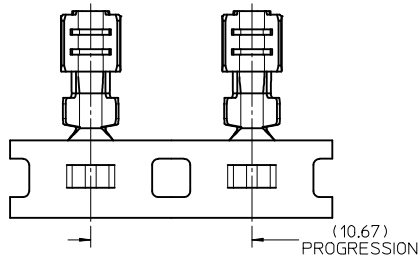
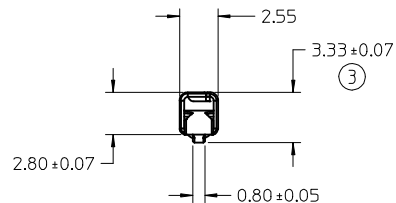


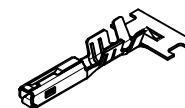
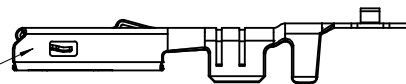
**DIMENSIONS FOR LARGE POLARIZATION RIB TERMINAL ONLY**

NOTES: (UNLESS OTHERWISE SPECIFIED)

1. MATING TERMINAL SHOWN ON SD-33000-001
2. MATERIAL: ASTM B422, UNS C19025, HR04  
THICKNESS: 0.30 mm ±0.01  
TEMPER: FULL HARD (REF)  
TENSILE: 496 MIN MPA
3. TIN PLATED TERMINAL FINISH:  
OVERALL UNDERPLATE ELECTRODEPOSITED NICKEL  
OVERALL ELECTRODEPOSITED REFLOW TIN
4. GOLD PLATED TERMINAL FINISH  
OVERALL UNDERPLATE ELECTRODEPOSITED DUCTILE SULFAMATE NICKEL  
CONTACT AREA - ELECTRODEPOSITED PURE SILVER (0.5% MAX IMPURITIES) SEMI-BRIGHT FINISH  
GRIP AREA - ELECTRODEPOSITED 100% TIN MATTE FINISH
5. 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
6. MEETS PERFORMANCE SPECIFICATION FOR CABLE TO TERMINAL ELECTRICAL CRIMPS PER SAE/USCAR-21 (8/2001)
7. MEETS PERFORMANCE STANDARD FOR AUTOMOTIVE ELECTRICAL CONNECTOR SYSTEMS FOR SAE/USCAR-2, REV. 4 (TEMP CLASS 3) (5/2004)
8. MEETS ELECTRICAL CONNECTION SYSTEM DESIGN SPECIFICATION (SDS) REV:11 (5/2002)
9. MEETS FIELD CORRELATED LIFE TEST (FCLT) PER SAE/USCAR-20 (6/2004)
10. MEETS WIRING COMPONENT DESIGN GUIDELINES SAE/USCAR-12 REV 2 (12/2001)
11. TSC ON A DIMENSION TO BE INTERPRETED AS DISTANCE TO A THEORETICAL SHARP CORNER AS IF THE RADIUS WERE NOT PRESENT
12. REFERENCE 97BG-14474-AAB FOR LARGE POLARIZATION RIB CAVITY SPECIFICATION
13. INSERTION FORCE (TIN) AVG. FROM PV TESTING =  
3.8N LARGE POLARIZATION RIB  
3.5N SMALL POLARIZATION RIB (REFERENCE)
14. ALL DIMENSIONS EXCEPT ①, ②, ③ & ④ ARE COMMON TO BOTH SMALL AND LARGE POLARIZATION RIB TERMINALS
15. REFERENCE PK-31300-516 FOR REEL DIRECTION
16. REFERENCE AS-33012-002 FOR CRIMP INFORMATION

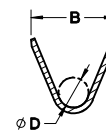
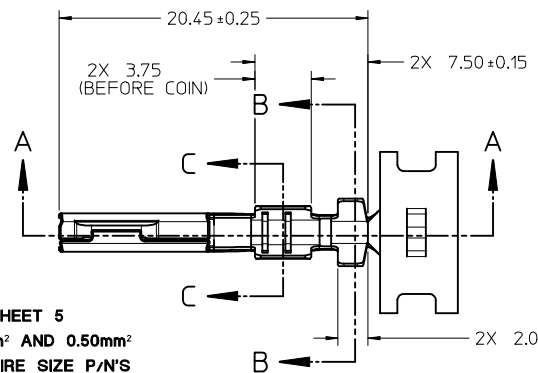


STAMP PLATING TYPE  
Sn-TIN, Au-GOLD OR  
Ag-SILVER IN THIS  
AREA

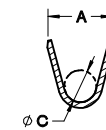
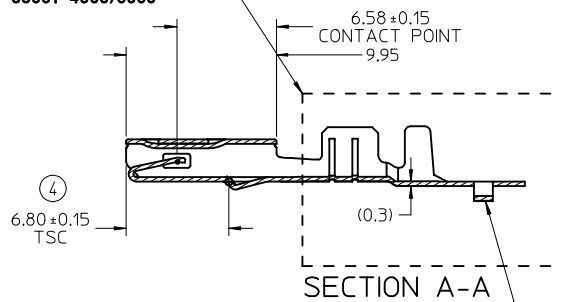


SCALE 2:1

SEE SHEET 5  
0.35mm<sup>2</sup> AND 0.50mm<sup>2</sup>  
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

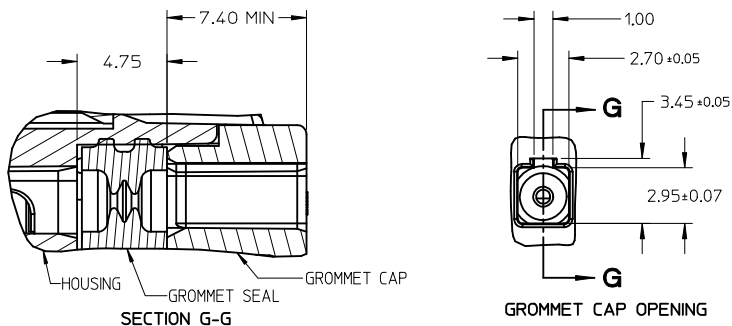
<b>ENTER DESCRIPTION</b> EC NO: UAU2014-0473 DRWING: JENNINGS01 2013/09/18 CHKD: APPR: BMOSE 2014/01/03	QUALITY SYMBOLS 	GENERAL TOLERANCES (UNLESS SPECIFIED) <table border="1"> <tr> <th></th> <th>mm</th> <th>INCH</th> </tr> <tr> <td>4 PLACES</td> <td>± 0.10</td> <td>± 0.004</td> </tr> <tr> <td>3 PLACES</td> <td>± 0.005</td> <td>± 0.0002</td> </tr> <tr> <td>2 PLACES</td> <td>± 0.10</td> <td>± 0.004</td> </tr> <tr> <td>1 PLACE</td> <td>± 0.3</td> <td>± 0.012</td> </tr> </table>		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	DIMENSION STYLE <b>MM ONLY</b> 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 <b>4:1</b> DESIGN UNITS <b>METRIC</b> THIRD ANGLE PROJECTION	<b>MX150</b> <b>RECEPTACLE TERMINAL</b> <b>MOLEX INCORPORATED</b> SD-33012-002	SHEET NO. <b>1 OF 5</b>
		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																			
DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS	MATERIAL NO. <b>SEE TABLE</b>	DOCUMENT NO. <b>SD-33012-002</b>	THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION																		

FAMILY	GENDER	SEALING	PLATING	PART NUMBER	PAYOFF DIRECTION	GRIP CODE	WIRE SIZES*	A ±0.30	B ±0.30	C ±0.30	D ±0.30	SPECIAL CHARACTERISTICS
MX150	RECEPTACLE	MAT SEAL	Sn	33012-2001	RIGHT (B)	14	16/14AWG	3.9	4.4	1.7	1.6	HIGH PERFORMANCE Sn
				33012-3001	LEFT (D)	14	150-2.00mm <sup>2</sup>	3.9	4.4	1.7	1.6	
				33012-2002	RIGHT (B)	18	20/18AWG	3.3	3.1	1.3	1.4	
				33012-3002	LEFT (D)	18	0.75-1.00mm <sup>2</sup>	3.3	3.1	1.3	1.4	
				33012-2003	RIGHT (B)	22	22AWG	2.5	2.6	0.9	1.0	
				33012-3003	LEFT (D)	22	22AWG	2.5	2.6	0.9	1.0	
			Au	33012-2004	RIGHT (B)	M3	0.35-0.50mm <sup>2</sup>	2.5	2.7	0.9	1.54 ±0.1	
				33012-3004	LEFT (D)	M3	0.35-0.50mm <sup>2</sup>	2.5	2.7	0.9	1.54 ±0.1	
				33001-2003	RIGHT (B)	14	16/14AWG	3.9	4.4	1.7	1.6	
				33001-3003	LEFT (D)	14	150-2.00mm <sup>2</sup>	3.9	4.4	1.7	1.6	
				33001-2004	RIGHT (B)	18	20/18AWG	3.3	3.1	1.3	1.4	
				33001-3004	LEFT (D)	18	0.75-1.00mm <sup>2</sup>	3.3	3.1	1.3	1.4	
			Ag	33001-2005	RIGHT (B)	22	22AWG	2.5	2.6	0.9	1.0	
				33001-3005	LEFT (D)	22	22AWG	2.5	2.6	0.9	1.0	
				33001-2006	RIGHT (B)	M3	0.35-0.50mm <sup>2</sup>	2.5	2.7	0.9	1.54 ±0.1	
				33001-3006	LEFT (D)	M3	0.35-0.50mm <sup>2</sup>	2.5	2.7	0.9	1.54 ±0.1	
				33001-4001	RIGHT (B)	14	16/14AWG	3.9	4.4	1.7	1.6	
				33001-5001	LEFT (D)	14	150-2.00mm <sup>2</sup>	3.9	4.4	1.7	1.6	
Ag	33001-4002	RIGHT (B)	18	20/18AWG	3.3	3.1	1.3	1.4				
	33001-5002	LEFT (D)	18	0.75-1.00mm <sup>2</sup>	3.3	3.1	1.3	1.4				
	33001-4003	RIGHT (B)	22	22AWG	2.5	2.6	0.9	1.0				
	33001-5003	LEFT (D)	22	22AWG	2.5	2.6	0.9	1.0				
	33001-4005	RIGHT (B)	M3	0.35-0.50mm <sup>2</sup>	2.5	2.7	0.9	1.54 ±0.1				

LARGE POLARIZATION RIB - NOT TO BE USED IN MX150 SEALED CONNECTORS

FAMILY	GENDER	SEALING	PLATING	PART NUMBER	PAYOFF DIRECTION	GRIP CODE	WIRE SIZES*	A ±0.30	B ±0.30	C ±0.30	D ±0.30	SPECIAL CHARACTERISTICS
MX150	RECEPTACLE	UNSEALED	Sn	33012-2021	RIGHT (B)	14	16/14AWG	3.9	4.4	1.7	1.6	HIGH PERFORMANCE Sn
				33012-3021	LEFT (D)	14	150-2.00mm <sup>2</sup>	3.9	4.4	1.7	1.6	
				33012-2022	RIGHT (B)	18	20/18AWG	3.3	3.1	1.3	1.4	
				33012-3022	LEFT (D)	18	0.75-1.00mm <sup>2</sup>	3.3	3.1	1.3	1.4	
				33012-2023	RIGHT (B)	22	22AWG	2.5	2.6	0.9	1.0	
				33012-3023	LEFT (D)	22	0.35-0.50mm <sup>2</sup>	2.5	2.6	0.9	1.0	
			Au	33001-2021	RIGHT (B)	14	16/14AWG	3.9	4.4	1.7	1.6	
				33001-3021	LEFT (D)	14	150-2.00mm <sup>2</sup>	3.9	4.4	1.7	1.6	
				33001-2022	RIGHT (B)	18	20/18AWG	3.3	3.1	1.3	1.4	
				33001-3022	LEFT (D)	18	0.75-1.00mm <sup>2</sup>	3.3	3.1	1.3	1.4	
				33001-2023	RIGHT (B)	22	22AWG	2.5	2.6	0.9	1.0	
				33001-3023	LEFT (D)	22	0.35-0.50mm <sup>2</sup>	2.5	2.6	0.9	1.0	
			Ag	33001-4021	RIGHT (B)	14	16/14AWG	3.9	4.4	1.7	1.6	
				33001-5021	LEFT (D)	14	150-2.00mm <sup>2</sup>	3.9	4.4	1.7	1.6	
				33001-4022	RIGHT (B)	18	20/18AWG	3.3	3.1	1.3	1.4	
				33001-5022	LEFT (D)	18	0.75-1.00mm <sup>2</sup>	3.3	3.1	1.3	1.4	
				33001-4023	RIGHT (B)	22	22AWG	2.5	2.6	0.9	1.0	
				33001-5023	LEFT (D)	22	0.35-0.50mm <sup>2</sup>	2.5	2.6	0.9	1.0	

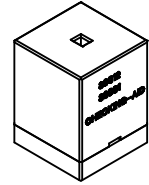
\* REFERENCE AS-33012-002 FOR SPECIFIC WIRE TYPES



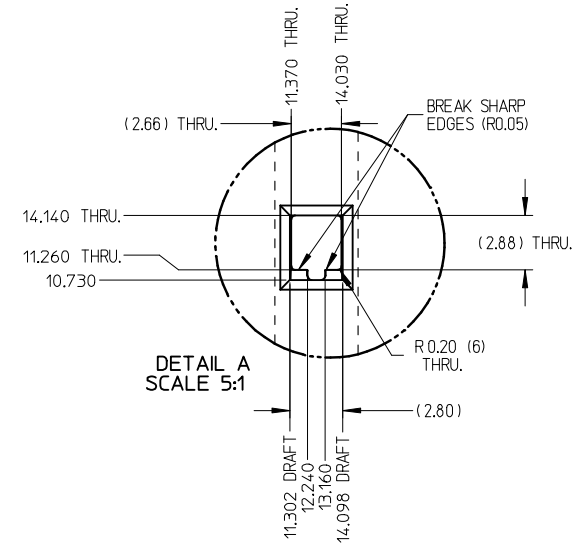
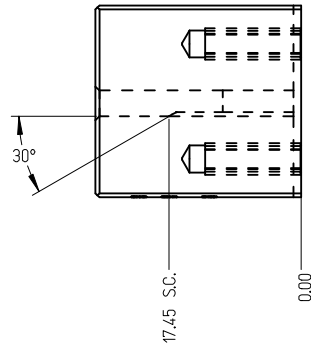
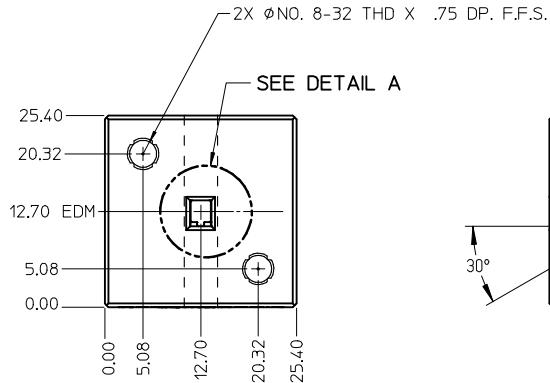
**GROMMET SEAL / CAP CONFIGURATION TO MODIFY LARGE POLARIZATION RIB CAVITY TO ACCEPT SMALL POLARIZATION RIB APPLICATIONS**

<b>ENTER DESCRIPTION</b> EC NO: UAU2014-0473 DRAWING: JENNINGS01 2013/09/18 CHKD: APPR: BMOSE 2014/01/03	QUALITY SYMBOLS ▽=0 ▽=0 ▽=0	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE <b>MM ONLY</b>	SCALE DESIGN UNITS <b>METRIC</b>	THIRD ANGLE PROJECTION		
		4 PLACES ± --- ± --- 3 PLACES ± 0.005 ± --- 2 PLACES ± 0.10 ± --- 1 PLACE ± 0.3 ± ---	mm INCH --- --- --- --- --- --- --- ---	DRAWN BY DATE L. PULLIAM 2005/06/21	CHECKED BY DATE A. DHIR 2005/06/21	TITLE <b>MX150 RECEPTACLE TERMINAL</b>		
		APPROVED BY DATE B. MOSER 2005/06/22		MATERIAL NO. DOCUMENT NO. <b>MOLEX INCORPORATED</b>				
		ANGULAR ± 3 °		SEE TABLE <b>SD-33012-002</b>				
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			SHEET NO. <b>2 OF 5</b>			

THIS CHECKING - AID IS FOR SMALL POLARIZATION RIB TERMINALS ONLY

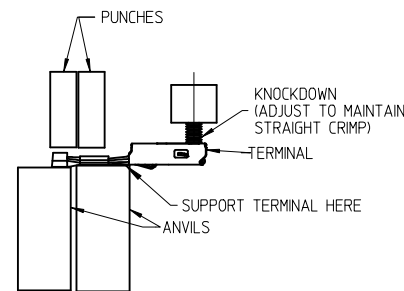
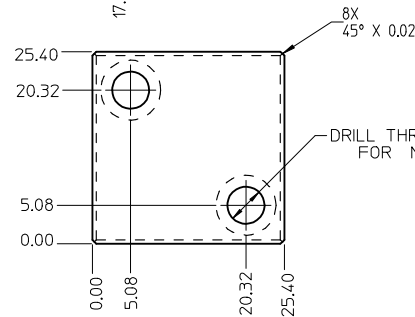
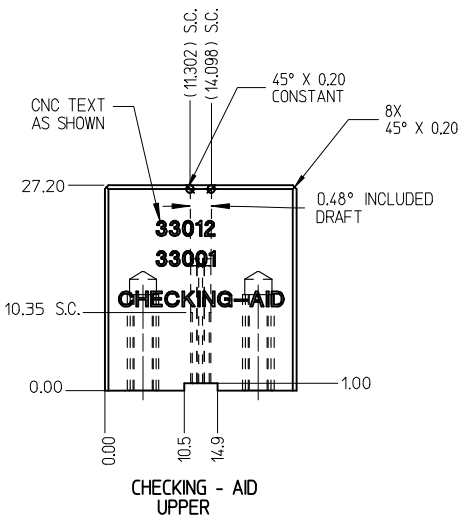


CHECKING - AID ASSEMBLY  
SCALE 1:1



CRIMP REQUIREMENTS:

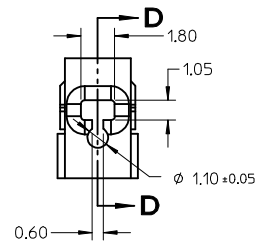
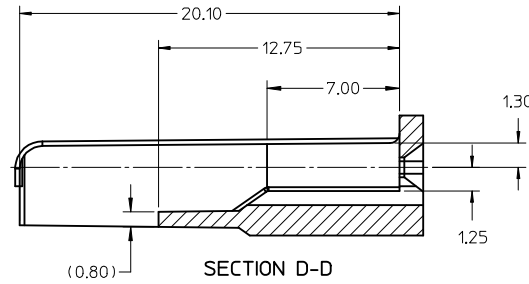
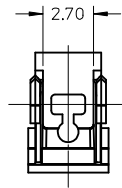
1. CRIMP STRAIGHTNESS MUST BE MAINTAINED  
USE A KNOCKDOWN TOOL LOCATED AS SHOWN  
TERMINAL BOX MUST NOT BE DEFORMED
2. AFTER CRIMPING, THE CRIMPED TERMINAL (AND UP TO 5 mm  
OF WIRE PAST THE INSULATOR CUTOFF TAB) MUST FIT FREELY  
INTO THE CHECKING-AID SHOWN ON THIS PAGE
3. FOR OTHER MECHANICAL REQUIREMENTS 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)



CHECKING - AID  
LOWER

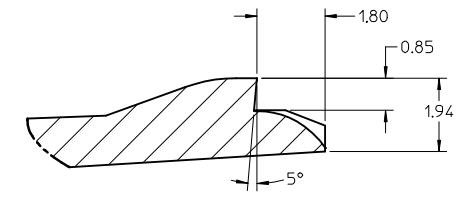
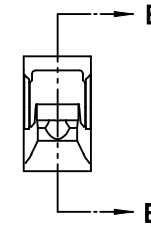
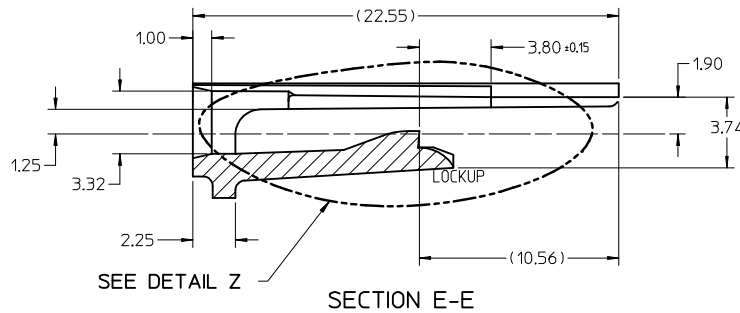
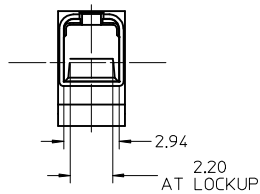
UPPER & LOWER  
CHECKING-AID  
A2 TOOL STEEL  
HARDEN & GRIND  
ROCKWELL "C" 56-58

<b>ENTER DESCRIPTION</b> EC NO: UAU2014-0473 DRWNB:JENNINGS01 2013/09/18 CHKD: APPR:BMOSER 2014/01/03 REVISIONS	QUALITY SYMBOLS 	GENERAL TOLERANCES (UNLESS SPECIFIED) <table border="1"> <tr> <th></th> <th>mm</th> <th>INCH</th> </tr> <tr> <td>4 PLACES</td> <td>± .005</td> <td>± .0005</td> </tr> <tr> <td>3 PLACES</td> <td>± 0.005</td> <td>± .0005</td> </tr> <tr> <td>2 PLACES</td> <td>± 0.10</td> <td>± .005</td> </tr> <tr> <td>1 PLACE</td> <td>± 0.3</td> <td>± .010</td> </tr> </table>		mm	INCH	4 PLACES	± .005	± .0005	3 PLACES	± 0.005	± .0005	2 PLACES	± 0.10	± .005	1 PLACE	± 0.3	± .010	DIMENSION STYLE <b>MM ONLY</b> 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.	SCALE <b>2:1</b> DESIGN UNITS <b>METRIC</b> THIRD ANGLE PROJECTION	TITLE <b>MX150 RECEPTACLE TERMINAL</b>	MOLEX INCORPORATED DOCUMENT NO. <b>SD-33012-002</b>	SHEET NO. <b>3 OF 5</b>
		mm	INCH																			
	4 PLACES	± .005	± .0005																			
	3 PLACES	± 0.005	± .0005																			
2 PLACES	± 0.10	± .005																				
1 PLACE	± 0.3	± .010																				
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																			

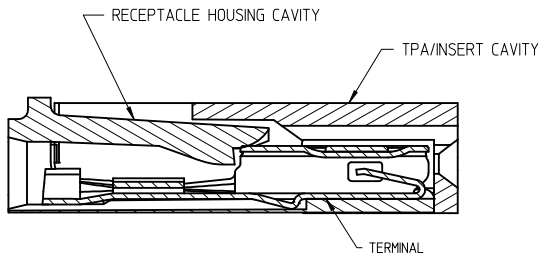


NOTES: UNLESS OTHERWISE SPECIFIED

1. TOLERANCES: LINEAR  $\pm 0.10$   
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

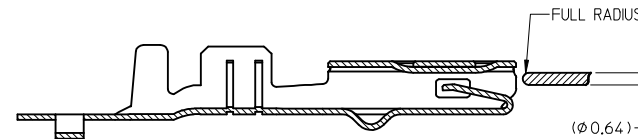
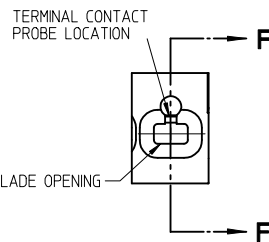


DETAIL Z  
SCALE 20:1

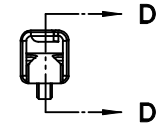


SECTION F-F

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



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



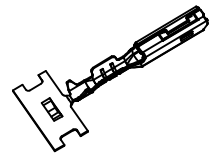
PROBING DOWN THE  
THROAT MUST USE  
THIS TERMINAL PROBE

FOR PROBING INFORMATION REFERENCE  
MOLEX MX150 APPLICATION SPEC AS-33472-100

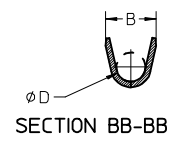
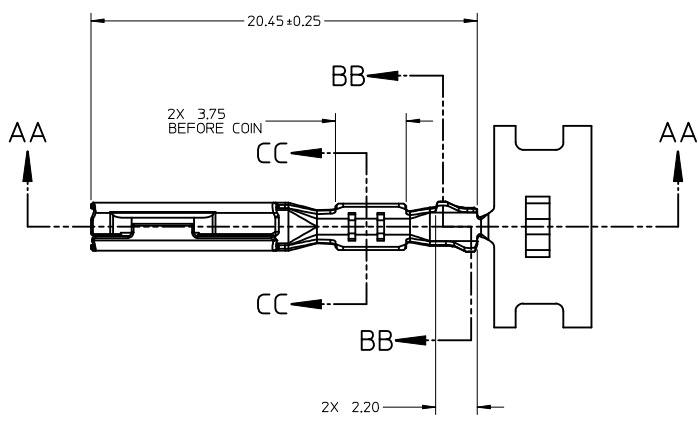
PREFERRED PROBING LOCATION  
IS NOT ON SPRING MEMBER

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

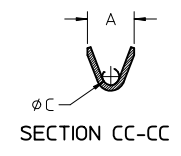
<b>ENTER DESCRIPTION</b> EC NO: UAU2014-0473 DRWINB/JENNINGS01 2013/09/18 CHKD: APPR:BMOSER 2014/01/03 REV:	QUALITY SYMBOLS	GENERAL TOLERANCES (UNLESS SPECIFIED)	DIMENSION STYLE <b>MM ONLY</b>	SCALE <b>5:1</b>	DESIGN UNITS <b>METRIC</b>	THIRD ANGLE PROJECTION																				
	$\nabla = 0$ $\nabla = 0$ $\nabla = 0$	<table border="1"> <thead> <tr> <th></th> <th>mm</th> <th>INCH</th> </tr> </thead> <tbody> <tr> <td>4 PLACES</td> <td><math>\pm</math> ---</td> <td><math>\pm</math> ---</td> </tr> <tr> <td>3 PLACES</td> <td><math>\pm 0.005</math></td> <td><math>\pm</math> ---</td> </tr> <tr> <td>2 PLACES</td> <td><math>\pm 0.10</math></td> <td><math>\pm</math> ---</td> </tr> <tr> <td>1 PLACE</td> <td><math>\pm 0.3</math></td> <td><math>\pm</math> ---</td> </tr> </tbody> </table>		mm	INCH	4 PLACES	$\pm$ ---	$\pm$ ---	3 PLACES	$\pm 0.005$	$\pm$ ---	2 PLACES	$\pm 0.10$	$\pm$ ---	1 PLACE	$\pm 0.3$	$\pm$ ---	<table border="1"> <thead> <tr> <th>mm</th> <th>INCH</th> </tr> </thead> <tbody> <tr> <td>ANGULAR</td> <td><math>\pm 3^\circ</math></td> </tr> </tbody> </table>	mm	INCH	ANGULAR	$\pm 3^\circ$	DRAWN BY DATE L. PULLIAM 2005/06/21 CHECKED BY DATE A. DHIR 2005/06/21 APPROVED BY DATE B. MOSER 2005/06/22	TITLE	<b>MX150 RECEPTACLE TERMINAL</b>  <b>MOLEX INCORPORATED</b> DOCUMENT NO. <b>SD-33012-002</b>	SHEET NO. 4 OF 5
		mm	INCH																							
	4 PLACES	$\pm$ ---	$\pm$ ---																							
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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																							



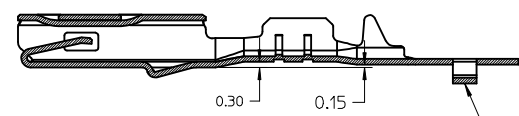
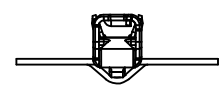
ISO VIEW  
SCALE 2:1



SECTION BB-BB



SECTION CC-CC



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

<b>ENTER DESCRIPTION</b> EC NO: UAU2014-0473 DRWN:BJENNINGS01 2013/09/18 CHKD: APPR:BMOSER 2014/01/03	QUALITY SYMBOLS ▽=0 ▽=0 ▽=0	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE <b>MM ONLY</b>		SCALE <b>5:1</b>	DESIGN UNITS <b>METRIC</b>	THIRD ANGLE PROJECTION		
		4 PLACES ± --- ± ---	mm	INCH	DRAWN BY	DATE	TITLE <b>MX150 RECEPTACLE TERMINAL</b>			
		3 PLACES ± 0.005 ± ---			CHECKED BY	DATE				
		2 PLACES ± 0.10 ± ---			APPROVED BY	DATE	MOLEX INCORPORATED			
		1 PLACE ± 0.3 ± ---			B. MOSER	2005/06/22				
ANGULAR ± 3 °		DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		MATERIAL NO. <b>SEE TABLE</b>		DOCUMENT NO. <b>SD-33012-002</b>		SHEET NO. <b>5 OF 5</b>		
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