



产品编号：[330123004](#)

Product Description : MX150 Female Terminal for Mat-Sealed Connectors, Tin Plating, Grip Code M3, Preferred Terminal for use in Sealed Application with 0.35-0.50mm², Left Reel Payoff, Contact Material Thickness 0.30mm²

系列号：[33012](#)

状态：[Active](#)

Product Category：[Crimp Terminals](#)



文件和资源

图纸

[图纸 330123004_sd.pdf](#)

[包装设计图 313025040-000.pdf](#)

规格

[应用规格 330120000-AS-KR-000.pdf](#)

[测试摘要 TS-33012-002-001.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)

欧盟 RoHS 合格证书

产品详情

常规

状态	活动
类别	Crimp Terminals
系列	33012
说明	MX150 Female Terminal for Mat-Sealed Connectors, Tin Plating, Grip Code M3, Preferred Terminal for use in Sealed Application with 0.35-0.50mm ² , Left Reel Payoff, Contact Material Thickness 0.30mm ²
应用	Power, Wire-to-Board, Wire-to-Wire
个评论	Left Reel Payoff, Small Polarization Rib
产品系列	MX150 Sealed and Unsealed Connector System
产品名称	MX150
UPC	884982250826

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	M3
材料 - 金属	High Performance Alloy (HPA)
材料 - 接合部位电镀	Tin
材料 - 终端电镀	Tin
净重	0.390/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	1.70mm max.
线径规格 (AWG)	不适用
线缆尺寸mm ²	0.35-0.50

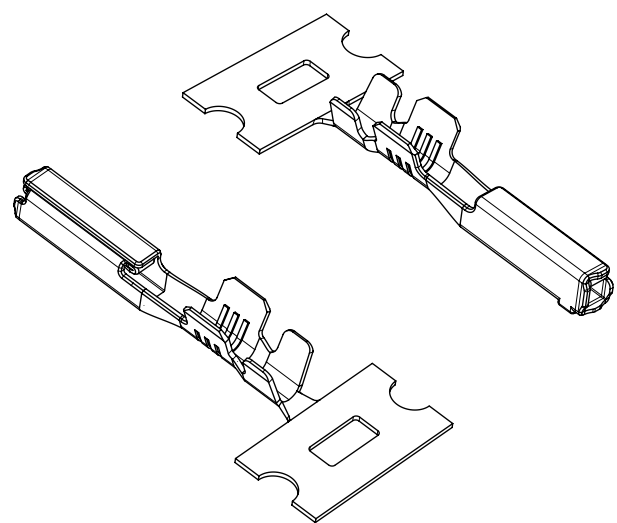
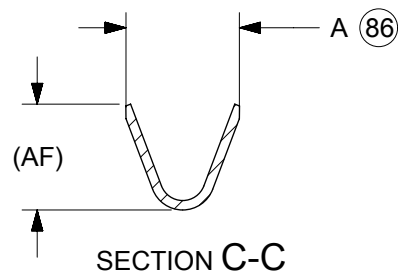
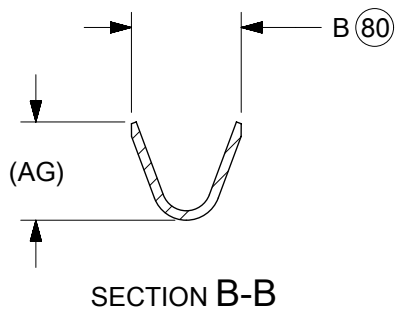
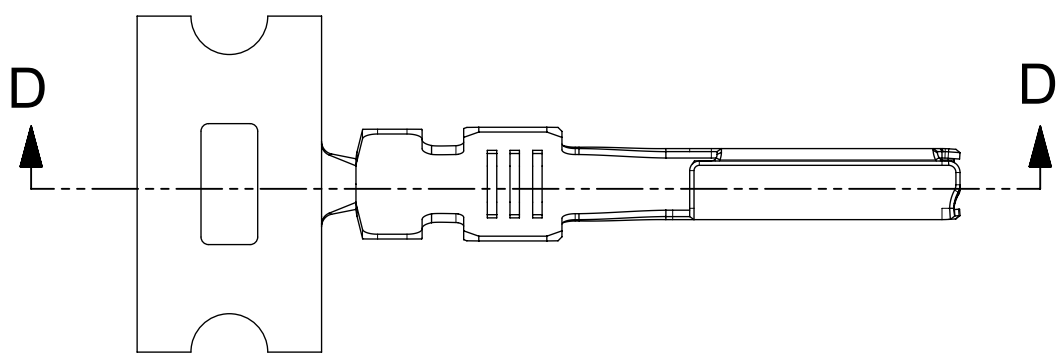
可连接使用部件

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>

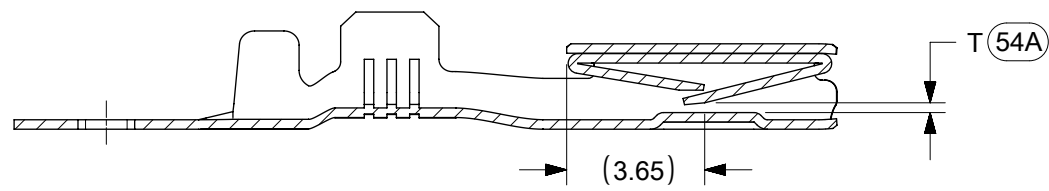
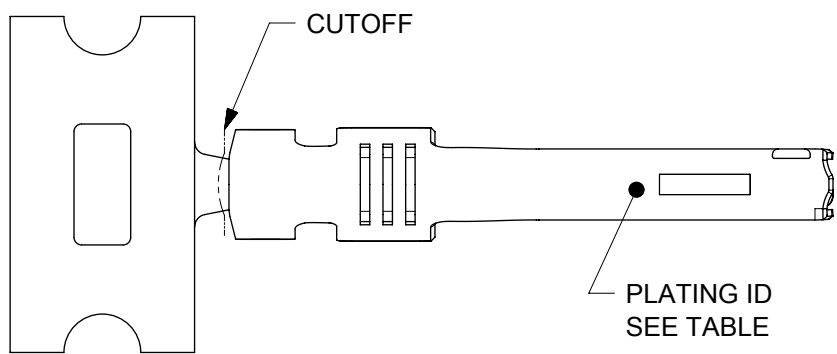
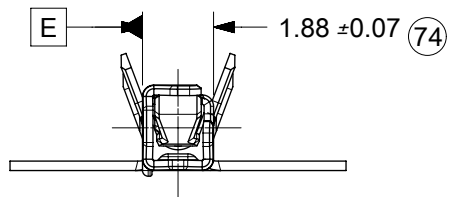
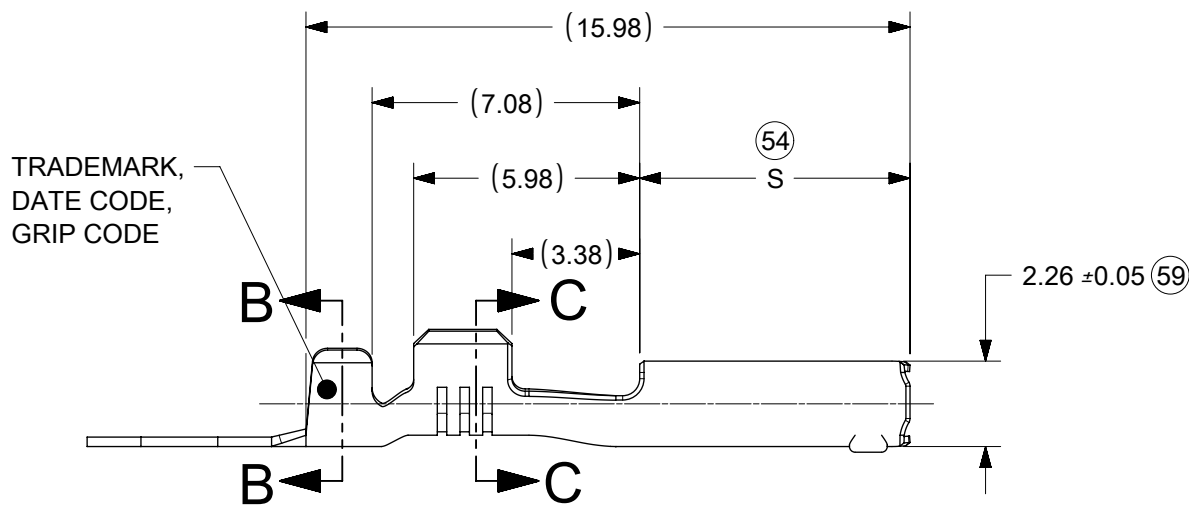
施工工具

全局

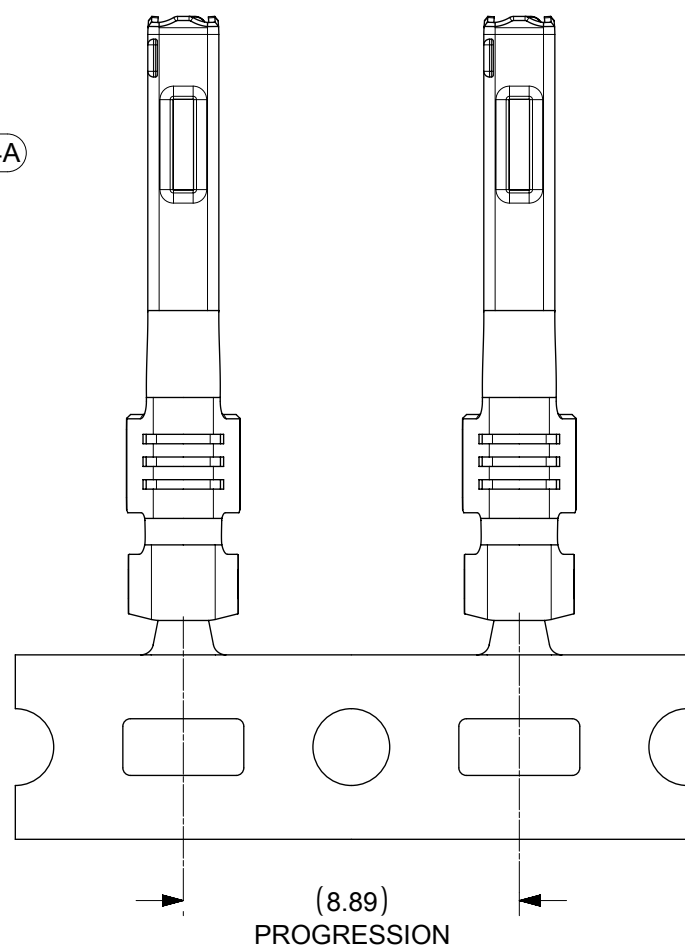
描述	产品编号
Extraction Toolkit for MX150 Connectors	<u>2002220700</u>
FA2 Mechanical Feed Applicator for MX150 Female Terminals, 0.35mm ² and 0.50mm ² ISO Wire	<u>0638082500</u>
Extraction Tool for MX150L, MX150, PT Bulb Socket, iGrid, SPOX, and Wire-to-Motor Terminals	<u>0638131500</u>
Hand Crimp Tool for ISO (M3) Receptacle Terminals	<u>0638233700</u>
FineAdjust Applicator for SRC Connector using MX150 Receptacle Terminals, 0.50mm ² wires	<u>0639041200</u>



ISO VIEWS
SCALE 3:1



SECTION D-D



- NOTES: (UNLESS OTHERWISE SPECIFIED)
- MATERIALS: SEE TABLE
 - PACKAGING SPECIFICATION: PK-31300-516 AND PK-30907-759
 - CRIMPING PER APPLICATION SPECIFICATION AS-33468-001
 - CRIMPED LEAD MEETS THE FOLLOWING:
 - SAE/USCAR-21, MAY 2002
 - SAE/USCAR-2, REV. 3, APRIL 2001
 - SAE/USCAR-12, REV. 2
 - GMW #3191 AUGUST 22, 2000 (DRAFT) TEMPERATURE CLASS 3, APPLIES ONLY TO Au PARTS
 - GMW #3191 JANUARY, 2005 TEMPERATURE CLASS 3, APPLIES ONLY TO Ag PARTS
 - PLATING NOTES:
 - TIN PLATING (ENTIRE TERMINAL)
 - ELECTRO REFLOW 1.90 - 3.30 MICROMETERS TIN OVER 0.25 - 0.76 MICROMETERS NICKEL
 - GOLD PLATING
 - UNDERPLATE OVERALL 1.25-2.25 MICROMETERS DUCTILE SULPHAMATE NICKEL
 - ELECTRODEPOSITED GOLD 0.76 - 1.5 MICROMETERS IN CONTACT AREAS
 - ELECTRODEPOSITED TIN MATTE FINISH 2.5 - 4.0 MICROMETERS IN CRIMP AREA
 - SILVER PLATING
 - UNDERPLATE OVERALL 1.25-2.25 MICROMETERS DUCTILE SULPHAMATE NICKEL
 - ELECTRODEPOSITED PURE SILVER 99.5% PURITY SEMI-BRIGHT FINISH WITH NO BRIGHTENERS OR CHROMATES 1.9 - 3.3 MICROMETERS IN CONTACT AREAS
 - ANTI-TARNISH TREATMENT FOR SILVER PLATED AREA: SYNTHETIC HYDROCARBON CONTACT SURFACE FINISH OR EQUIVALENT
 - ELECTRODEPOSITED TIN MATTE FINISH 2.5 - 4.0 MICROMETERS IN CRIMP AREA

WIRE SIZE	GRIP CODE	PART NUMBER	REEL PAYOFF DIRECTION	DIM A	DIM B	DIM S	DIM T	DIM AF	DIM AG	BASE MATERIAL	PLATING ID
22 AWG	A	33468-0002	D	2.3	2.3	7.15	0.26	(2.1)	(2.1)	COPPER ALLOY	Sn Lead Free
		33468-0001	B			±0.10	±0.07				
		33467-0004	D	2.3	2.3	6.97-	0.26	(2.1)	(2.1)	COPPER ALLOY	Au Lead Free
		33467-0003	B			7.27	±0.07				
		34736-1001	D	2.3	2.3	6.97-	0.26	(2.1)	(2.1)	COPPER ALLOY	Ag Lead Free
		34736-2001	B			7.27	±0.07				
18/20 AWG	B	33468-0004	D	3.0	2.9	7.15	0.26	(2.8)	(2.6)	COPPER ALLOY	Sn Lead Free
		33468-0003	B			±0.10	±0.07				
		33467-0006	D	3.0	2.9	6.97-	0.26	(2.8)	(2.6)	COPPER ALLOY	Au Lead Free
		33467-0005	B			7.27	±0.07				
		34736-1002	D	3.0	2.9	6.97-	0.26	(2.8)	(2.6)	COPPER ALLOY	Ag Lead Free
		34736-2002	B			7.27	±0.07				

THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX ELECTRONIC TECHNOLOGIES, LLC AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION

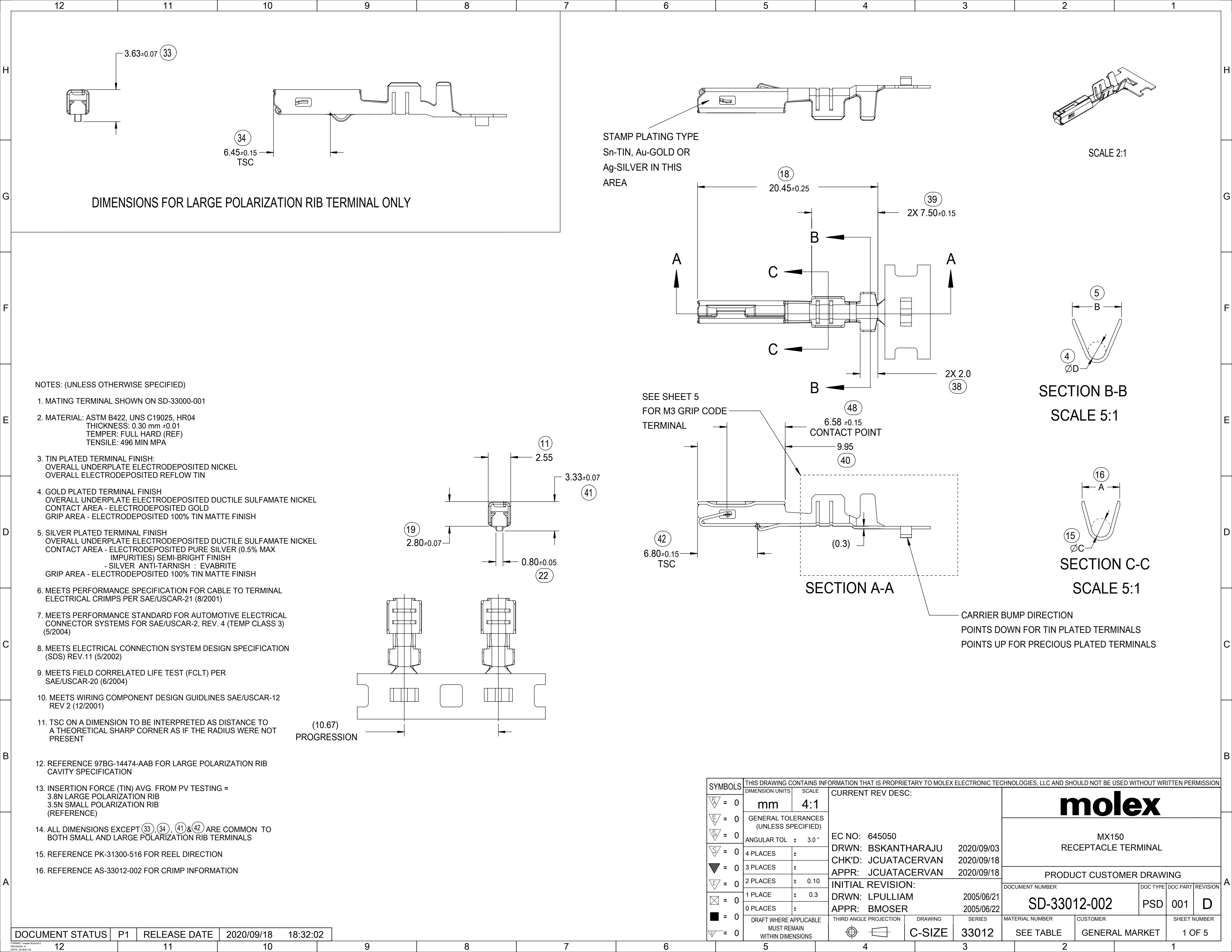
DIMENSION UNITS	SCALE	CURRENT REV DESC:
mm	5:1	
GENERAL TOLERANCES (UNLESS SPECIFIED)		
ANGULAR TOL	± 3	
4 PLACES	±	
3 PLACES	±	
2 PLACES	± 0.10	
1 PLACE	± 0.3	
0 PLACES	±	
DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		

EC NO: 601885		
DRWN: NVENKATESHSH	2018/05/31	
CHK'D: JPRUNEAU	2018/08/09	
APPR: TOMSMITH	2018/08/13	
INITIAL REVISION:		
DRWN: DHEMNANI	2007/04/12	
APPR: BMOSER	2007/04/13	
THIRD ANGLE PROJECTION	DRAWING	SERIES
	C-SIZE	33468

MX64 SAE
RECEPTACLE TERMINAL

PRODUCT CUSTOMER DRAWING

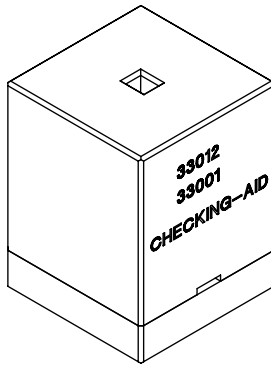
DOCUMENT NUMBER	DOC TYPE	DOC PART	REVISION
SD-33468-001	PSD	001	G3
MATERIAL NUMBER	CUSTOMER	SHEET NUMBER	
SEE TABLE	GENERAL MARKET	1 OF 1	



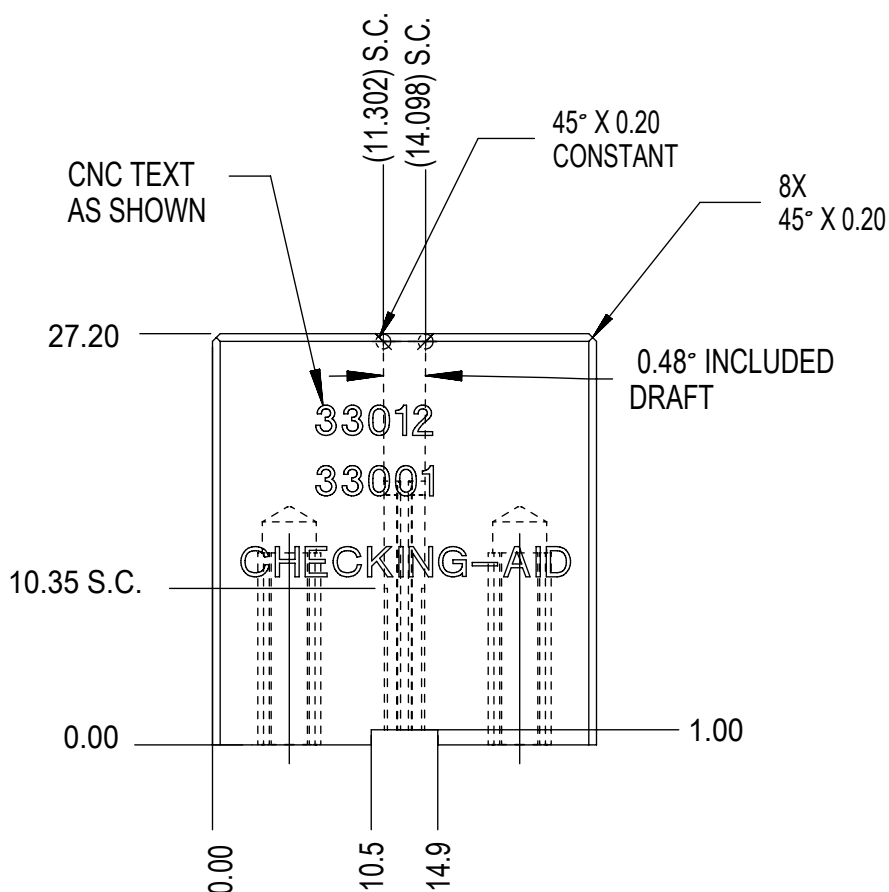
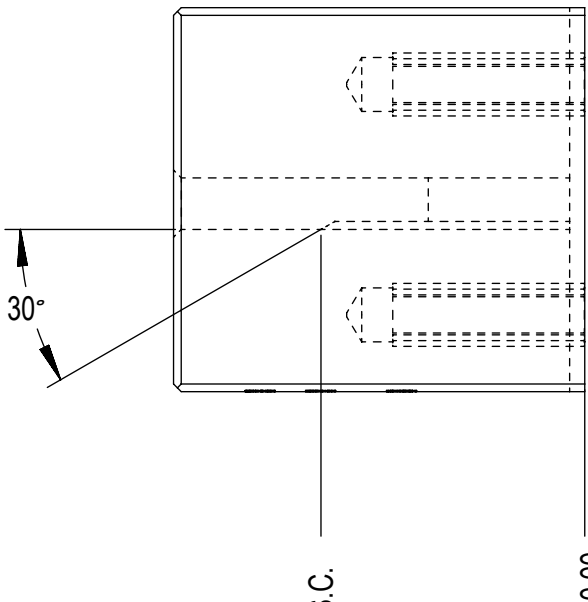
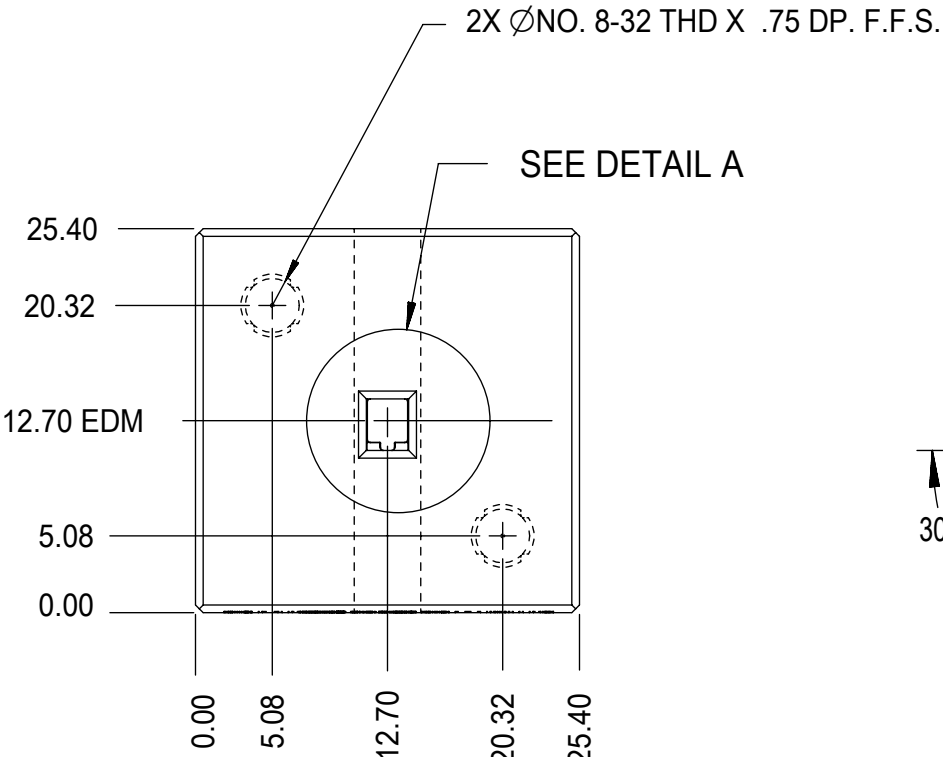
12		11		10		9		8		7		6		5		4		3		2		1																																																																																																																																																	
<table><tr><th>FAMILY</th><th>GENDER</th><th>SEALING</th><th>PLATING</th><th>PART NUMBER</th><th>PAYOFF DIRECTION</th><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 1.25-2.00mm²</td><td>3.9</td><td>4.4</td><td>1.7</td><td>1.6</td><td rowspan="6">HIGH PERFORMANCE Sn</td></tr><tr><td>33012-3001</td><td>LEFT (D)</td><td>20/18AWG 0.75-1.00mm²</td><td>3.3</td><td>3.1</td><td>1.3</td><td>1.4</td></tr><tr><td>33012-2002</td><td>RIGHT (B)</td><td rowspan="2">18</td><td rowspan="2">22AWG</td><td>2.5</td><td>2.6</td><td>0.9</td><td>1.0</td></tr><tr><td>33012-3002</td><td>LEFT (D)</td></tr><tr><td>33012-2003</td><td>RIGHT (B)</td><td rowspan="2">22</td><td rowspan="2">0.35-0.50mm²</td><td>2.5</td><td>2.7</td><td>0.9</td><td>1.54 ±0.1</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 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><td rowspan="6">HIGH PERFORMANCE Au</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 rowspan="2">16/14AWG 1.25-2.00mm²</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></tr><tr><td>33001-3003</td><td>LEFT (D)</td></tr><tr><td>33001-2004</td><td>RIGHT (B)</td><td rowspan="2">18</td><td rowspan="2">20/18AWG 0.75-1.00mm²</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></tr><tr><td>33001-2005</td><td>RIGHT (B)</td><td rowspan="2">22</td><td rowspan="2">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 rowspan="2">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><td rowspan="6">HIGH PERFORMANCE Ag</td></tr><tr><td>33001-3006</td><td>LEFT (D)</td></tr><tr><td>33001-4001</td><td>RIGHT (B)</td><td rowspan="2">14</td><td rowspan="2">16/14AWG 1.25-2.00mm²</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></tr><tr><td>33001-5001</td><td>LEFT (D)</td></tr><tr><td>33001-4002</td><td>RIGHT (B)</td><td rowspan="2">18</td><td rowspan="2">20/18AWG 0.75-1.00mm²</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></tr><tr><td>33001-4003</td><td>RIGHT (B)</td><td rowspan="2">22</td><td rowspan="2">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 rowspan="2">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 1.25-2.00mm²	3.9	4.4	1.7	1.6	HIGH PERFORMANCE Sn	33012-3001	LEFT (D)	20/18AWG 0.75-1.00mm²	3.3	3.1	1.3	1.4	33012-2002	RIGHT (B)	18	22AWG	2.5	2.6	0.9	1.0	33012-3002	LEFT (D)	33012-2003	RIGHT (B)	22	0.35-0.50mm²	2.5	2.7	0.9	1.54 ±0.1	33012-3003	LEFT (D)	33012-2004	RIGHT (B)	M3	2.5	2.7	0.9	1.54 ±0.1	HIGH PERFORMANCE Au	33012-3004	LEFT (D)	33001-2003	RIGHT (B)	14	16/14AWG 1.25-2.00mm²	3.9	4.4	1.7	1.6	33001-3003	LEFT (D)	33001-2004	RIGHT (B)	18	20/18AWG 0.75-1.00mm²	3.3	3.1	1.3	1.4	33001-3004	LEFT (D)	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	HIGH PERFORMANCE Ag	33001-3006	LEFT (D)	33001-4001	RIGHT (B)	14	16/14AWG 1.25-2.00mm²	3.9	4.4	1.7	1.6	33001-5001	LEFT (D)	33001-4002	RIGHT (B)	18	20/18AWG 0.75-1.00mm²	3.3	3.1	1.3	1.4	33001-5002	LEFT (D)	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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LARGE POLARIZATION RIB - NOT TO BE USED IN MX150 SEALED CONNECTORS																																																																																																																																																																							
MX150	RECEPTACLE	UNSEALED	Sn	33012-2021	RIGHT (B)	14	16/14AWG 1.25-2.00mm²	3.9	4.4	1.7	1.6	HIGH PERFORMANCE Sn																																																																																																																																																											
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			33001-2022	RIGHT (B)	18	22AWG 0.35-0.50mm²	2.5	2.6	0.9	1.0																																																																																																																																																													
			33001-3022	LEFT (D)																																																																																																																																																																			
			33001-2023	RIGHT (B)	22	16/14AWG 1.25-2.00mm²	3.9	4.4	1.7	1.6																																																																																																																																																													
			33001-3023	LEFT (D)																																																																																																																																																																			
			33001-4021	RIGHT (B)	14	20/18AWG 0.75-1.00mm²	3.3	3.1	1.3	1.4																																																																																																																																																													
			33001-5021	LEFT (D)																																																																																																																																																																			
			33001-4022	RIGHT (B)	18	22AWG 0.35-0.50mm²	2.5	2.6	0.9	1.0																																																																																																																																																													
33001-5022	LEFT (D)																																																																																																																																																																						
33001-4023	RIGHT (B)	22	16/14AWG 1.25-2.00mm²	3.9	4.4	1.7	1.6																																																																																																																																																																
33001-5023	LEFT (D)																																																																																																																																																																						

* 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																																																																																																																																																																																																																																									
																---	---	--	-------	----------------------------	---	--	--	------------------------	--	--	--	--	--		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 MX150 RECEPTACLE TERMINAL PRODUCT CUSTOMER DRAWING							mm															GENERAL TOLERANCES (UNLESS SPECIFIED)				EC NO: 645050 DRWN: BSKANTHARAJU 2020/09/03 CHK'D: JCUATACERVAN 2020/09/18 APPR: JCUATACERVAN 2020/09/18											ANGULAR TOL ± 3.0°															4 PLACES ±				INITIAL REVISION:											3 PLACES ±															2 PLACES ± 0.10				DRWN: LPULLIAM 2005/06/21 APPR: BMOSER 2005/06/22											1 PLACE ± 0.3															0 PLACES ±				MATERIAL NUMBER SEE TABLE										DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS				CUSTOMER GENERAL MARKET																			SHEET NUMBER 2 OF 5																													
DOCUMENT STATUS		P1	RELEASE DATE	2020/09/18	18:32:02																																																																																																																																																																																																																																				

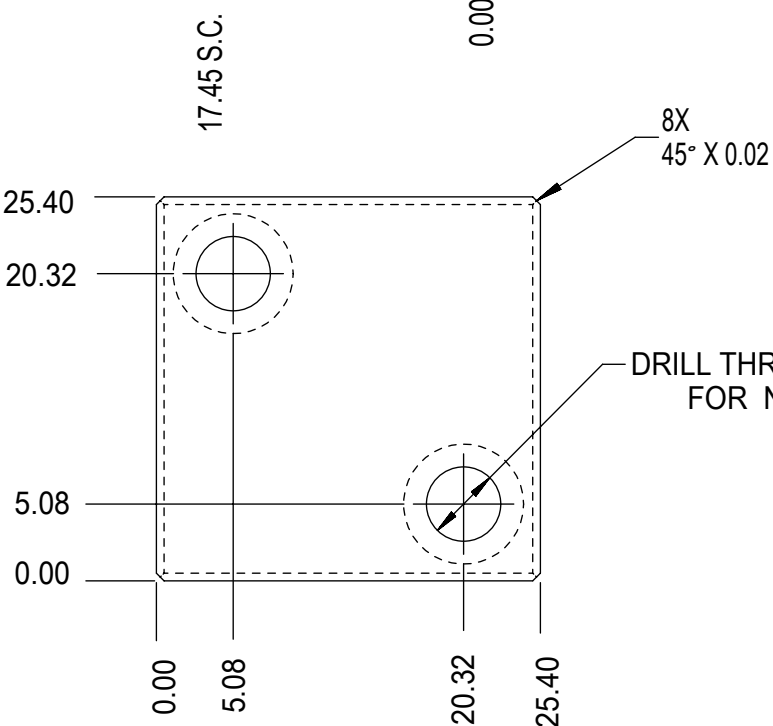
THIS CHECKING - AID IS FOR SMALL POLARIZATION RIB TERMINALS ONLY



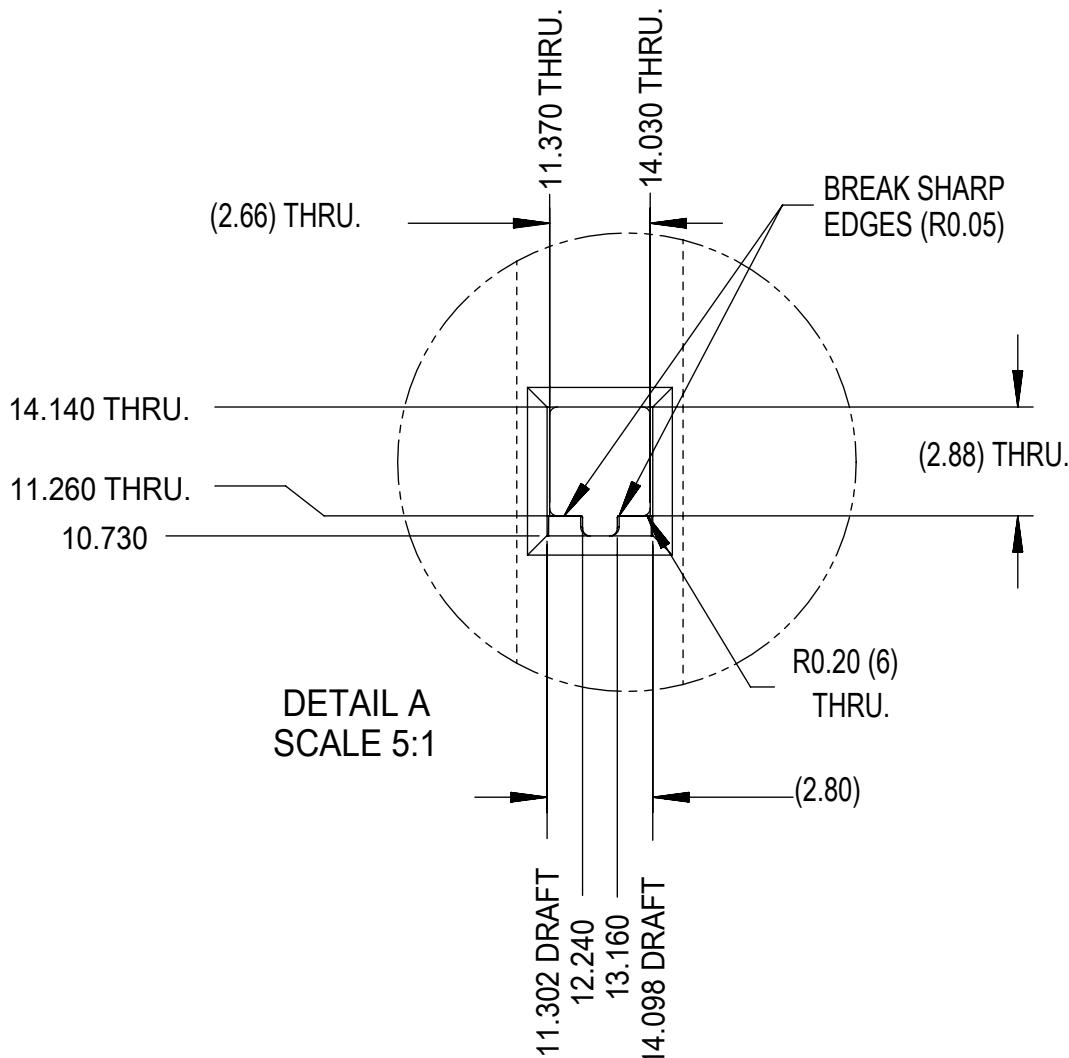
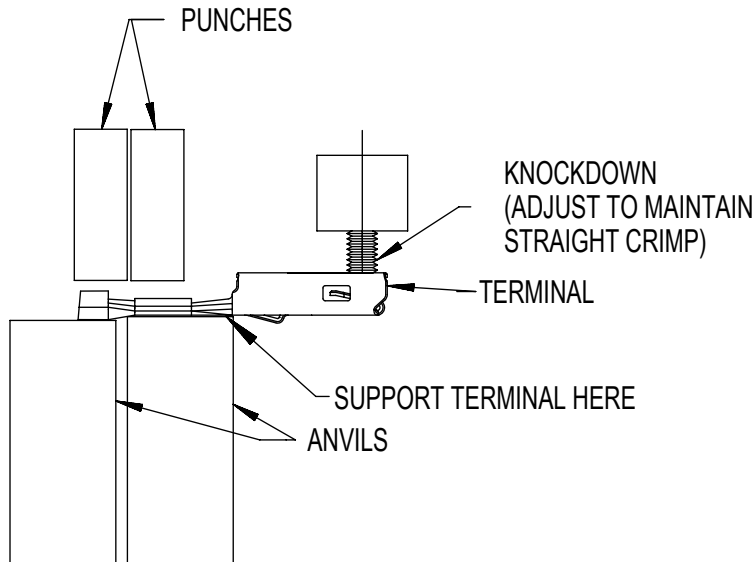
CHECKING - AID ASSEMBLY
SCALE 1:1



CHECKING - AID
UPPER



CHECKING - AID
LOWER



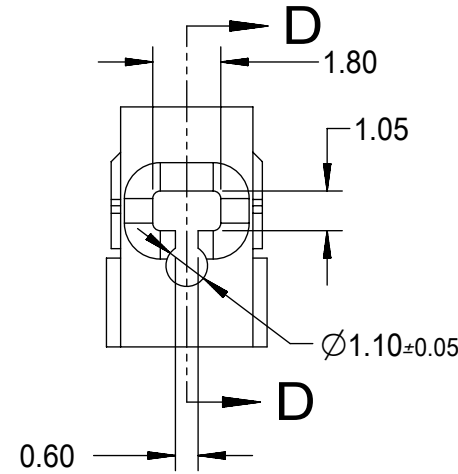
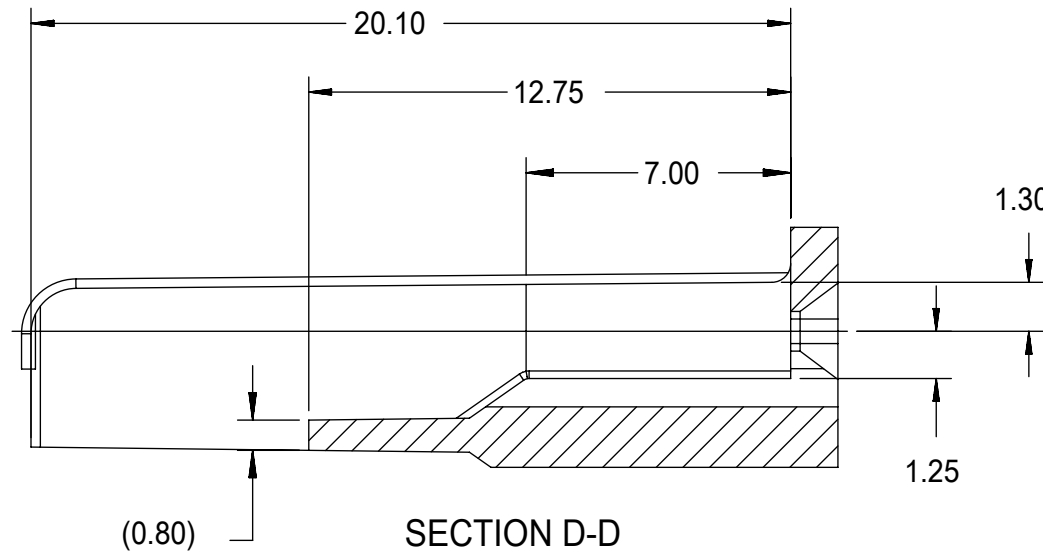
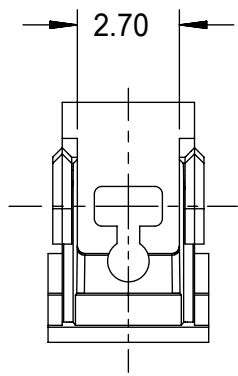
DETAIL A
SCALE 5:1

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)

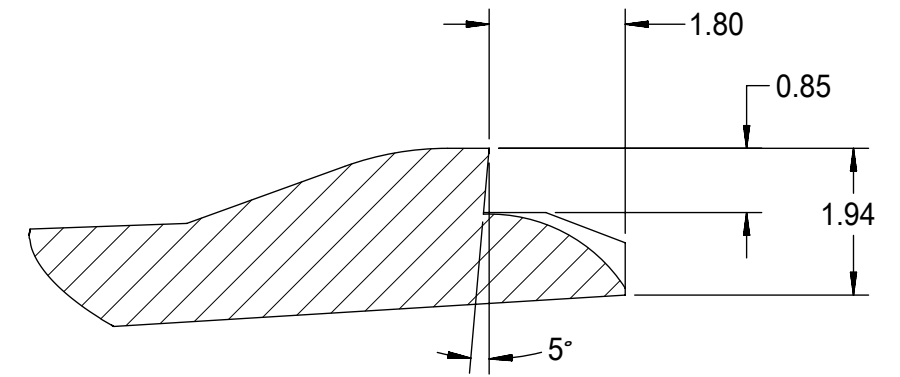
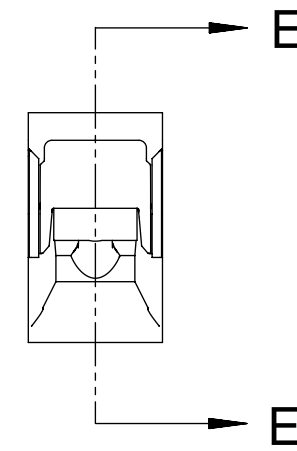
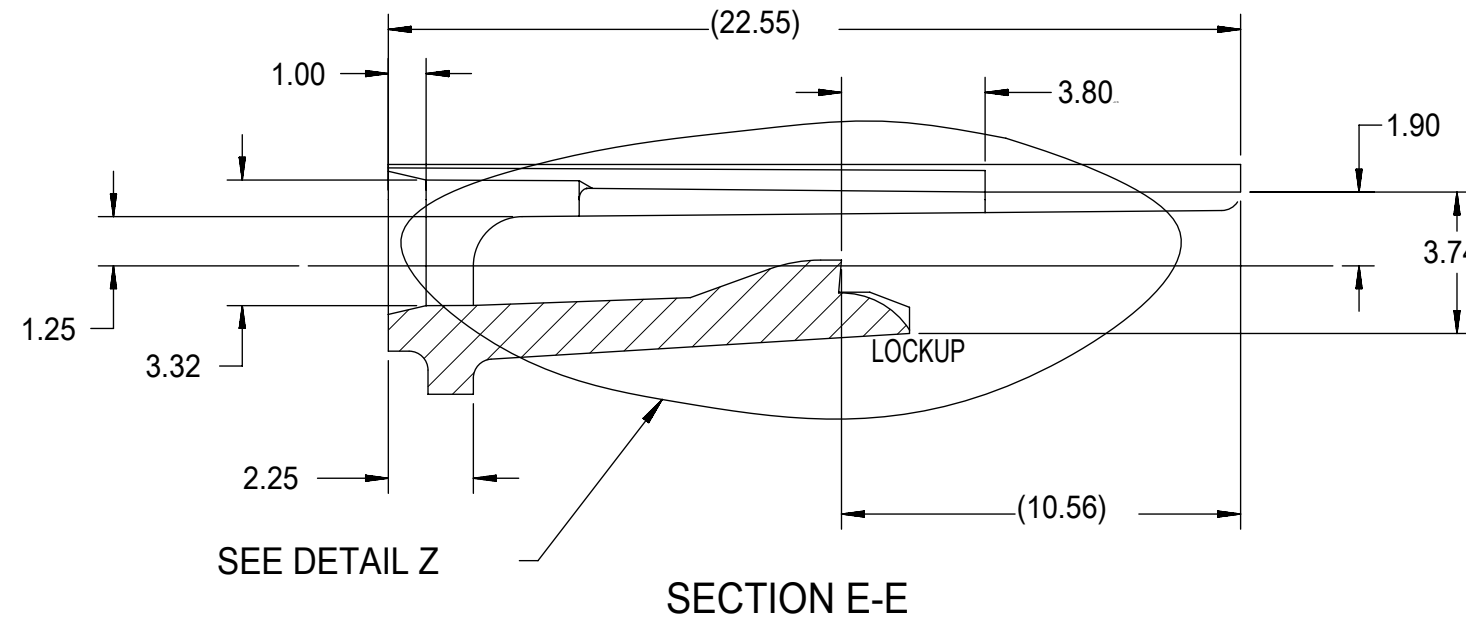
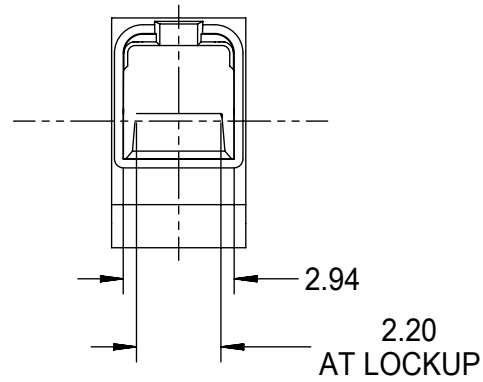
UPPER & LOWER
CHECKING-AID
A2 TOOL STEEL
HARDEN & GRIND
ROCKWELL "C" 56-58

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:				DOCUMENT NUMBER		DOC TYPE		DOC PART		REVISION					
3 PLACES ±																	
2 PLACES ± 0.10		DRWN: LPULLIAM 2005/06/21 APPR: BMOSER 2005/06/22				SD-33012-002		PSD		001		D					
1 PLACE ± 0.3																	
0 PLACES ±		DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS				THIRD ANGLE PROJECTION		DRAWING		SERIES		MATERIAL NUMBER		CUSTOMER		SHEET NUMBER	
C-SIZE		33012		SEE TABLE		GENERAL MARKET		3 OF 5									

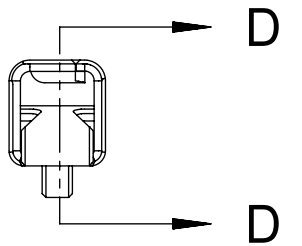
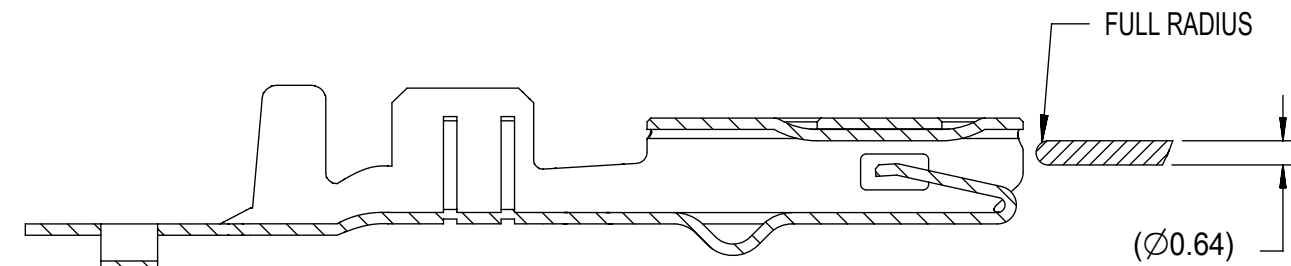
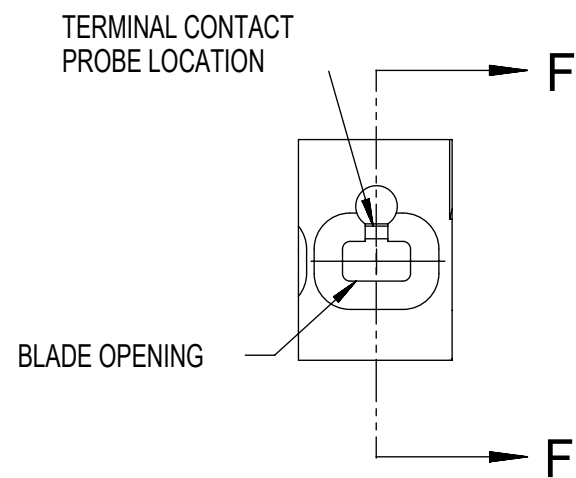
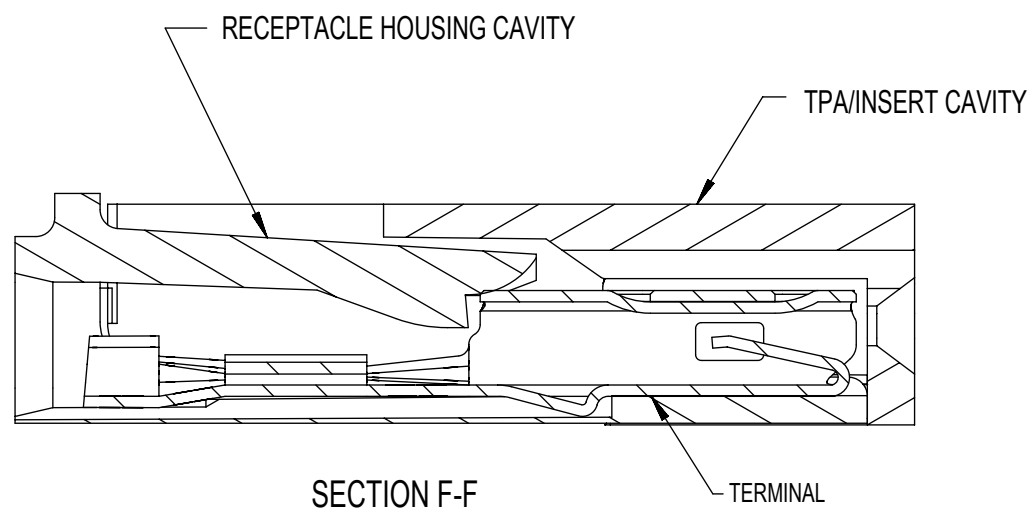


NOTES: UNLESS OTHERWISE SPECIFIED

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

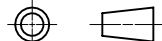


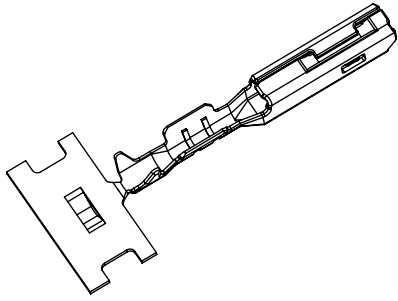
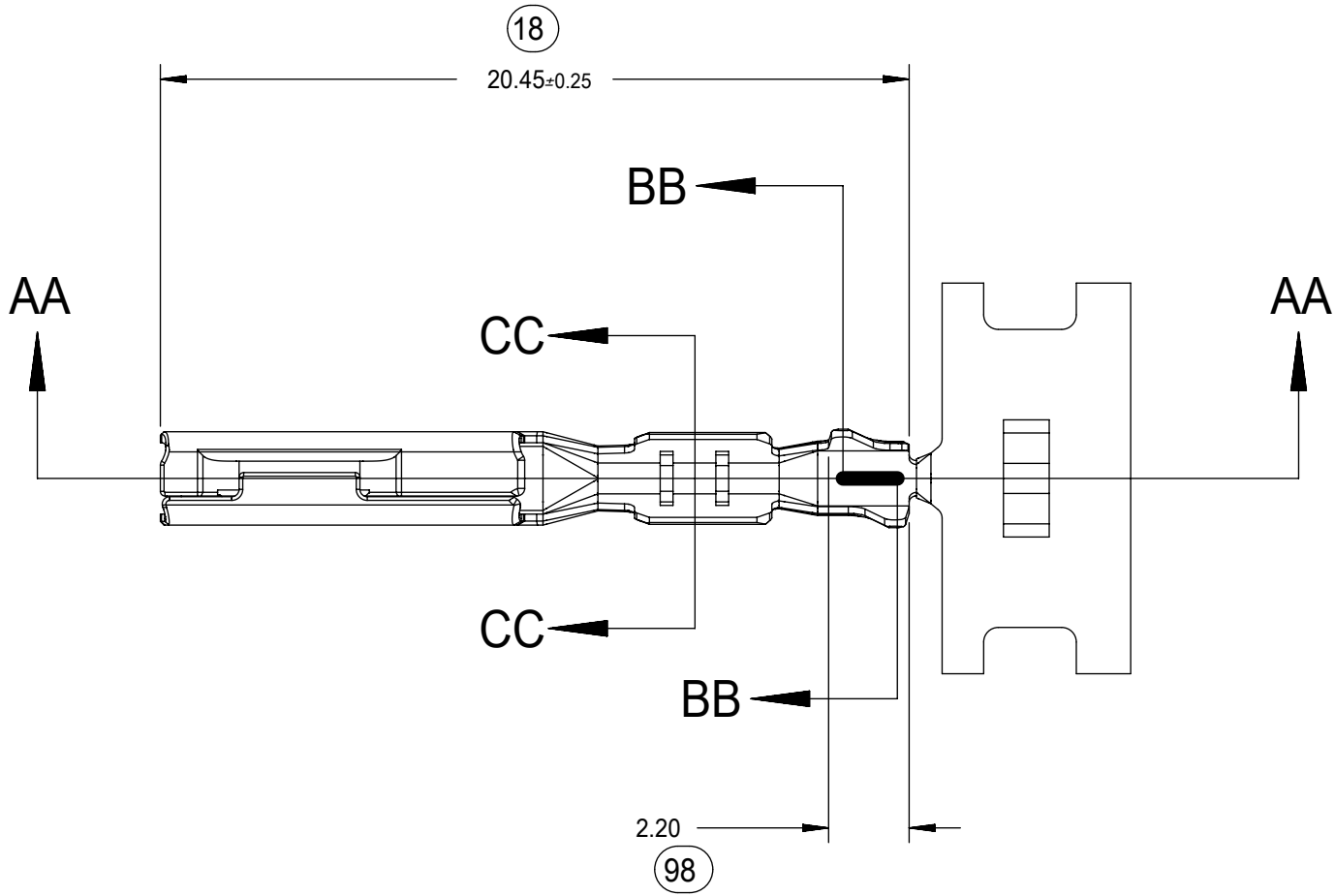
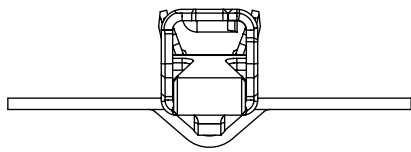
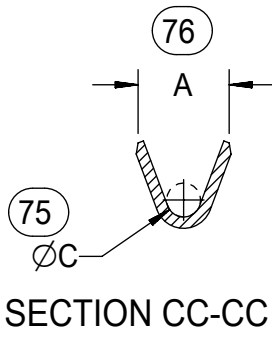
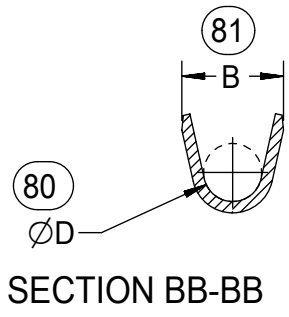
PREFERRED PROBING LOCATION
IS NOT ON SPRING MEMBER

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

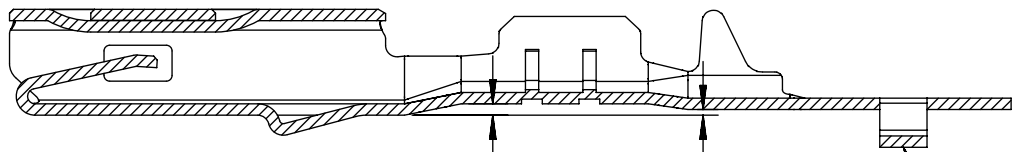
PROBING DOWN THE
THROAT MUST USE
THIS TERMINAL PROBE

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

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							
= 0		mm		5:1													
= 0		GENERAL TOLERANCES (UNLESS SPECIFIED)															
= 0		ANGULAR TOL ± 3.0 °															
= 0		4 PLACES		±		EC NO: 645050		DRWN: BSKANTHARAJU 2020/09/03		MX150 RECEPTACLE TERMINAL							
= 0		3 PLACES		±		CHK'D: JCUATACERVAN 2020/09/18											
= 0		2 PLACES		± 0.10		APPR: JCUATACERVAN 2020/09/18											
= 0		1 PLACE		± 0.3		INITIAL REVISION:				PRODUCT CUSTOMER DRAWING							
= 0		0 PLACES		±		DRWN: LPULLIAM 2005/06/21											
= 0		DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		THIRD ANGLE PROJECTION		DRAWING		SERIES		DOCUMENT NUMBER		DOC TYPE		DOC PART		REVISION	
= 0						C-SIZE		33012		SD-33012-002		PSD		001		D	
= 0										MATERIAL NUMBER		CUSTOMER				SHEET NUMBER	
= 0										SEE TABLE		GENERAL MARKET				4 OF 5	



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												
	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 PSD	DOC PART 001	REVISION D			
	0 PLACES		±										
	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	

molex

MX150
RECEPTACLE TERMINAL

PRODUCT CUSTOMER DRAWING

DOCUMENT NUMBER		DOC TYPE	DOC PART	REVISION
SD-33012-002		PSD	001	D

MATERIAL NUMBER	CUSTOMER	SHEET NUMBER	
SEE TABLE	GENERAL MARKET	5 OF 5	

TABLE OF CONTENTS	
SHEET NO.	SHEET DESCRIPTION
1	NOTES AND BOM
2	CONFIGURATIONS
3-4	KEY CONFIGURATIONS
5	BLADE SEALED ASSEMBLY
6	SYSTEM PACKAGING
7	BACKSHELL NOTES
8	BACKSHELL
9	BACKSHELL CONFIGURATIONS

NOTES: VALID UNLESS OTHERWISE SPECIFIED

1. GENERAL:
- a. APPLICATION SPECIFICATION SEE: AS-33472-100
- CONTAINS: PRODUCT INTRODUCTION, PRODUCT SUMMARY, CONNECTOR ASSEMBLY, PACKAGING INFORMATION, CONNECTOR MATING, SERVICE INSTRUCTIONS, ELECTRICAL CONTINUITY CHECKING, CRIMPING, AND TROUBLESHOOTING.
 - DESIGNED TO MATE WITH RECEPTACLE SEALED ASSEMBLY AS SPECIFIED IN THE MATING CONNECTOR DRAWINGS CHART.
 - *DENOTES DRAWINGS THAT CAN BE ACCESSED AT <http://ewcap.uscarteams.org/>
 - ASSEMBLY SHIPPED WITH PLR IN PRE-LOCK POSITION (SEE PLR PRE-LOCK VIEW SHEET 5).
- b. PRODUCT SPECIFICATION SEE:
- STANDARD CONFIGURATION: PS-33471-000
 - UL V0 CONFIGURATION: PS-160105-0001
 - CONTAINS: PRODUCT INTRODUCTION, PRODUCT SUMMARY, RATINGS (CURRENT, TEMPERATURE, SEALING, AND FLAMMABILITY), TERMINALS, WIRE DIAMETER RANGE, PRODUCT VALIDATION, AND PRODUCT DEVIATIONS.
- c. PACKAGING SPECIFICATION PER MOLEX DRAWING: PK-31300-635 (PK-33471-000 FOR 1X5)
- d. PARTS MUST BE IN COMPLIANCE TO MOLEX CHEMICAL SUBSTANCES FOR PRODUCTS AND PACKAGING SPECIFICATION: QEHS-699000-300
- e. DATA MUST BE SUBMITTED UNDER THE MOLEX PART NUMBER TO IMDS (COMPANY ID#13255)

2. DESIGN - MATERIALS:

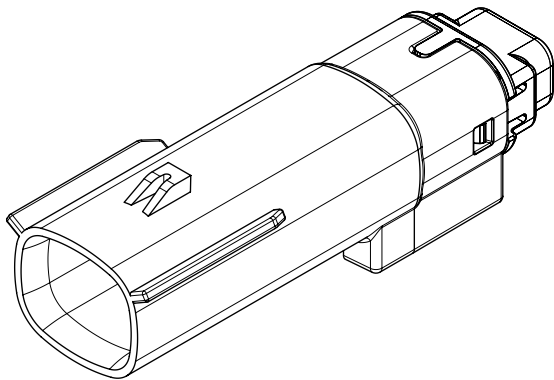
- a. FOR BILL OF MATERIALS SEE:
- STANDARD CONFIGURATION: SD-33481-0002
 - UL V0 CONFIGURATION: SD-160106-0002

3. DESIGN - GEOMETRY:

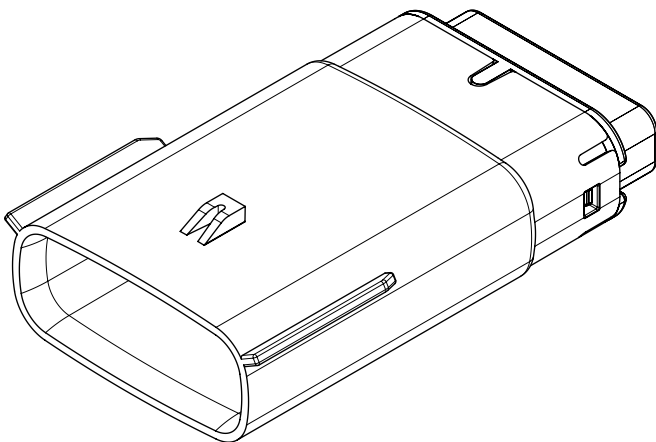
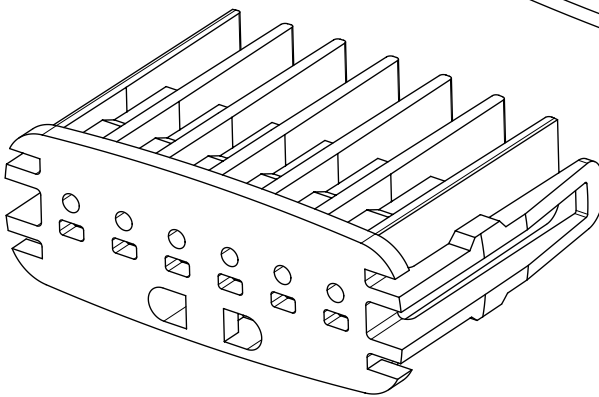
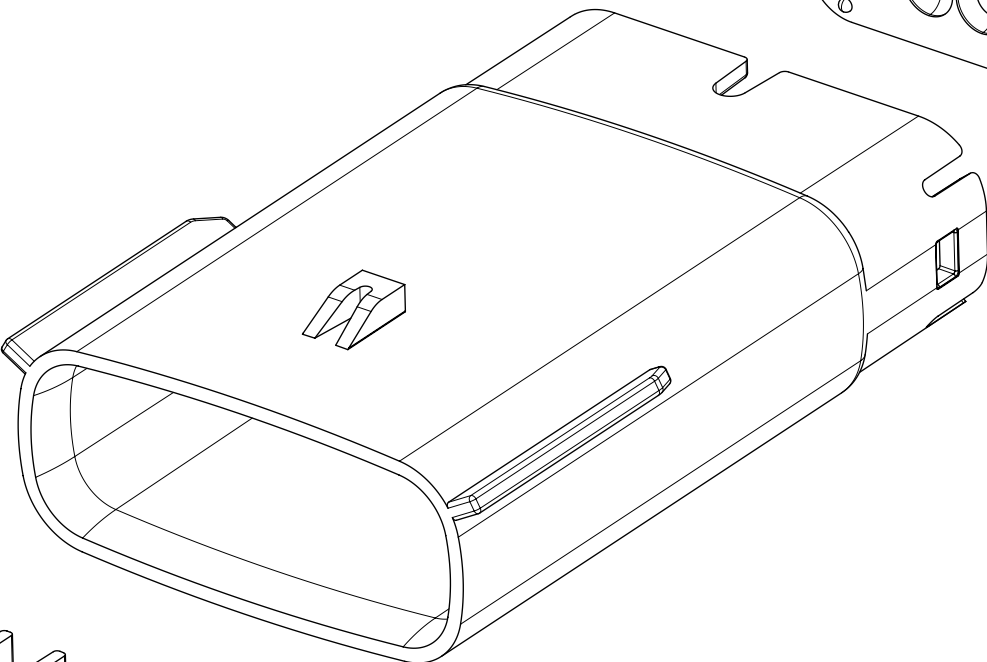
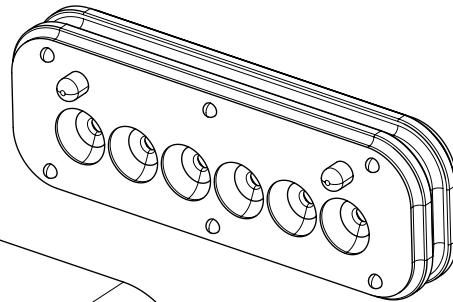
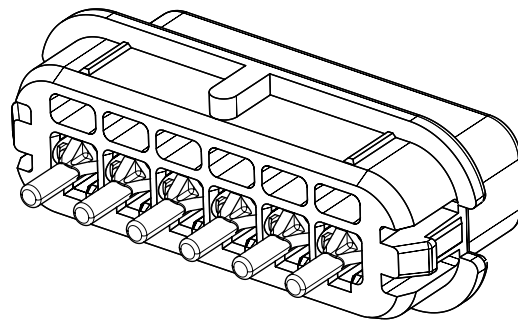
- a. THE 3-D CAD DATA IS BASIC (WITHOUT TOLERANCE) AND MASTER FOR THIS PART WITH THE EXCEPTION OF UNDERLINED DIMENSIONS. DIMENSIONAL INFORMATION NOT SHOWN ON THIS DRAWING IS DEFINED BY THE DATA FILE AT ITS LATEST REVISION.
- b. GEOMETRIC DIMENSIONS AND TOLERANCES PER ASME Y14.5M-2009
- c. EDGES AND UNDIMENSIONED DETAILS PER ISO13715
- d. CORNERS SHOWN AS SHARP TO BE R 0.2 MAX.
- e. LETTERING SHALL BE 0.15 MAX RAISED IN 0.25 MAX RECESS PAD. THIS INCLUDES RECYCLING CODE, CAVITY ID, VENDOR IDENTIFICATION, AND CUSTOMER MATERIAL NUMBER.
- f. VISUAL DEFECTS SHALL MEET COSMETIC STANDARD PS-45499-002 (Class B).
- g. LASER MARKING:
- PART NUMBER
 - DAY OF THE YEAR
 - SHIFT
 - YEAR
- FOR ADDITIONAL INFORMATION SEE SECTION 5 UNDER PROCEDURES IN ES-34735-008.

MATING CONNECTOR DRAWINGS

DESCRIPTION	MOLEX INLINE
1X2	SD-33471-0001
1X6	SD-33471-0001



1X2



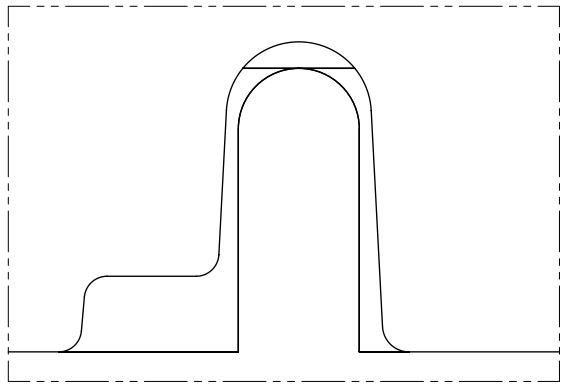
1X6

INSPECTION NUMBER LOG	
LAST NUMBER: 9	
ADDED:	
REMOVED:	

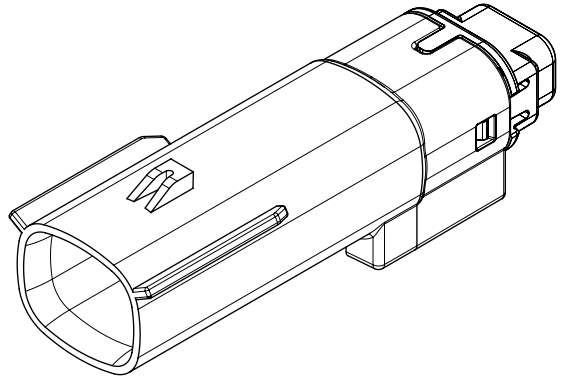
A1	NX REMASTERING , CHANGE PS DRAWING NUMBER FROM PS-160105-0001 TO PS-160074-0001 IN NOTES 1.b
A	MINOR GEOMETRY CHANGE FOR UL V0
2	UPDATED VIEWSETS
1	INITIAL RELEASE
REV	REV DESCRIPTION

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:				molex						
	= 0	MM ONLY		1.5:1												
	= 0	GENERAL TOLERANCES (UNLESS SPECIFIED)				EC NO: 602373				MX150 BLADE SINGLE ROW SEALED ASSY MAT SEAL						
	= 0	ANGULAR TOL ± 1.0 °														
	= 0	4 PLACES		±		DRWN: DSHETTY01 2018/05/25				PRODUCT CUSTOMER DRAWING						
	= 0	3 PLACES		±		CHK'D: MVANSLAMBROU 2018/10/04										
	= 0	2 PLACES		± 0.1		APPR: MVANSLAMBROU 2018/10/04				DOCUMENT NUMBER				DOC TYPE	DOC PART	REVISION
	= 0	1 PLACE		± 0.2		INITIAL REVISION:								SD-33481-0001		
	= 0	0 PLACES		±		DRWN: APROFFITT 2015/07/21										
	= 0	DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS				APPR: KDEKOSKI 2016/06/14				MATERIAL NUMBER		CUSTOMER		SHEET NUMBER		
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	= 0					A1-SIZE		33481		SEE NOTE 2a.		GENERAL MARKET		1 OF 9		

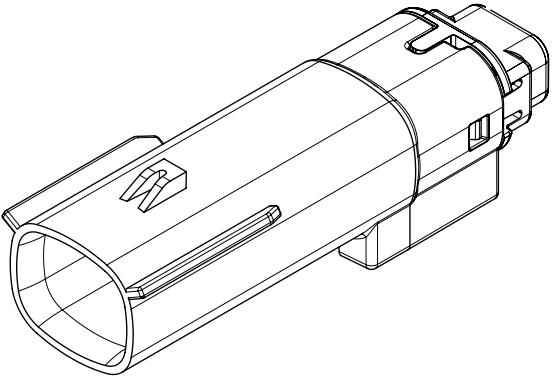
SHEET DESCRIPTION
CONFIGURATIONS



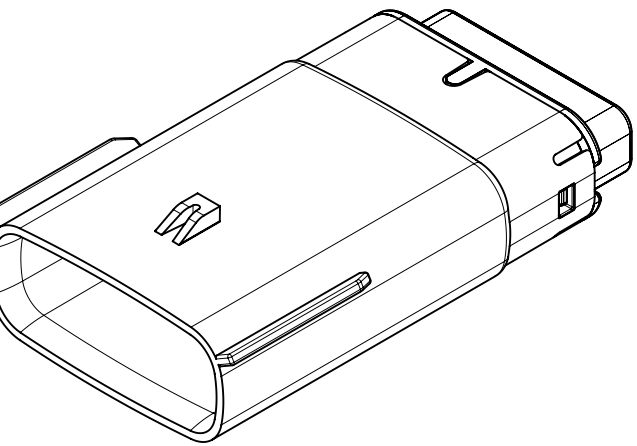
UL V0 UNIQUE FEATURE
Partial1
SCALE 10:1



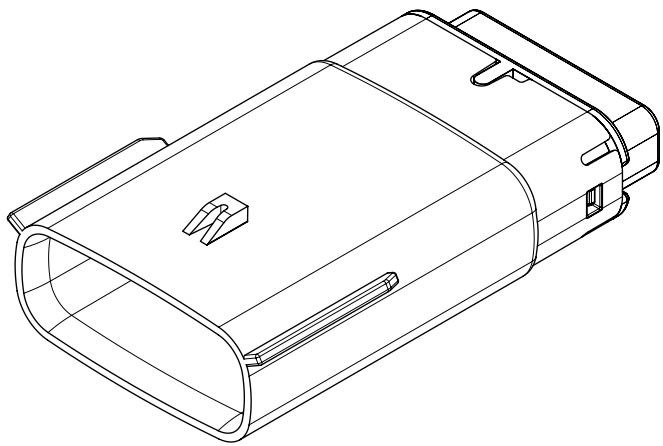
1x2 - STD



1X2 - UL V0*



1x6 - STD

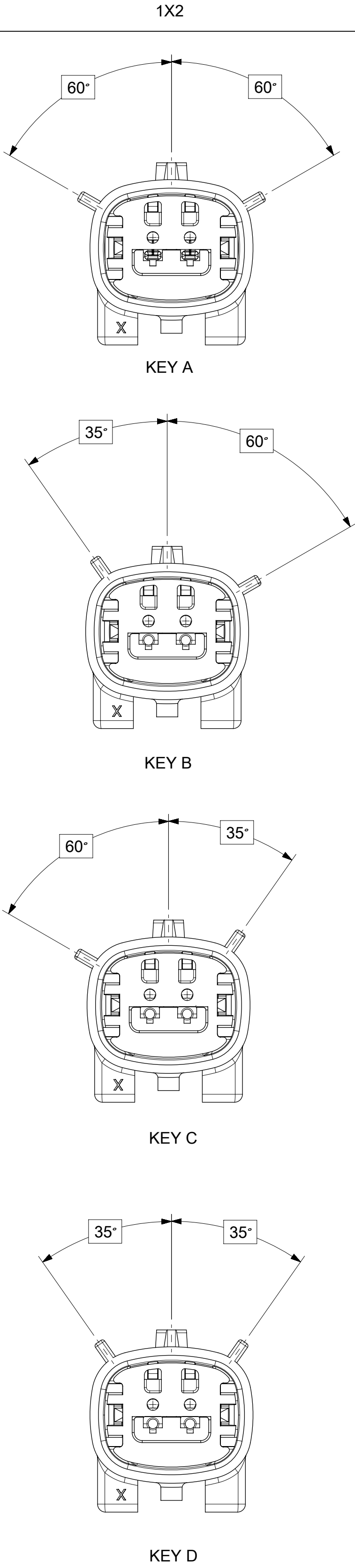


1x6 - UL V0*

* MINOR GEOMETRY DIFFERENCE THAN STANDARD CONFIGURATION.
SEE NOTES 1 & 2 FOR MORE INFORMATION

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:									
 = 0		MM ONLY		1.5:1											
 = 0		GENERAL TOLERANCES (UNLESS SPECIFIED)				EC NO: 602373 DRWN: DSHETTY01 2018/05/25 CHK'D: MVANSLAMBROU 2018/10/04 APPR: MVANSLAMBROU 2018/10/04									
 = 0		ANGULAR TOL ± 1.0 °													
 = 0		4 PLACES		±		MX150 BLADE SINGLE ROW SEALED ASSY MAT SEAL									
 = 0		3 PLACES		±											
 = 0		2 PLACES		± 0.1		PRODUCT CUSTOMER DRAWING									
 = 0		1 PLACE		± 0.2											
 = 0		0 PLACES		±		DOCUMENT NUMBER SD-33481-0001									
 = 0		DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS										DOC TYPE		DOC PART	
 = 0		THIRD ANGLE PROJECTION				DRAWING		SERIES		MATERIAL NUMBER		CUSTOMER		SHEET NUMBER	
 = 0						A1-SIZE		33481		SEE NOTE 2a.		GENERAL MARKET		2 OF 9	
 = 0															

SHEET DESCRIPTION
KEY CONFIGURATIONS



SYMBOLS	THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX ELECTRONIC TECHNOLOGIES, LLC AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION	
	DIMENSION UNITS	SCALE
= 0	MM ONLY	3:1
= 0	GENERAL TOLERANCES (UNLESS SPECIFIED)	
= 0	ANGULAR TOL	± 1.0 °
= 0	4 PLACES	±
= 0	3 PLACES	±
= 0	2 PLACES	± 0.1
= 0	1 PLACE	± 0.2
= 0	0 PLACES	±
= 0	DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS	
= 0	THIRD ANGLE PROJECTION	DRAWING
		A1-SIZE
	SERIES	33481
	MATERIAL NUMBER	SEE NOTE 2a.
	CUSTOMER	GENERAL MARKET
	SHEET NUMBER	3 OF 9

CURRENT REV DESC:

EC NO: 602373
DRWN: DSHETTY01 2018/05/25
CHK'D: MVANSLAMBROU 2018/10/04
APPR: MVANSLAMBROU 2018/10/04

INITIAL REVISION:
DRWN: APROFFITT 2015/07/21
APPR: KDEKOSKI 2016/06/14

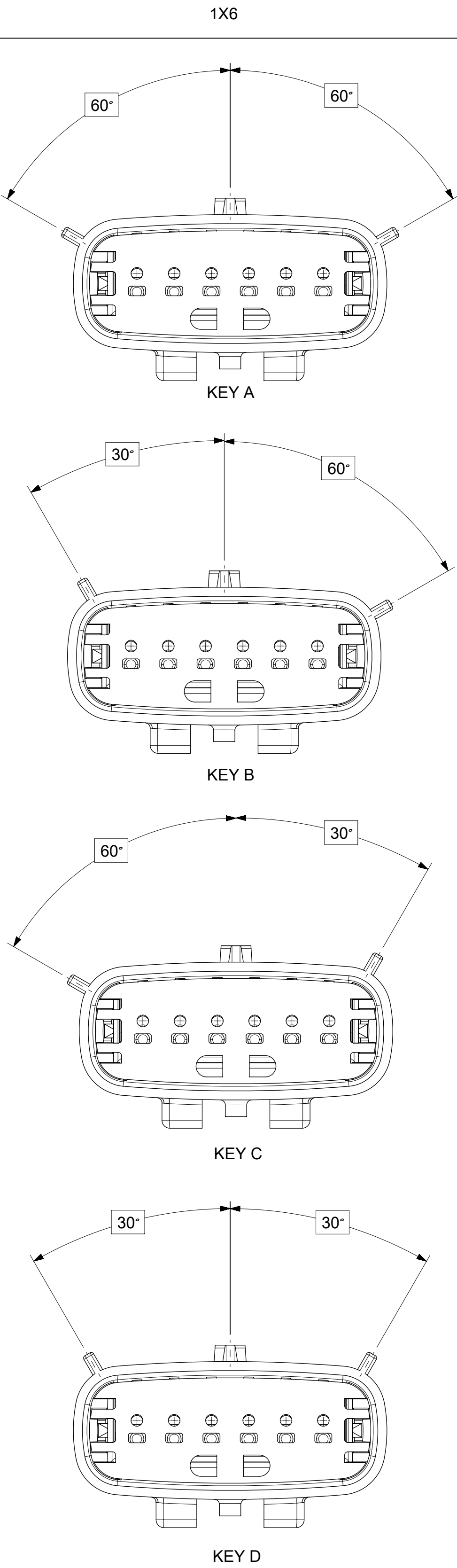
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SD-33481-0001		PSD	001	A1

molex

MX150 BLADE
SINGLE ROW SEALED ASSY MAT SEAL

DOCUMENT STATUS	P1	RELEASE DATE	2018/10/04	15:02:02
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SHEET DESCRIPTION
KEY CONFIGURATIONS CONT.



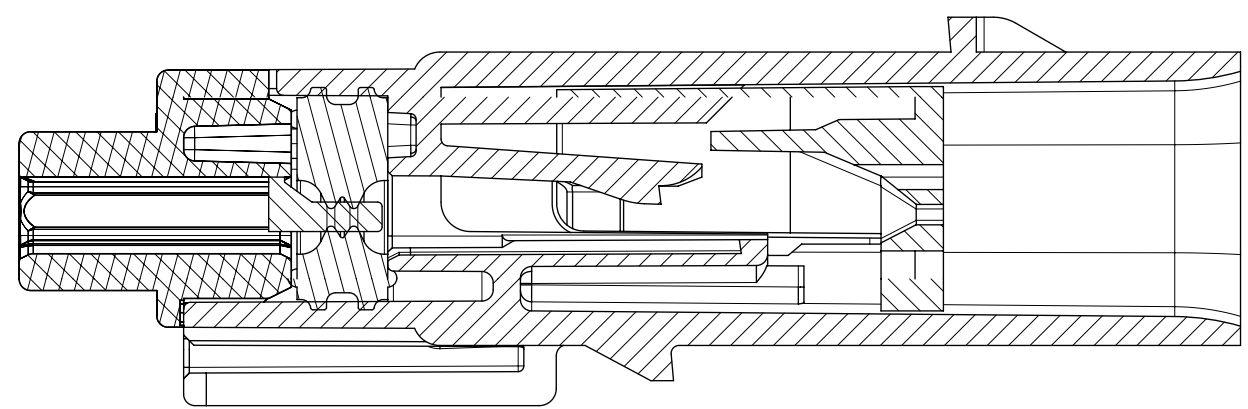
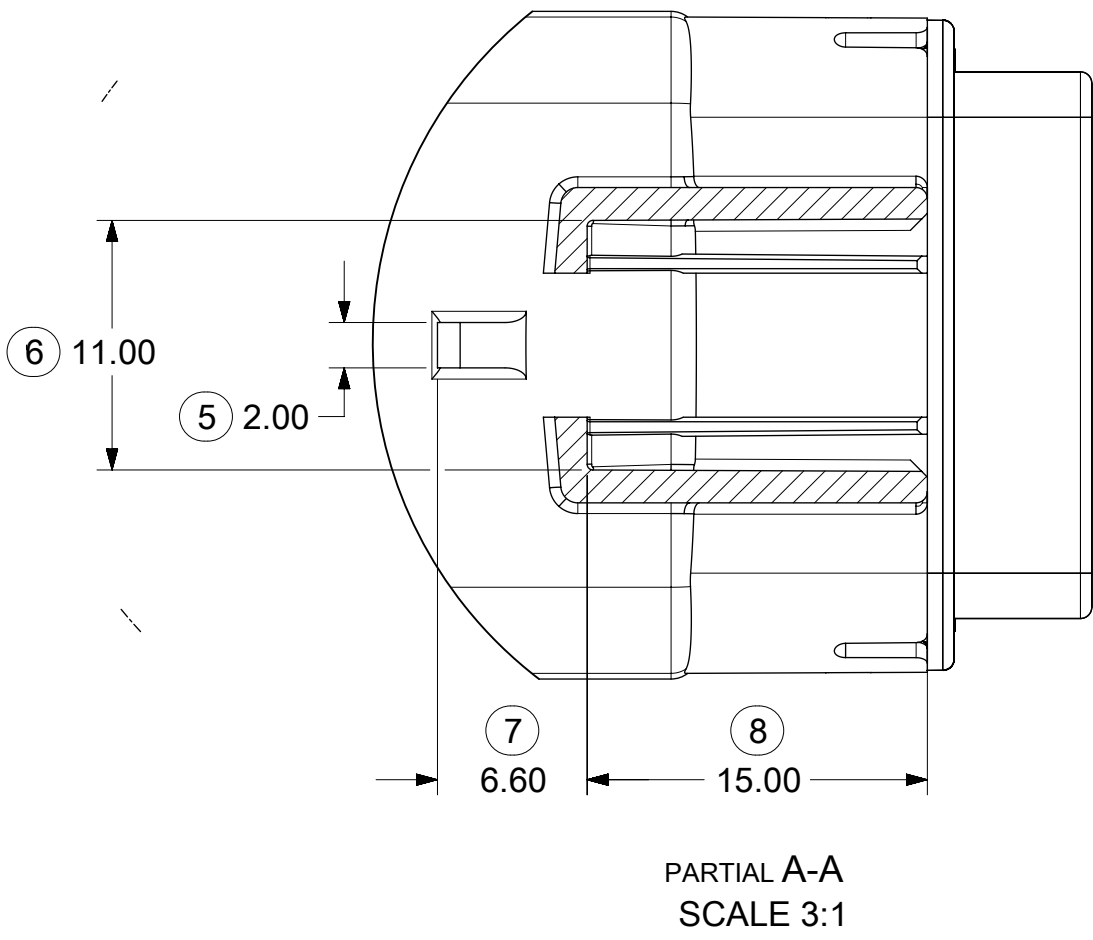
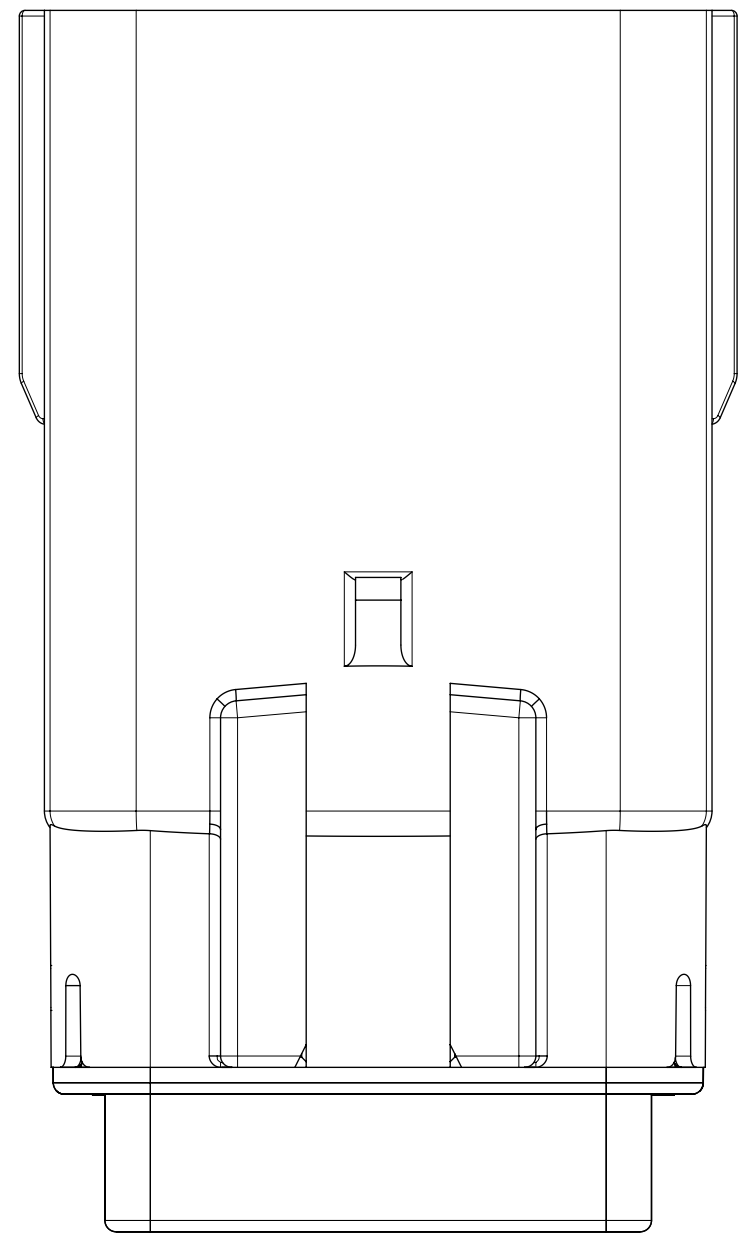
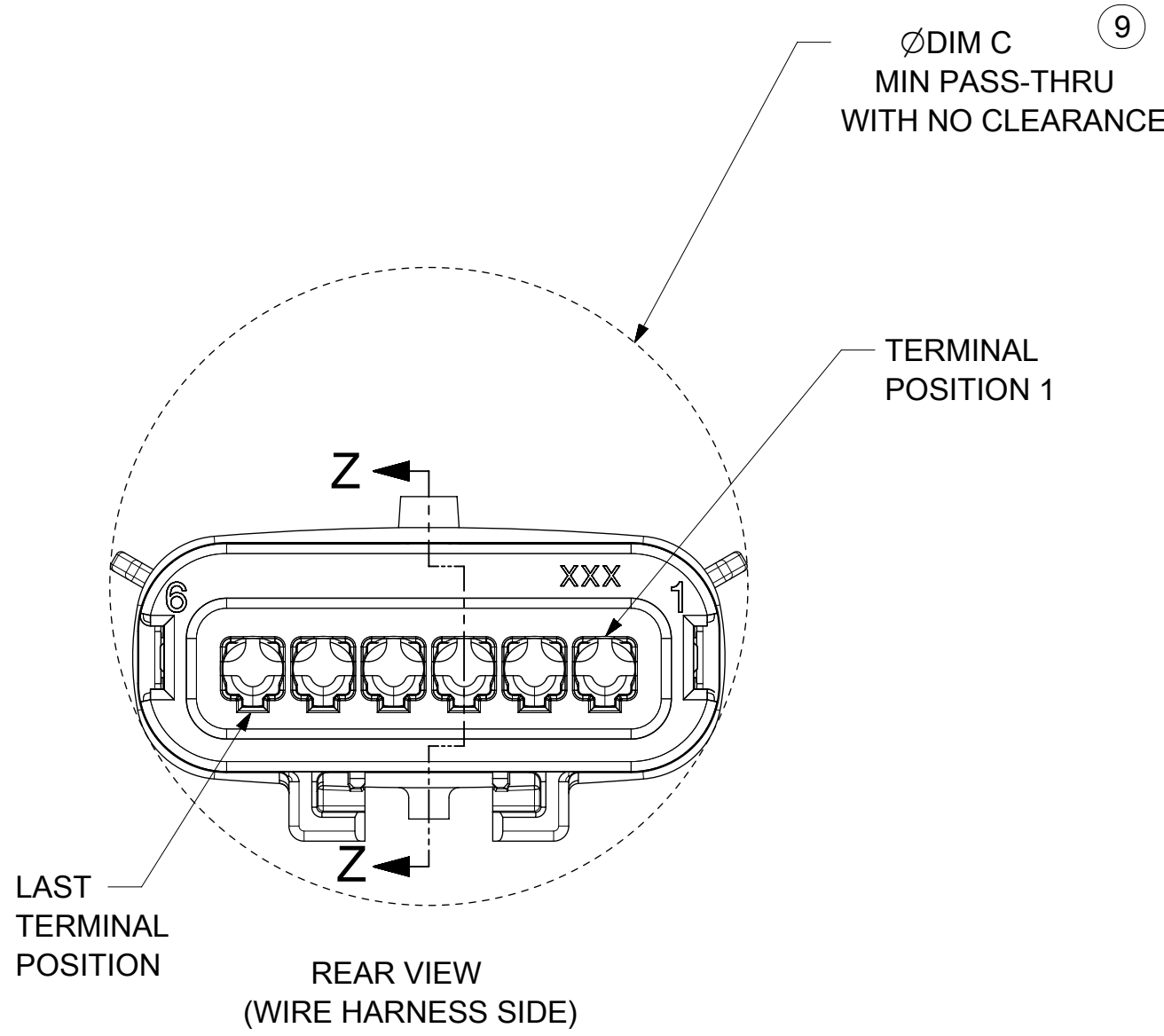
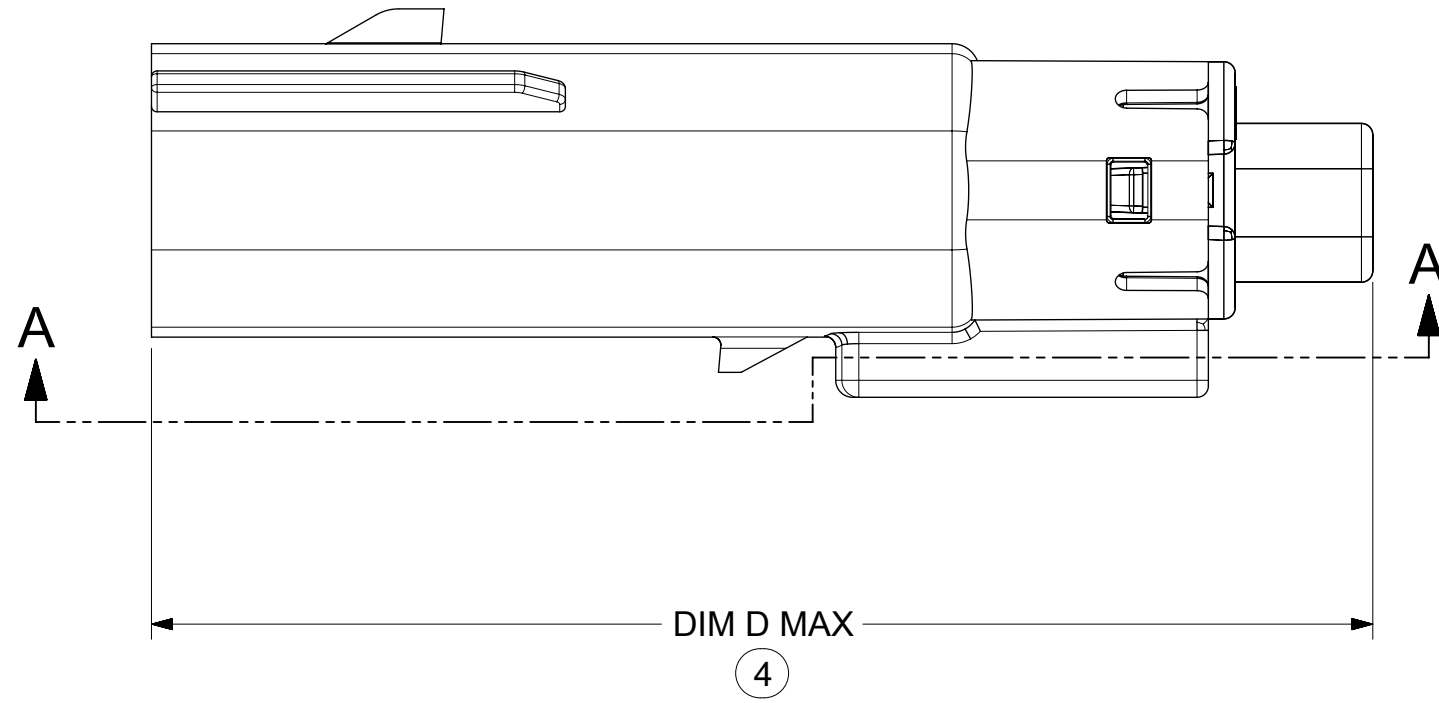
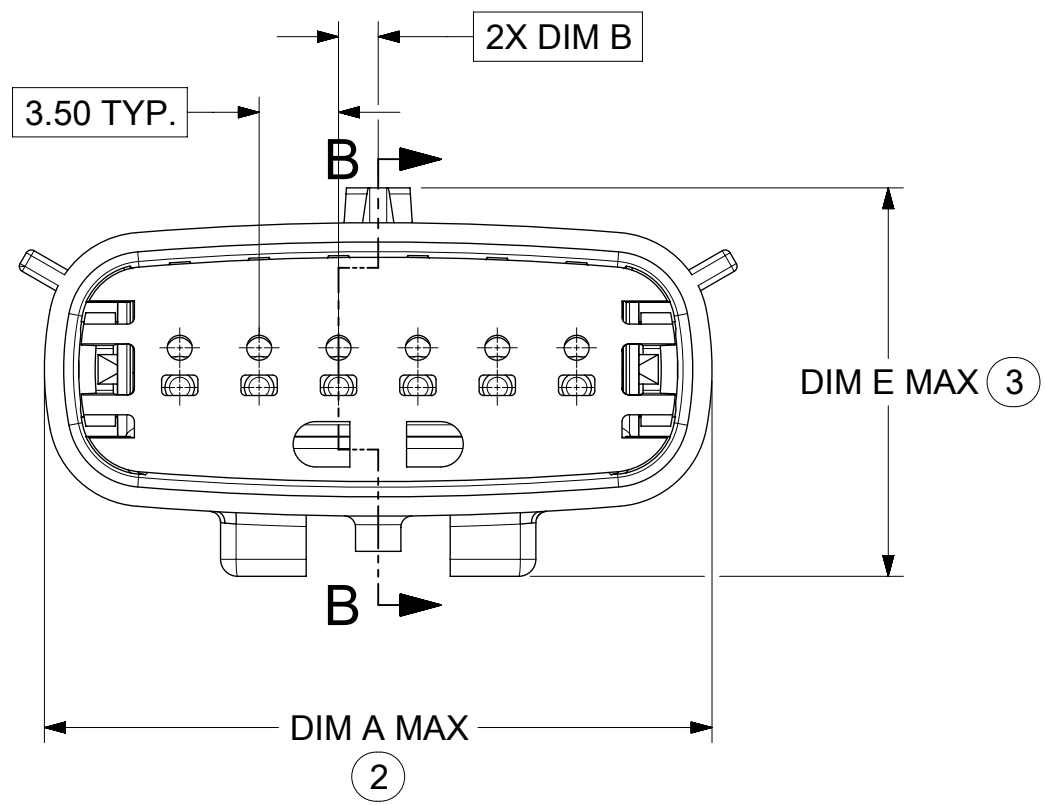
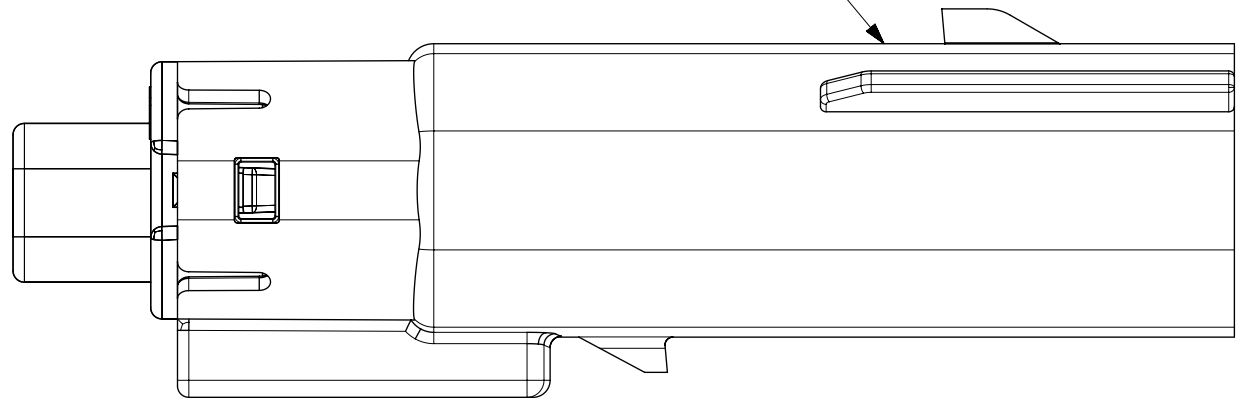
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SHEET DESCRIPTION

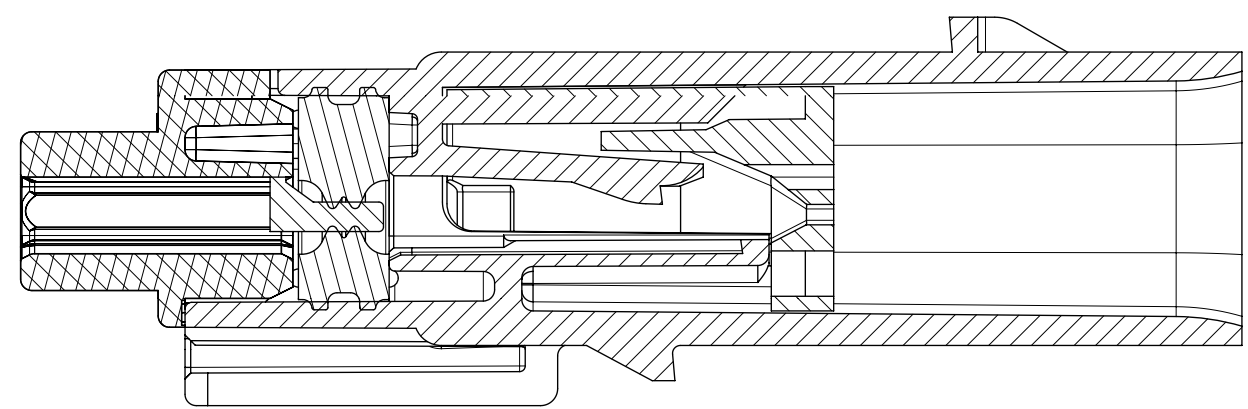
BLADE SEALED ASSEMBLY

CHARTED DIMENSIONS					
DESCRIPTION	DIMENSIONS				
	A	B	C	D	E
1X2	N/A	1.75	21.00	55.50	17.30
1X6	29.69	1.75	31.71	54.45	17.23

OPTIONAL LASER MARKING ON THIS SURFACE SEE NOTE 3g.



PRIMARY LOCK REINFORCEMENT (PLR) SHOWN IN PRE-STAGED POSITION
SECTION B-B

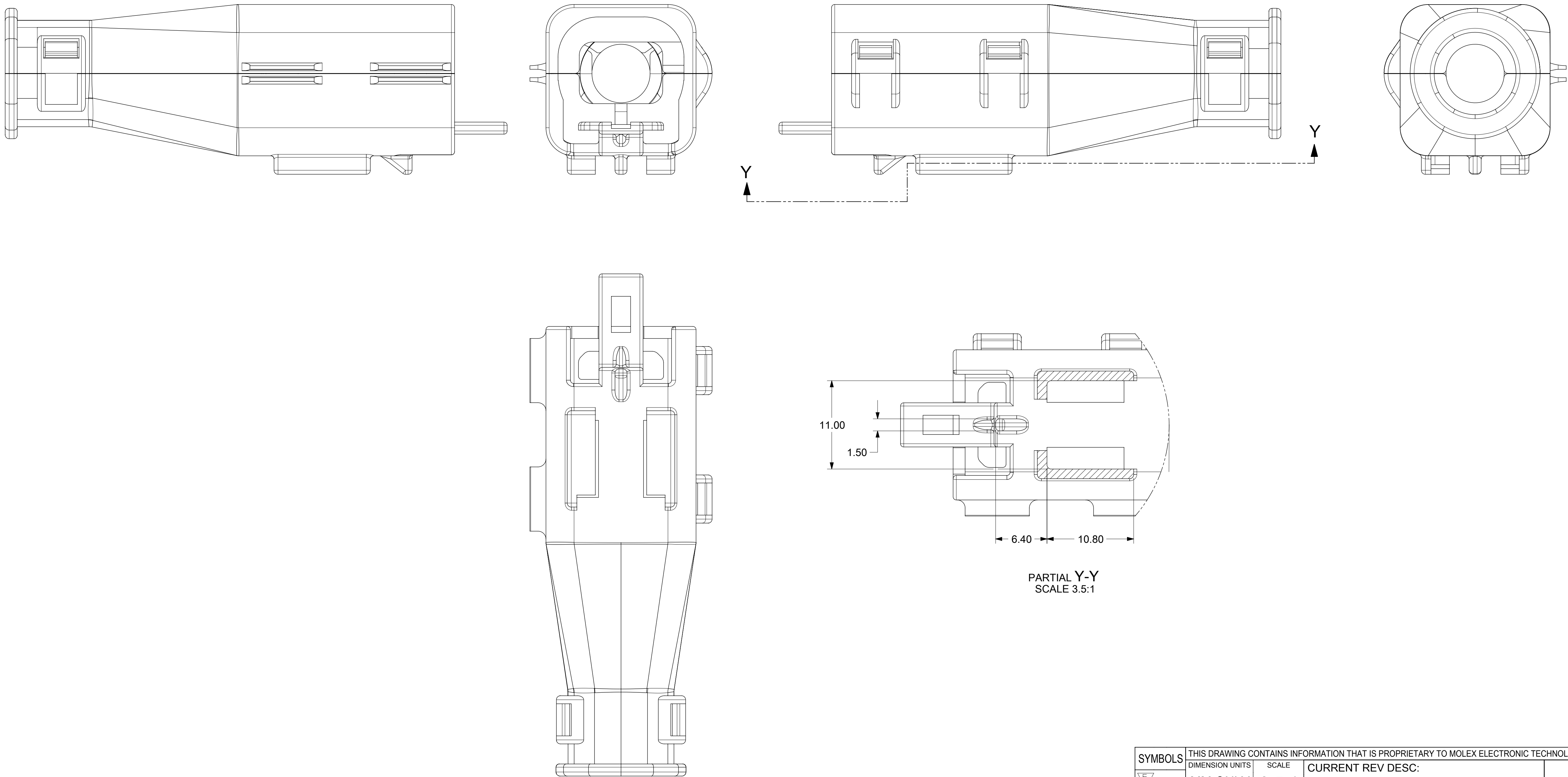


PRIMARY LOCK REINFORCEMENT (PLR) SHOWN IN FINAL-LOCK POSITION
SECTION Z-Z

SYMBOLS	THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX ELECTRONIC TECHNOLOGIES, LLC AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION																
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 = 0	ANGULAR TOL ± 1.0 °																
 = 0	4 PLACES		±														
 = 0	3 PLACES		±														
 = 0	2 PLACES		± 0.1														
 = 0	1 PLACE		± 0.2		THIRD ANGLE PROJECTION			DRAWING		SERIES		MATERIAL NUMBER		CUSTOMER		SHEET NUMBER	
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DOCUMENT STATUS	P1	RELEASE DATE	2018/10/04 15:02:02
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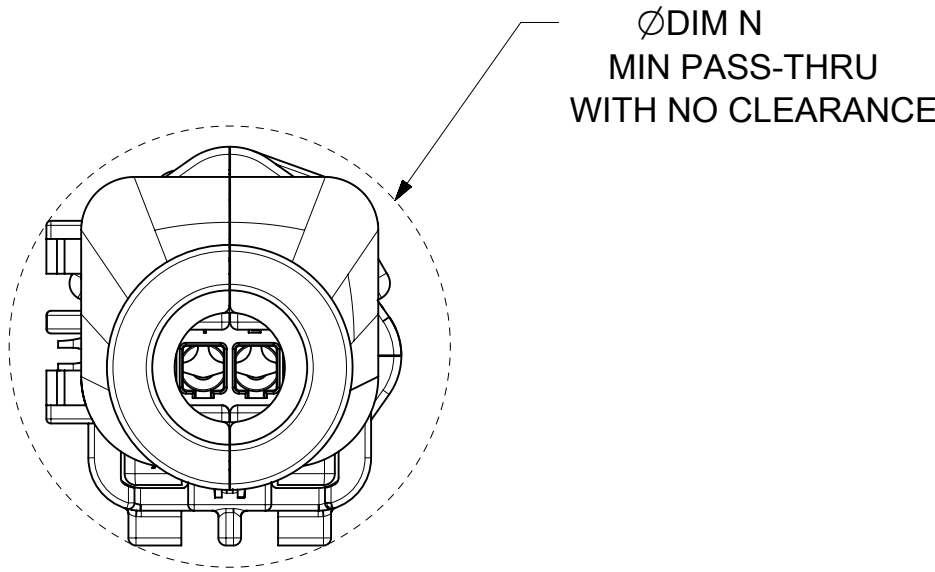
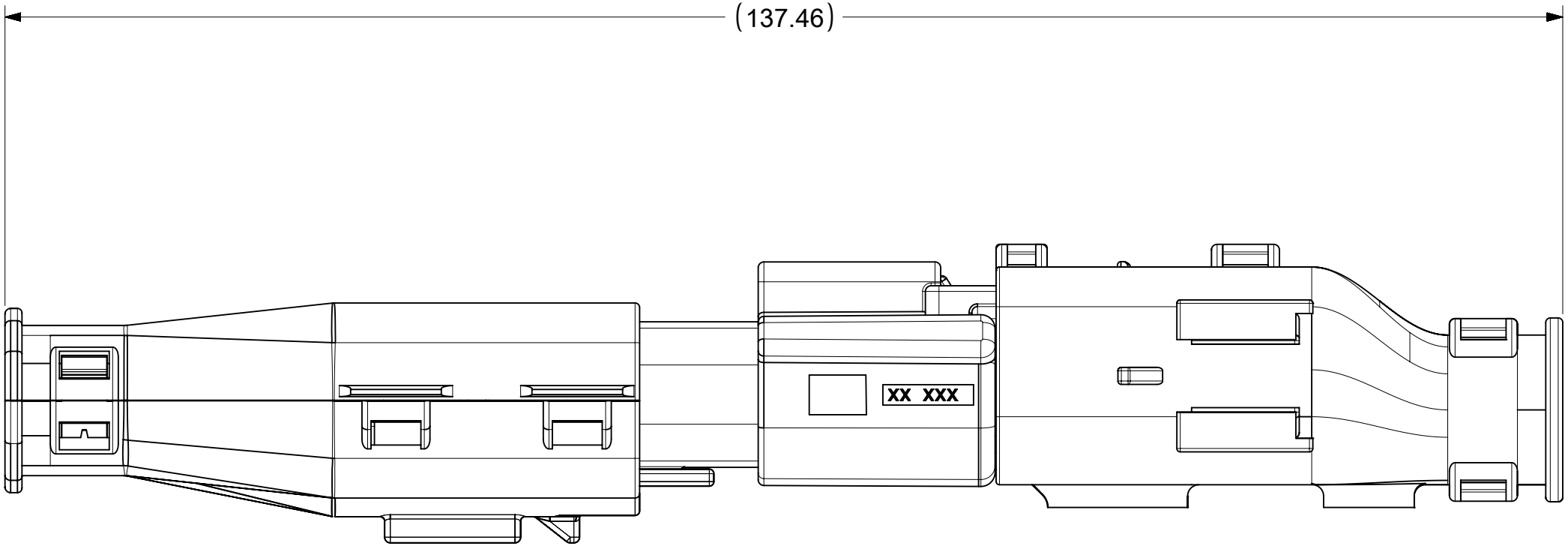
SHEET DESCRIPTION
BACKSHELL



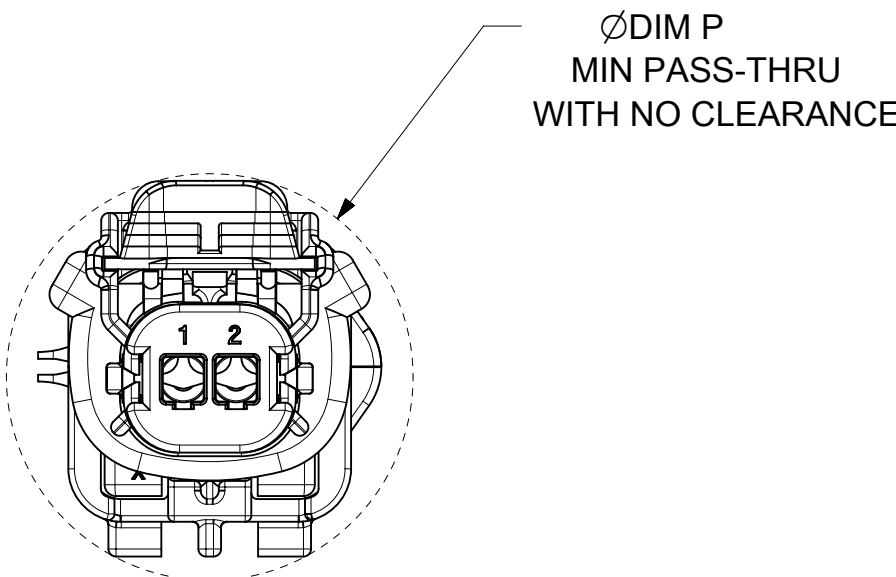
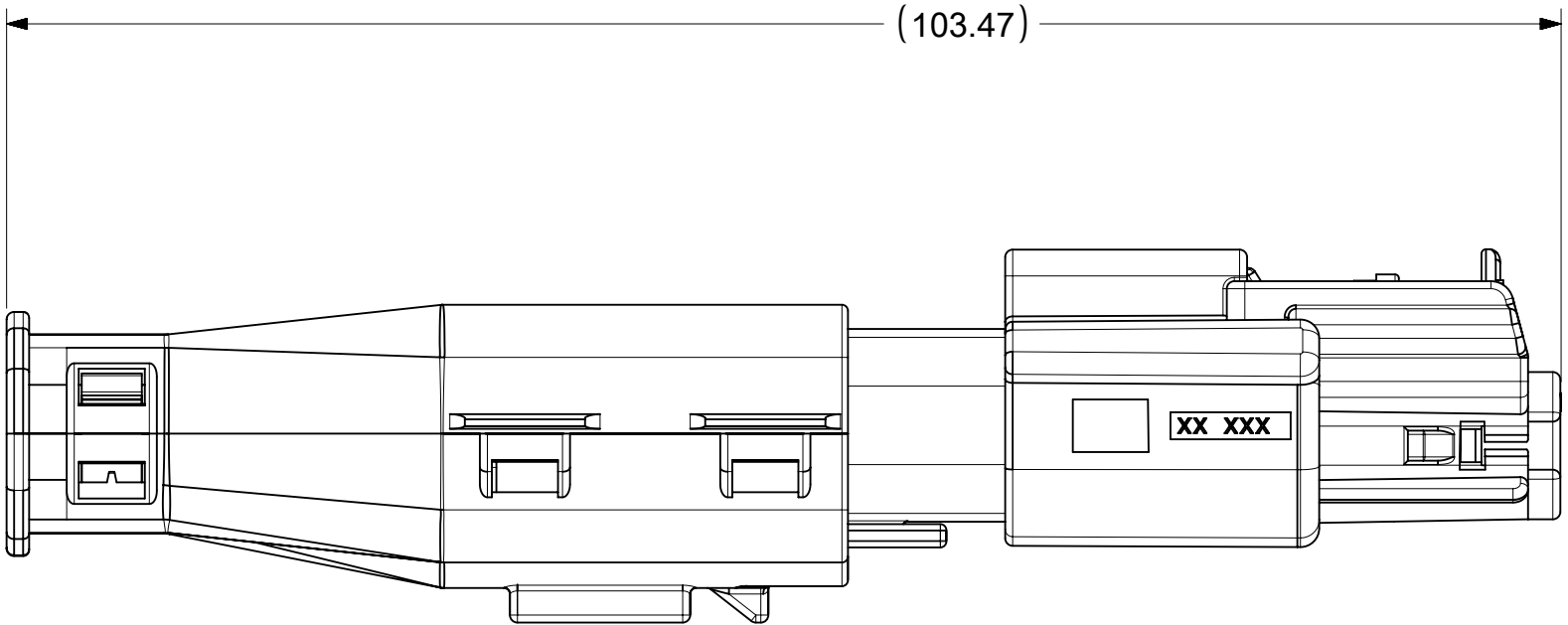
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	= 0	MM ONLY	3.5:1											
	= 0	GENERAL TOLERANCES (UNLESS SPECIFIED)												
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SHEET DESCRIPTION
BACKSHELL CONFIGURATIONS

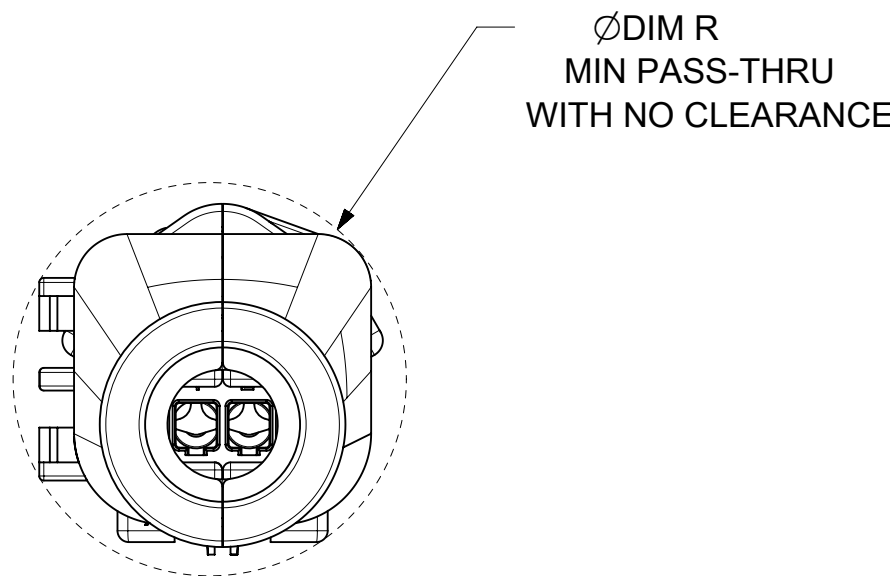
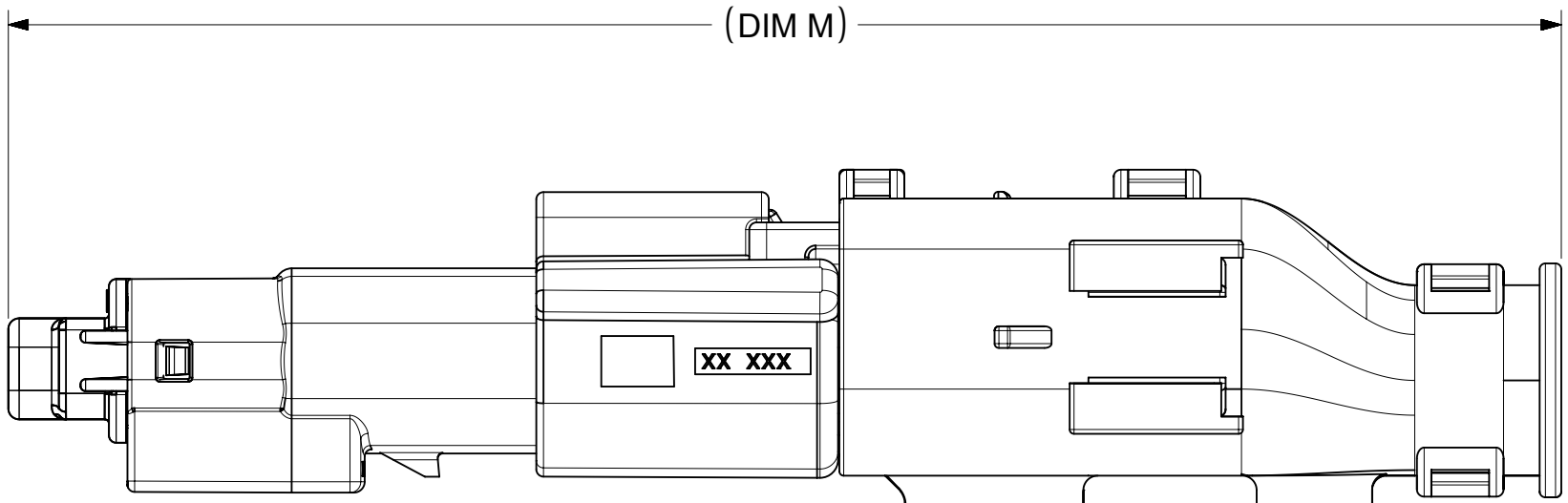
CHARTED DIMENSIONS							
CKT	BLADE CONFIGURATION	RECEPTACLE CONFIGURATION	DIMENSIONS				
			M	N	P	R	S
1X2	STANDARD	STANDARD	107.84	29.50	27.00	26.25	25.00



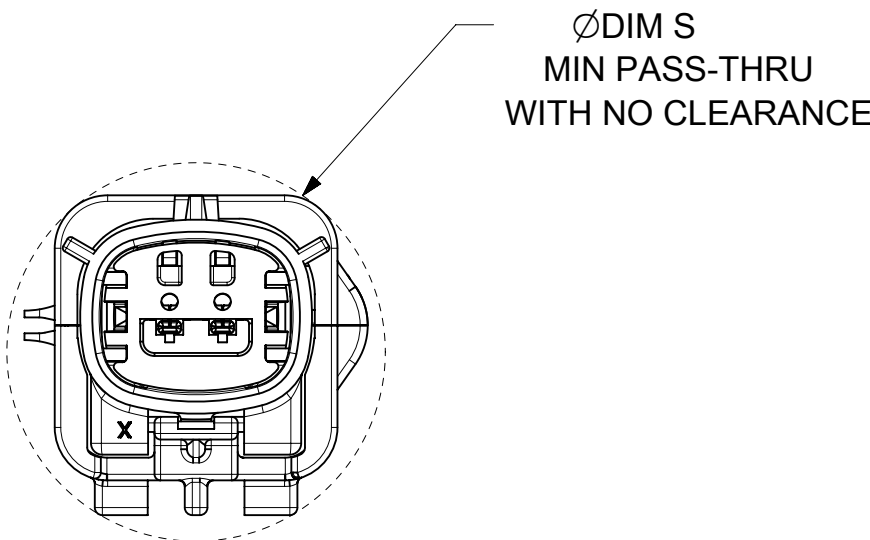
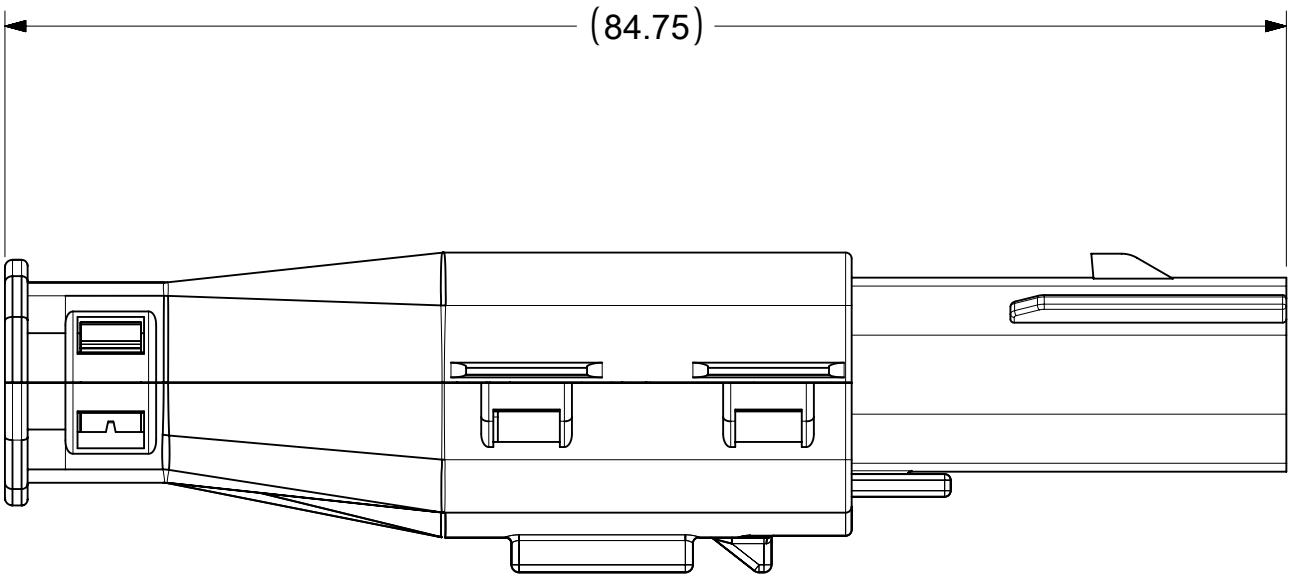
OVERALL MATED SYSTEM WITH BLADE AND RECEPTACLE BACKSHELL



OVERALL MATED SYSTEM WITH BLADE BACKSHELL



OVERALL MATED SYSTEM WITH RECEPTACLE BACKSHELL



BLADE SEALED ASSEMBLY WITH BLADE BACKSHELL

SYMBOLS	THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX ELECTRONIC TECHNOLOGIES, LLC AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION										
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	MM ONLY		2:1								
GENERAL TOLERANCES (UNLESS SPECIFIED)											
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 = 0	3 PLACES ±				DRWN: DSHETTY01 2018/05/25						
 = 0	2 PLACES ± 0.1				CHK'D: MVANSLAMBROU 2018/10/04						
 = 0	1 PLACE ± 0.2				APPR: MVANSLAMBROU 2018/10/04		PRODUCT CUSTOMER DRAWING				
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 = 0					A1-SIZE		33481		9 OF 9		
 = 0									9 OF 9		

DOCUMENT STATUS	P1	RELEASE DATE	2018/10/04 15:02:02
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