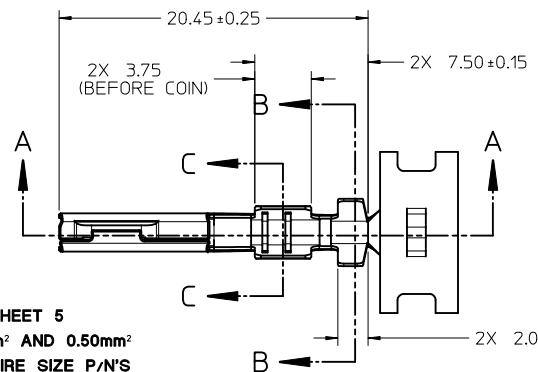


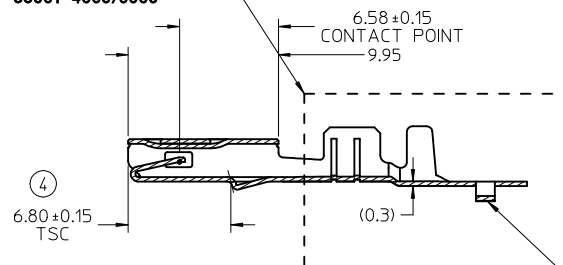
NOTES: (UNLESS OTHERWISE SPECIFIED)

-
- (10.67)
PROGRESSION

Technical drawing of a mechanical component, likely a pump or motor housing, showing a side view with various ports and a mounting bracket.



SEE SHEET 5
0.35mm² AND 0.50mm²
ISO WIRE SIZE P/N'S
33012-2004/3004
33001-4005/5005

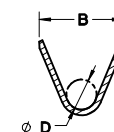


SECTION A-A

CARRIER BUMP DIRECTION 

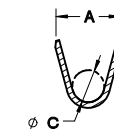
POINTS DOWN FOR TIN PLATED TERMINALS

POINTS UP FOR PRECIOUS PLATED TERMINALS



SECTION B-B

SCALE 5:1



SECTION C-C

SCALE 5:1

ENTER DESCRIPTION EC NO: UAU2011-0559 DRWN:REN05 2011/01/12 CHKD: APPR:BMOSER 2011/01/20 B2	DESCRIPTION F = 0 F = 0 F = 0	QUALITY SYMBOLS	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE		SCALE	DESIGN UNITS	THIRD ANGLE PROJECTION			
					MM ONLY		4:1	METRIC				
					mm	INCH	DRAWN BY	DATE	TITLE			
			4 PLACES ± ---		± ---	L. PULLIAM	2005/06/21	MX150 RECEPTACLE TERMINAL				
			3 PLACES ± 0.005		± ---	CHECKED BY	DATE					
			2 PLACES ± 0.10		± ---	A. DHIR	2005/06/21					
			1 PLACE ± 0.3		± ---	APPROVED BY	DATE					
					ANGULAR ± 3 °		B. MOSER	2005/06/22	MOLEX MOLEX INCORPORATED			
							MATERIAL NO.		DOCUMENT NO.		SHEET NO.	
							SEE TABLE		SD-33012-002		1 OF 5	
		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								

13	12	11	10	9	8	7	6	5	4	3	2	1
TABLE												
SUPPLIER PART NUMBER		PLATING	GRIP CODE	WIRE APPLICATION	A +0.30	B +0.30	C +0.30	D +0.30	COMMENTS			
SMALL POLARIZATION RIB												
RIGHT PAYOFF DIRECTION B	LEFT PAYOFF DIRECTION D			SAE (AWG)	METRIC (mm²)							
33012-2001	33012-3001	TIN	14	14/16	2.0-15	3.9	4.4	1.7	1.6			
33012-2002	33012-3002	TIN	18	18/20	10-0.75	3.3	3.1	1.3	1.4			
33012-2003	33012-3003	TIN	22	22	0.35-0.50	2.5	2.6	0.9	1.0			
33012-2004	33012-3004	TIN	M3	N/A	0.35-0.50	2.5	2.7	0.9	1.54±0.1	PREFERRED TERMINAL FOR USE IN SEALED APPLICATION WITH 0.35& 0.50 WIRES (OD 1.2-1.7mm)		
33001-2003	33001-3003	GOLD	14	14/16	2.0-15	3.9	4.4	1.7	1.6			
33001-2004	33001-3004	GOLD	18	18/20	10-0.75	3.3	3.1	1.3	1.4			
33001-2005	33001-3005	GOLD	22	22	0.35-0.50	2.5	2.6	0.9	1.0			
33001-4001	33001-5001	SILVER	14	14/16	2.0-15	3.9	4.4	1.7	1.6	NOT TO BE USED IN CONNECTOR SYSTEMS WITH CIRCUIT COUNTS HIGHER THAN 8 DUE TO HIGHER CONNECTOR MATE/UNMATE FORCE		
33001-4002	33001-5002	SILVER	18	18/20	10-0.75	3.3	3.1	1.3	1.4			
33001-4003	33001-5003	SILVER	22	22	0.35-0.50	2.5	2.6	0.9	1.0			
33001-4005	33001-5005	SILVER	M3	N/A	0.35-0.50	2.5	2.7	0.9	1.54±0.1	PREFERRED TERMINAL FOR USE IN SEALED APPLICATION WITH 0.35& 0.50 WIRES (OD 1.2-1.7mm) USE IN CLASS 3 (125° C) APPLICATIONS ONLY		
LARGE POLARIZATION RIB - NOT TO BE USED IN MX150 SEALED CONNECTORS												
33012-2021	33012-3021	TIN	14	14/16	2.0-15	3.9	4.4	1.7	1.6			
33012-2022	33012-3022	TIN	18	18/20	10-0.75	3.3	3.1	1.3	1.4			
33012-2023	33012-3023	TIN	22	22	0.35-0.50	2.5	2.6	0.9	1.0			
33001-2021	33001-3021	GOLD	14	14/16	2.0-15	3.9	4.4	1.7	1.6			
33001-2022	33001-3022	GOLD	18	18/20	10-0.75	3.3	3.1	1.3	1.4			
33001-2023	33001-3023	GOLD	22	22	0.35-0.50	2.5	2.6	0.9	1.0			
33001-4021	33001-5021	SILVER	14	14/16	2.0-15	3.9	4.4	1.7	1.6	NOT TO BE USED IN CONNECTOR SYSTEMS WITH CIRCUIT COUNTS HIGHER THAN 8 DUE TO HIGHER CONNECTOR MATE/UNMATE FORCE		
33001-4022	33001-5022	SILVER	18	18/20	10-0.75	3.3	3.1	1.3	1.4			
33001-4023	33001-5023	SILVER	22	22	0.35-0.50	2.5	2.6	0.9	1.0			

SECTION G-G

GROMMET CAP OPENING

GROMMET SEAL / CAP CONFIGURATION TO MODIFY
LARGE POLARIZATION RIB CAVITY TO ACCEPT
SMALL POLARIZATION RIB APPLICATIONS

ENTER DESCRIPTION EC NO: UAU2011-0559 DRWN:YEN05 CHKD: APPR:BMOSER 2011/01/12 2011/01/20	REV	QUALITY SYMBOLS	GENERAL TOLERANCES (UNLESS SPECIFIED)	DIMENSION STYLE MM ONLY	SCALE	DESIGN UNITS METRIC	THIRD ANGLE PROJECTION
				mm INCH	DRAWN BY DATE	TITLE MX150 RECEPTACLE TERMINAL	
			4 PLACES ± --- ± ---	L. PULLIAM 2005/06/21	CHECKED BY DATE		
			3 PLACES ± 0.005 ± ---	A. DHIR 2005/06/21	APPROVED BY DATE		
				2 PLACES ± 0.10 ± ---	B. MOSER 2005/06/22	MATERIAL NO.	DOCUMENT NO.
			1 PLACE ± 0.3 ± ---	ANGULAR ± 3 °	SEE TABLE	SD-33012-002	2 OF 5
			DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS	SIZE C	THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION		

tb_frame_C.P_AM.T
Rev. F 2009/06/18

12

11

10

9

8

7

6

5

4

3

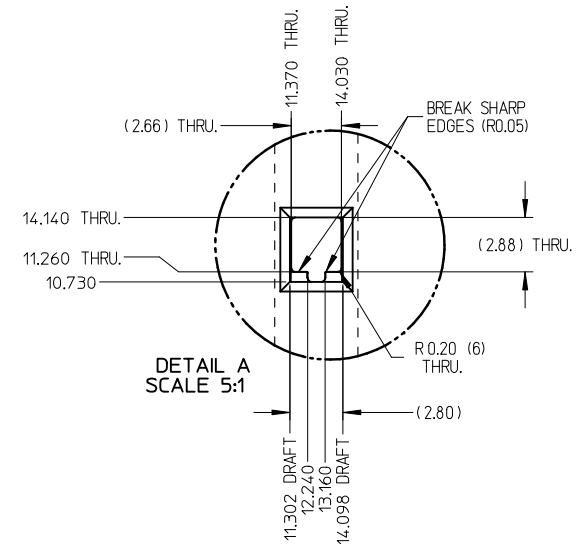
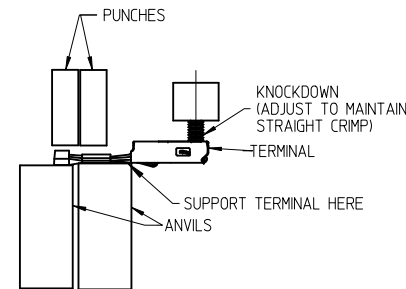
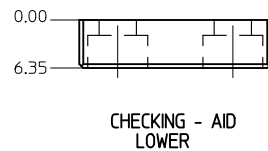
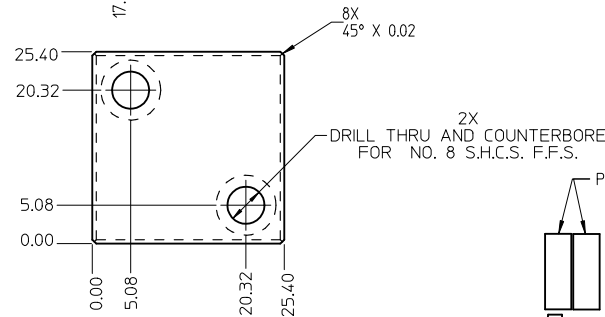
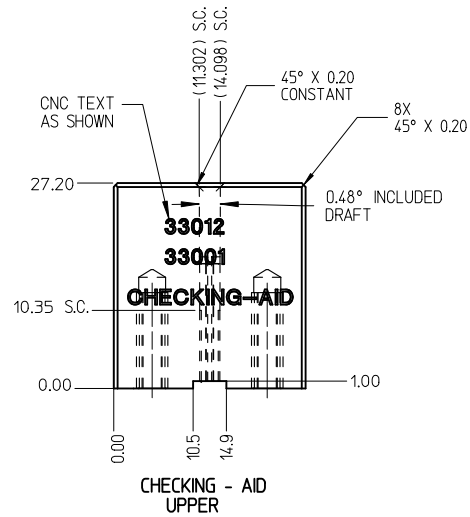
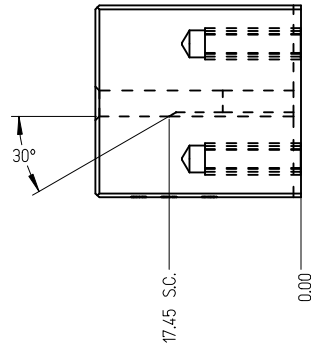
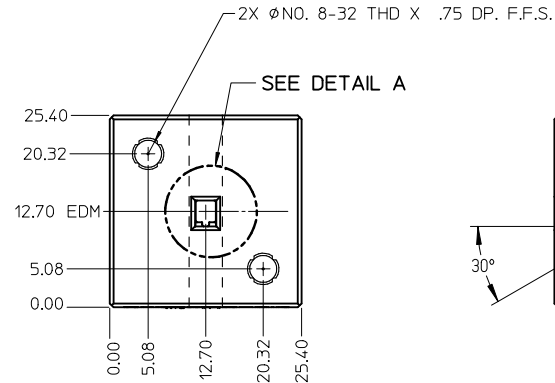
2

1

THIS CHECKING - AID IS FOR SMALL POLARIZATION RIB TERMINALS ONLY



CHECKING - AID ASSEMBLY
SCALE 1:1



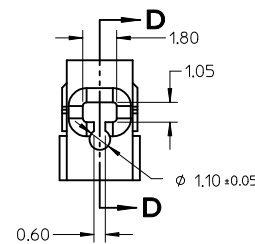
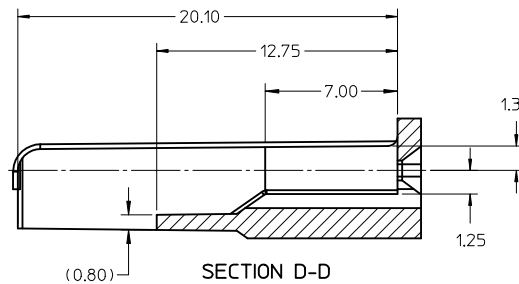
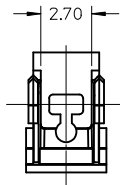
CRIMP REQUIREMENTS:

1. CRIMP STRAIGHTNESS MUST BE MAINTAINED
USE A KNOCKDOWN TOOL LOCATED AS SHOWN
TERMINAL BOX MUST NOT BE DEFORMED
2. AFTER CRIMPING, THE CRIMPED TERMINAL (AND UP TO 5 mm OF WIRE PAST THE INSULATOR CUTOFF TAB) MUST FIT FREELY INTO THE CHECKING-AID SHOWN ON THIS PAGE
3. FOR OTHER MECHANICAL REQUIREMENTS ON CRIMPED TERMINALS, REFER TO SAE/USCAR-21 (5-13-02) SECTIONS 4.2 (VISUAL INSPECTION), 4.2 (CROSS SECTION ANALYSIS) AND 4.4 (CONDUCTOR CRIMP PULLOUT FORCE)

UPPER & LOWER
CHECKING-AID
A2 TOOL STEEL
HARDEN & GRIND
ROCKWELL "C" 56-58

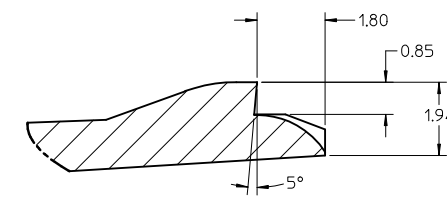
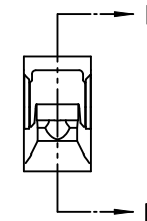
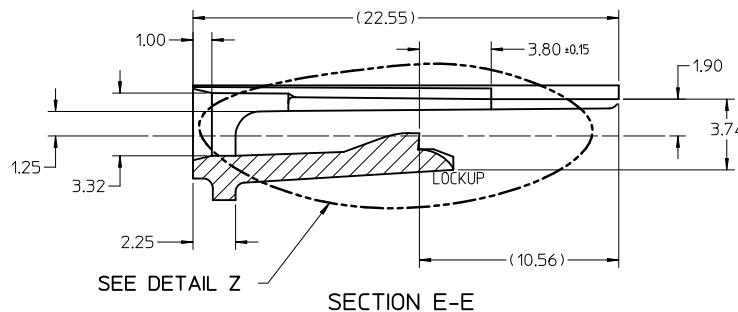
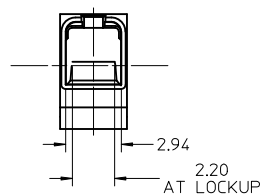
ENTER DESCRIPTION EC NO: UAU2011-0559 DRWN:YEN05 CHKD: APPR:BMOSER	DESCRIPTION REV 2011/01/12 2011/01/20	QUALITY SYMBOLS ▽=0 ▽=0 ▽=0	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE MM ONLY		SCALE 2:1	DESIGN UNITS METRIC	 THIRD ANGLE PROJECTION		
				mm	INCH	DRAWN BY L. PULLIAM	DATE 2005/06/21	TITLE MX150 RECEPTACLE TERMINAL			
			4 PLACES	± ---	± ---	CHECKED BY A. DHIR	DATE 2005/06/21				
			3 PLACES	± 0.005	± ---	APPROVED BY B. MOSER	DATE 2005/06/22	MOLEX MOLEX INCORPORATED			
			2 PLACES	± 0.10	± ---	MATERIAL NO. SEE TABLE					
			1 PLACE	± 0.3	± ---						
			ANGULAR ± 3 °								
DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS											

SIZE C THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION

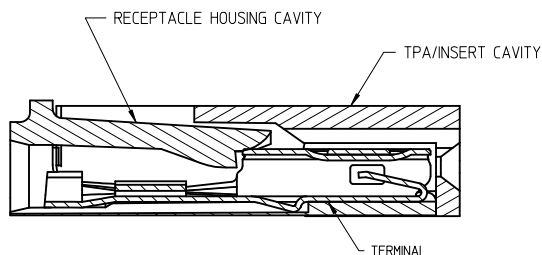


NOTES: UNLESS OTHERWISE SPECIFIED

1. TOLERANCES: LINEAR ± 0.10
ANGULAR $\pm 3^\circ$
2. ALL DRAFT WITHIN TOLERANCE.
3. MAX RADII ON ALL CORNERS SHOWN SHARP: 0.10
4. MAX FLASH PERMISSIBLE: 0.1
5. EJECTOR PIN MARKS PERMISSIBLE IF FLUSH TO 0.25 BELOW SURFACE.
6. MATERIAL: HOUSING/FINGER SPECIFICATION ENGINEERED FOR MATERIAL WITH THE FOLLOWING PROPERTIES:
A. FLEXURAL MODULUS = 4,500 TO 9,400 MPa
PER ASTM TEST D790
B. ELONGATION AT YIELD = 2.3% OR BETTER
PER ASTM TEST D638 TYPE V
7. CAVITY SPEC FOR USE ONLY WITH MOLEX RECEPTACLE
TERMINAL PART NUMBERS SPECIFIED ELSEWHERE ON THIS
DRAWING

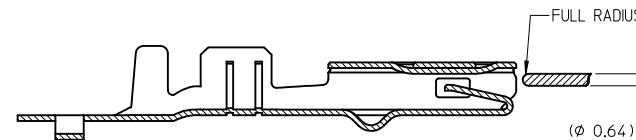
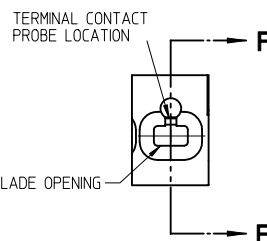


DETAIL Z
SCALE 20:1

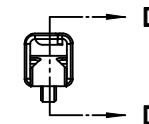


SECTION F-F

RECEPTACLE CAVITY ASSEMBLED VIEWS
FOR SMALL POLARIZATION RIB APPLICATIONS
FIG. 1



SECTION D-D
FOR LARGE POLARIZATION RIB APPLICATIONS
FIG. 2



PROBING DOWN THE
THROAT MUST USE
THIS TERMINAL PROBE

PROBE PIN DETAILS:
MANUFACTURER: LONE STAR INDUSTRIAL
PART NUMBER: LS054R-403-N-4.6
PIN DIAMETER: 0.025 IN (0.64mm)
TIP SHAPE: SPHERICAL
TEL: 915-779-7255

PREFERRED PROBING LOCATION
IS NOT ON SPRING MEMBER

IF ELECTRICAL CONTINUITY PROBE
TOUCHES SPRING MEMBER USE
PROBING AS SHOWN IN FIG. 2

ENTER DESCRIPTION
EC NO: UAU2011-0559 2011/01/12
DRAWN: YEN05
CHKD: BMO
APPR: BMO
REV

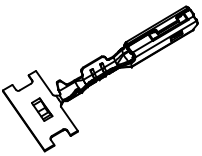
DESCRIPTION
2011/01/20

QUALITY
SYMBOLS
▽=0
▽=0
▽=0

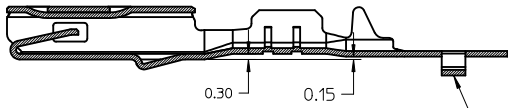
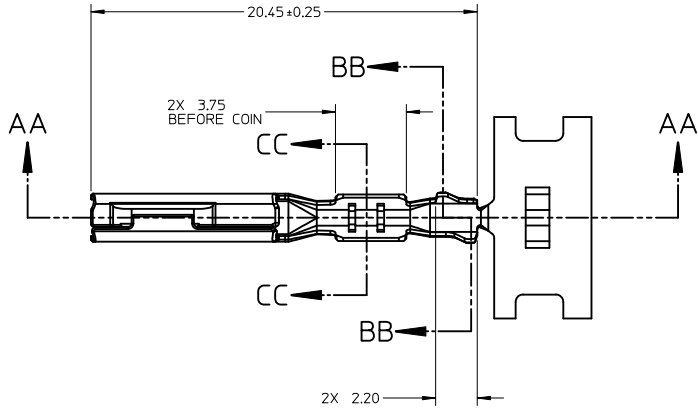
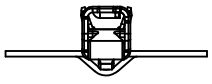
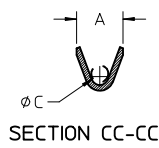
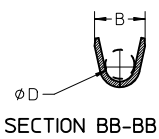
GENERAL TOLERANCES (UNLESS SPECIFIED)		
	mm	INCH
4 PLACES	± ---	± ---
3 PLACES	± 0.005	± ---
2 PLACES	± 0.10	± ---
1 PLACE	± 0.3	± ---
ANGULAR $\pm 3^\circ$		
DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		

DIMENSION STYLE MM ONLY	
DRAWN BY	DATE
L. PULLIAM	2005/06/21
CHECKED BY	DATE
A. DHIR	2005/06/21
APPROVED BY	DATE
B. MOSER	2005/06/22
MATERIAL NO.	
SEE TABLE	
SIZE	
C	

SCALE 5:1	DESIGN UNITS METRIC	THIRD ANGLE PROJECTION
TITLE MX150 RECEPTACLE TERMINAL		
MOLEX INCORPORATED		
DOCUMENT NO. SD-33012-002		SHEET NO. 4 OF 5
THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION		



ISO VIEW
SCALE 2:1



SECTION AA-AA

P/N'S 33012-2004/3004
33001-4005/5005

CARRIER BUMP DIRECTION
POINTS DOWN FOR TIN PLATED TERMINAL
POINTS UP FOR PRECIOUS METAL PLATED
TERMINAL

ENTER DESCRIPTION EC NO: UAU2011-0559 DRWN:REN05 CHKD: APPR:BMOSER REV B2	DESCRIPTION 2011/01/12 2011/01/20	QUALITY SYMBOLS ▽=0 ▽=0 ▽=0	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE MM ONLY		SCALE 5:1	DESIGN UNITS METRIC	 THIRD ANGLE PROJECTION		
				mm	INCH	DRAWN BY DATE L. PULLIAM 2005/06/21		TITLE MX150 RECEPTACLE TERMINAL			
			4 PLACES ± ---	± ---	CHECKED BY DATE A. DHIR 2005/06/21						
			3 PLACES ± 0.005	± ---	APPROVED BY DATE B. MOSER 2005/06/22		 MOLEX INCORPORATED				
			2 PLACES ± 0.10	± ---	MATERIAL NO.					DOCUMENT NO.	SHEET NO.
			1 PLACE ± 0.3	± ---	SEE TABLE					SD-33012-002	5 OF 5
			ANGULAR ± 3 °		DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		SIZE C		THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION		