



产品编号 : 330012003
Product Description : MX150 Female
Terminal for Mat-Sealed Connectors, Gold
Plating, 14 and 16 AWG, Right Reel Payoff
系列号 : 33001
状态 : Active
Product Category : Crimp Terminals



文件和资源

图纸
[图纸 330012003_sd.pdf](#)

规格
[测试摘要 TS-33001-002-001.pdf](#)

产物环境合规

合规

GADSL/IMDS	Compliant with Exemption 44; 34; 33
China RoHS	
EU ELV	Compliant per 2000/53/EC
Low-Halogen Status	Low-Halogen per IEC 61249-2-21
REACH SVHC	Not Contained per D(2023)3788-DC (14 Jun 2023)
EU RoHS	Compliant per EU 2015/863

多部分产品合规性声明

- Eu RoHS
- REACH SVHC
- Low-Halogen

多部分行业合规性文件

- IPC 1752A Class C
- IPC 1752A Class D
- Molex Product Compliance Declaration
- IEC-62474
- chemSHERPA (xml)

产品详情

常规

状态	活动
类别	Crimp Terminals
系列	33001
说明	MX150 Female Terminal for Mat-Sealed Connectors, Gold Plating, 14 and 16 AWG, Right Reel Payoff
应用	Power, Wire-to-Board, Wire-to-Wire
个评论	For automatic and semi-automatic crimping, use Left Reel Payoff terminals. See Sales Drawing for Left Reel Payoff Part Numbers.
产品系列	MX150 Sealed and Unsealed Connector System
产品名称	MX150
UPC	822350083003

电气

每触点最大电流	Contact Molex
电压 - 最大	14V DC

物理

性别	女
夹具代码	14
材料 - 金属	High Performance Alloy (HPA)
材料 - 接合部位电镀	金牌
材料 - 终端电镀	Tin
净重	0.435/g
包装形式	Reel
最薄镀层 - 接合部位	0.762µm
最薄镀层 - 端接	2.540µm
终端界面类型	Crimp or Compression
导线绝缘直径	2.70mm max.
线径规格 (AWG)	14, 16

线缆尺寸mm ²	1.50
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进程

无铅	不适用
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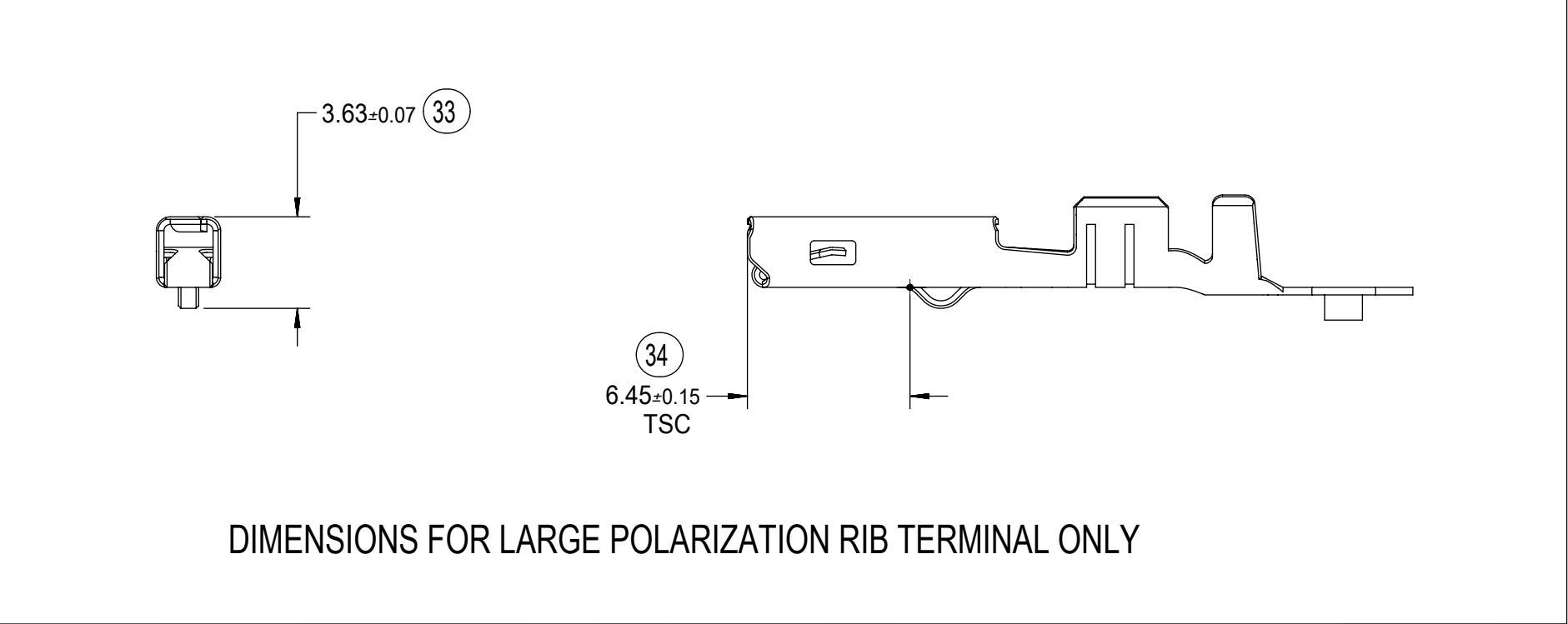
可连接使用部件

描述	产品编号
MX150 Mat-Sealed Dual Row Female Connector Assemblies	<u>33472</u>
MX150 Mat-Sealed Single Row Female Connector Assemblies	<u>33471</u>

施工工具

全局

描述	产品编号
Extraction Toolkit for MX150 Connectors	<u>2002220700</u>
PremiumGrade Hand Crimp Tool for MX150 Female Terminals, 14-16 AWG	<u>0638115900</u>
PremiumGrade Hand Crimp Tool for MX150 Female Terminals for 1.00mm ² and 1.50mm ² Metric Wires	<u>0638116100</u>
Extraction Tool for MX150L, MX150, PT Bulb Socket, iGrid, SPOX, and Wire-to-Motor Terminals	<u>0638131500</u>
ServiceGrade Hand Crimp Tool for MX150 Crimp Terminals, 14-22 AWG	<u>0640160133</u>



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

3.33±0.07

41

19

2.80±0.07

0.80±0.05

22

(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

A

B

C

A

C

B

2X 2.0

38

SEE SHEET 5
FOR M3 GRIP CODE
TERMINAL

48

6.58 ±0.15

CONTACT POINT

9.95

40

42

6.80±0.15

TSC

(0.3)

SECTION A-A

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

5

B

4

ØD

SECTION B-B
SCALE 5:1

16

A

15

ØC

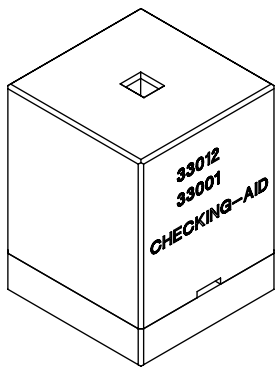
SECTION C-C
SCALE 5:1

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

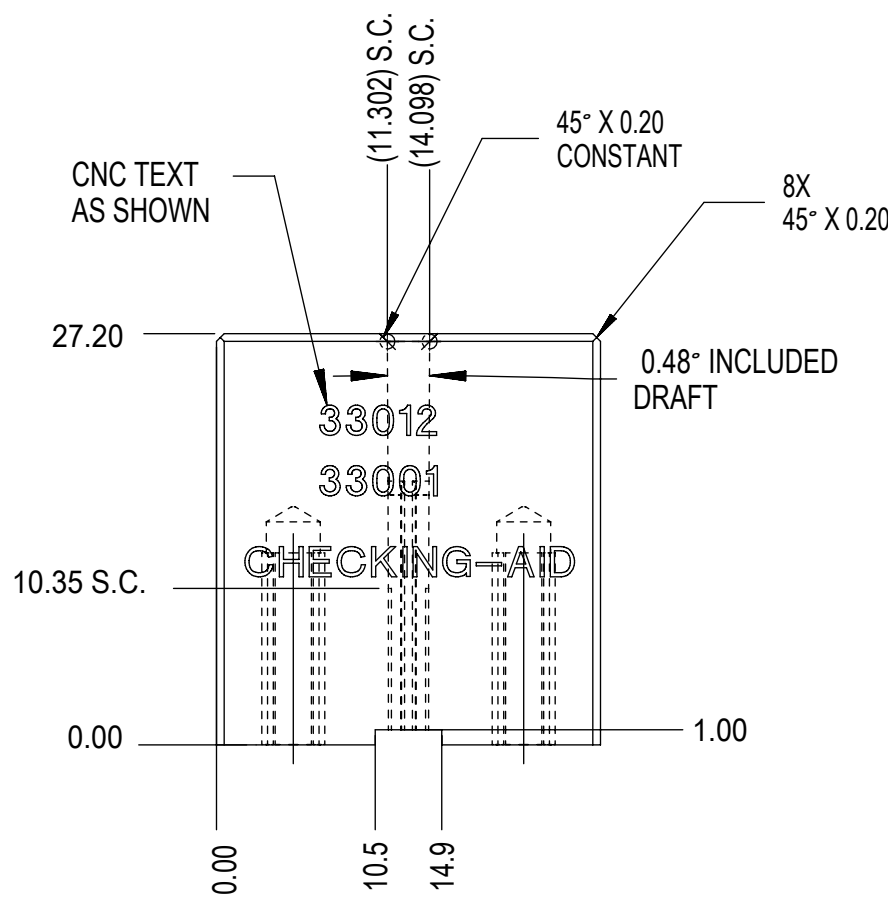
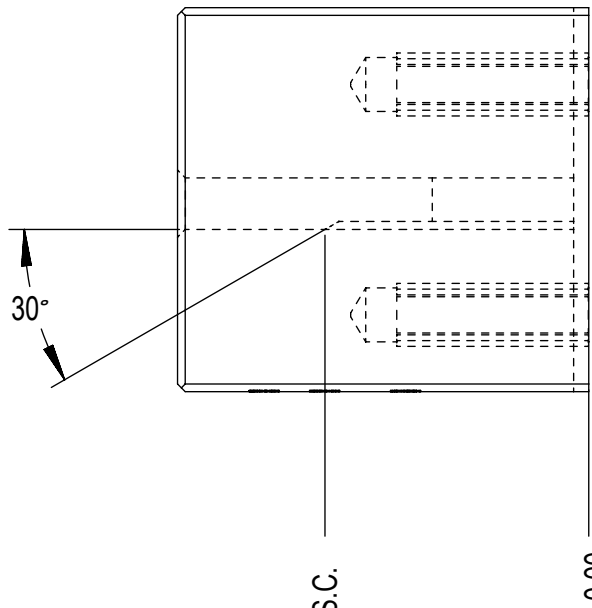
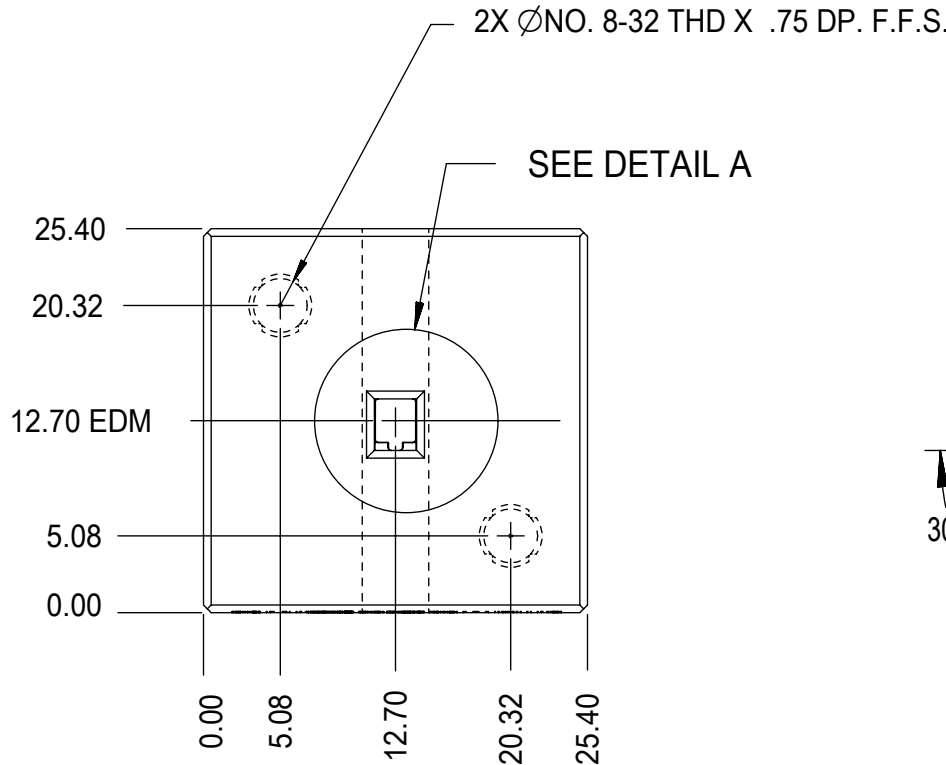
12		11		10		9		8		7		6		5		4		3		2		1																																																																																																																																																				
<table><tr><th>FAMILY</th><th>GENDER</th><th>SEALING</th><th>PLATING</th><th>PART NUMBER</th><th>PAYOFF DIRECTION</th><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)
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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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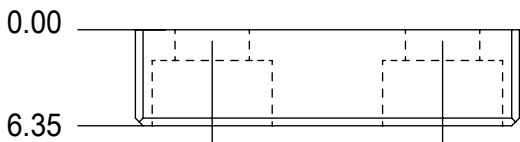
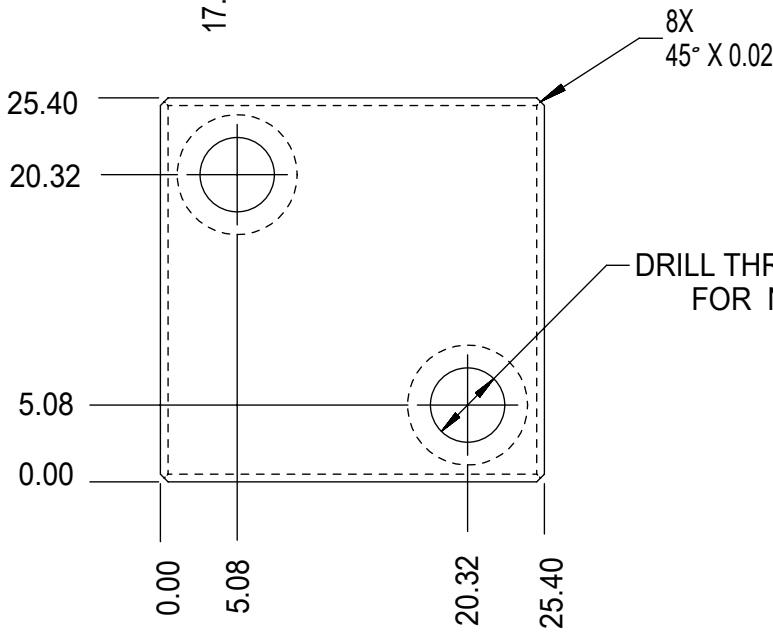
THIS CHECKING - AID IS FOR SMALL POLARIZATION RIB TERMINALS ONLY



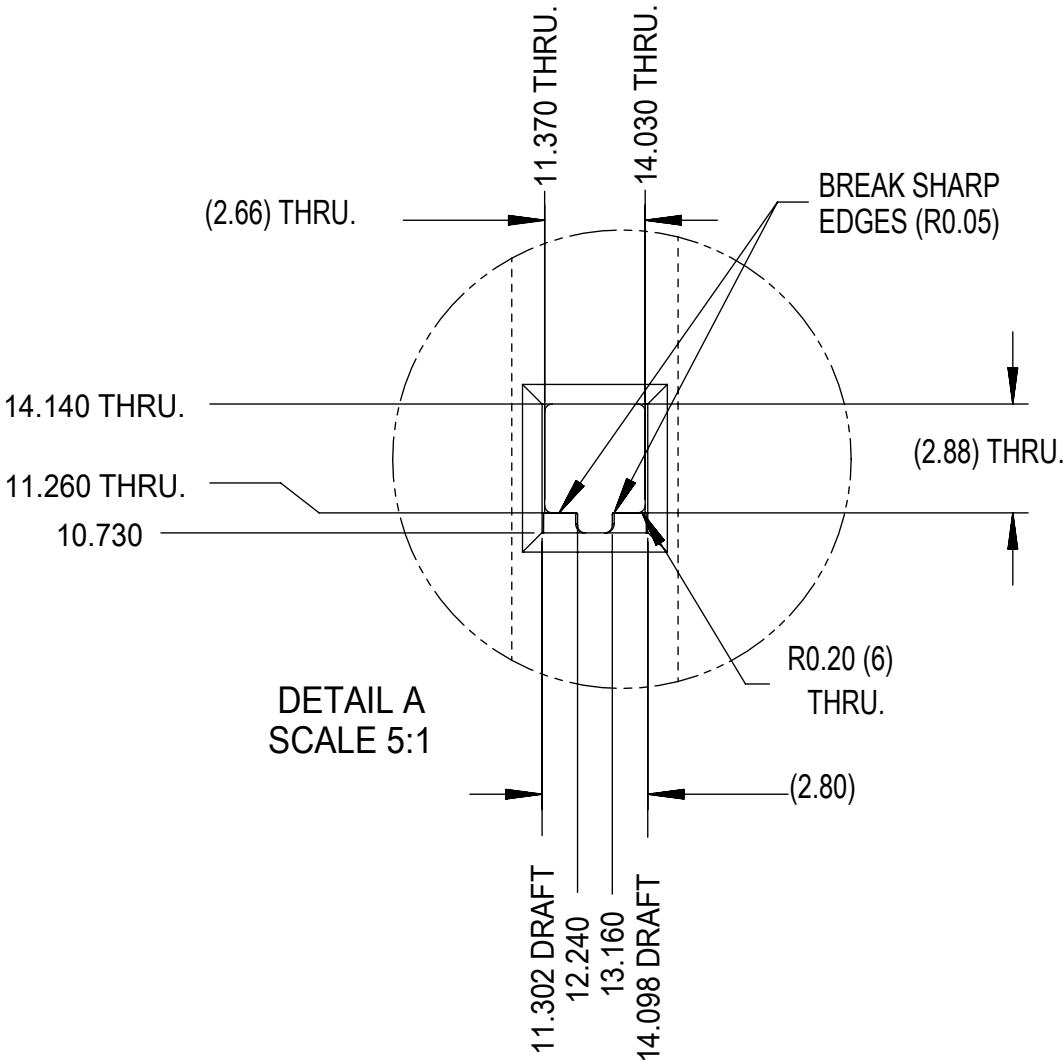
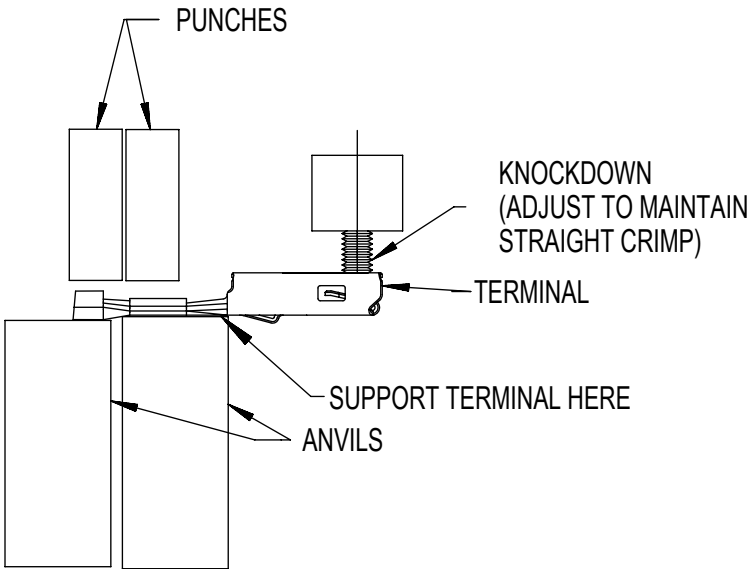
CHECKING - AID ASSEMBLY
SCALE 1:1



CHECKING - AID
UPPER



CHECKING - AID
LOWER



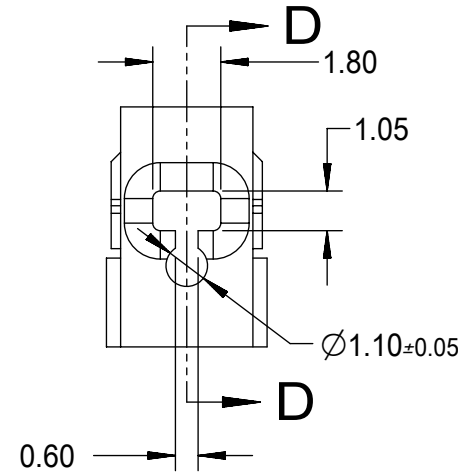
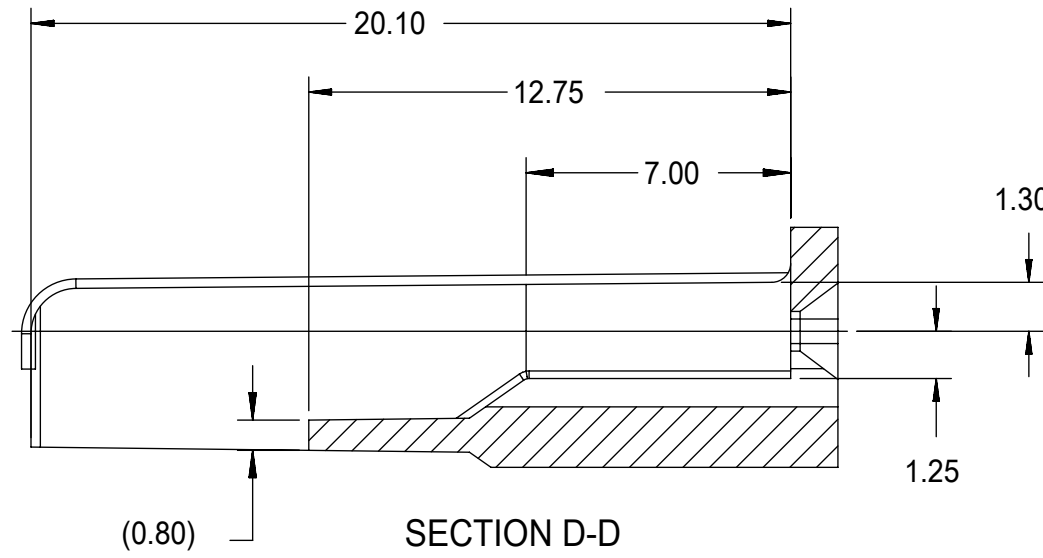
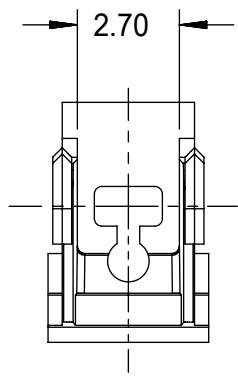
CRIMP REQUIREMENTS:

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

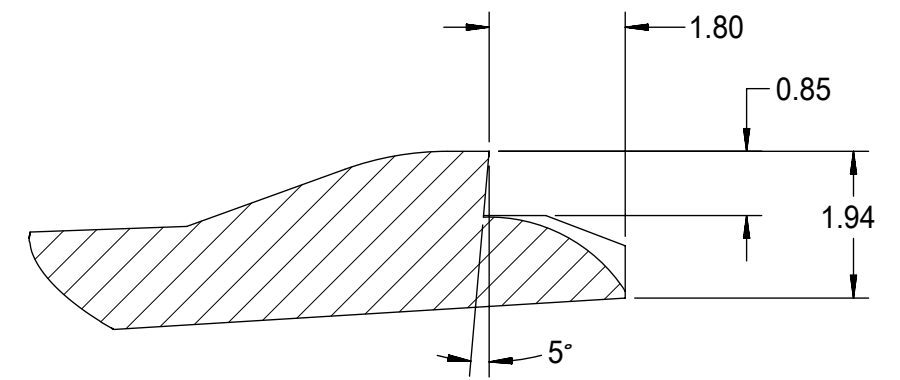
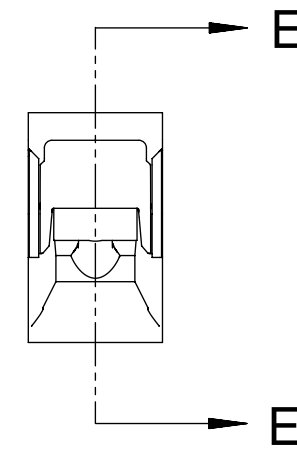
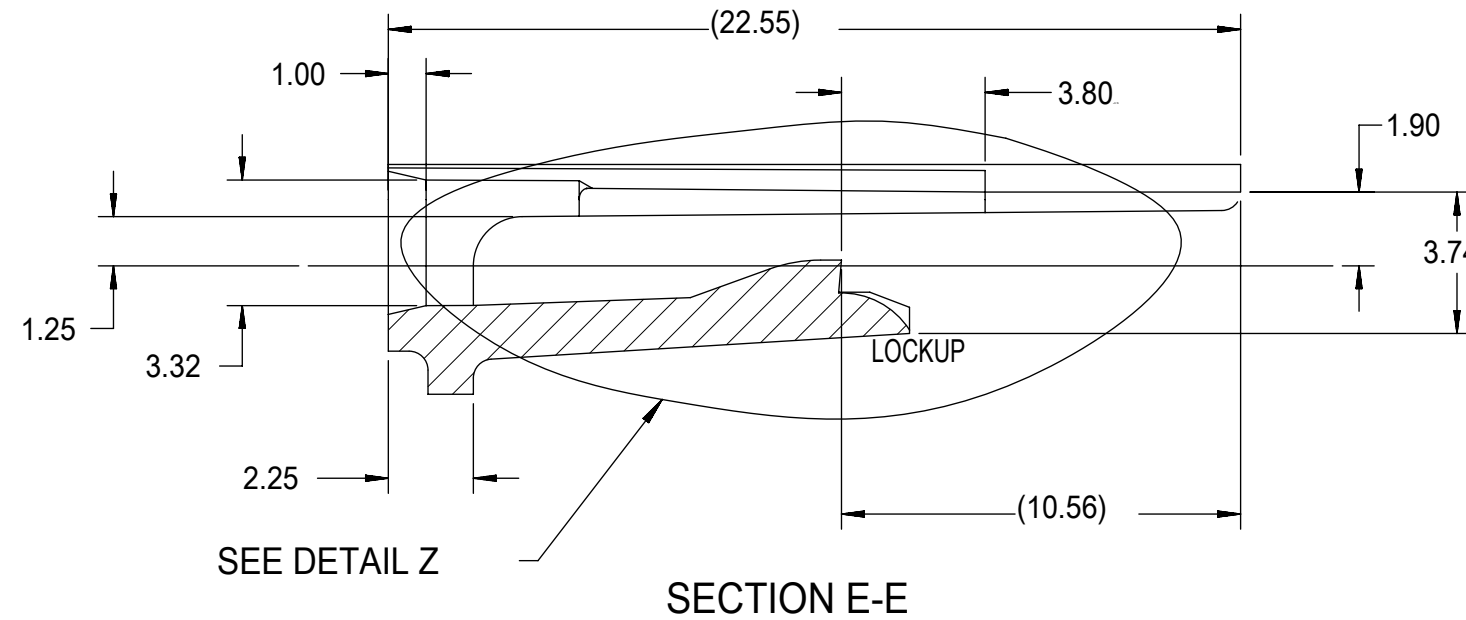
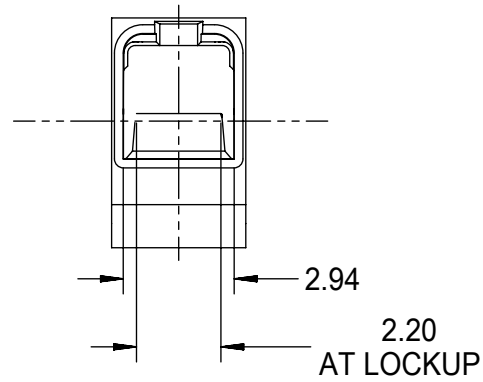
SYMBOLS										THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX ELECTRONIC TECHNOLOGIES, LLC AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION									
DIMENSION UNITS					SCALE					CURRENT REV DESC:									
mm					2:1					EC NO: 645050									
GENERAL TOLERANCES (UNLESS SPECIFIED)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

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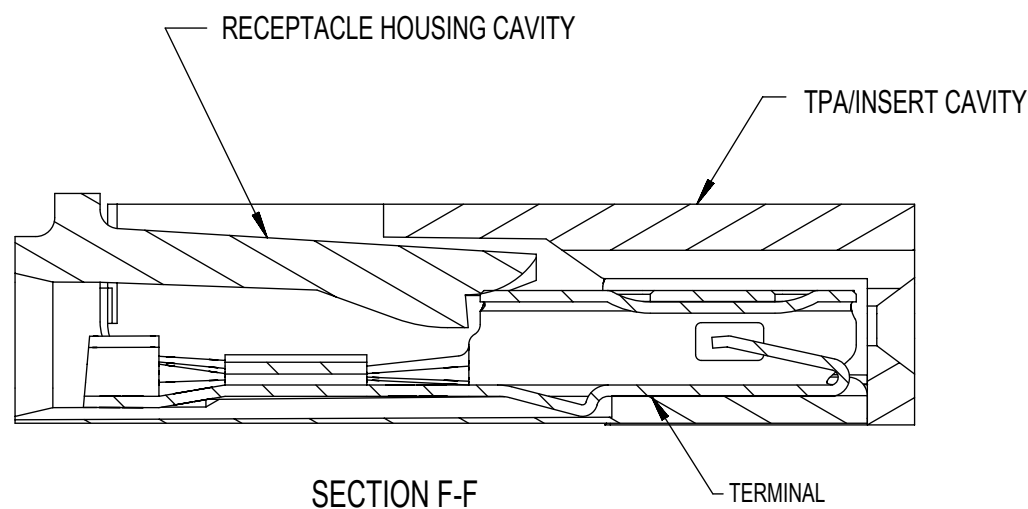


NOTES: UNLESS OTHERWISE SPECIFIED

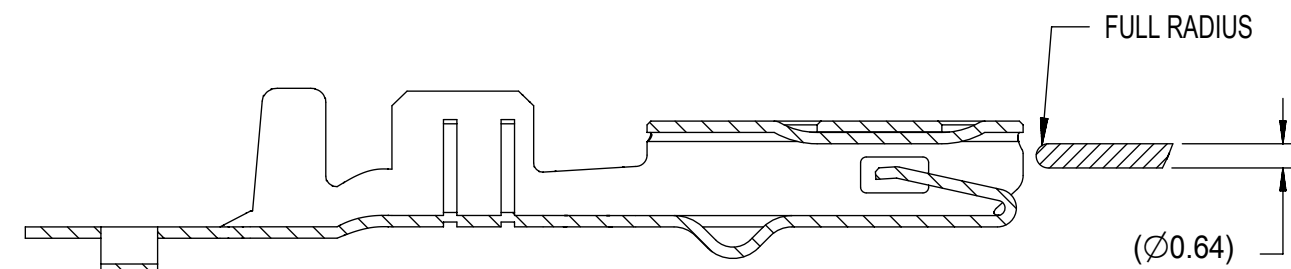
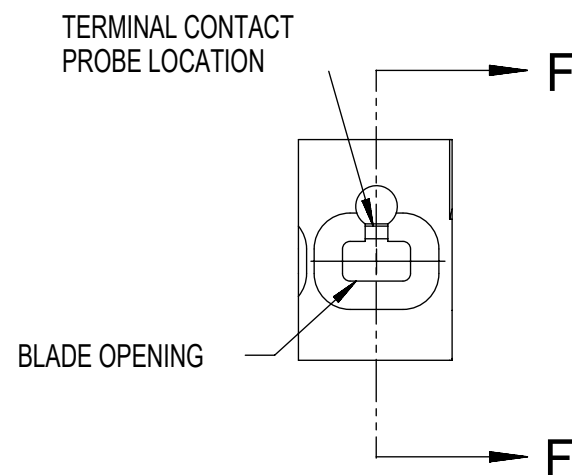
1. TOLERANCES: LINEAR ± 0.10
ANGULAR $\pm 3^\circ$
2. ALL DRAFT WITHIN TOLERANCE.
3. MAX RADII ON ALL CORNERS SHOWN SHARP: 0.10
4. MAX FLASH PERMISSIBLE: 0.1
5. EJECTOR PIN MARKS PERMISSIBLE IF FLUSH TO 0.25 BELOW SURFACE.
6. MATERIAL: HOUSING/FINGER SPECIFICATION ENGINEERED FOR MATERIAL WITH THE FOLLOWING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



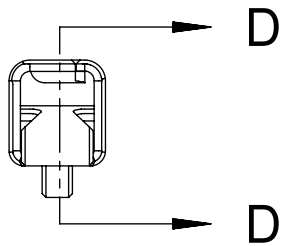
DETAIL Z
SCALE 20:1



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



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

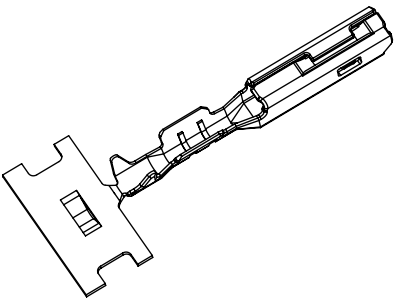
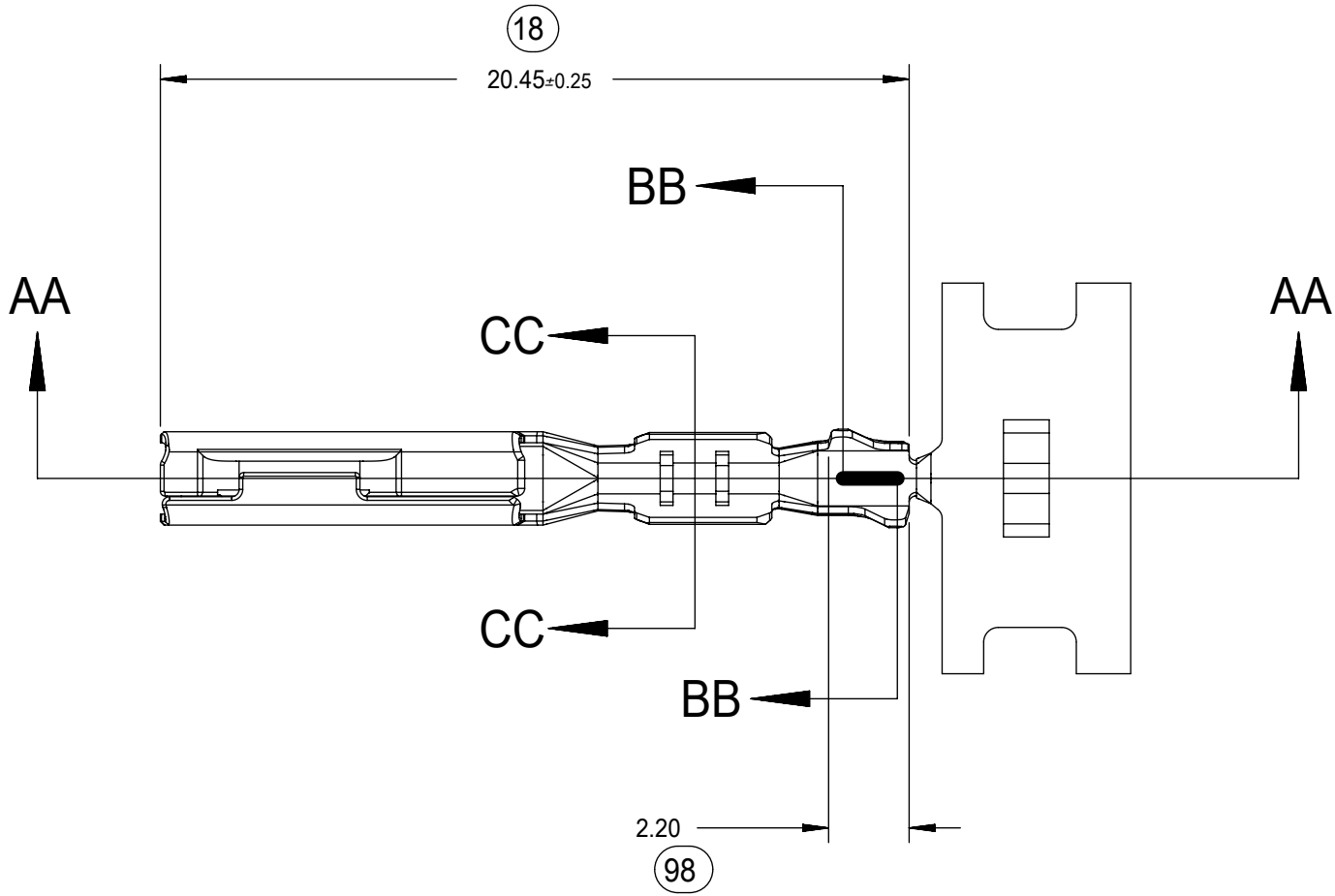
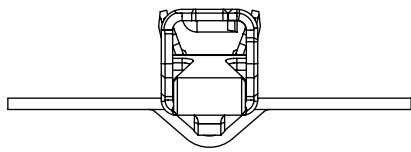
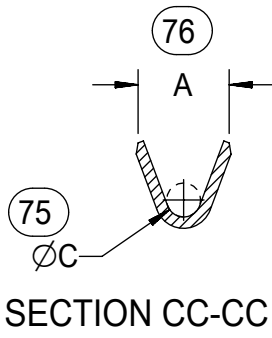
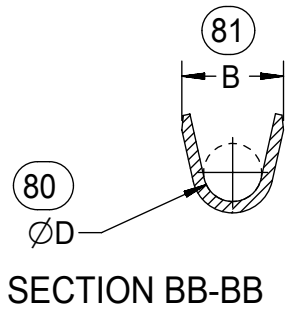


PROBING DOWN THE
THROAT MUST USE
THIS TERMINAL PROBE

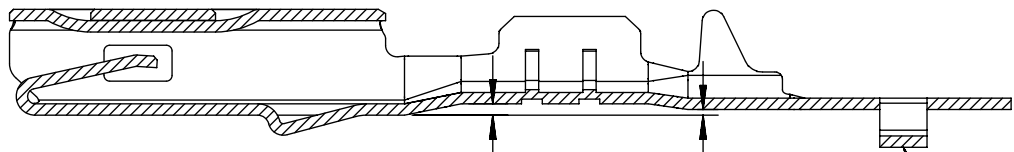
FOR PROBING INFORMATION REFERENCE
MOLEX MX150 APPLICATION SPEC AS-33472-100

PREFERRED PROBING LOCATION
IS NOT ON SPRING MEMBER

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



SCALE 2:1



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 = 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										
	GENERAL TOLERANCES (UNLESS SPECIFIED)												
	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										
	1 PLACE		± 0.3		DOCUMENT NUMBER SD-33012-002			DOC TYPE	DOC PART	REVISION			
	0 PLACES		±					PSD	001	D			
	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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