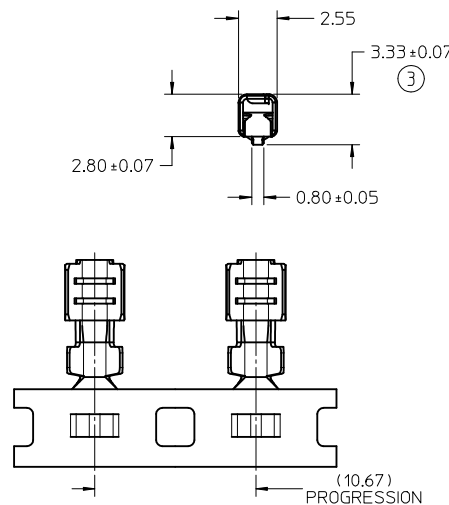


DIMENSIONS FOR LARGE POLARIZATION RIB TERMINAL ONLY

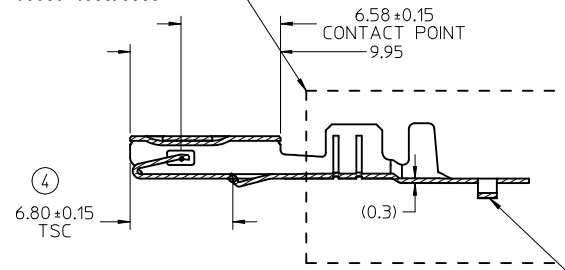
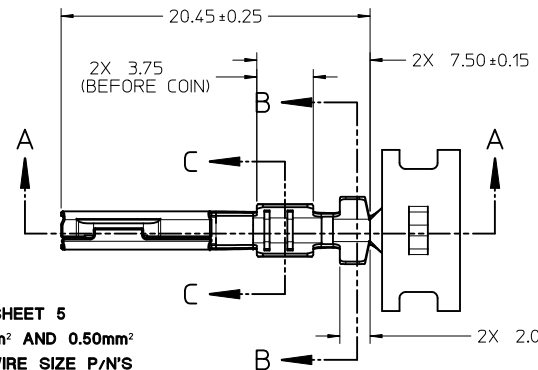
NOTES: (UNLESS OTHERWISE SPECIFIED)

- MATING TERMINAL SHOWN ON SD-33000-001
- MATERIAL: ASTM B422, UNS C19025, HR04
THICKNESS: 0.30 mm ±0.01
TEMPER: FULL HARD (REF)
TENSILE: 496 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
GRIP 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 : EVABRITE
GRIP 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 97BG-14474-AAB FOR LARGE POLARIZATION RIB CAVITY SPECIFICATION
- INSERTION FORCE (TIN) AVG. FROM PV TESTING =
3.8N LARGE POLARIZATION RIB
3.5N SMALL POLARIZATION RIB (REFERENCE)
- ALL DIMENSIONS EXCEPT (1), (2), (3) & (4) ARE COMMON TO BOTH SMALL AND LARGE POLARIZATION RIB TERMINALS
- REFERENCE PK-31300-516 FOR REEL DIRECTION
- REFERENCE AS-33012-002 FOR CRIMP INFORMATION



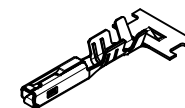
STAMP PLATING TYPE
Sn-TIN, Au-GOLD OR
Ag-SILVER IN THIS
AREA

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

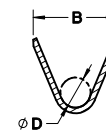


SECTION A-A

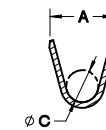
CARRIER BUMP DIRECTION
POINTS DOWN FOR TIN PLATED TERMINALS
POINTS UP FOR PRECIOUS PLATED TERMINALS



