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Part Number: [5033084210](#)
Status: **Active**
Overview: [slimstack_mm016_pitch](#)
Description: 0.40mm (.016") Pitch SlimStack™ Board-to-Board, Plug, SMT, Dual Row, Vertical Stacking, 0.70mm (.028") Stacking Height, 42 Circuits

Documents:
[3D Model](#)
[Drawing \(PDF\)](#)
[Product Specification PS-503304-001 \(PDF\)](#)
[RoHS Certificate of Compliance \(PDF\)](#)

General

Product Family	PCB Headers
Series	503308
Application	Board-to-Board
Overview	slimstack_mm016_pitch
Product Name	SlimStack™

Physical

Breakaway	No
Circuits (Loaded)	42
Color - Resin	Black
Durability (mating cycles max)	30
Glow-Wire Compliant	No
Mated Height (in)	0.028 In
Mated Height (mm)	0.70 mm
Material - Metal	Copper Alloy
Material - Plating Mating	Gold
Material - Plating Termination	Gold
Number of Rows	2
Orientation	Vertical
PCB Locator	No
PCB Retention	Yes
Packaging Type	Embossed Tape on Reel
Pitch - Mating Interface (in)	0.016 In
Pitch - Mating Interface (mm)	0.40 mm
Polarized to Mating Part	No
Polarized to PCB	No
Stackable	No
Temperature Range - Operating	-40°C to +85°C
Termination Interface: Style	Surface Mount

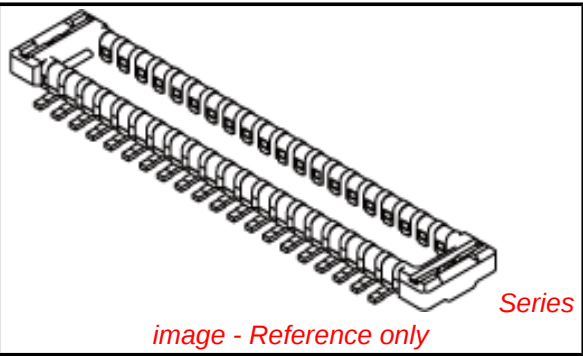
Electrical

Current - Maximum per Contact	0.3A
Voltage - Maximum	50V AC/DC

Material Info

Reference - Drawing Numbers

Application Specification	AS-503304-001
Packaging Specification	SPK-503308-001
Product Specification	PS-503304-001, RPS-503304-001
Sales Drawing	SD-503308-001, SD-503308-002



EU RoHS

**ELV and RoHS
Compliant**
REACH SVHC
Not Reviewed
**Halogen-Free
Status**

China RoHS



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.

Search Parts in this Series
[503308Series](#)

Mates With
[503304 PCB Receptacle](#)

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注記 NOTES

1. 使用材料 MATERIAL

ハウジング : 液晶ポリマー (LCP) UL94V-0 (黒)
60極品はLCPのグレードが異なります。

HOUSING: LIQUID CRYSTAL POLYMER UL94V-0 (COLOR: BLACK)

ターミナル : 銅合金

TERMINAL : COPPER ALLOY

金具 : 銅合金

FITTING NAIL : COPPER ALLOY

2. メッキ仕様 PLATING

ターミナル TERMINAL

金メッキ

GOLD

下地メッキ : ニッケルメッキ

UNDER PLATING : NICKEL

※コンタクト部とテール部はニッケルメッキによって分断されている金メッキです。
DIVIDE INTO PARTS THE GOLD PLATING OF THE CONTACT
AND THE TAIL PART BY THE NICKEL PLATING.

金具 FITTING NAIL

錫メッキ

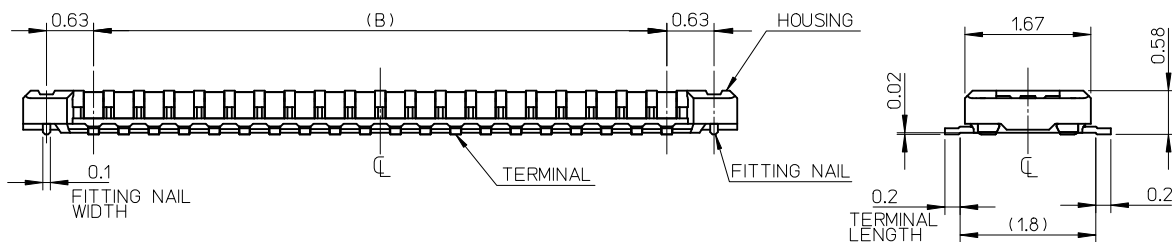
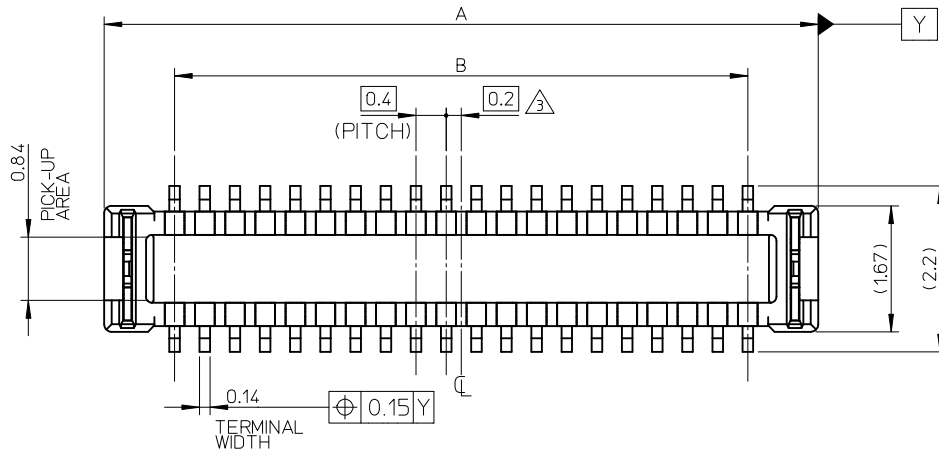
Tin PLATING

下地メッキ : ニッケルメッキ

UNDER PLATING : NICKEL

△ (全極数 / 2) = 偶数の場合に適用。
APPLY FOR (CIRCUIT / 2) = EVEN.4. 嵌合相手 : 503304 シリーズ
MATE WITH : 503304 SERIES.

5. テール平坦度は、0.08 以下

テール及び金具の平坦度は、0.1 以下
TAIL COPLANARITY TO BE 0.08 MAXIMUM.
TAIL AND FITTING NAIL COPLANARITY TO BE 0.1 MAXIMUM.

11.6	13.47	503308-6020	60
9.6	11.47	503308-5010	50
8.4	10.27	503308-4410	44
8.0	9.87	503308-4210	42
7.6	9.47	503308-4010	40
5.6	7.47	503308-3010	30
4.8	6.67	503308-2610	26
3.6	5.47	503308-2010	20
3.2	5.07	503308-1810	18
2.8	4.67	503308-1610	16
2.0	3.87	503308-1210	12
B	A	EMBOSSED PACKAGE	極数
		オーダー番号 ORDER No.	CIRCUITS
		CONNECTOR SERIES No. : 503308-**09	

REVISED EC NO: J2010-1761 DRWN: M. TAKAHASHI 03/2009/12/23 CHKD: THIRATA 2010/03/17 APPR: MSASAO 2010/03/18	DESCRIPTION	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE MM ONLY		SCALE 15:1	DESIGN UNITS METRIC	THIRD ANGLE PROJECTION		
		10 UNDER	± 0.2	DRAWN BY KSASAKI	DATE 2008/04/17	TITLE 0.4 B-TO-B CONN. HGT=0.7 W=2.6 PLUG ASS'Y				
		10 OVER 30 UNDER	± 0.25	CHECKED BY THIRATA	DATE 2008/04/17					
		30 OVER	± 0.3	APPROVED BY MSASAO	DATE 2008/04/17	MOLEX INCORPORATED				
		ANGULAR ±1 °		MATERIAL NO. SEE CHART						DOCUMENT NO. SD-503308-001
	G	REV	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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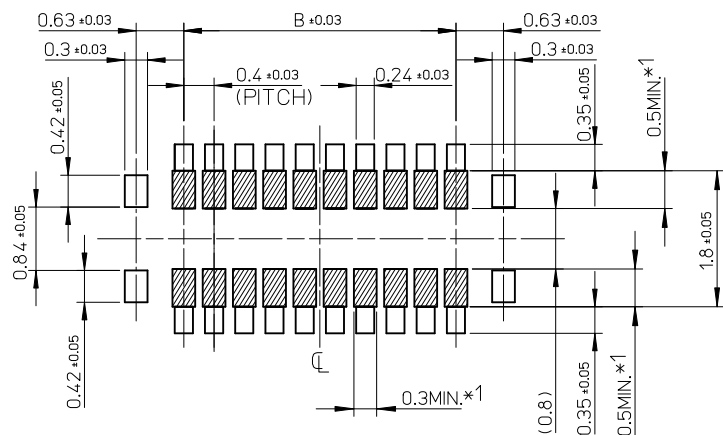
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*1 パターン引き回し、および半田禁止エリア
(当該箇所においては、これと接する回路以外の配線を禁止する。
また、接する回路を配線する場合はレジストを施し、この部分に
半田は無きこととする。)

*1 PROHIBITED AREA OF PATTERN WIRING AND SOLDER.
(FOR EACH AREA, THE WIRING THAT TOUCHES ON THE SOLDER
CAN BE ATTACHED, THEN COVERED WITH A FILM TO KEEP SOLDER OUT.)

RECOMMENDED P.W. BOARD
PATTERN LAYOUT

REVISED EC NO: J2010-1761 DRWN:MTAKAHASHI 2009/12/23 CHKD:THIRATA 2010/03/17 APPR:MSASAO 2010/03/18 G	DESCRIPTION	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE MM ONLY		SCALE 15:1	DESIGN UNITS METRIC	 THIRD ANGLE PROJECTION	
		10 UNDER	± 0.2	DRAWN BY KSASAKI	DATE 2008/04/17	TITLE 0.4 B-TO-B CONN. HGT=0.7 W=2.6 PLUG ASS'Y			
		10 OVER 30 UNDER	± 0.25	CHECKED BY THIRATA	DATE 2008/04/17				
		30 OVER	± 0.3	APPROVED BY MSASAO	DATE 2008/04/17	MOLEX INCORPORATED			
		ANGULAR ±1 °		MATERIAL NO. SEE CHART					
	DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		SIZE A3	THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION					
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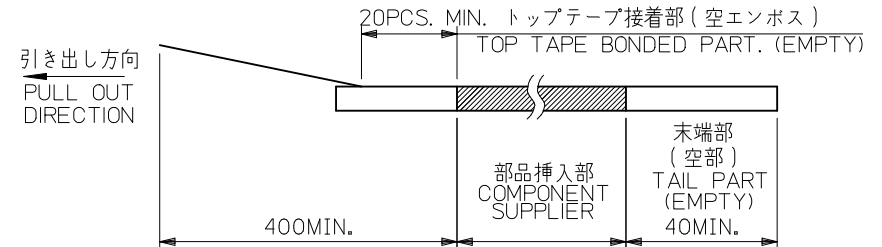
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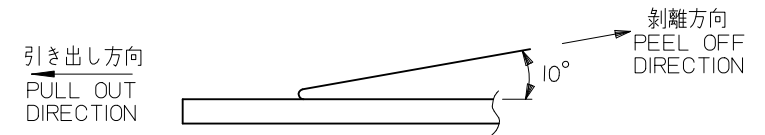
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注記 NOTES

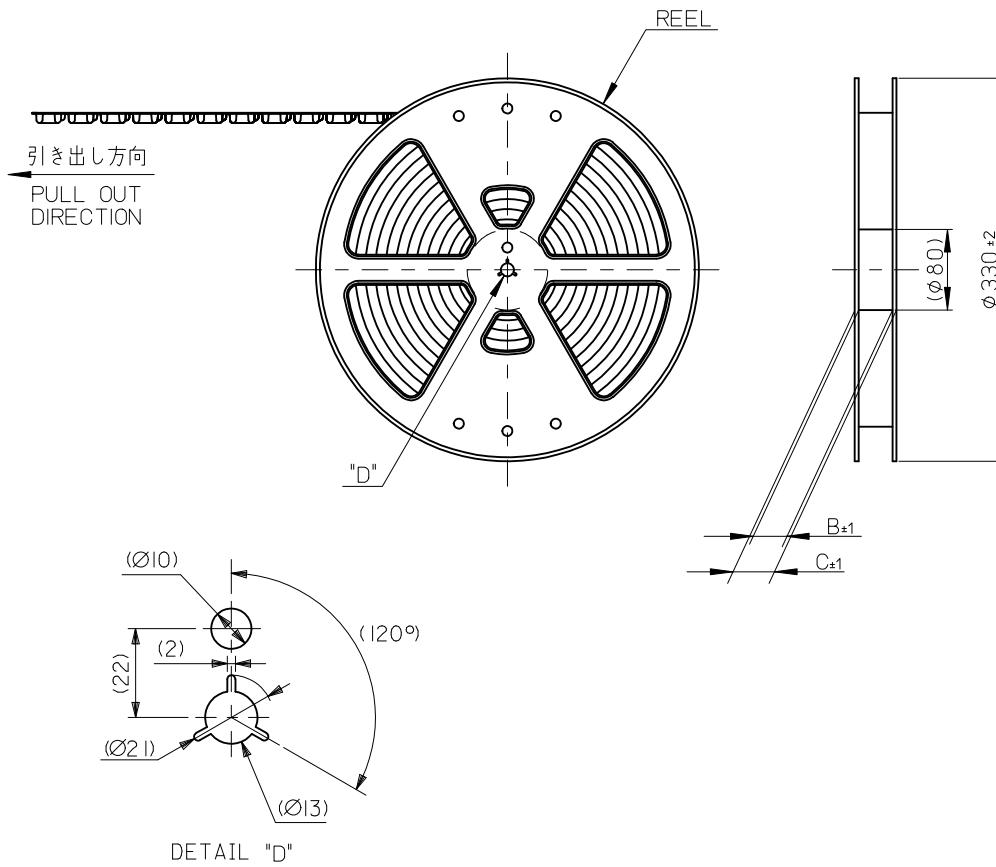
- 製品詳細寸法については製品単体図面を参照下さい。
RE DETAILED DIMENSION, SEE PRODUCT DRAWING.
- 梱包数量 : 3000 個/リール
NUMBER OF CONNECTORS : 3000PCS/REEL
- リードテープ長さ LEAD TAPE LENGTH



- トップテープの剥離強度 : 0.1N~1.3N(10gf~130gf)
(剥離方向は下図参照)
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こと。)
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 TRANSPORTION.

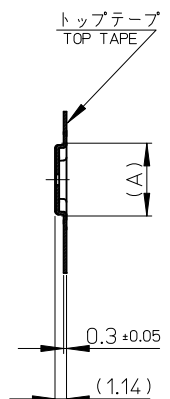


- 材料 MATERIAL
キャリアテープ (CARRIER TAPE) : ポリスチレン (POLYSTYRENE)
トップテープ (TOP TAPE) : PET , OTHER
リール (REEL) : ポリスチレン (PS) <リサイクル材を含む>
POLYSTYRENE (PS) <RECYCLE MATERIAL CONTAINED>
- ELV 及び RoHS適合品
ELV AND RoHS COMPLIANT

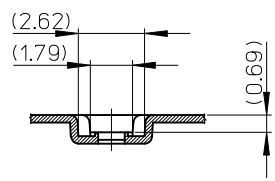
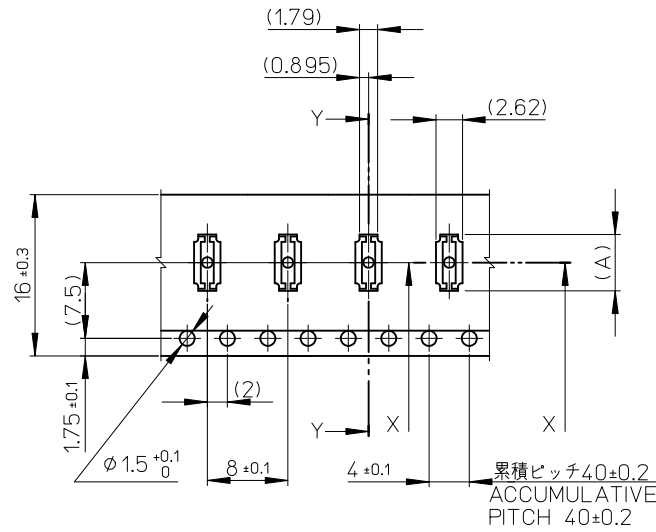


REVISED EC NO: J2010-4761 DRWN:MTAKASHI 03 2010/01/22 CHKD:THIRATA 2010/03/17 APPR:MSASAO 2010/03/18	DESCRIPTION	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE MM ONLY		SCALE 1:1	DESIGN UNITS METRIC	MODEL NO. 503308-002	THIRD ANGLE PROJECTION
		10 UNDER	±0.2	DRAWN BY KSASAKI	DATE 2008/12/12	TITLE 0.4 B-TO-B CONN. HGT=0.7 PLUG ASSY EMBSTP PKG			
		10 OVER 30 UNDER	±0.25	CHECKED BY THIRATA	DATE 2008/12/12				
		30 OVER	±0.3	APPROVED BY MSASAO	DATE 2008/12/12				
		ANGULAR ±1°		MATERIAL NO.		DOCUMENT NO.		SHEET NO.	
	DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		SEE CHART		SD-503308-002		1 OF 3		
	REV	THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION							

引き出し方向
PULL OUT DIRECTION



SECTION Y-Y



SECTION X-X

16mm 幅キャリアテープ
16mm WIDTH CARRIER TAPE

16	21.4	17.4	6.79	503308-2610		26
			5.59	503308-2010		20
			5.19	503308-1810		18
			4.79	503308-1610		16
			3.99	503308-1210		12
キャリアテープ幅 CARRIER TAPE WIDTH	C	B	(A)	MATERIAL No.		CKT.
				MODEL No.	503308-**-10	

REVISED

EC NO: J2010-1761

DRWN:MTAKAHASHI 03 2010/02/03

CHKD:THIRATA 2010/03/17

APPR:MSASAO 2010/03/18

DESCRIPTION

REV

GENERAL TOLERANCES
(UNLESS SPECIFIED)

10 UNDER ± 0.2

10 OVER 30 UNDER ± 0.25

30 OVER ± 0.3

ANGULAR ± 1 °

DRAFT WHERE APPLICABLE
MUST REMAIN
WITHIN DIMENSIONS

DIMENSION STYLE
MM ONLY

DRAWN BY KASAKI

DATE 2008/12/12

CHECKED BY THIRATA

DATE 2008/12/12

APPROVED BY MSASAO

DATE 2008/12/12

MATERIAL NO.

SEE CHART

SIZE A3

SCALE

DESIGN UNITS
METRIC

THIRD ANGLE
PROJECTION

TITLE
0.4 B-TO-B CONN. HGT=0.7
PLUG ASSY EMBSTP PKG

MOLEX INCORPORATED

DOCUMENT NO.
SD-503308-002

SHEET NO.
2 OF 3

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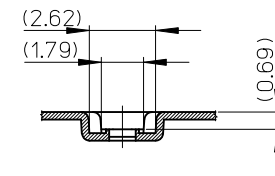
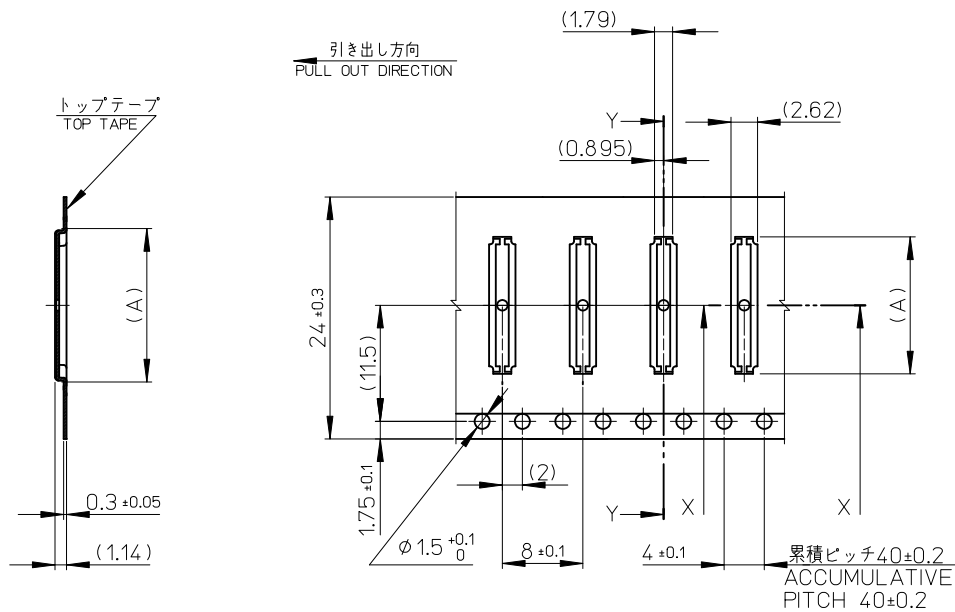
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D

C

B

A



SECTION X-X

SECTION Y-Y

24mm 幅キャリアテープ
24mm WIDTH CARRIER TAPE

24	29.4	25.4	13.59	503308-6020		60
			11.59	503308-5010		50
			10.39	503308-4410		44
			9.99	503308-4210		42
			9.59	503308-4010		40
			7.59	503308-3010		30
キャリアテープ幅 CARRIER TAPE WIDTH	C	B	(A)	MATERIAL No.		CKT.
				MODEL No.	503308-**10	

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		10 OVER 30 UNDER	±0.25	CHECKED BY THIRATA	DATE 2008/12/12					
		30 OVER	±0.3	APPROVED BY MSASAO	DATE 2008/12/12	MOLEX MOLEX INCORPORATED				
		ANGULAR ±1°	MATERIAL NO.		DOCUMENT NO.		SHEET NO.			
		DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		SEE CHART		SD-503308-002		3 OF 3		
	REV	THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION								
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