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Part Number: [0524372871](#)
Status: **Active**
Overview:
Description: 0.50mm (.020") Pitch FFC/FPC Connector, Right Angle, SMT, ZIF, Bottom Contact Style, 28 Circuits, Gold Contact Plating

Agency Certification

UL E29179

General

Product Family FFC/FPC Connectors
 Series [52437](#)
 Overview [ffc_fpc_smt](#)
 Product Name N/A

Physical

Circuits (Loaded) 28
 Color - Resin Natural
 Contact Position Bottom
 Durability (mating cycles max) 20
 Entry Angle 90° Angle
 Flammability 94V-0
 Material - Metal Phosphor Bronze
 Material - Plating Mating Gold
 Material - Plating Termination Gold
 Material - Resin High Temperature Thermoplastic
 Number of Rows 1
 Orientation Right Angle
 PCB Locator No
 PCB Retention None
 Packaging Type Embossed Tape on Reel
 Pitch - Mating Interface (in) 0.020 In
 Pitch - Mating Interface (mm) 0.50 mm
 Plating min: Mating (µin) 4
 Plating min: Mating (µm) 0.1
 Plating min: Termination (µin) 2
 Plating min: Termination (µm) 0.05
 Polarized to PCB Yes
 Stackable No
 Surface Mount Compatible (SMC) N/A
 Temperature Range - Operating -40°C to +85°C
 Termination Interface: Style Surface Mount
 Wire/Cable Type FFC/FPC

Electrical

Current - Maximum per Contact 0.5A
 Voltage - Maximum 50V

Material Info

Reference - Drawing Numbers

Packaging Specification SPK-52437-001
 Product Specification PS-52437-027, RPS-52437-040, RPS-52437-041, RPS-52437-042, RPS-52437-043, RPS-52437-045, RPS-52437-046
 Sales Drawing SD-52437-019, SD-52437-020

EU RoHS

ELV and RoHS Compliant

REACH SVHC

Not Reviewed

Halogen-Free

Status

Not Reviewed

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.

China RoHS

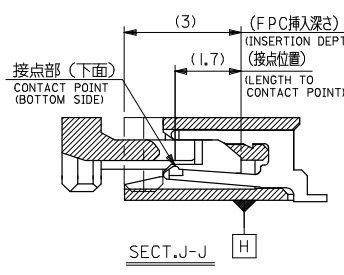
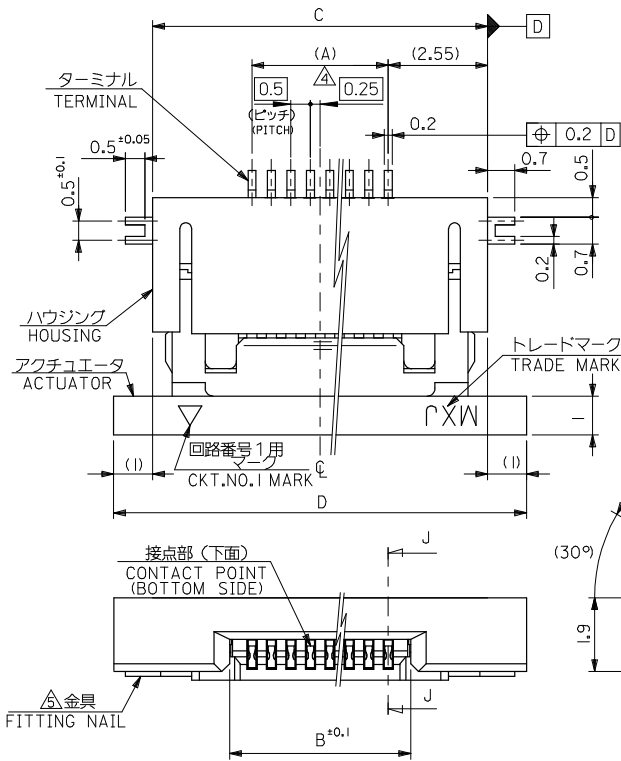


Search Parts in this Series

[52437Series](#)

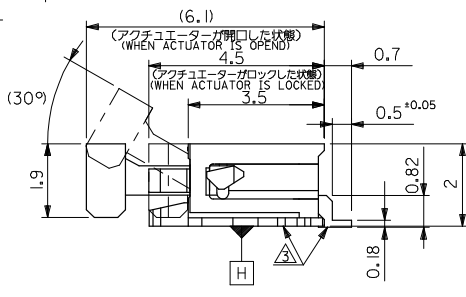
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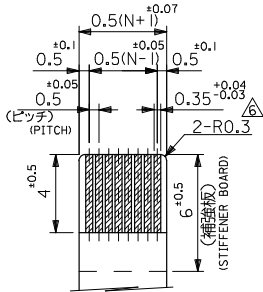


NOTES

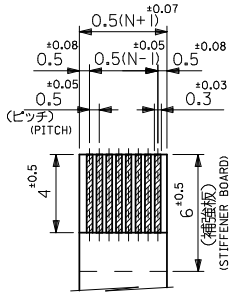
1. 使用材料：MATERIAL
 - ハウジング : 46ナイロン、UL94V-0
 - HOUSING : 46NYLON
 - アクチュエータ : PPS、UL94V-0
 - ACTUATOR
 - ターミナル : リン青銅、金メッキ (t=0.2)
 - TERMINAL : PHOS-BRO. GOLD PLATED
 - 金具 : リン青銅、錫メッキ (t=0.2)
 - FITTING NAIL : PHOS-BRO. TIN PLATED
2. エンボステープ梱包時は、アクチュエータがロックした状態とする。
IN THE PACKAGE, ACTUATOR OF PART NO.52437-**26 SHOULD BE LOCKED.
- △ソルダーテール半田付け面のズレ量、及び金具半田付け面のズレ量は、基準面 H に対し上方向 0.1 MAX.、下方向 0.15 MAX. とする。
MISALIGNMENT OF SOLDER TAILS AND FITTING NAILS FROM H UPPER DIRECTION: 0.1 MAX., LOWER DIRECTION: 0.15 MAX.
- △偶数極に適用。
APPLY FOR EVEN CIRCUIT.
- △パターンはくり止め用金具。
FITTING NAIL FOR PREVENTION OF PEELING OF P.C.B. PATTERN.
- △R0、3は、FPCの導体部にかからないこと。
R0,3 MUST NOT BE OVERLAPPED TO PATTERN OF FPC.
7. 本製品は52437シリーズの給フリ品、金メッキ品である。
THIS PRODUCT IS LEAD FREE AND GOLD PLATED OF 52437 S SERIES.
8. ソルダーテールの平坦度は、0.1 MAXIMUM とする。
SOLDER TAIL COPLANARITY IS 0.1 MAXIMUM.



REVISED		EC NO: J2008-4048		DRAWN BY: 2008/06/13		CHECKED BY: 2008/06/16		APPROVED BY: 2008/06/16		MODEL NO. 52437-**29
10	UNDER		±0.2	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE MM ONLY		SCALE ---	DESIGN UNITS METRIC	THIRD ANGLE PROJECTION
10	OVER	30	UNDER		±0.25	DRAWN BY M.UMEDA		DATE 2004/12/08		TITLE
30	OVER		±0.3	ANGULAR ±3°		CHECKED BY K.TOYOTA		DATE 2004/12/08		0.5 FPC CONN.ZIF FOR SMT,RA (BOTTOM CONTACT) -LEAD FREE-
DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		MATERIAL NO.		SEE SHEET 2		APPROVED BY N.UKITA		DATE 2004/12/08		MOLEX MOLEX INCORPORATED
						DOCUMENT NO. SD-52437-019		SHEET NO. 1 OF 2		
THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION										



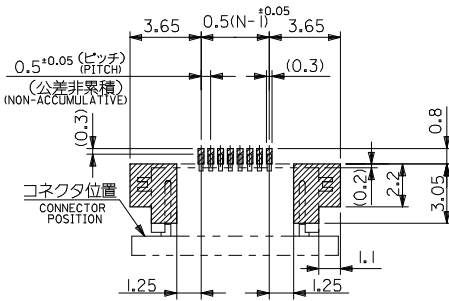
適合FPC推奨寸法
 APPLICABLE FPC
 RECOMMENDED DIMENSION.
 (仕上がり厚さ: 0.3^{+0.05})
 (THICKNESS: 0.3^{+0.05})



適合FFC推奨寸法
 APPLICABLE FFC
 RECOMMENDED DIMENSION.
 (仕上がり厚さ: 0.3^{+0.05})
 (THICKNESS: 0.3^{+0.05})

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



参考基板レイアウト
 (マウント面)
 RECOMMENDED P.C. BOARD
 PATTERN DIMENSION (REF.)
 (MOUNTING SIDE)

21.6	19.6	15.65	14.5	52437-3071	52437-3029	30
21.1	19.1	15.15	14.0	52437-2971	52437-2929	29
20.6	18.6	14.65	13.5	52437-2871	52437-2829	28
20.1	18.1	14.15	13.0	52437-2771	52437-2729	27
19.6	17.6	13.65	12.5	52437-2671	52437-2629	26
19.1	17.1	13.15	12.0	52437-2571	52437-2529	25
18.6	16.6	12.65	11.5	52437-2471	52437-2429	24
18.1	16.1	12.15	11.0	52437-2371	52437-2329	23
17.6	15.6	11.65	10.5	52437-2271	52437-2229	22
17.1	15.1	11.15	10.0	52437-2171	52437-2129	21
16.6	14.6	10.65	9.5	52437-2071	52437-2029	20
13.6	11.6	7.65	6.5	52437-1471	52437-1429	14
12.6	10.6	6.65	5.5	52437-1271	52437-1229	12
D	C	B	(A)	EMBOSSED TAPE	MATERIAL NO.	極数 CKT.
				ORDER No. オーダー番号	MODEL NO. 52437-**29	

REVISED EC NO: J2008-4048 DRAWN BY: DRWNMBEL 2008/06/13 CHECKED BY: CHYKD:THARYAMA 2008/06/16 APPROVED BY: APPRN:UKITA 2008/06/16	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE MM ONLY		SCALE ---	DESIGN UNITS METRIC	THIRD ANGLE PROJECTION
	10 UNDER	±0.2	DRAWN BY M.UMEDA	DATE 2004/12/08	TITLE 0.5 FPC CONN.ZIF FOR SMT.RA (BOTTOM CONTACT) -LEAD FREE-		
	10 OVER 30 UNDER	±0.25	CHECKED BY K.TOYOTA	DATE 2004/12/08	MOLEX INCORPORATED		
	30 OVER	±0.3	APPROVED BY N.UKITA	DATE 2004/12/08	MATERIAL NO. SEE TABLE	DOCUMENT NO. SD-52437-019	SHEET NO. 2 OF 2
ANGULAR ±3°		DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		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

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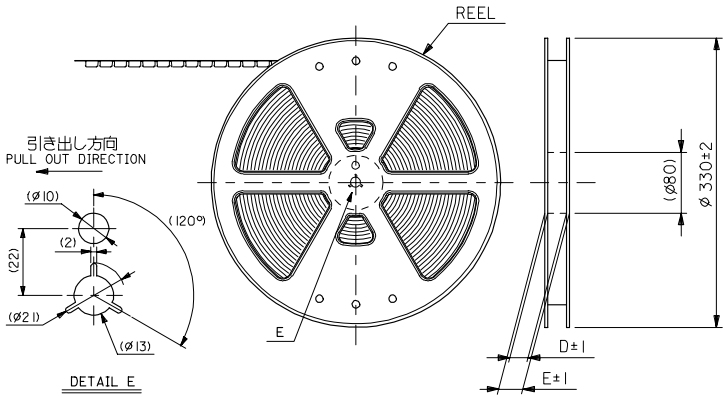
E

D

C

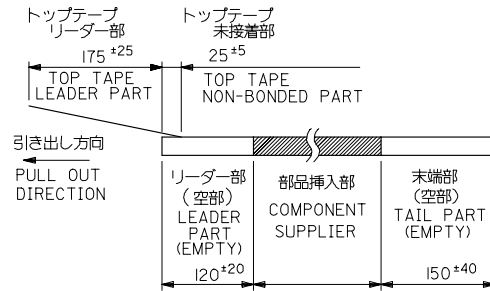
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注記 NOTES

- 製品番号52437-**-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。製品の詳細寸法については図面SD-52437-019を参照下さい。
IN THE PACKAGE, ACTUATOR OF PART NO. 52437-**-29 SHOULD BE LOCKED RE DETAILED DIMENSIONS, SEE SD-52437-019.
- 梱包数量：1000個/リール
NUMBER OF CONNECTORS:1000PCS/REEL
- リードテープ長さ LEAD TAPE LENGTH



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>
 POLYSTYREN (PS) <RECYCLE MATERIAL CONTAINED>

6. 本製品は 52437-**-91 の鉛フリー品である。

THIS PRODUCT IS LEAD FREE OF 52437-**-91.

4. トップテープの剥離強度：(剥離方向は下図参照)

0.1N~1.3N (10gf~130gf)尚、本規格値は、出荷時に適用。

(但し、輸送時に剥離が発生しない事。)

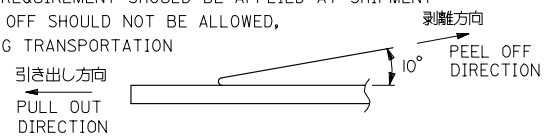
PEELING OFF FORCE OF TOP TAPE

0.1N ~1.3N (10gf ~130gf) (PEELING DIRECTION AS SHOWN IN FOLLOWING FIG.)

THIS REQUIREMENT SHOULD BE APPLIED AT SHIPMENT

PEEL OFF SHOULD NOT BE ALLOWED,

DURING TRANSPORTATION



MODEL NO. 52437-**-71

REVISED EC NO. J2006-2906 2006/03/17 DRAWN:MABEL CHKD:KTOYODA 2006/03/21 APPR:NIUKITA 2006/03/23	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE MM ONLY		SCALE ---	DESIGN UNITS METRIC	THIRD ANGLE PROJECTION
	10 UNDER	±0.2	DRAWN BY M.UMEDA	DATE 2004-12/08	TITLE 0.5 FPC CONN. ZIF SMT RA WITH TAPE EMBSTP PKG -LEAD FREE- MOLEX INCORPORATED		
	10 OVER 30 UNDER	±0.25	CHECKED BY K.TOYODA	DATE 2004-12/08			
	30 OVER	±0.3	APPROVED BY N.UKITA	DATE 2004-12/08			
	ANGULAR	±3 °	MATERIAL NO. SEE CHART		DOCUMENT NO. SD-52437-020	SHEET NO. 1 OF 3	
	DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION				

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EN-02JA(021)

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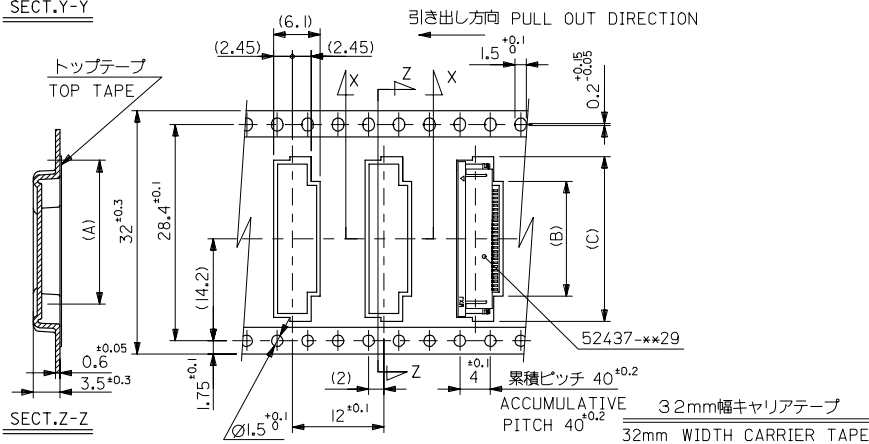
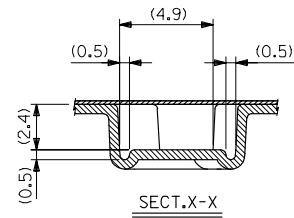
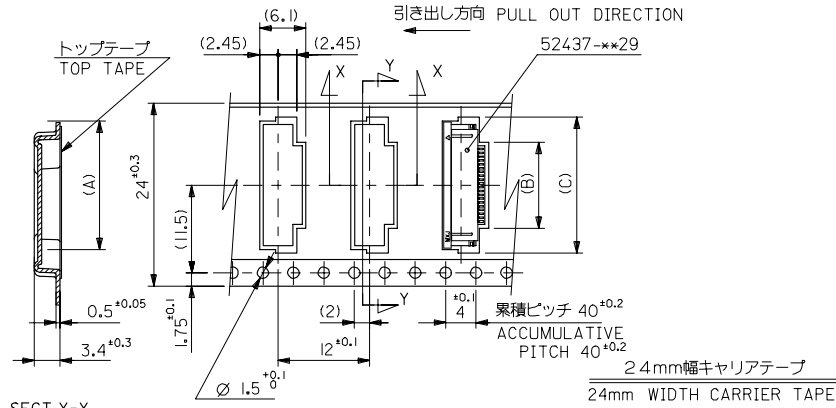
D

C

B

A

10 9 8 7 6 5 4 3 2 1



32	37.4	33.4	22.4	15.8	21.4	52437-2971	29
			21.9	15.3	20.9	52437-2871	28
			21.4	14.8	20.4	52437-2771	27
			20.9	14.3	19.9	52437-2671	26
			20.4	13.8	19.4	52437-2571	25
			19.9	13.3	18.9	52437-2471	24
24	29.4	25.4	19.4	12.8	18.4	52437-2371	23
			18.9	12.3	17.9	52437-2271	22
			18.4	11.8	17.4	52437-2171	21
			17.9	11.3	16.9	52437-2071	20
			14.9	8.3	13.9	52437-1471	14
			13.9	7.3	12.9	52437-1271	12
キャリアテープ幅 CARRIER TAPE WIDTH	E	D	(C)	(B)	(A)	MATERIAL NO.	積数 CIRCUIT
						MODEL NO.	52437-**-71

REVISED REV. DESCRIPTION	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE MM ONLY		SCALE ---	DESIGN UNITS METRIC	THIRD ANGLE PROJECTION
	10 UNDER	±0.2	DRAWN BY M.UMEDA	DATE 2004/12/08	TITLE 0.5 FPC CONN. ZIF SMT RA WITH TAPE EMBSTP PKG -LEAD FREE-		
	10 OVER 30 UNDER	±0.25	CHECKED BY K.TOYODA	DATE 2004/12/08			
	30 OVER	±0.3	APPROVED BY N.UKITA	DATE 2004/12/08			
	ANGULAR ±3 °		MATERIAL NO.		DOCUMENT NO.		SHEET NO.
DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		SEE CHART		SD-52437-020		2 OF 3	
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

F

E

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C

B

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F

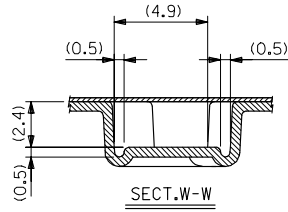
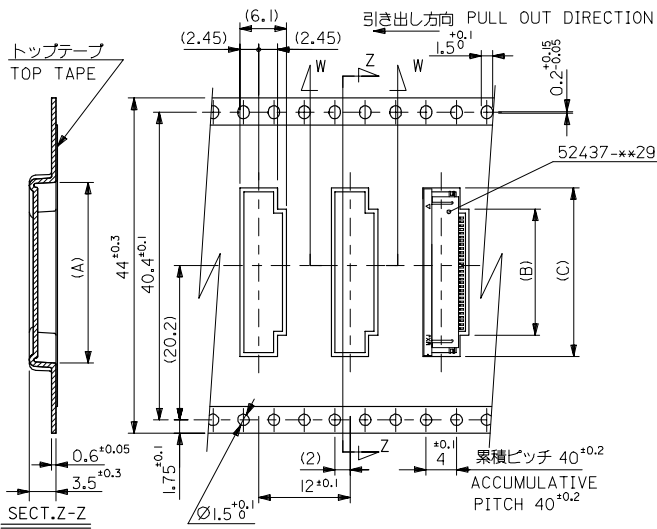
E

D

C

B

A



44mm幅キャリアテープ
44mm WIDTH CARRIER TAPE

44	49.4	45.4	22.9	16.3	21.9	52437-3071	30
キャリアテープ幅 CARRIER TAPE WIDTH	E	D	(C)	(B)	(A)	MATERIAL NO.	極数 CIRCUIT
						MODEL NO.	25437-xx71

REVISED EC NO: J2006-2906 2006/03/17 DRAWN: MABEL 2006/03/21 CHK: K. TOYODA 2006/03/23 APPR: NUKITA	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE MM ONLY		SCALE ---	DESIGN UNITS METRIC	THIRD ANGLE PROJECTION
	10 UNDER	±0.2	DRAWN BY M.UMEDA	DATE 2004/12/08	TITLE 0.5 FPC CONN. ZIF SMT RA WITH TAPE EMBSTP PKG -LEAD FREE- MOLEX INCORPORATED		
	10 OVER 30 UNDER	±0.25	CHECKED BY K.TOYODA	DATE 2004/12/08			
	30 OVER	±0.3	APPROVED BY N.UKITA	DATE 2004/12/08			
ANGULAR ±3 °		DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		MATERIAL NO. SEE CHART	DOCUMENT NO. SD-52437-020	SHEET NO. 3 OF 3	
				SIZE A3	THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION		