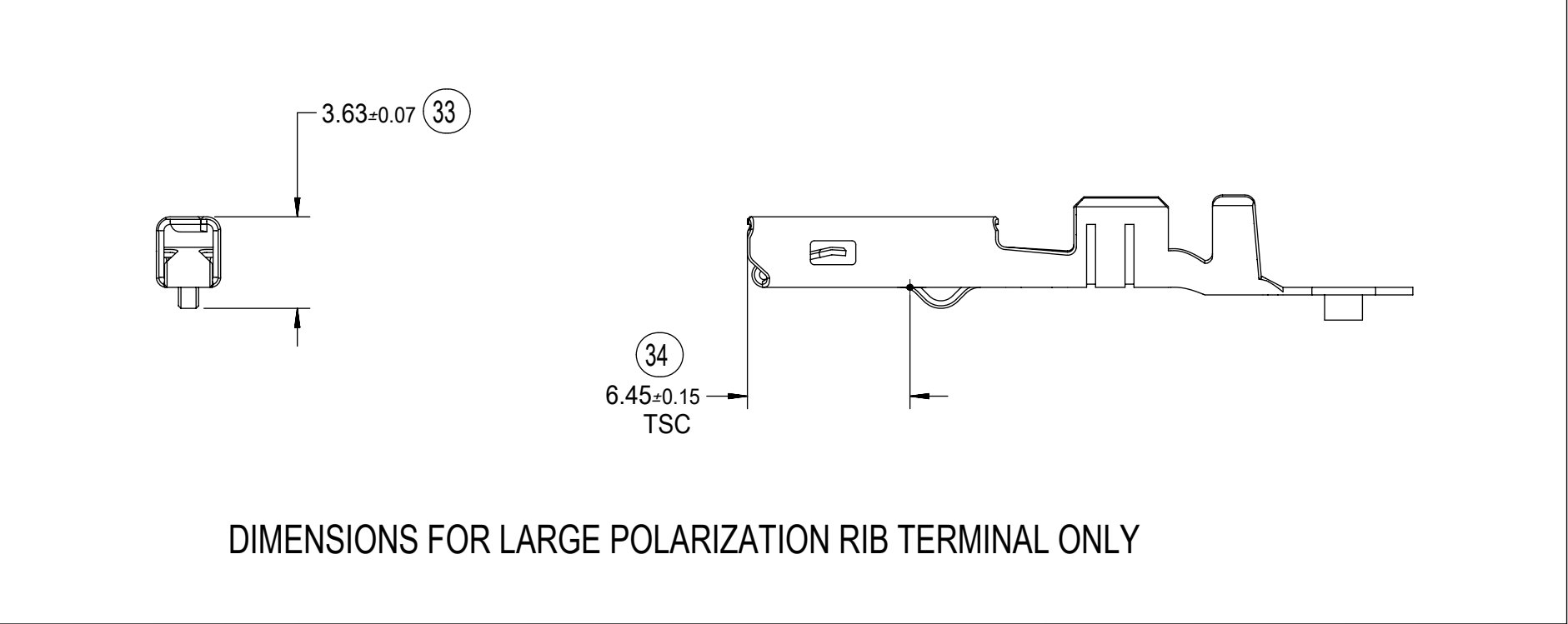




NOTES: (UNLESS OTHERWISE SPECIFIED)

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 GOLD
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 GUIDLINES 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 (33), (34), (41) & (42) 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

11
2.55

19
2.80±0.07

41
3.33±0.07

22
0.80±0.05

(10.67)
PROGRESSION

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

18
20.45±0.25

39
2X 7.50±0.15

38
2X 2.0

48
6.58 ±0.15
CONTACT POINT

40
9.95

42
6.80±0.15
TSC

(0.3)

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

SCALE 2:1

SECTION B-B
SCALE 5:1

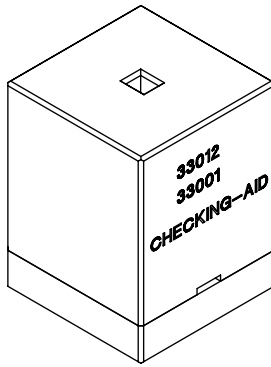
SECTION C-C
SCALE 5:1

SYMBOLS	THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX ELECTRONIC TECHNOLOGIES, LLC AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION					
W = 0 F = 0 F = 0 S = 0 ▽ = 0 3 = 0 2 = 0 1 = 0 0 = 0 0 = 0 0 = 0 <td> DIMENSION UNITS mm </td> <td> SCALE 4:1 </td> <td colspan="2"> CURRENT REV DESC: EC NO: 645050 DRWN: BSKANTHARAJU 2020/09/03 CHK'D: JCUATACERVAN 2020/09/18 APPR: JCUATACERVAN 2020/09/18 INITIAL REVISION: DRWN: LPULLIAM 2005/06/21 APPR: BMOSER 2005/06/22 DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS </td> <td> GENERAL TOLERANCES (UNLESS SPECIFIED) ANGULAR TOL ± 3.0 ° 4 PLACES ± 3 PLACES ± 2 PLACES ± 0.10 1 PLACE ± 0.3 0 PLACES ± THIRD ANGLE PROJECTION </td> <td> PRODUCT CUSTOMER DRAWING DOCUMENT NUMBER SD-33012-002 MATERIAL NUMBER SEE TABLE CUSTOMER GENERAL MARKET SHEET NUMBER 1 OF 5 </td>	DIMENSION UNITS mm	SCALE 4:1	CURRENT REV DESC: EC NO: 645050 DRWN: BSKANTHARAJU 2020/09/03 CHK'D: JCUATACERVAN 2020/09/18 APPR: JCUATACERVAN 2020/09/18 INITIAL REVISION: DRWN: LPULLIAM 2005/06/21 APPR: BMOSER 2005/06/22 DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		GENERAL TOLERANCES (UNLESS SPECIFIED) ANGULAR TOL ± 3.0 ° 4 PLACES ± 3 PLACES ± 2 PLACES ± 0.10 1 PLACE ± 0.3 0 PLACES ± THIRD ANGLE PROJECTION	PRODUCT CUSTOMER DRAWING DOCUMENT NUMBER SD-33012-002 MATERIAL NUMBER SEE TABLE CUSTOMER GENERAL MARKET SHEET NUMBER 1 OF 5

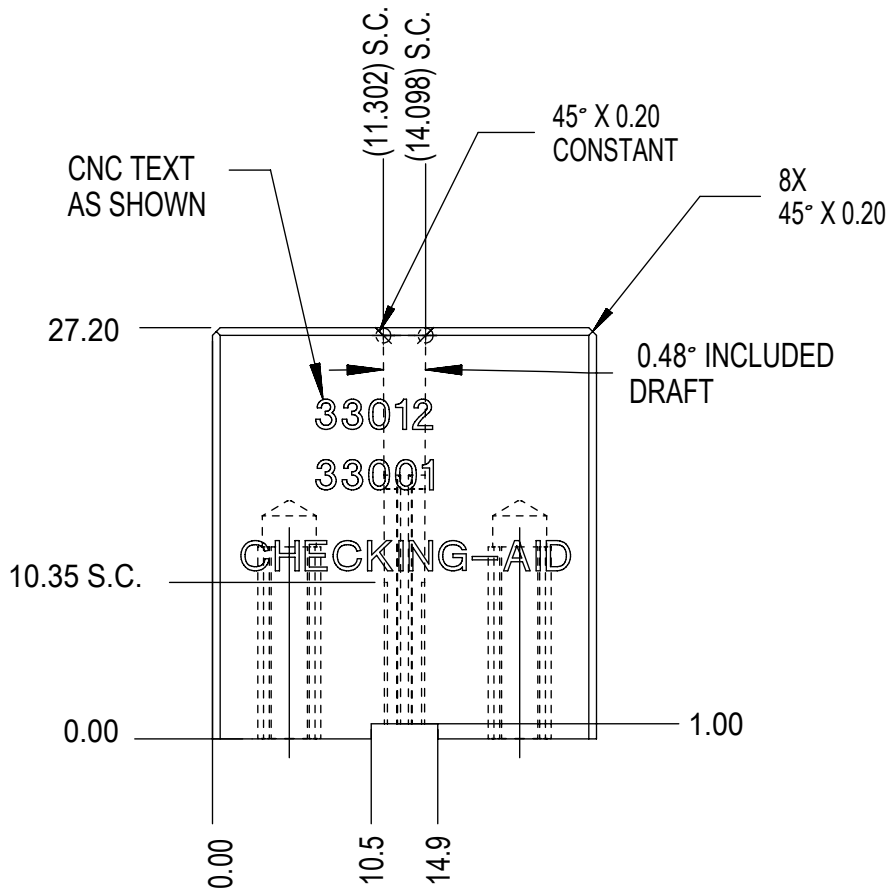
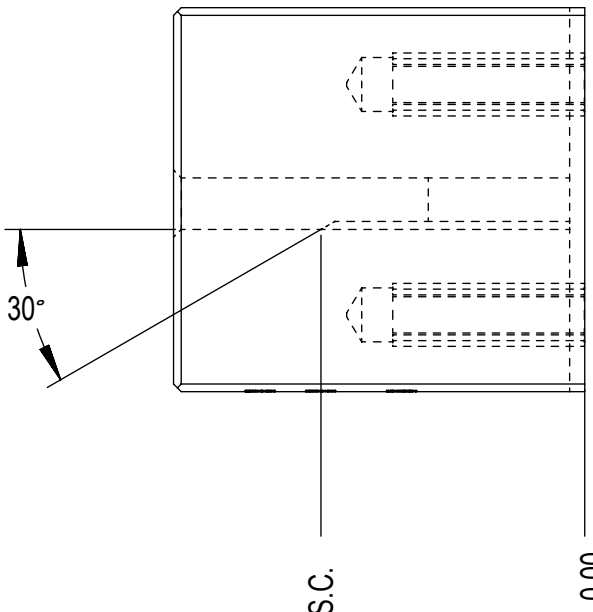
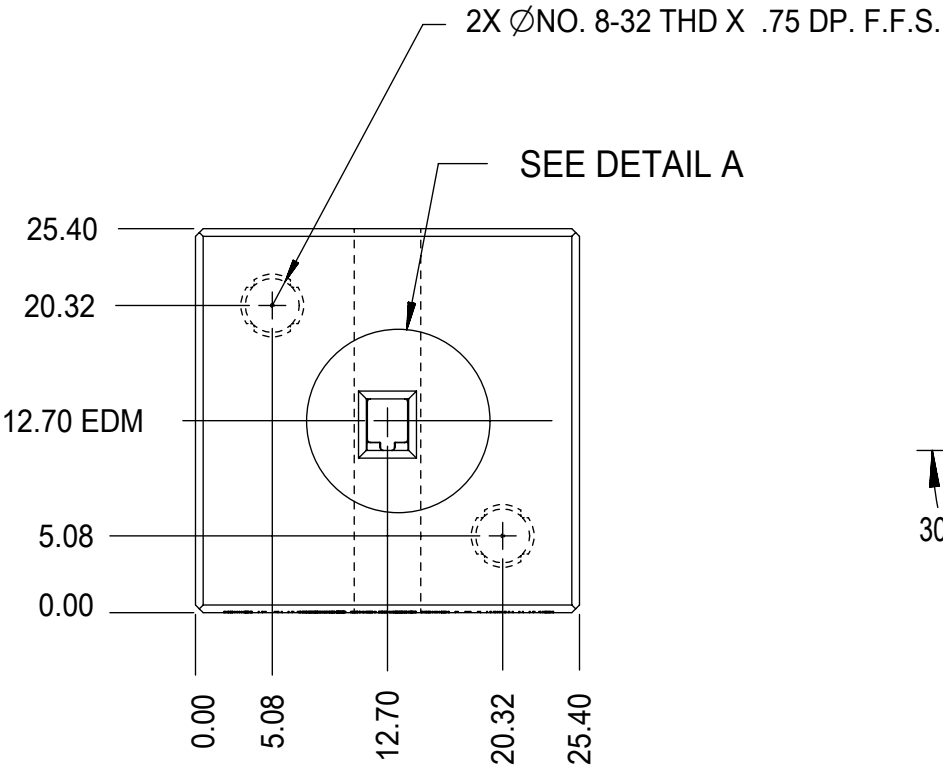
12		11		10		9		8		7		6		5		4		3		2		1																																																																																																																																																				
<table><tr><th>FAMILY</th><th>GENDER</th><th>SEALING</th><th>PLATING</th><th>PART NUMBER</th><th>PAYOFF DIRECTION</th><th>GRIP CODE</th><th>WIRE SIZES *</th><th>A ±0.30</th><th>B ±0.30</th><th>C ±0.30</th><th>D ±0.30</th><th>SPECIAL CHARACTERISTICS</th></tr><tr><td rowspan="21">MX150</td><td rowspan="21">RECEPTACLE</td><td rowspan="21">MAT SEAL</td><td rowspan="6">Sn</td><td>33012-2001</td><td>RIGHT (B)</td><td rowspan="2">14</td><td>16/14AWG</td><td rowspan="2">3.9</td><td rowspan="2">4.4</td><td rowspan="2">1.7</td><td rowspan="2">1.6</td><td rowspan="6">HIGH PERFORMANCE Sn</td></tr><tr><td>33012-3001</td><td>LEFT (D)</td><td>1.25-2.00mm²</td></tr><tr><td>33012-2002</td><td>RIGHT (B)</td><td rowspan="2">18</td><td>20/18AWG</td><td rowspan="2">3.3</td><td rowspan="2">3.1</td><td rowspan="2">1.3</td><td rowspan="2">1.4</td></tr><tr><td>33012-3002</td><td>LEFT (D)</td><td>0.75-1.00mm²</td></tr><tr><td>33012-2003</td><td>RIGHT (B)</td><td rowspan="2">22</td><td>22AWG</td><td rowspan="2">2.5</td><td rowspan="2">2.6</td><td rowspan="2">0.9</td><td rowspan="2">1.0</td></tr><tr><td>33012-3003</td><td>LEFT (D)</td></tr><tr><td>33012-2004</td><td>RIGHT (B)</td><td rowspan="2">M3</td><td>0.35-0.50mm²</td><td rowspan="2">2.5</td><td rowspan="2">2.7</td><td rowspan="2">0.9</td><td rowspan="2">1.54 ±0.1</td></tr><tr><td>33012-3004</td><td>LEFT (D)</td></tr><tr><td>33001-2003</td><td>RIGHT (B)</td><td rowspan="2">14</td><td>16/14AWG</td><td rowspan="2">3.9</td><td rowspan="2">4.4</td><td rowspan="2">1.7</td><td rowspan="2">1.6</td><td rowspan="6">HIGH PERFORMANCE Au</td></tr><tr><td>33001-3003</td><td>LEFT (D)</td><td>1.25-2.00mm²</td></tr><tr><td>33001-2004</td><td>RIGHT (B)</td><td rowspan="2">18</td><td>20/18AWG</td><td rowspan="2">3.3</td><td rowspan="2">3.1</td><td rowspan="2">1.3</td><td rowspan="2">1.4</td></tr><tr><td>33001-3004</td><td>LEFT (D)</td><td>0.75-1.00mm²</td></tr><tr><td>33001-2005</td><td>RIGHT (B)</td><td rowspan="2">22</td><td>22AWG</td><td rowspan="2">2.5</td><td rowspan="2">2.6</td><td rowspan="2">0.9</td><td rowspan="2">1.0</td></tr><tr><td>33001-3005</td><td>LEFT (D)</td></tr><tr><td>33001-2006</td><td>RIGHT (B)</td><td rowspan="2">M3</td><td>0.35-0.50mm²</td><td rowspan="2">2.5</td><td rowspan="2">2.7</td><td rowspan="2">0.9</td><td rowspan="2">1.54 ±0.1</td></tr><tr><td>33001-3006</td><td>LEFT (D)</td></tr><tr><td rowspan="6">Ag</td><td>33001-4001</td><td>RIGHT (B)</td><td rowspan="2">14</td><td>16/14AWG</td><td rowspan="2">3.9</td><td rowspan="2">4.4</td><td rowspan="2">1.7</td><td rowspan="2">1.6</td><td rowspan="6">HIGH PERFORMANCE Ag</td></tr><tr><td>33001-5001</td><td>LEFT (D)</td><td>1.25-2.00mm²</td></tr><tr><td>33001-4002</td><td>RIGHT (B)</td><td rowspan="2">18</td><td>20/18AWG</td><td rowspan="2">3.3</td><td rowspan="2">3.1</td><td rowspan="2">1.3</td><td rowspan="2">1.4</td></tr><tr><td>33001-5002</td><td>LEFT (D)</td><td>0.75-1.00mm²</td></tr><tr><td>33001-4003</td><td>RIGHT (B)</td><td rowspan="2">22</td><td>22AWG</td><td rowspan="2">2.5</td><td rowspan="2">2.6</td><td rowspan="2">0.9</td><td rowspan="2">1.0</td></tr><tr><td>33001-5003</td><td>LEFT (D)</td></tr><tr><td>33001-4005</td><td>RIGHT (B)</td><td rowspan="2">M3</td><td>0.35-0.50mm²</td><td rowspan="2">2.5</td><td rowspan="2">2.7</td><td rowspan="2">0.9</td><td rowspan="2">1.54 ±0.1</td></tr><tr><td>33001-5005</td><td>LEFT (D)</td></tr></table>																								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)	1.25-2.00mm²	33012-2002	RIGHT (B)	18	20/18AWG	3.3	3.1	1.3	1.4	33012-3002	LEFT (D)	0.75-1.00mm²	33012-2003	RIGHT (B)	22	22AWG	2.5	2.6	0.9	1.0	33012-3003	LEFT (D)	33012-2004	RIGHT (B)	M3	0.35-0.50mm²	2.5	2.7	0.9	1.54 ±0.1	33012-3004	LEFT (D)	33001-2003	RIGHT (B)	14	16/14AWG	3.9	4.4	1.7	1.6	HIGH PERFORMANCE Au	33001-3003	LEFT (D)	1.25-2.00mm²	33001-2004	RIGHT (B)	18	20/18AWG	3.3	3.1	1.3	1.4	33001-3004	LEFT (D)	0.75-1.00mm²	33001-2005	RIGHT (B)	22	22AWG	2.5	2.6	0.9	1.0	33001-3005	LEFT (D)	33001-2006	RIGHT (B)	M3	0.35-0.50mm²	2.5	2.7	0.9	1.54 ±0.1	33001-3006	LEFT (D)	Ag	33001-4001	RIGHT (B)	14	16/14AWG	3.9	4.4	1.7	1.6	HIGH PERFORMANCE Ag	33001-5001	LEFT (D)	1.25-2.00mm²	33001-4002	RIGHT (B)	18	20/18AWG	3.3	3.1	1.3	1.4	33001-5002	LEFT (D)	0.75-1.00mm²	33001-4003	RIGHT (B)	22	22AWG	2.5	2.6	0.9	1.0	33001-5003	LEFT (D)	33001-4005	RIGHT (B)	M3	0.35-0.50mm²	2.5	2.7	0.9	1.54 ±0.1	33001-5005	LEFT (D)
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																																																																																																																																																														
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LARGE POLARIZATION RIB - NOT TO BE USED IN MX150 SEALED CONNECTORS																																																																																																																																																																										
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)		1.25-2.00mm²																																																																																																																																																																			
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* REFERENCE AS-33012-002 FOR SPECIFIC WIRE TYPES																																																																																																																																																																																																						
GROMMET SEAL / CAP CONFIGURATION TO MODIFY LARGE POLARIZATION RIB CAVITY TO ACCEPT SMALL POLARIZATION RIB APPLICATIONS GROMMET CAP OPENING																																																																																																																																																																																																						
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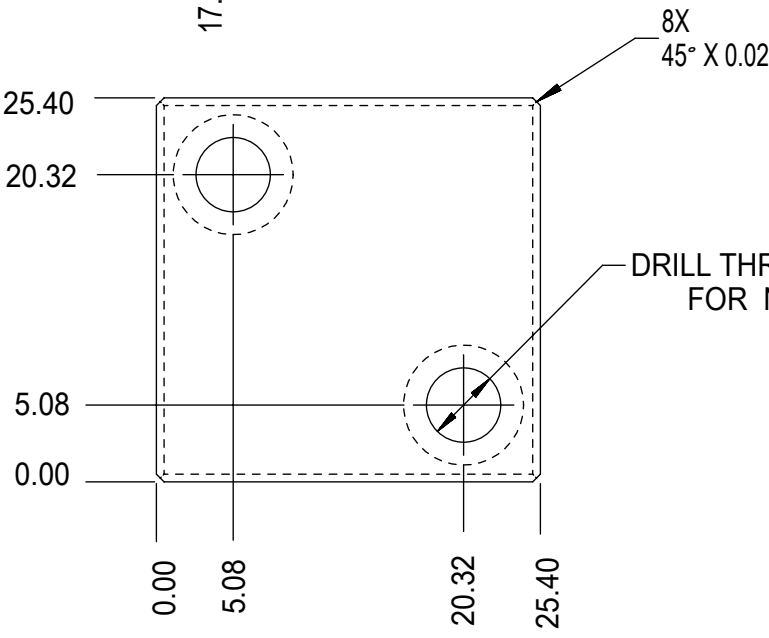
THIS CHECKING - AID IS FOR SMALL POLARIZATION RIB TERMINALS ONLY



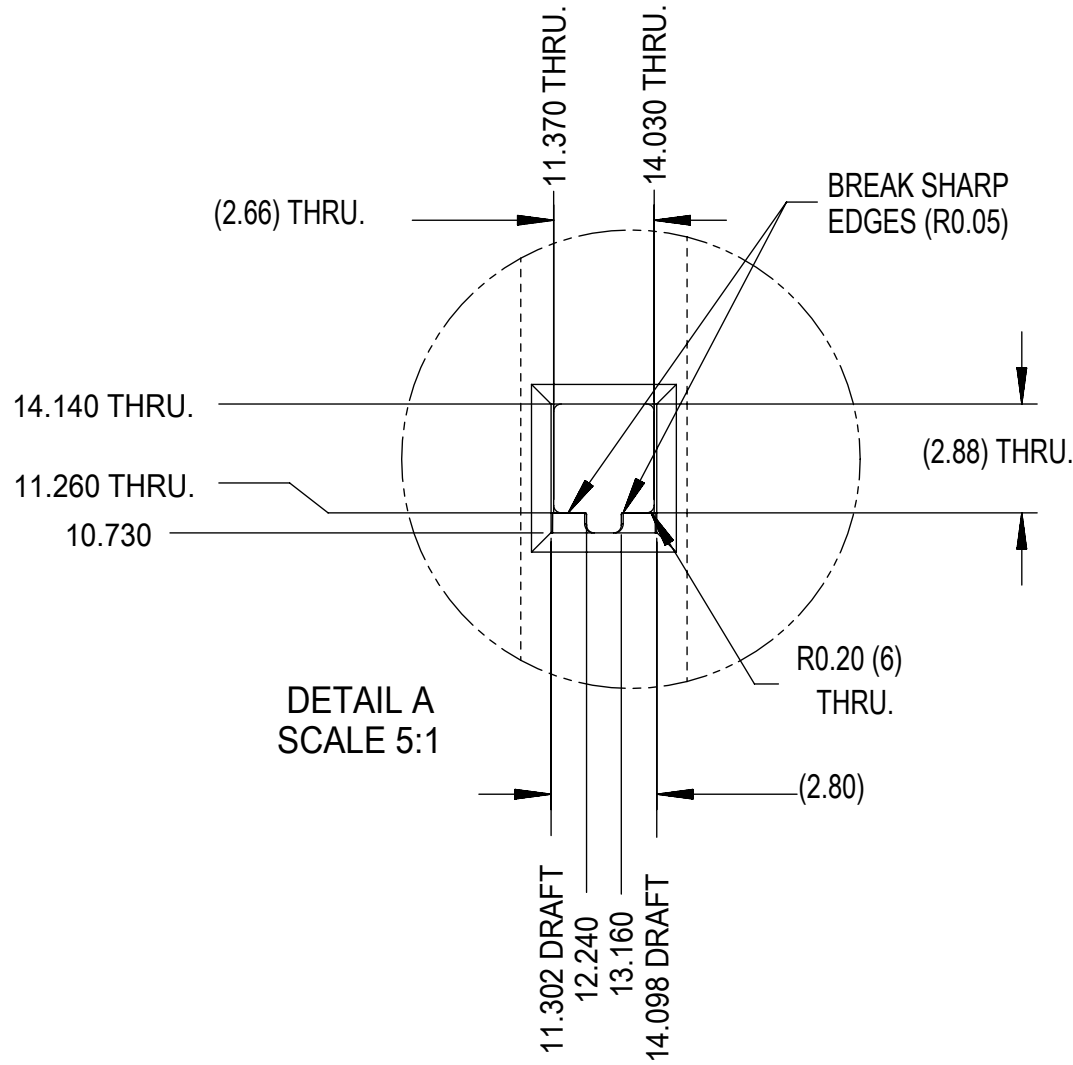
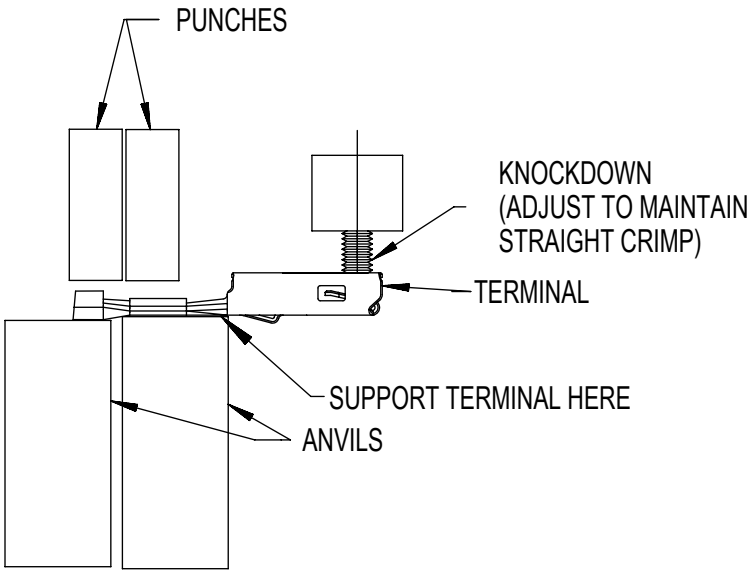
CHECKING - AID ASSEMBLY
SCALE 1:1



CHECKING - AID
UPPER



2X
- DRILL THRU AND COUNTERBORE
FOR NO. 8 S.H.C.S. F.F.S.



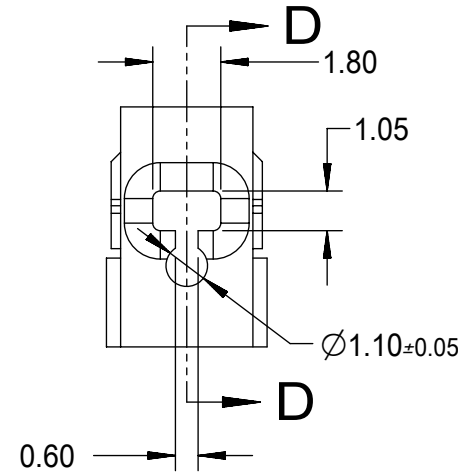
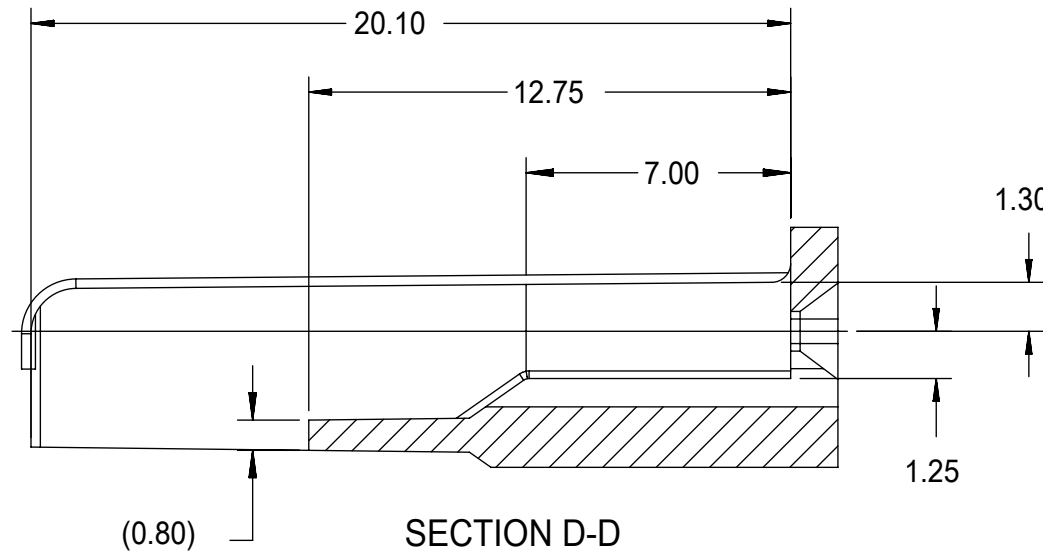
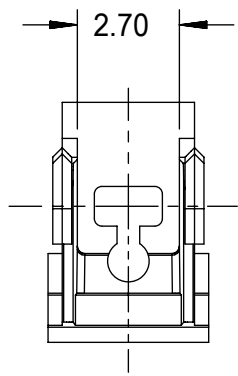
DETAIL A
SCALE 5:1

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)

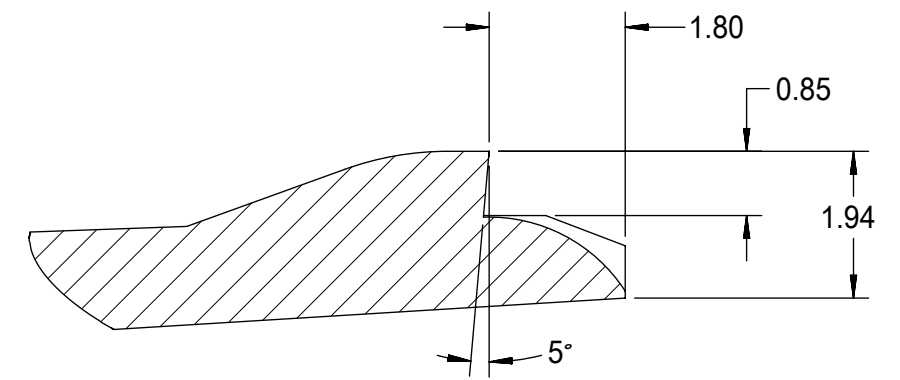
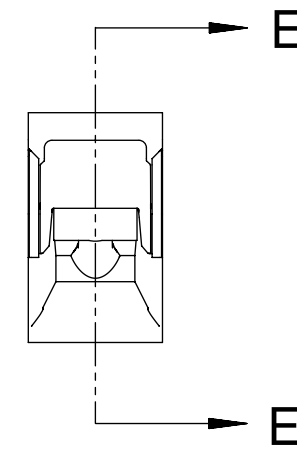
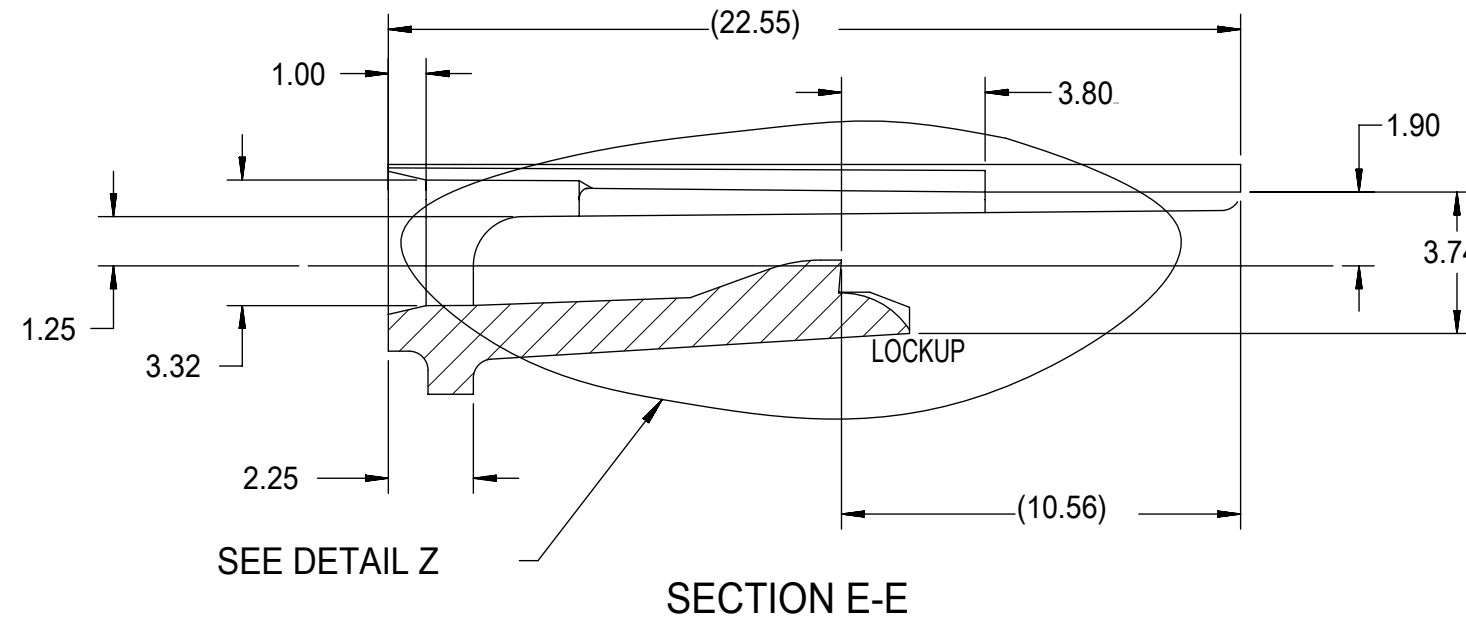
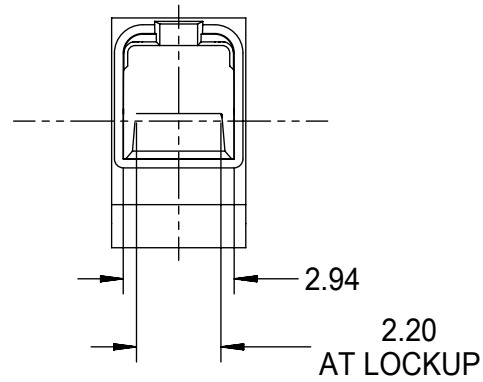
UPPER & LOWER
CHECKING-AID
A2 TOOL STEEL
HARDEN & GRIND
ROCKWELL "C" 56-58

SYMBOLS		THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX ELECTRONIC TECHNOLOGIES, LLC AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION											
DIMENSION UNITS		SCALE		CURRENT REV DESC:				molex					
mm		2:1											
GENERAL TOLERANCES (UNLESS SPECIFIED)		EC NO: 645050 DRWN: BSKANTHARAJU 2020/09/03 CHK'D: JCUATACERVAN 2020/09/18 APPR: JCUATACERVAN 2020/09/18				MX150 RECEPTACLE TERMINAL							
ANGULAR TOL ± 3.0°													
4 PLACES ±		INITIAL REVISION: DRWN: LPULLIAM 2005/06/21 APPR: BMOSER 2005/06/22				PRODUCT CUSTOMER DRAWING							
3 PLACES ±													
2 PLACES ± 0.10		DOCUMENT NUMBER SD-33012-002				DOC TYPE PSD		DOC PART 001		REVISION D			
1 PLACE ± 0.3													
0 PLACES ±		THIRD ANGLE PROJECTION		DRAWING C-SIZE		SERIES 33012		MATERIAL NUMBER SEE TABLE		CUSTOMER GENERAL MARKET		SHEET NUMBER 3 OF 5	
DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS													

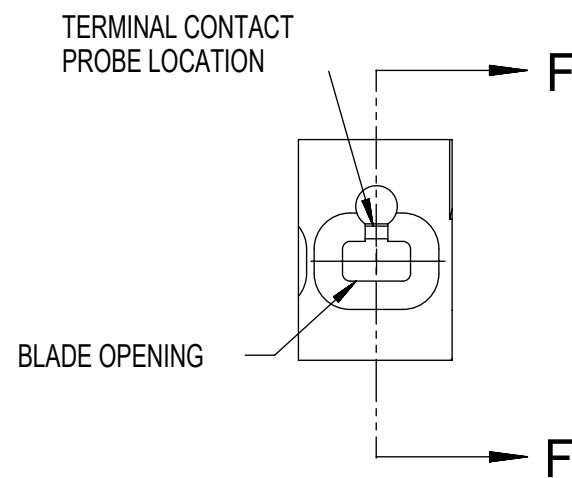
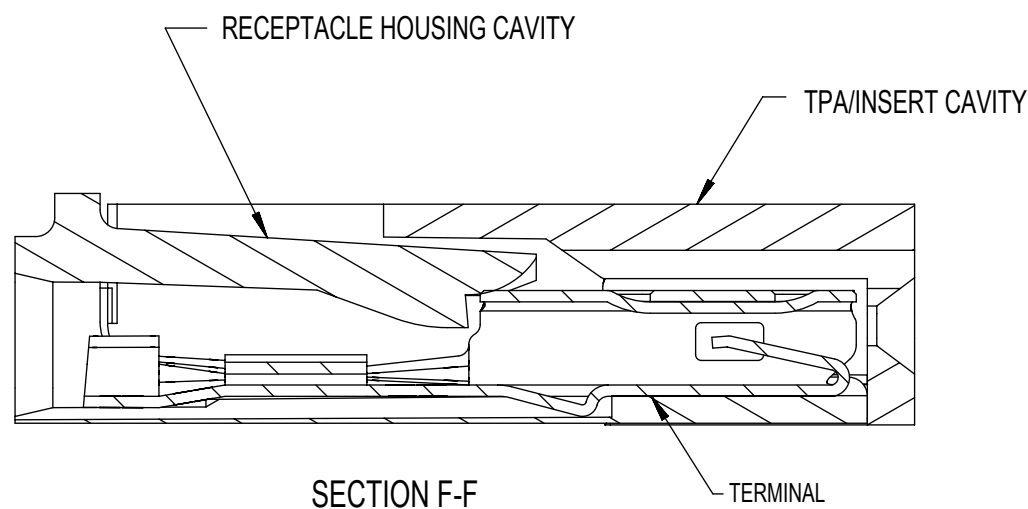


NOTES: UNLESS OTHERWISE SPECIFIED

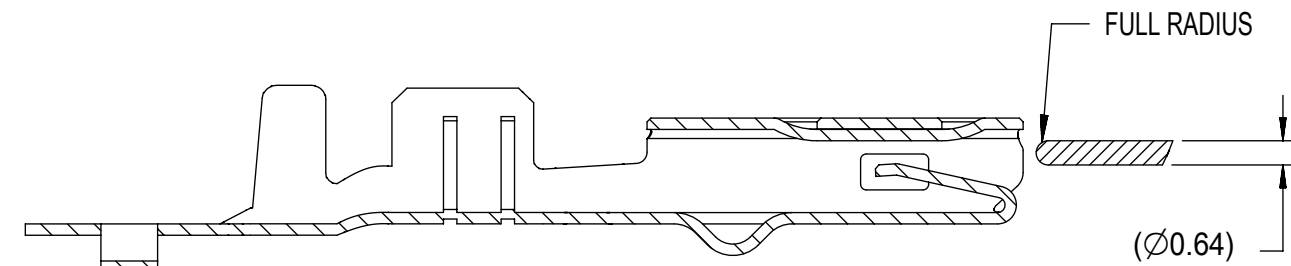
1. TOLERANCES: LINEAR ± 0.10
ANGULAR $\pm 3^\circ$
2. ALL DRAFT WITHIN TOLERANCE.
3. MAX RADII ON ALL CORNERS SHOWN SHARP: 0.10
4. MAX FLASH PERMISSIBLE: 0.1
5. EJECTOR PIN MARKS PERMISSIBLE IF FLUSH TO 0.25 BELOW SURFACE.
6. MATERIAL: HOUSING/FINGER SPECIFICATION ENGINEERED FOR MATERIAL WITH THE FOLLOWING 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



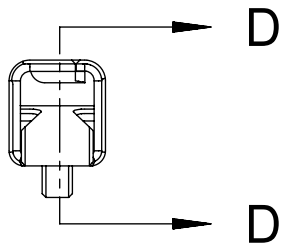
DETAIL Z
SCALE 20:1



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

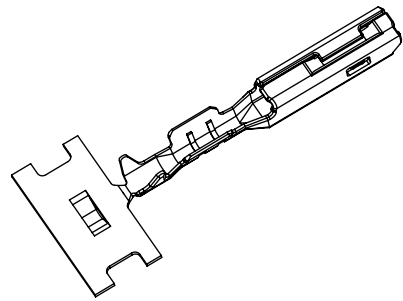
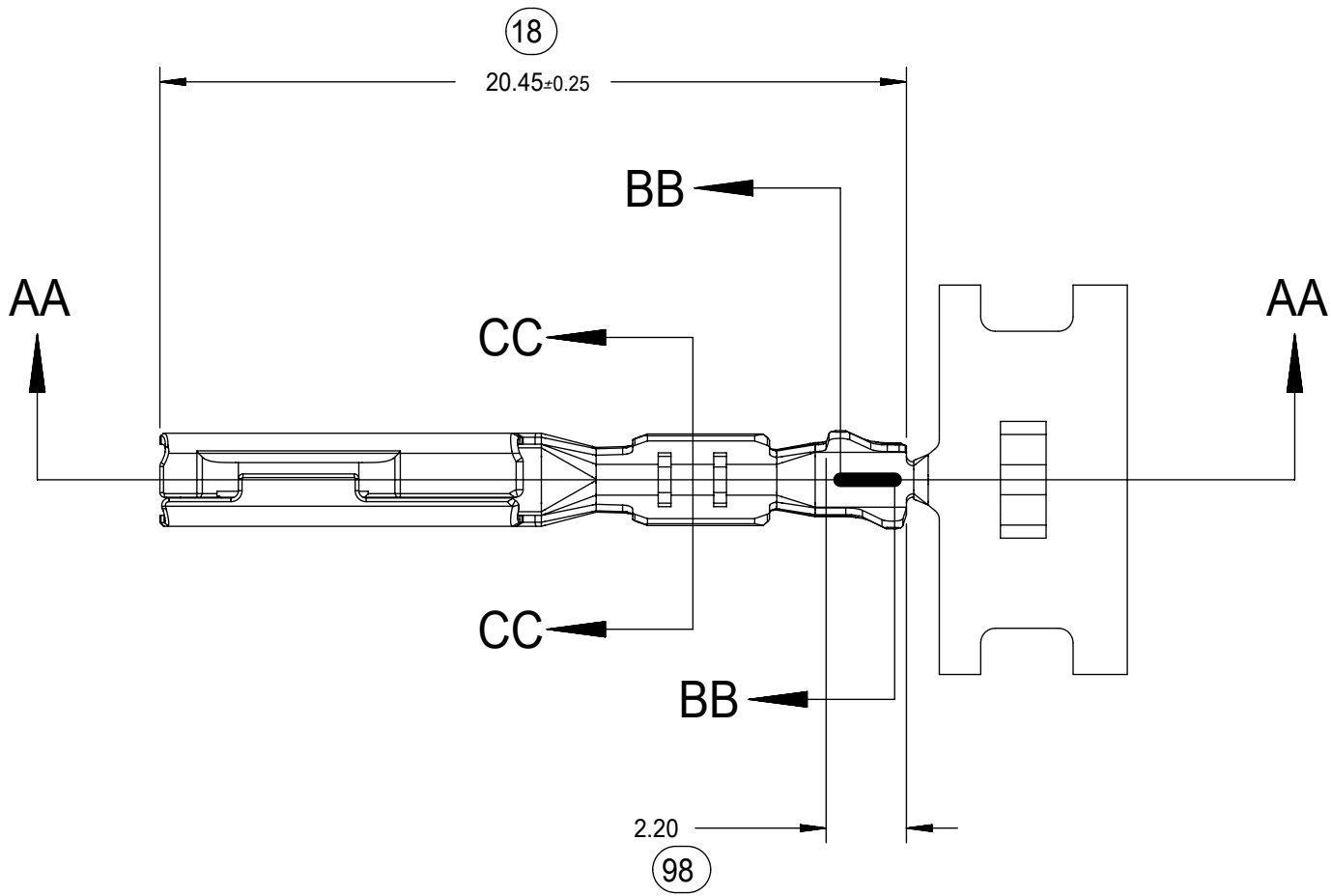
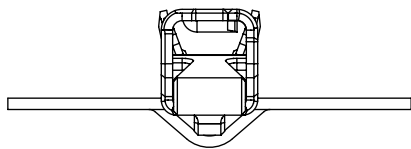
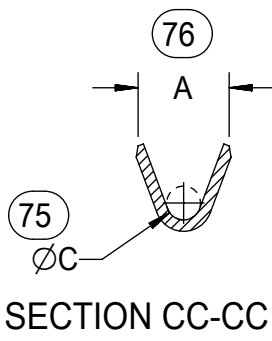
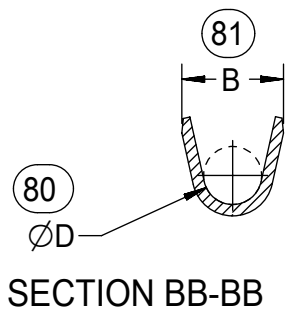
FOR PROBING INFORMATION REFERENCE
MOLEX MX150 APPLICATION SPEC AS-33472-100

PREFERRED PROBING LOCATION
IS NOT ON SPRING MEMBER

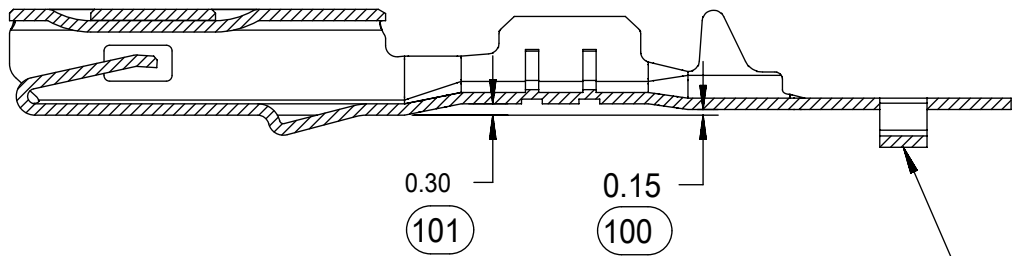
IF ELECTRICAL CONTINUITY PROBE
TOUCHES SPRING MEMBER USE
PROBING AS SHOWN IN FIG. 2

SYMBOLS		THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX ELECTRONIC TECHNOLOGIES, LLC AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION																		
 = 0	DIMENSION UNITS	SCALE	CURRENT REV DESC: EC NO: 645050 DRWN: BSKANTHARAJU 2020/09/03 CHK'D: JCUATACERVAN 2020/09/18 APPR: JCUATACERVAN 2020/09/18				molex MX150 RECEPTACLE TERMINAL													
	mm	5:1																		
 = 0	GENERAL TOLERANCES (UNLESS SPECIFIED)						PRODUCT CUSTOMER DRAWING													
 = 0	ANGULAR TOL ± 3.0 °																			
 = 0	4 PLACES	±	INITIAL REVISION: DRWN: LPULLIAM 2005/06/21 APPR: BMOSER 2005/06/22				DOCUMENT NUMBER SD-33012-002				DOC TYPE PSD		DOC PART 001		REVISION D					
 = 0	3 PLACES	±																		
 = 0	2 PLACES	± 0.10	THIRD ANGLE PROJECTION				DRAWING C-SIZE				SERIES 33012				MATERIAL NUMBER SEE TABLE		CUSTOMER GENERAL MARKET		SHEET NUMBER 4 OF 5	
 = 0	1 PLACE	± 0.3																		
 = 0	0 PLACES	±	DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS																	
 = 0																				

DOCUMENT STATUS	P1	RELEASE DATE	2020/09/18	18:32:02
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ISO VIEW
SCALE 2:1



SECTION AA-AA
M3 GRIP CODE TERMINAL
SEE TABLE (SHEET 2) FOR PART NUMBERS

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

SYMBOLS	THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX ELECTRONIC TECHNOLOGIES, LLC AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION														
= 0 = 0 = 0 = 0 = 0 = 0 = 0 = 0 = 0	DIMENSION UNITS		SCALE		CURRENT REV DESC:				molex						
	mm		5:1												
	GENERAL TOLERANCES (UNLESS SPECIFIED)				EC NO: 645050 DRWN: BSKANTHARAJU 2020/09/03 CHK'D: JCUATACERVAN 2020/09/18 APPR: JCUATACERVAN 2020/09/18				MX150 RECEPTACLE TERMINAL						
	ANGULAR TOL ± 3.0 °														
	4 PLACES		±												
	3 PLACES		±		INITIAL REVISION: DRWN: LPULLIAM 2005/06/21 APPR: BMOSER 2005/06/22				PRODUCT CUSTOMER DRAWING						
	2 PLACES		± 0.10												
	1 PLACE		± 0.3												
	0 PLACES		±		DOCUMENT NUMBER				DOC TYPE		DOC PART	REVISION			
	DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS				THIRD ANGLE PROJECTION		DRAWING		SERIES		MATERIAL NUMBER		CUSTOMER		SHEET NUMBER
						C-SIZE		33012		SEE TABLE		GENERAL MARKET		5 OF 5	

DOCUMENT STATUS	P1	RELEASE DATE	2020/09/18	18:32:02
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