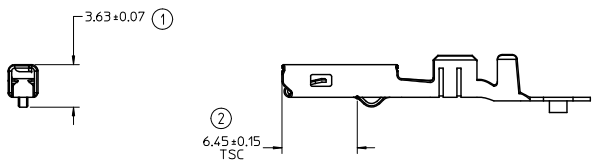
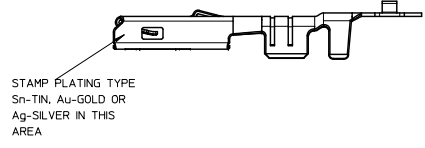


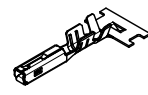
13 12 11 10 9 8 7 6 5 4 3 2 1



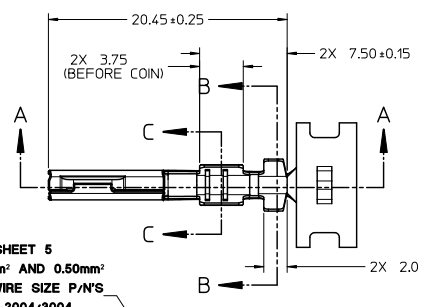
DIMENSIONS FOR LARGE POLARIZATION RIB TERMINAL ONLY



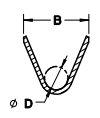
STAMP PLATING TYPE
Sn-TIN, Au-GOLD OR
Ag-SILVER IN THIS
AREA



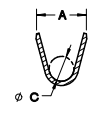
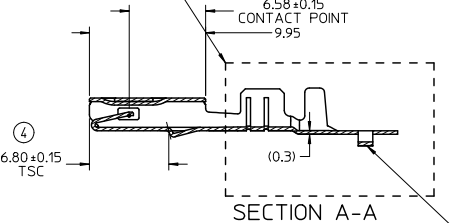
SCALE 2:1



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



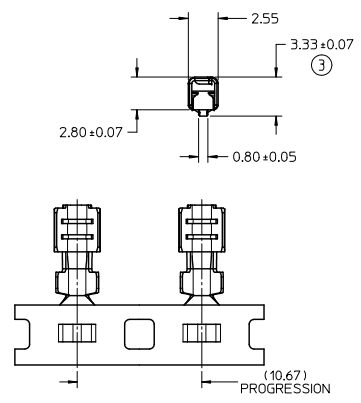
SECTION B-B
SCALE 5:1



SECTION C-C
SCALE 5:1

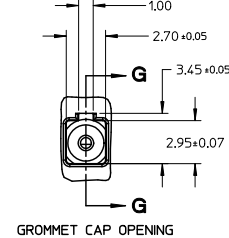
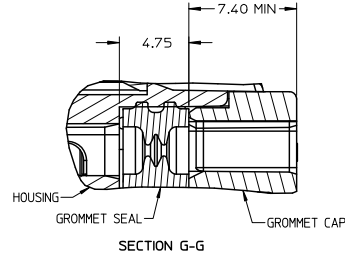
CARRIER BUMP DIRECTION
POINTS DOWN FOR TIN PLATED TERMINALS
POINTS UP FOR PRECIOUS PLATED TERMINALS

- NOTES: (UNLESS OTHERWISE SPECIFIED)
- MATING TERMINAL SHOWN ON SD-33000-001
 - MATERIAL: ASTM B422, UNS C19025, HR04
THICKNESS: 0.30 mm ± 0.01
TEMPER: FULL HARD (REF)
TENSILE: 490 MIN MPA
 - TIN PLATED TERMINAL FINISH:
OVERALL UNDERPLATE ELECTRODEPOSITED NICKEL
OVERALL ELECTRODEPOSITED REFLOW TIN
 - GOLD PLATED TERMINAL FINISH:
OVERALL UNDERPLATE ELECTRODEPOSITED DUCTILE SULFAMATE NICKEL
CONTACT AREA - ELECTRODEPOSITED GOLD
GRP AREA - ELECTRODEPOSITED 100% TIN MATTE FINISH
 - SILVER PLATED TERMINAL FINISH:
OVERALL UNDERPLATE ELECTRODEPOSITED DUCTILE SULFAMATE NICKEL
CONTACT AREA - ELECTRODEPOSITED PURE SILVER (0.5% MAX IMPURITIES) SEMI-BRIGHT FINISH
- SILVER ANTI-TARNISH - EVIABRITE
GRP AREA - ELECTRODEPOSITED 100% TIN MATTE FINISH
 - MEETS PERFORMANCE SPECIFICATION FOR CABLE TO TERMINAL ELECTRICAL CRIMPS PER SAE/USCAR-21 (8/2001)
 - MEETS PERFORMANCE STANDARD FOR AUTOMOTIVE ELECTRICAL CONNECTOR SYSTEMS FOR SAE/USCAR-2, REV. 4 (TEMP CLASS 3) (4/2001)
 - MEETS ELECTRICAL CONNECTION SYSTEM DESIGN SPECIFICATION (SDS) REV.11 (5/2002)
 - MEETS FIELD CORRELATED LIFE TEST (FCLT) PER SAE/USCAR-20 (11/2001)
 - MEETS WIRING COMPONENT DESIGN GUIDELINES SAE/USCAR-12 REV 2 (12/2001)
 - TSC ON A DIMENSION TO BE INTERPRETED AS DISTANCE TO A THEORETICAL SHARP CORNER AS IF THE RADIUS WERE NOT PRESENT
 - REFERENCE 979G-1474-AAB FOR LARGE POLARIZATION RIB CAVITY SPECIFICATION
 - INSERTION FORCE (TIN AVG. FROM PV TESTING - 3.0N LARGE POLARIZATION RIB 3.5N SMALL POLARIZATION RIB (REFERENCE))
 - ALL DIMENSIONS EXCEPT \varnothing & ARE COMMON TO BOTH SMALL AND LARGE POLARIZATION RIB TERMINALS
 - REFERENCE PK-31300-516 FOR REEL DIRECTION
 - REFERENCE AS-33012-002 FOR CRIMP INFORMATION



ENTER DESCRIPTION EC NO.: UAU201-0539 DRAWN: HENOS 2011/01/12 CHKD: BMOSE 2011/01/20 APPR: BMOSE BZ	QUALITY SYMBOLS	GENERAL TOLERANCES (UNLESS SPECIFIED)	DIMENSION STYLE	SCALE	DESIGN UNITS	THIRD ANGLE PROJECTION
	$\nabla = 0$ $\nabla = 0$ $\nabla = 0$	mm INCH ANGULAR ± 3 °	MM ONLY	4:1	METRIC	<input checked="" type="checkbox"/> THIRD ANGLE PROJECTION
	4 PLACES ± --- ± --- 3 PLACES ± 0.005 ± --- 2 PLACES ± 0.10 ± --- 1 PLACE ± 0.3 ± ---	DRAWN BY L. PULLIAM 2005/06/21 CHECKED BY A. DHIR 2005/06/21 APPROVED BY B. MOSER 2005/06/22	DATE DATE DATE	TITLE MX150 RECEPTACLE TERMINAL		
	DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS	SEE TABLE SIZE C	MATERIAL NO. SD-33012-002	DOCUMENT NO. SD-33012-002	MOLEX INCORPORATED	SHEET NO. 1 OF 5

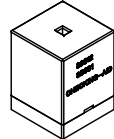
TABLE										
SUPPLIER PART NUMBER	PLATING	GRP CODE	WIRE APPLICATION		A +0.30	B +0.30	C +0.30	D +0.30	COMMENTS	
SMALL POLARIZATION RIB RIGHT PAYOFF DIRECTION B	LEFT PAYOFF DIRECTION D		SAE (AWG)	METRIC (mm ²)						
33012-2001	33012-3001	TIN	14	14/16	2.0-15	3.9	4.4	1.7	1.6	
33012-2002	33012-3002	TIN	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 (95° 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	



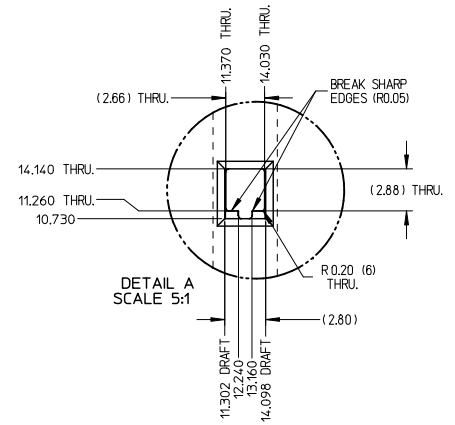
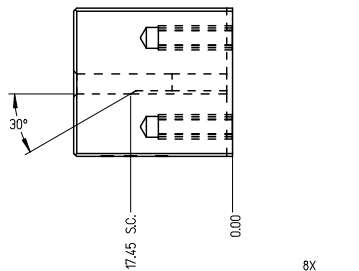
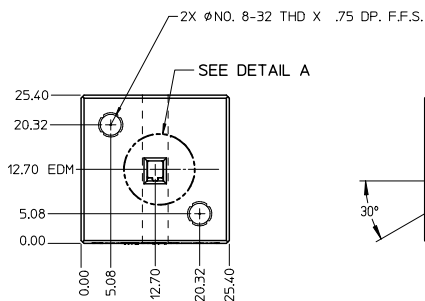
**GROMMET SEAL / CAP CONFIGURATION TO MODIFY
LARGE POLARIZATION RIB CAVITY TO ACCEPT
SMALL POLARIZATION RIB APPLICATIONS**

ENTER DESCRIPTION EC NO.: UAL2011-0539 DRAWN: HENOS 2011/01/12 CHKD: APPR: BMOSER 2011/01/20 REV:	QUALITY SYMBOLS	GENERAL TOLERANCES (UNLESS SPECIFIED)	DIMENSION STYLE	SCALE	DESIGN UNITS	THIRD ANGLE PROJECTION
	▽=0	mm INCH	MM ONLY	METRIC	⊙	
	▽=0	4 PLACES ± --- ± ---	DRAWN BY DATE			
	▽=0	3 PLACES ± 0.005 ± ---	L. PULLIAM 2005/06/21	TITLE		
		2 PLACES ± 0.10 ± ---	CHECKED BY DATE			
		1 PLACE ± 0.3 ± ---	A. DHIR 2005/06/21			
		ANGULAR ± 3 °	APPROVED BY DATE			
			B. MOSER 2005/06/22			
		DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS	MATERIAL NO.	DOCUMENT NO.		SHEET NO.
			SEE TABLE	SD-33012-002		2 OF 5
			SIZE C	THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION		

THIS CHECKING - AID IS FOR SMALL POLARIZATION RIB TERMINALS ONLY

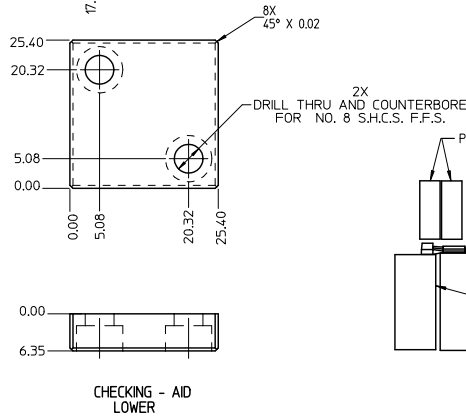
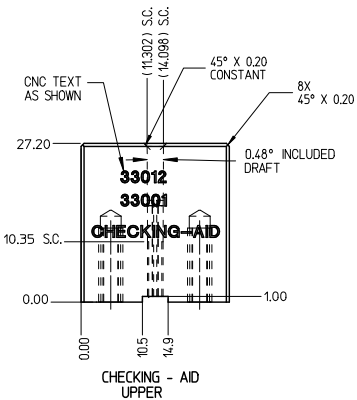


CHECKING - AID ASSEMBLY
SCALE 1:1



CRIMP REQUIREMENTS:

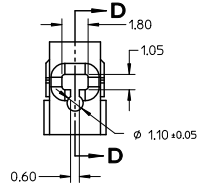
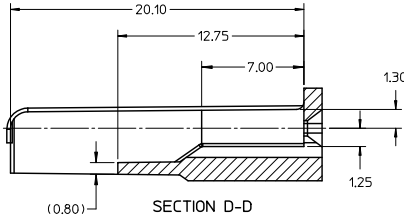
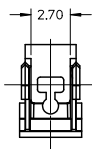
1. CRIMP STRAIGHTNESS MUST BE MAINTAINED. USE A KNOCKDOWN TOOL LOCATED AS SHOWN. TERMINAL BOX MUST NOT BE DEFORMED.
2. AFTER CRIMPING, THE CRIMPED TERMINAL (AND UP TO 5 mm OF WIRE PAST THE INSULATOR CUTOFF TAB) MUST FIT FREELY INTO THE CHECKING-AID SHOWN ON THIS PAGE.
3. FOR OTHER MECHANICAL REQUIREMENTS ON CRIMPED TERMINALS, REFER TO SAE/J593-21 (5-13-02) SECTIONS 4.2 (VISUAL INSPECTION), 4.2 (CROSS SECTION ANALYSIS) AND 4.4 (CONDUCTOR CRIMP PULLOUT FORCE).



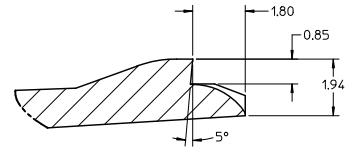
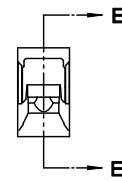
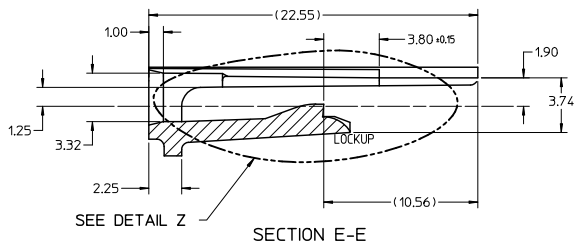
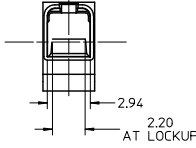
UPPER & LOWER CHECKING-AID
A2 TOOL STEEL
HARDEN & GRIND
ROCKWELL 'C' 56-58

ENTER DESCRIPTION EC NO.: UAL2011-0559 DRWN: SHENOS 2011/01/12 CHKD: APPRE: MOSER 2011/01/20 REV:	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 ± 3 °	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	SCALE 2:1 DESIGN UNITS METRIC THIRD ANGLE PROJECTION	TITLE MX150 RECEPTACLE TERMINAL
	DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		MATERIAL NO. SEE TABLE SIZE C	DOCUMENT NO. SD-33012-002	SHEET NO. 3 OF 5
	THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION				
	MOLEX INCORPORATED				

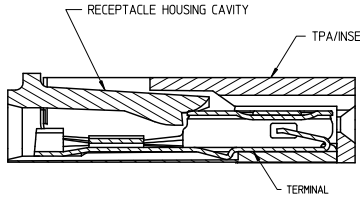
13 12 11 10 9 8 7 6 5 4 3 2 1



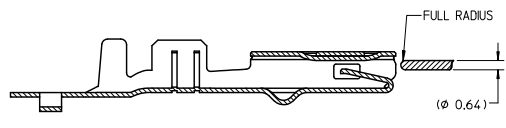
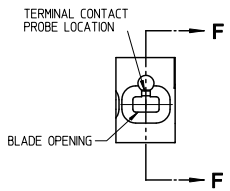
- NOTES: UNLESS OTHERWISE SPECIFIED
1. TOLERANCES: LINEAR ± 0.10
ANGULAR $\pm 3^\circ$
 2. ALL DRAFT WITHIN TOLERANCE.
 3. MAX RADI ON ALL CORNERS SHOWN SHARP: 0.10
 4. MAX FLASH PERMISSIBLE: 0.1
 5. EJECTOR PIN MARKS PERMISSIBLE IF FLUSH TO 0.25 BELOW SURFACE.
 6. MATERIAL: HOUSING/FINGER SPECIFICATION ENGINEERED FOR MATERIAL WITH THE FOLLOWING PROPERTIES:
A. FLEXURAL MODULUS = 4500 TO 9400 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

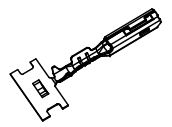
PROBE PIN DETAILS:
MANUFACTURER: LONE STAR INDUSTRIAL
PART NUMBER: LS054R-403-N-4.6
PIN DIAMETER: 0.025 IN (0.64mm)
TIP SHAPE: SPHERICAL
TEL: 915-779-7255

PREFERRED PROBING LOCATION IS NOT ON SPRING MEMBER

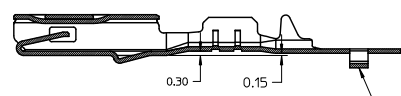
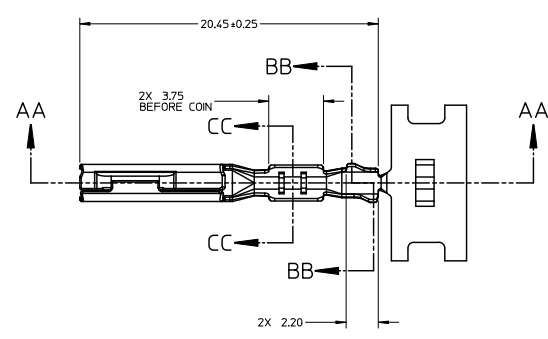
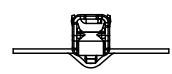
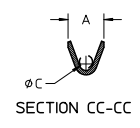
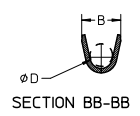
IF ELECTRICAL CONTINUITY PROBE TOUCHES SPRING MEMBER USE PROBING AS SHOWN IN FIG. 2

ENTER DESCRIPTION EC NO.: UAL0201-0559 DRAWN: REINOS 2011/01/12 CHKD: APPR: BMOSER 2011/01/20 REV:	QUALITY SYMBOLS	GENERAL TOLERANCES (UNLESS SPECIFIED)	DIMENSION STYLE	SCALE	DESIGN UNITS	THIRD ANGLE PROJECTION
	∇=0 ∇=0 ∇=0	mm INCH 4 PLACES ± --- ± --- 3 PLACES ± 0.005 ± --- 2 PLACES ± 0.10 ± --- 1 PLACE ± 0.3 ± --- ANGULAR ± 3 °	MM ONLY	5:1	METRIC	MX150 RECEPTACLE TERMINAL
DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		DRAWN BY: L. PULLIAM DATE: 2005/06/21 CHECKED BY: A. DHIR DATE: 2005/06/21 APPROVED BY: B. MOSER DATE: 2005/06/22	MATERIAL NO.: SD-33012-002 DOCUMENT NO.:		SHEET NO.: 4 OF 5	

13 12 11 10 9 8 7 6 5 4 3 2 1



ISO VIEW
SCALE 2:1



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 DRAWN: RENOUS 2011/01/12 CHKD: APPR: BMOSER 2011/01/20	QUALITY SYMBOLS	GENERAL TOLERANCES (UNLESS SPECIFIED)	DIMENSION STYLE	SCALE	DESIGN UNITS	THIRD ANGLE PROJECTION
	∇=0 ∇=0.05 ∇=0.1 ∇=0.3 ANGULAR ± 3°	4 PLACES ± --- ± --- 3 PLACES ± 0.005 ± --- 2 PLACES ± 0.10 ± --- 1 PLACE ± 0.3 ± --- ANGULAR ± 3°	MM ONLY	5:1	METRIC	MX150 RECEPTACLE TERMINAL
	DRAWN BY: L. PULLIAM CHECKED BY: A. DHIR APPROVED BY: B. MOSER	DATE: 2005/06/21 DATE: 2005/06/21 DATE: 2005/06/22	MATERIAL NO. SD-33012-002	TITLE MOLEX INCORPORATED	SHEET NO. 5 OF 5	
	DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS	SEE TABLE	THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION			

12 11 10 9 8 7 6 5 4 3 2 1