SCALE 2:1



SECTION B-B SCALE 5:1



SECTION C-C SCALE 5:1

ENTER DESCRIPTION
EC NO: UAU2011-1208
DRAWN:ADHIR 2011/06/28
CHKD:
APPR:BMOSER 2011/07/06
REV

QUALITY SYMBOLS
▽=0
▽=0
▽=0

GENERAL TOLERANCES (UNLESS SPECIFIED)

	mm	INCH
4 PLACES	± 0.10	± 0.004
3 PLACES	± 0.005	± 0.0002
2 PLACES	± 0.10	± 0.004
1 PLACE	± 0.3	± 0.012
ANGULAR ± 3 °		

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

SCALE	DESIGN UNITS	THIRD ANGLE PROJECTION
4:1	METRIC	

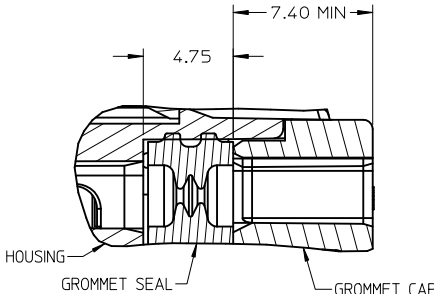
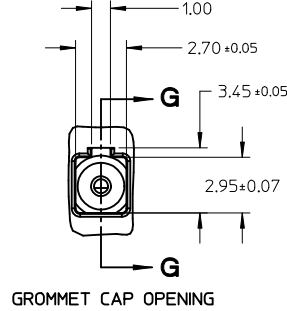
MX150
RECEPTACLE TERMINAL

MOLEX INCORPORATED

DOCUMENT NO. SD-33012-002

SHEET NO. 1 OF 5

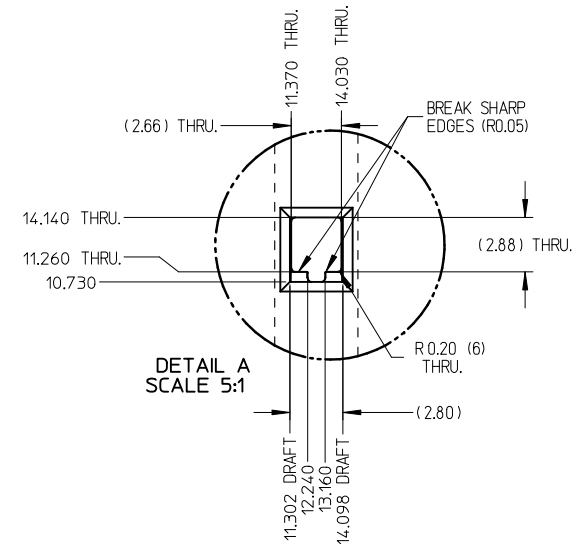
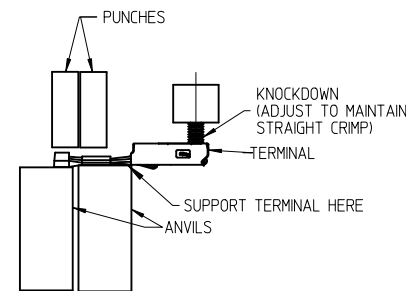
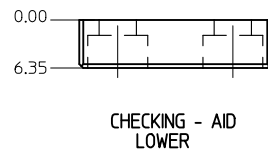
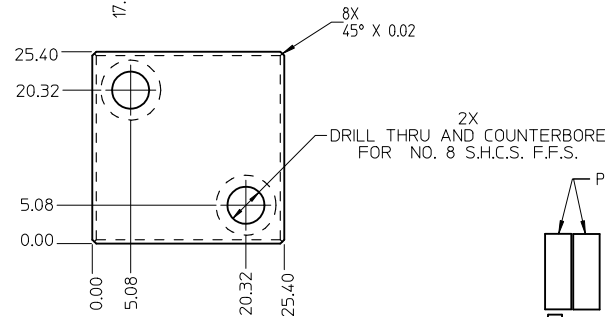
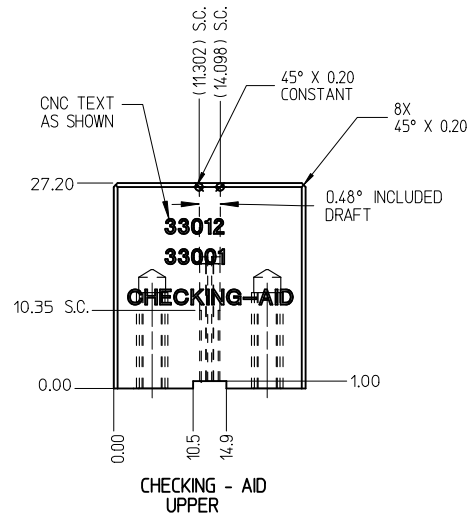
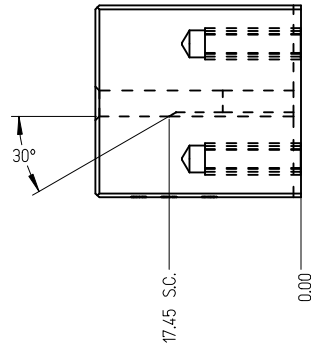
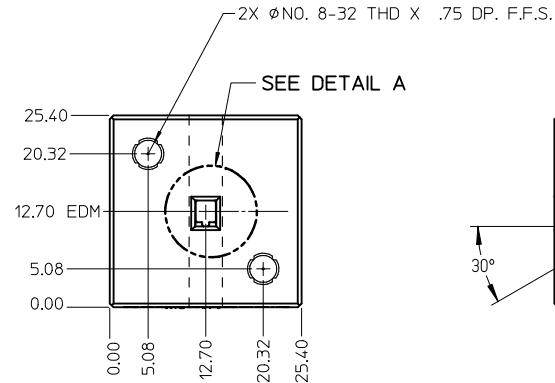
THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION

	13	12	11	10	9	8	7	6	5	4	3	2	1	
J	TABLE													J
	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	1.0-0.75	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				
I	33012-2004	33012-3004	TIN	M3	N/A	0.35-0.50	2.5	2.7	0.9	154±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	1.0-0.75	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				
H	33001-4002	33001-5002	SILVER	18	18/20	1.0-0.75	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	154±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				
G	33012-2022	33012-3022	TIN	18	18/20	1.0-0.75	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	1.0-0.75	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				
F	33001-4021	33001-5021	SILVER	14	14/16	2.0-15	3.9	4.4	1.7	1.6				
	33001-4022	33001-5022	SILVER	18	18/20	1.0-0.75	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													
														
E	GROMMET SEAL / CAP CONFIGURATION TO MODIFY LARGE POLARIZATION RIB CAVITY TO ACCEPT SMALL POLARIZATION RIB APPLICATIONS													
														
	GROMMET SEAL / CAP CONFIGURATION TO MODIFY LARGE POLARIZATION RIB CAVITY TO ACCEPT SMALL POLARIZATION RIB APPLICATIONS													
D	ENTER DESCRIPTION													
	EC NO: UAU2011-1208													
	DRAWN:ADHIR 2011/06/28													
	CHKD: APPR:BMOSER 2011/07/06													
	REV													
C	QUALITY SYMBOLS		GENERAL TOLERANCES (UNLESS SPECIFIED)			DIMENSION STYLE		SCALE	DESIGN UNITS	THIRD ANGLE PROJECTION				
						MM ONLY			METRIC					
						DRAWN BY DATE		TITLE						
						L. PULLIAM 2005/06/21		MX150 RECEPTACLE TERMINAL						
						CHECKED BY DATE								
B						A. DHIR 2005/06/21								
						APPROVED BY DATE								
						B. MOSER 2005/06/22								
						MATERIAL NO.		DOCUMENT NO.						
						SEE TABLE		SD-33012-002						
A						SIZE		THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION						
						C								
1b_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

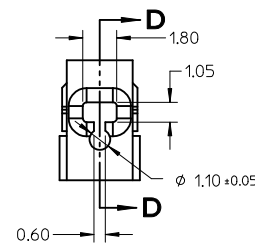
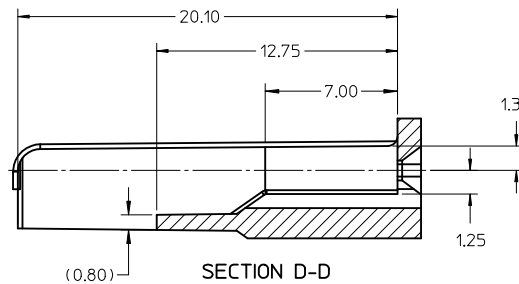
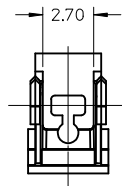


CRIMP REQUIREMENTS:

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)

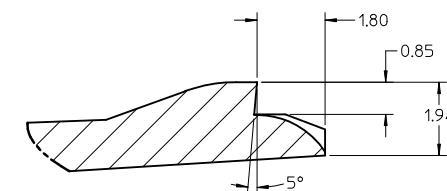
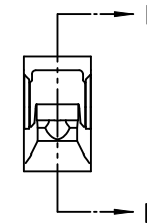
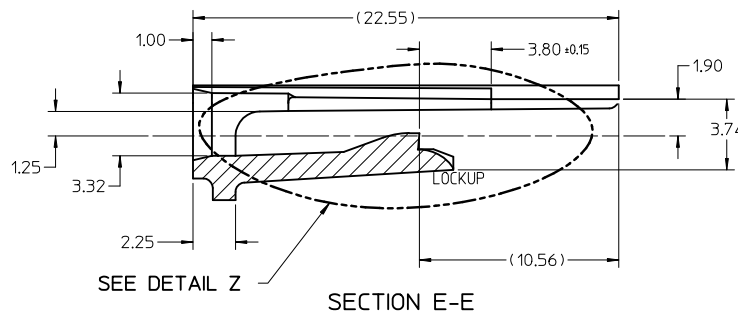
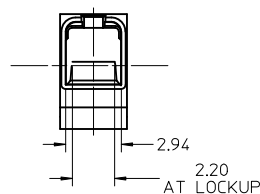
UPPER & LOWER
CHECKING-AID
A2 TOOL STEEL
HARDEN & GRIND
ROCKWELL "C" 56-58

ENTER DESCRIPTION EC NO: UAU2011-1208 DRWN:ADHIR CHKD: APPR:BMOSER	DESCRIPTION 2011/06/28 2011/07/06	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						
			2 PLACES	± 0.10	± ---	MOLEX MOLEX INCORPORATED							
			1 PLACE	± 0.3	± ---								
			ANGULAR ± 3 °			MATERIAL NO.		DOCUMENT NO.	SHEET NO.				
			DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS			SEE TABLE		SD-33012-002			3 OF 5		
			B3	REV		SIZE C THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION							

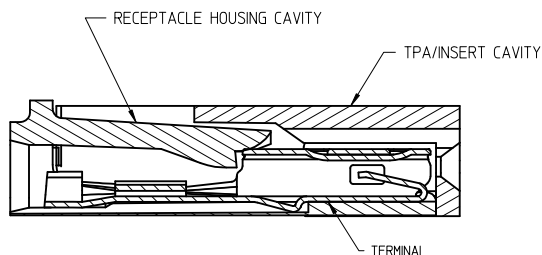


NOTES: UNLESS OTHERWISE SPECIFIED

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

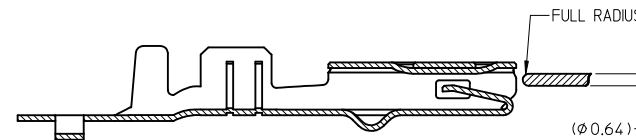
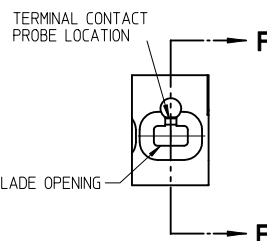


DETAIL Z
SCALE 20:1

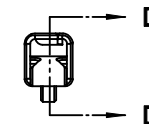


SECTION F-F

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: UAU2011-1208
DRAWN BY: DRWN:ADHR
CHKD: APPR:BMOSER
2011/06/28
2011/07/06

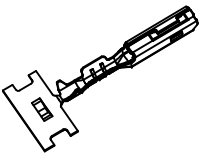
QUALITY
SYMBOLS
▽=0
▽=0
▽=0

GENERAL TOLERANCES (UNLESS SPECIFIED)	
	mm
4 PLACES	± 0.10
3 PLACES	± 0.05
2 PLACES	± 0.10
1 PLACE	± 0.3
ANGULAR $\pm 3^\circ$	
DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS	

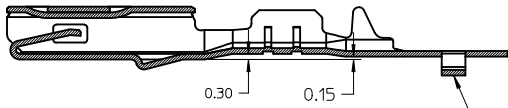
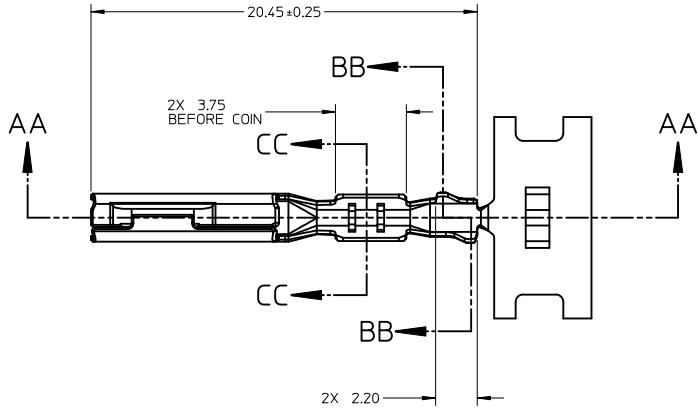
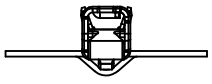
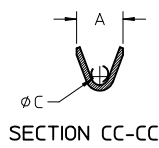
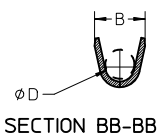
DIMENSION STYLE MM ONLY	
DRAWN BY	DATE
L. PULLIAM	2005/06/21
CHECKED BY	DATE
A. DHIR	2005/06/21
APPROVED BY	DATE
B. MOSER	2005/06/22
MATERIAL NO.	
SEE TABLE	
SIZE	
C	

SCALE	DESIGN UNITS	THIRD ANGLE PROJECTION
5:1	METRIC	
TITLE		
MX150 RECEPTACLE TERMINAL		
MOLEX INCORPORATED		
DOCUMENT NO.		SHEET NO.
SD-33012-002		4 OF 5

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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: UAU2011-1208 DRWN:ADHIR CHKD: APPR:BMOSER		2011/06/28 2011/07/06	DESCRIPTION	QUALITY SYMBOLS	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE		SCALE	DESIGN UNITS	 THIRD ANGLE PROJECTION
							MM ONLY		5:1	METRIC	
							DRAWN BY DATE		TITLE		
							L. PULLIAM 2005/06/21		MX150 RECEPTACLE TERMINAL		
B3		REV		 =0  =0  =0	4 PLACES	± ---	± ---	CHECKED BY DATE	MOLEX INCORPORATED		
					3 PLACES	± 0.005	± ---	A. DHIR 2005/06/21			
					2 PLACES	± 0.10	± ---	APPROVED BY DATE			
					1 PLACE	± 0.3	± ---	B. MOSER 2005/06/22			
					ANGULAR ± 3 °		MATERIAL NO.		DOCUMENT NO.		SHEET NO.
					DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		SEE TABLE		SD-33012-002		5 OF 5
							SIZE C		THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION		