEL FORCE IS DEFINED
BY IEC60286-3

5. 材料 (MATERIAL)
キャリアテープ (CARRIER TAPE): ポリプロピレン (POLYPROPYLENE)
トップテープ (TOP TAPE): PET, PE, PEF
リール (REEL): ポリスチレン (PS) <リサイクル材を含む>
POLYSTYRENE (PS) <RECYCLE MATERIAL CONTAINED>

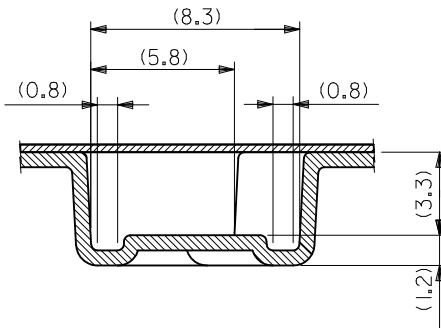
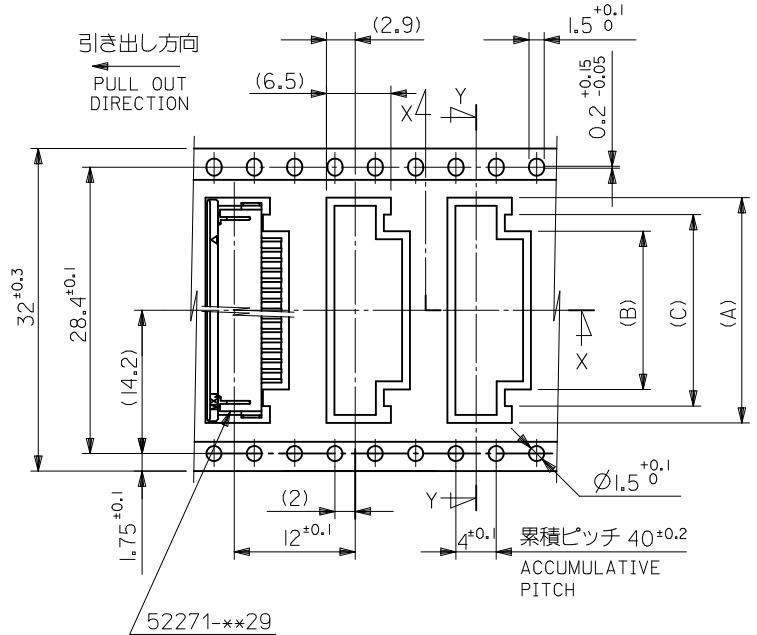
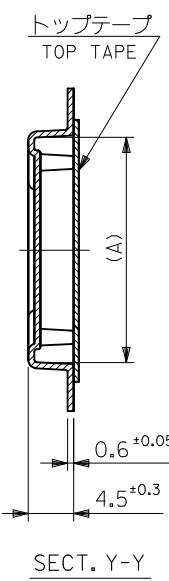
6. 本製品は乾燥剤入り、ハイバリア梱包仕様である。
THIS PRODUCT IS HIGH BARRIER PACKAGE

THIS PRODUCT IS HIGH BARRIER PACKAGE
WITH DESICCANT.

24	29.4	25.4	15	11.4	18.3	52271-1169	11
			14	10.4	17.3	52271-1069	10
			12	8.4	15.3	52271-0869	8
			11	7.4	14.3	52271-0769	7
			10	6.4	13.3	52271-0669	6
			9	5.4	12.3	52271-0569	5
			8	4.4	11.3	52271-0469	4
						MATERIAL NO.	種類 No.
			CARRIER TAPE WIDTH	F	D	(C)	(B)

				32271-**09		MODEL NO.	
REVISED EC NO: 12010-2474 DRWNS: YUHASEGAWA 2010/06/08 CHKDK: TOYODA 2010/06/08 APPR: KATORIKAWA 2010/06/09 DESCRIPTION 10 UNDER ±0.2 10 OVER 30 UNDER ±0.25 30 OVER ±0.3 ANGULAR ±3 ° DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS REV	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE MM ONLY		SCALE ---	DESIGN UNITS METRIC	 THIRD ANGLE PROJECTION
			DRAWN BY M. UMEDA	DATE 2005/03/08	TITLE EMBOSSED TAPE PACKAGE FOR 52271-**29 -LEAD FREE-		
			CHECKED BY K. TOYODA	DATE 2005/03/08			
			APPROVED BY N. UKITA	DATE 2005/03/08			
			MATERIAL NO. SEE TABLE		DOCUMENT NO. SD-52271-039	SHEET NO. 1 OF 4	
			SIZE A3	THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION			

10 9 8 7 6 5 4 3 2 1

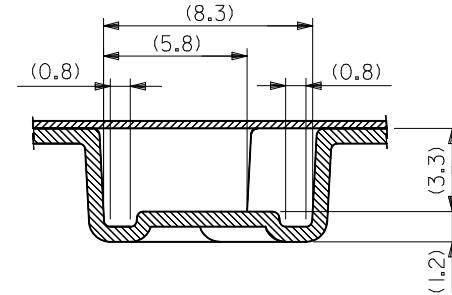
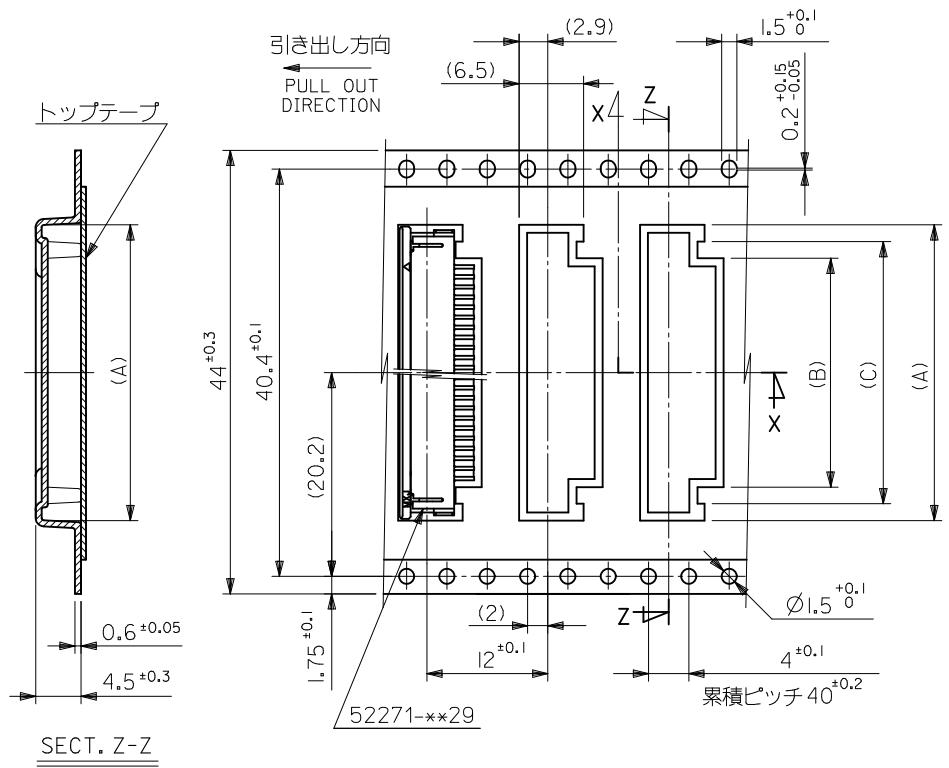


SECT. X-X

32	37.4	33.4	20	16.4	23.35	52271-1669	16
			19	15.4	22.35	52271-1569	15
			18	14.4	21.35	52271-1469	14
			17	13.4	20.35	52271-1369	13
			16	12.4	19.35	52271-1269	12
キャリアテープ幅 CARRIER TAPE WIDTH		F	D	(C)	(B)	(A)	MATERIAL NO. 機数 CKT.

GENERAL TOLERANCES (UNLESS SPECIFIED)	DIMENSION STYLE MM ONLY		SCALE ---	DESIGN UNITS METRIC	THIRD ANGLE PROJECTION	
10 UNDER	± 0.2		M. UMEDA	2005/03/08	TITLE EMBOSSSED TAPE PACKAGE FOR 52271-**29 -LEAD FREE-	
10 OVER	30 UNDER	± 0.25	K. TOYODA	2005/03/08		
30 OVER	± 0.3		N. UKITA	2005/03/08		
ANGULAR	$\pm 3^\circ$		MOLEX	MOLEX INCORPORATED	DOCUMENT NO. SD-52271-039	
DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS			SIZE A3	SHEET NO. 2 OF 4		
SEE TABLE						THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION

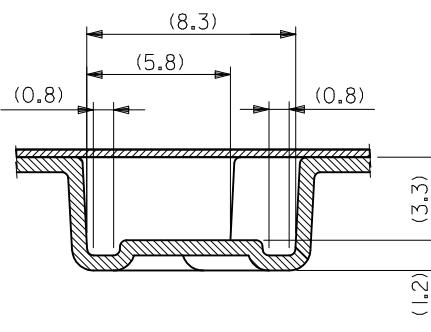
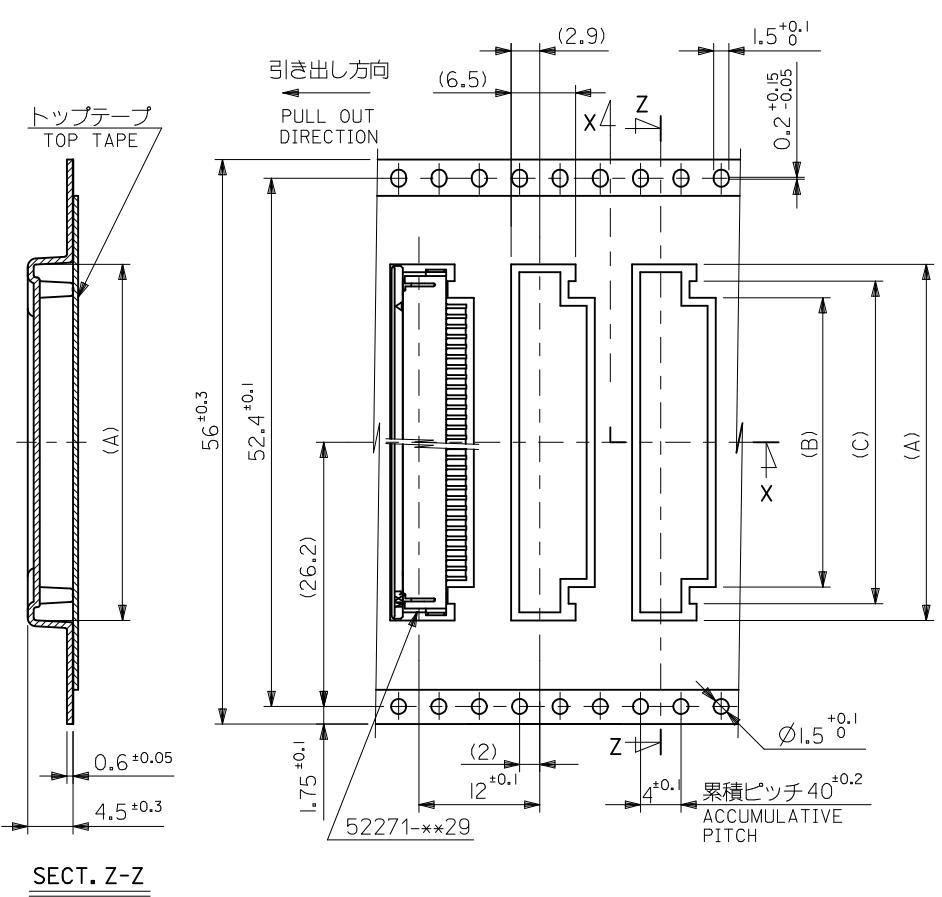
REVISED
EC NO: J2010-2474
DRAWN: YUASEGAWA 2010/06/08
CHDK: TOYODA 2010/06/08
APPR: KMORIKAWA 2010/06/09
REV G



SECT. X-X

44	49.4	45.4	31	27.4	34.35	52271-2769	27
			29	25.4	32.35	52271-2569	25
			28	24.4	31.35	52271-2469	24
			26	22.4	29.35	52271-2269	22
			25	21.4	28.35	52271-2169	21
			24	20.4	27.35	52271-2069	20
			23	19.4	26.35	52271-1969	19
			22	18.4	25.35	52271-1869	18
			21	17.4	24.35	52271-1769	17
キャリアテープ幅	E	D	(C)	(B)	(A)	MATERIAL NO	板数

REVISED EC NO: I2010-2474 DRWNR: YUHASEGAWA CH'K'DK: TOYODA APPR: KIORIKAWA	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE MM ONLY		SCALE ---	DESIGN UNITS METRIC	THIRD ANGLE PROJECTION
			DRAWN BY M. UMEDA	DATE 2005/03/08	TITLE	EMBOSSING TAPE PACKAGE FOR 52271-**29 -LEAD FREE-	
REV G	10 UNDER	± 0.2	CHECKED BY K. TOYODA	DATE 2005/03/08	molex MOLEX INCORPORATED	SD-52271-039 SHEET NO. 3 OF 4	
	10 OVER 30 UNDER	± 0.25					
	30 OVER	± 0.3	APPROVED BY N. UKITA	DATE 2005/03/08			
	ANGULAR	$\pm 3^\circ$	MATERIAL NO.	DOCUMENT NO.			
	DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		SEE TABLE				
		SIZE A3	THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION				



REVISED	EC NO: J2010-2474	DRAWN: YUASEGAWA	2010/06/08
G	CHDK: TOYODA	APPR: K.MORIKAWA	2010/06/09
REV	DESCRIPTION		

GENERAL TOLERANCES
(UNLESS SPECIFIED)

10 UNDER ± 0.2

10 OVER 30 UNDER ± 0.25

30 OVER ± 0.3

ANGULAR $\pm 3^\circ$

DRAFT WHERE APPLICABLE
MUST REMAIN
WITHIN DIMENSIONS

56	61.4	57.4	34	30.4	37.35	52271-3069	30
キャリアテープ幅 CARRIER TAPE WIDTH	F	D	(C)	(B)	(A)	MATERIAL NO.	機数 CKT.
DRAWN BY	DATE		TITLE				
M. UMEDA	2005/03/08		EMBORESSED TAPE PACKAGE				
CHECKED BY	DATE		FOR 52271-**29				
K. TOYODA	2005/03/08		-LEAD FREE-				
APPROVED BY	DATE		MOLEX MOLEX INCORPORATED				
N. UKITA	2005/03/08						
MATERIAL NO.	DOCUMENT NO.						
SEE TABLE	SD-52271-039						
SIZE	4 OF 4						
A3			THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION				