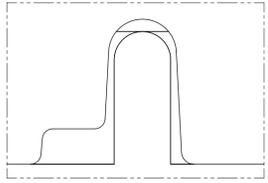
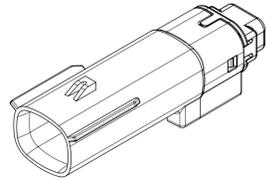




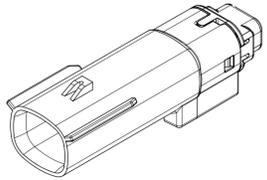
**SHEET DESCRIPTION**  
CONFIGURATIONS



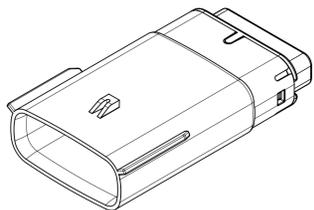
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Partial1  
SCALE 10:1



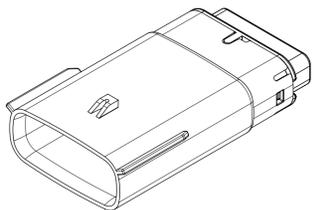
1x2 - STD



1X2 - UL V0\*



1x6 - STD

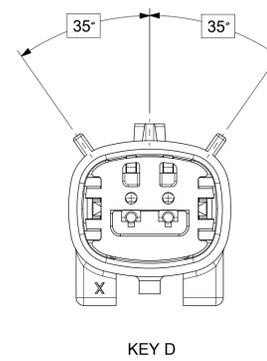
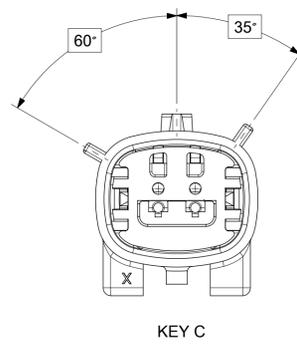
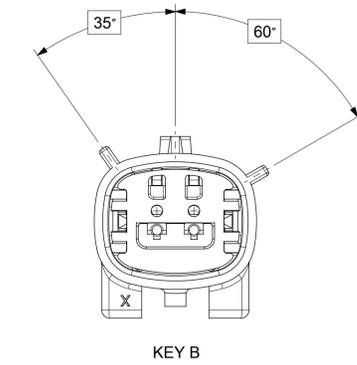
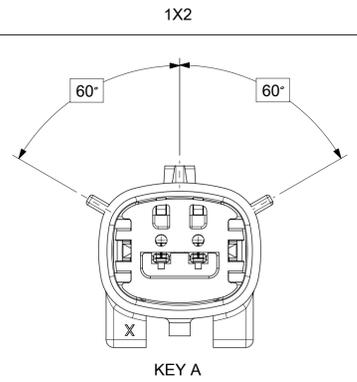


1x6 - UL V0\*

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

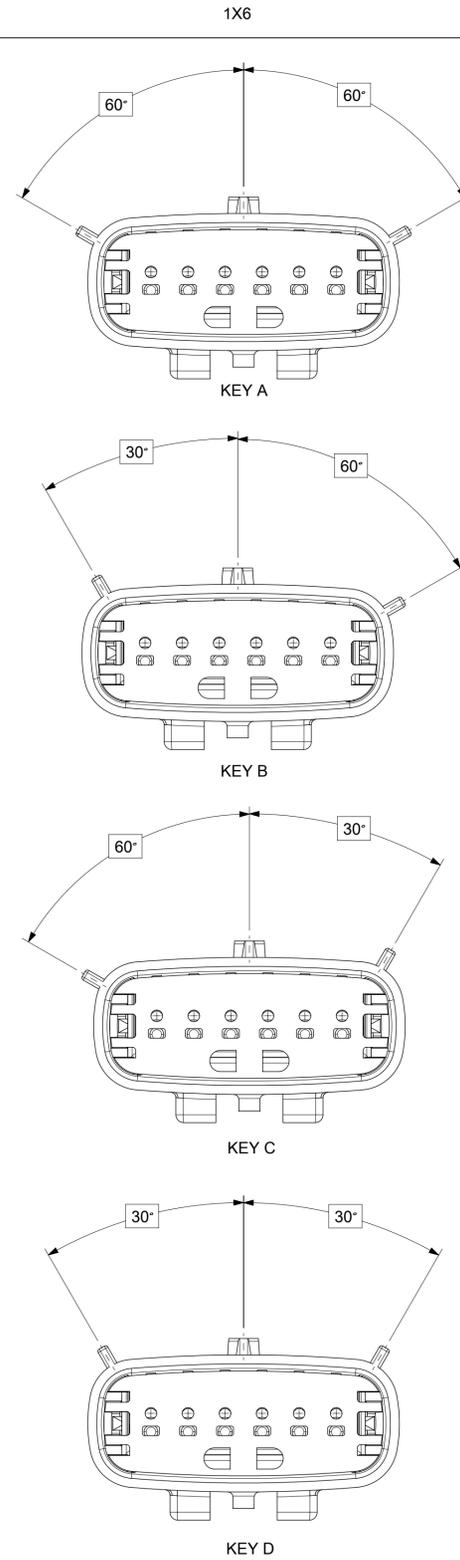
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= 0	GENERAL TOLERANCES (UNLESS SPECIFIED)						
= 0	ANGULAR TOL ± 1.0°				DOCUMENT NUMBER: SD-33481-0001 DOC TYPE: PSD DOC PART: 001 REVISION: A1		
= 0	4 PLACES	±					
= 0	3 PLACES	±	INITIAL REVISION: DRWN: APROFFITT 2015/07/21 APPR: KDEKOSKI 2016/06/14		MATERIAL NUMBER: SEE NOTE 2a. CUSTOMER: GENERAL MARKET SHEET NUMBER: 2 OF 9		
= 0	2 PLACES	± 0.1					
= 0	1 PLACE	± 0.2	DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		THIRD ANGLE PROJECTION DRAWING: A1-SIZE SERIES: 33481		
= 0	0 PLACES	±					

**SHEET DESCRIPTION**  
KEY CONFIGURATIONS



<b>SYMBOLS</b> = 0 = 0 = 0 = 0 = 0 = 0 = 0 = 0 = 0 = 0	THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX ELECTRONIC TECHNOLOGIES, LLC AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION	DIMENSION UNITS: <b>MM ONLY</b> SCALE: <b>3:1</b>	CURRENT REV DESC:  EC NO: 602373 DRWN: DSHETTY01 2018/05/25 CHK'D: MVANSLAMBROU 2018/10/04 APPR: MVANSLAMBROU 2018/10/04	 MX150 BLADE SINGLE ROW SEALED ASSY MAT SEAL			
	GENERAL TOLERANCES (UNLESS SPECIFIED) ANGULAR TOL ± 1.0°	4 PLACES ± 3 PLACES ± 2 PLACES ± 0.1 1 PLACE ± 0.2 0 PLACES ±	INITIAL REVISION: DRWN: APROFFITT 2015/07/21 APPR: KDEKOSKI 2016/06/14				DOCUMENT NUMBER <b>SD-33481-0001</b>
	DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS	THIRD ANGLE PROJECTION 	DRAWING <b>A1-SIZE</b>	SERIES <b>33481</b>	MATERIAL NUMBER SEE NOTE 2a.	CUSTOMER GENERAL MARKET	SHEET NUMBER 3 OF 9

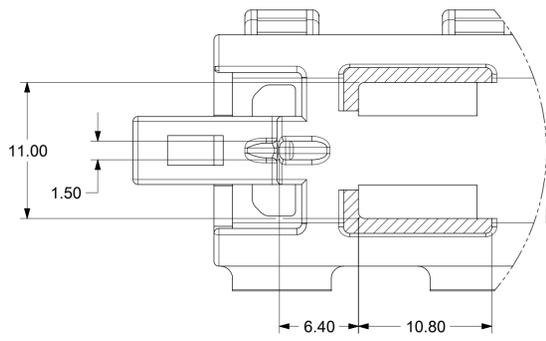
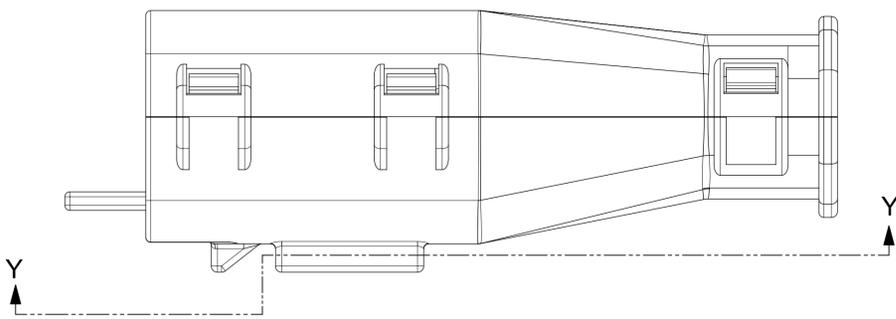
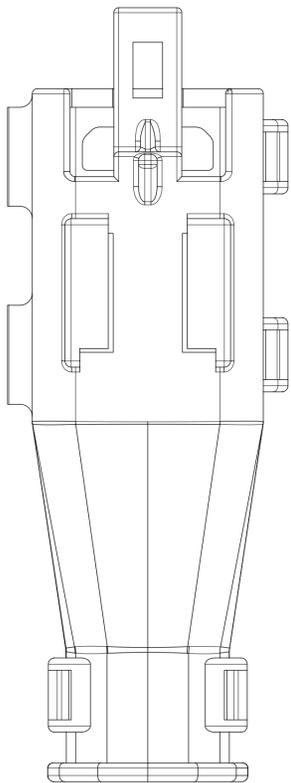
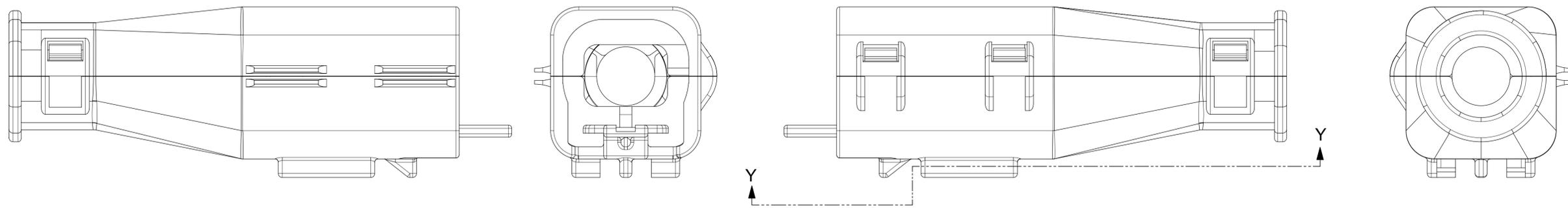
**SHEET DESCRIPTION**  
KEY CONFIGURATIONS CONT.



<b>SYMBOLS</b> = 0 = 0 = 0 = 0 = 0 = 0 = 0 = 0	THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX ELECTRONIC TECHNOLOGIES, LLC AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION DIMENSION UNITS: <b>MM ONLY</b> SCALE: <b>3:1</b>	CURRENT REV DESC: EC NO: 602373 DRWN: DSHETTY01 2018/05/25 CHK'D: MVANSLAMBROU 2018/10/04 APPR: MVANSLAMBROU 2018/10/04	 MX150 BLADE SINGLE ROW SEALED ASSY MAT SEAL		
	GENERAL TOLERANCES (UNLESS SPECIFIED) ANGULAR TOL ± 1.0° 4 PLACES ± 3 PLACES ± 2 PLACES ± 0.1 1 PLACE ± 0.2 0 PLACES ±	INITIAL REVISION: DRWN: APROFFITT 2015/07/21 APPR: KDEKOSKI 2016/06/14			
DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS 	THIRD ANGLE PROJECTION 	DRAWING: <b>A1-SIZE</b> SERIES: <b>33481</b>	MATERIAL NUMBER: SEE NOTE 2a. CUSTOMER: GENERAL MARKET SHEET NUMBER: 4 OF 9		



**SHEET DESCRIPTION**  
BACKSHELL

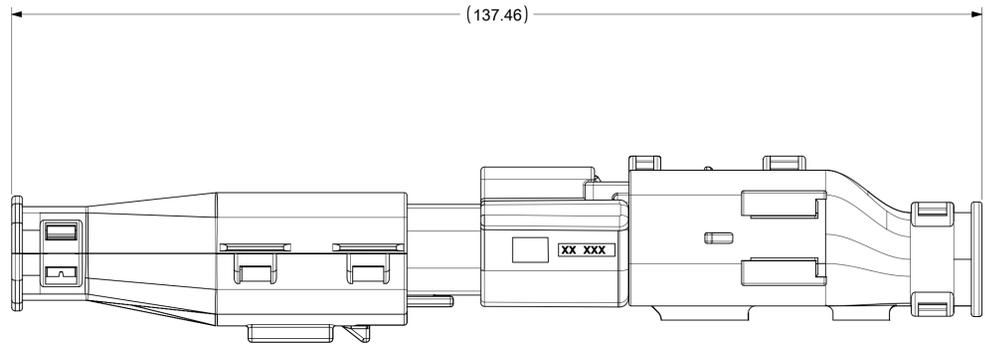


PARTIAL Y-Y  
SCALE 3.5:1

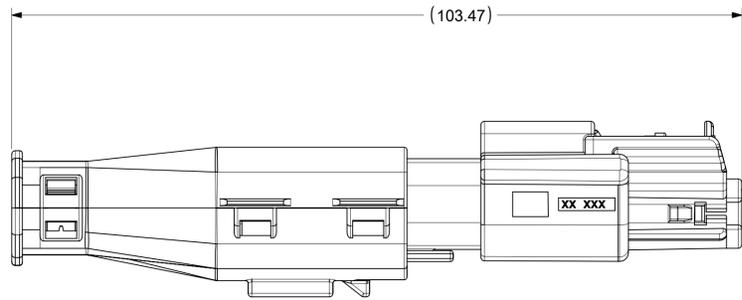
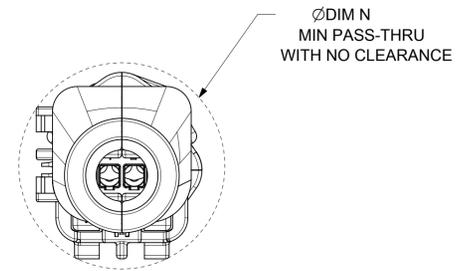
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	GENERAL TOLERANCES (UNLESS SPECIFIED) ANGULAR TOL ± 1.0° 4 PLACES ± 3 PLACES ± 2 PLACES ± 0.1 1 PLACE ± 0.2 0 PLACES ±	INITIAL REVISION: DRWN: APROFFITT 2015/07/21 APPR: KDEKOSKI 2016/06/14	PRODUCT CUSTOMER DRAWING DOCUMENT NUMBER: <b>SD-33481-0001</b> DOC TYPE: PSD DOC PART: 001 REVISION: <b>A1</b>		
DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS THIRD ANGLE PROJECTION	DRAWING: <b>A1-SIZE</b> SERIES: <b>33481</b>	MATERIAL NUMBER: SEE NOTE 2a. CUSTOMER: GENERAL MARKET SHEET NUMBER: 8 OF 9			

**SHEET DESCRIPTION**  
BACKSHELL CONFIGURATIONS

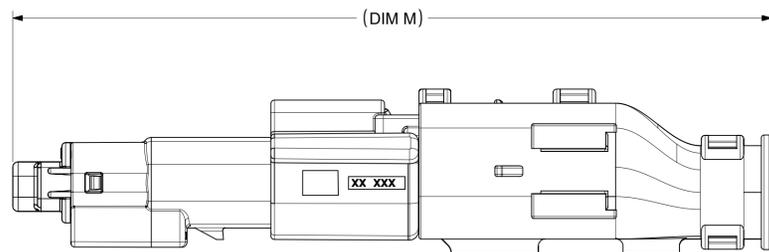
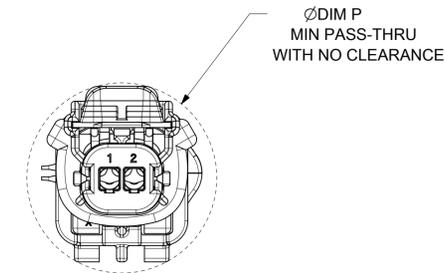
CKT	BLADE CONFIGURATION	RECEPTACLE CONFIGURATION	DIMENSIONS				
			M	N	P	R	S
1X2	STANDARD	STANDARD	107.84	29.50	27.00	26.25	25.00



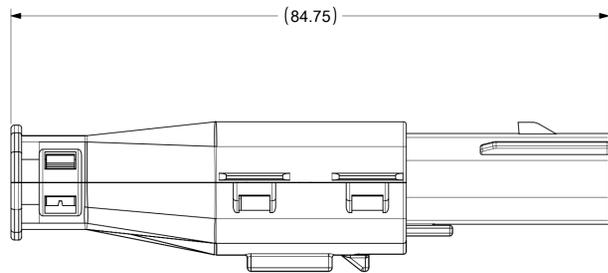
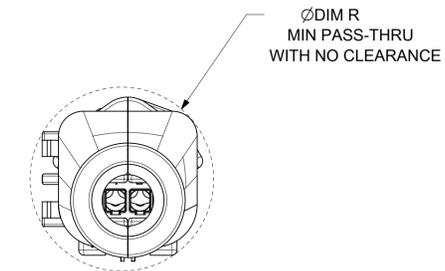
OVERALL MATED SYSTEM WITH BLADE AND RECEPTACLE BACKSHELL



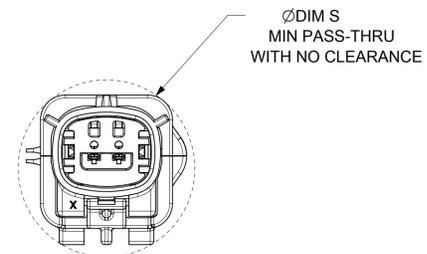
OVERALL MATED SYSTEM WITH BLADE BACKSHELL



OVERALL MATED SYSTEM WITH RECEPTACLE BACKSHELL

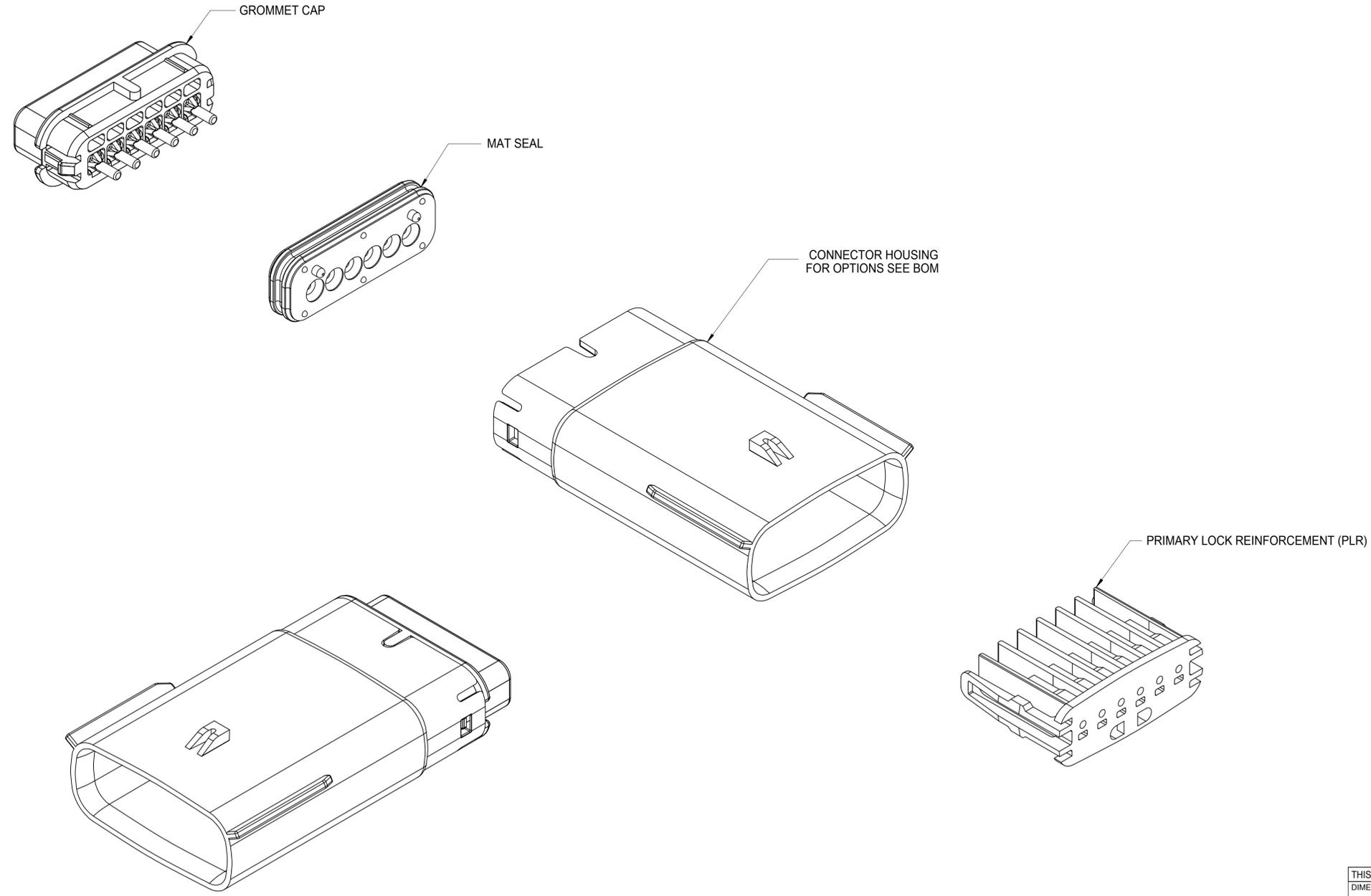


BLADE SEALED ASSEMBLY WITH BLADE BACKSHELL



<b>SYMBOLS</b> = 0 = 0 = 0 = 0 = 0 = 0 = 0 = 0 = 0 = 0	THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX ELECTRONIC TECHNOLOGIES, LLC AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION DIMENSION UNITS: <b>MM ONLY</b> SCALE: <b>2:1</b>	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	 MX150 BLADE SINGLE ROW SEALED ASSY MAT SEAL		
	GENERAL TOLERANCES (UNLESS SPECIFIED) ANGULAR TOL ± 1.0° 4 PLACES ± 3 PLACES ± 2 PLACES ± 0.1 1 PLACE ± 0.2 0 PLACES ±	DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS	THIRD ANGLE PROJECTION 	DRAWING: <b>A1-SIZE</b> SERIES: <b>33481</b>	MATERIAL NUMBER: SEE NOTE 2a. CUSTOMER: GENERAL MARKET

TABLE OF CONTENTS	
SHEET NO.	SHEET DESCRIPTION
1	NOTES
2	KEY CONFIGURATIONS
3	BLADE SEALED ASSEMBLY
4	SYSTEM PACKAGING
5	BOM



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 SPECIFIED IN MOLEX DRAWING SD-33471-061.  
-FOR 1.5mm BLADE TERMINALS TO BE USED WITH THIS ASSEMBLY SEE MOLEX DRAWING SD-33000-001.  
-SYSTEM TO BE USED WITH WIRE WITHIN DIAMETER RANGE OF 1.2mm TO 2.69mm.  
-ASSEMBLY SHIPPED WITH PLR IN PRE-LOCK POSITION  
-IN THE EVENT THAT THE PLR IS FOUND IN THE SEATED (FINAL LOCK) POSITION, REFER TO MOLEX SPECIFICATION PS-34646-001, AVAILABLE AT [www.molex.com](http://www.molex.com) <<http://www.molex.com>>  
-ASSEMBLY CONFORMS TO SAE/USCAR-2 REV.4 WITH THE FOLLOWING EXCEPTIONS: TERMINAL INSERTION FORCE FOR WIRE DIAMETER ABOVE 2.5mm NOT EXCEEDING 2.69mm SHALL NOT EXCEED 45 NEWTONS.

b. PRODUCT SPECIFICATION SEE: PS-33471-000  
CONTAINS: PRODUCT INTRODUCTION, PRODUCT SUMMARY, RATINGS (CURRENT, TEMPERATURE, SEALING, AND FLAMMABILITY), AND PRODUCT VALIDATION.

c. PACKAGING SPECIFICATION PER MOLEX DRAWING: PK-31300-635

d. PARTS MUST BE IN COMPLIANCE TO MOLEX CHEMICAL SUBSTANCES FOR PRODUCTS AND PACKAGING SPECIFICATION: ES-40000-5016

e. DATA MUST BE SUBMITTED UNDER THE MOLEX PART NUMBER TO IMDS (COMPANY ID#13255)

2. DESIGN - MATERIALS:

a. CONNECTOR HOUSING, GROMMET CAP, PLR: SPS/NYLON BLEND 20% GLASS FILLED  
b. MAT SEAL: INHERENTLY LUBRICATED SILICONE

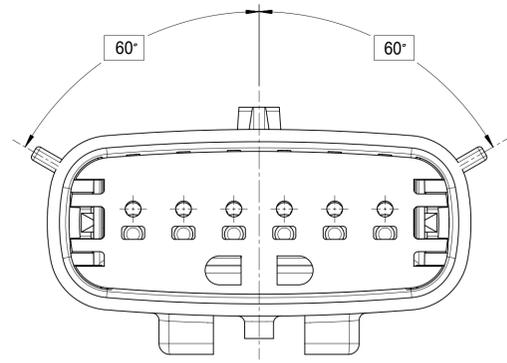
3. DESIGN - GEOMETRY:

a. THIS IS A 100% CAD GENERATED PART. THE CAD MATHEMATICAL DATA IS THE MASTER FOR THIS PART. FOR DIMENSIONAL OR ANY INFORMATION NOT SHOWN ON THIS DRAWING, ANALYZE THE CAD MODEL.  
b. GEOMETRIC DIMENSIONS AND TOLERANCES PER ASME Y14.5M - 1994  
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: TBD

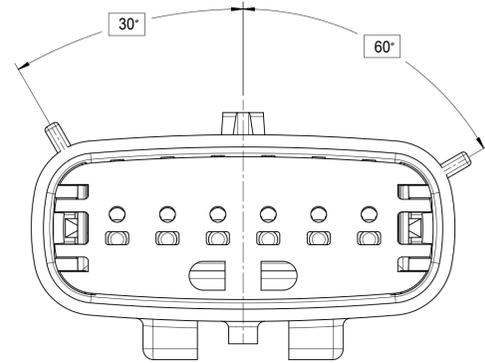
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LAST NUMBER USED: 8  
ADDED:  
REMOVED:

V5	CHANGED PARTS STATUS TO "NOT RECOMMENDED" FOR SINGLE ROW BLADE MAT SEAL CHANGE
V4	UPDATE 33481-0602/0607/0612/0618/0619 STATUS TO "SALEABLE" AND UPDATE 33481-0603/0604/0608/0609/0613/0614 STATUS TO "NOT RECOMMENDED" ON SHEET 5; UPDATE 33481-6602/6607/6612/6618/6619 STATUS TO "SALEABLE" AND UPDATE 33481-6603/6604/6608/6609/6613/6614 STATUS TO "NOT RECOMMENDED" ON SHEET 5;
V3	ADD NEW P/N 33481-6601 TO 33481-6624
V2	ADD NEW P/N 33481-0624
V1	ADD NEW P/N 33481-0623
U	ADD NEW P/N 33481-0621 33481-0622
T	ADD NEW P/N 33481-0620
S	UPDATED GROMMET CAP
R1	UPDATED DIMENSIONS TO MATCH MODEL
R	COLOR REPLACEMENT FOR KEY C AND D PER USCAR STANDARD
Q	REDRAWN
REV	DESCRIPTION

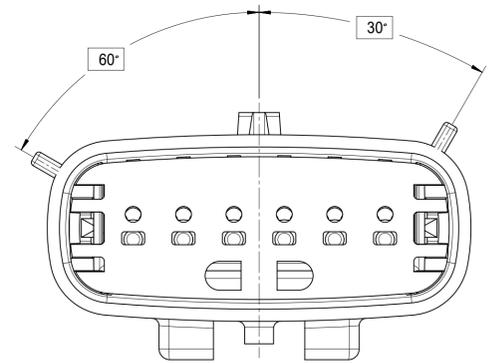
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GENERAL TOLERANCES (UNLESS SPECIFIED)		CHK'D: MJMITCHELL 2020/09/21			
ANGULAR TOL	± 3.0°	APPR: MJMITCHELL 2020/09/21		DOCUMENT NUMBER: <b>SD-33481-061</b> DOC TYPE: PSD DOC PART: 001 REVISION: <b>V5</b>	
4 PLACES	±	INITIAL REVISION:			
3 PLACES	±	DRWN: DGRIFITHS 2005/08/26		MATERIAL NUMBER: SEE BOM CUSTOMER: GENERAL MARKET SHEET NUMBER: 1 OF 5	
2 PLACES	± 0.1	APPR: smarceau 2005/08/29			
1 PLACE	± 0.3	DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		THIRD ANGLE PROJECTION DRAWING: <b>D-SIZE</b> SERIES: <b>33481</b>	
0 PLACES	±				



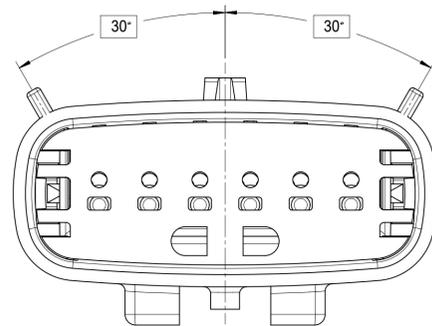
KEY A



KEY B



KEY C



KEY D

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

DIMENSION UNITS	SCALE
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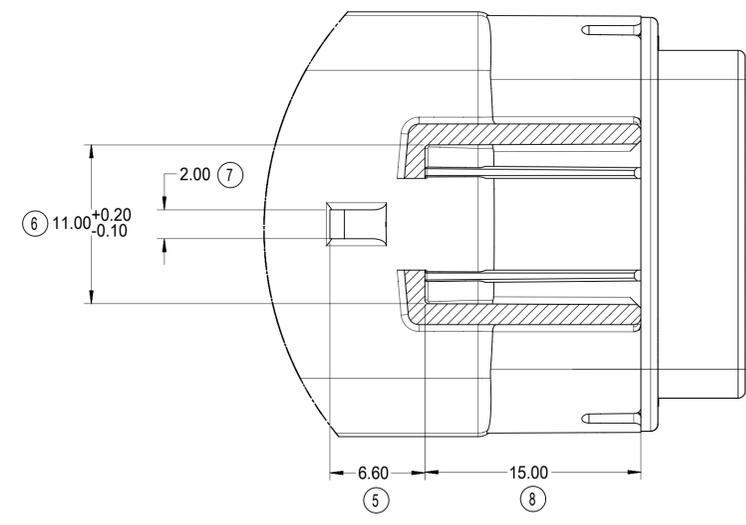
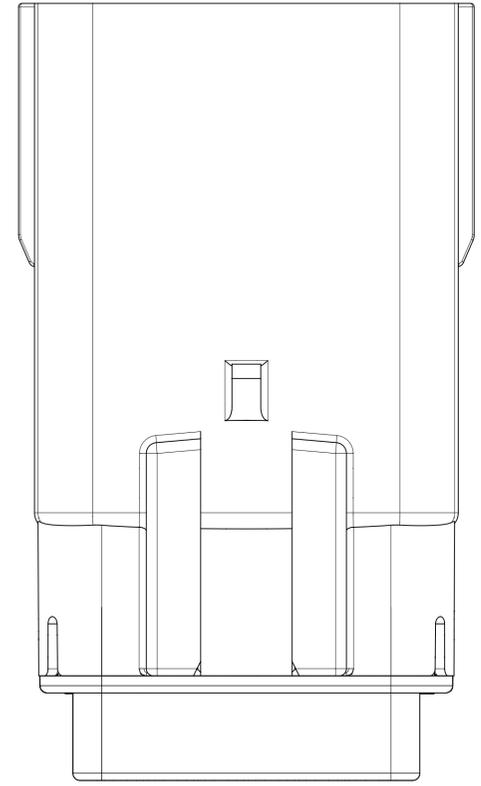
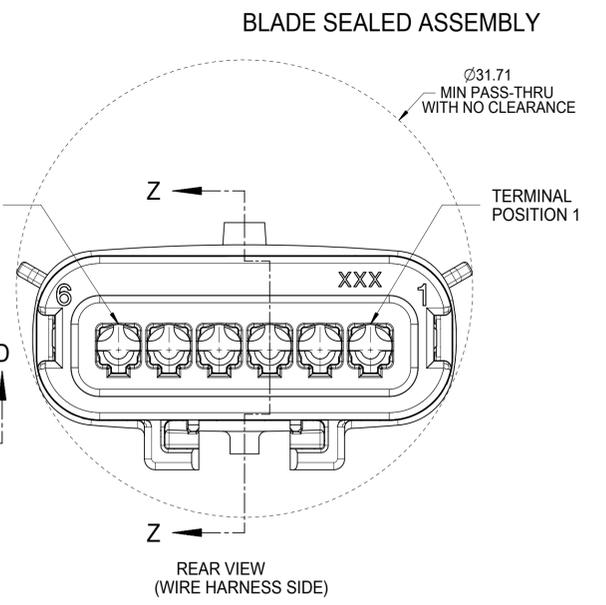
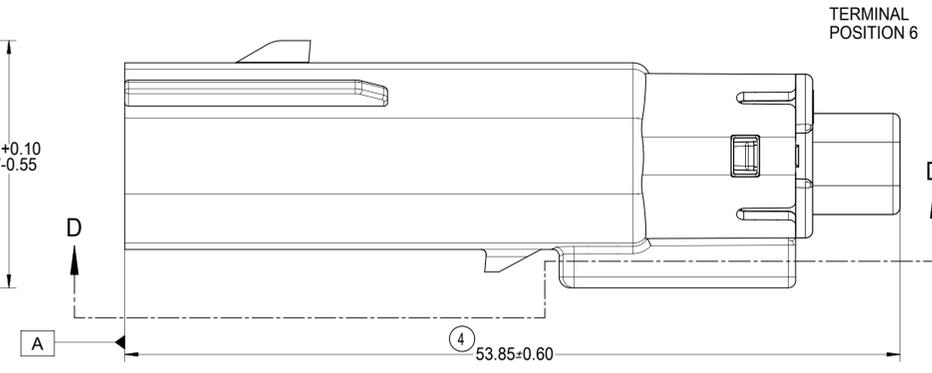
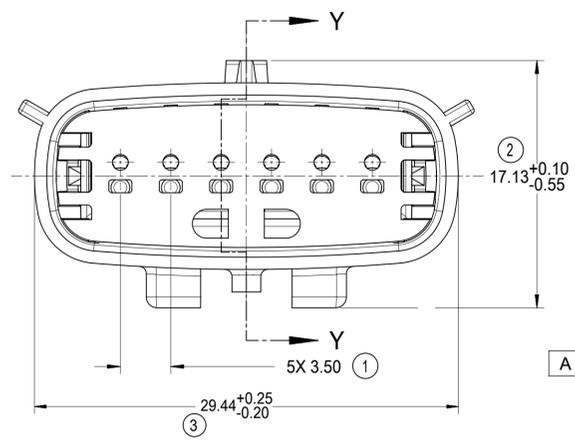
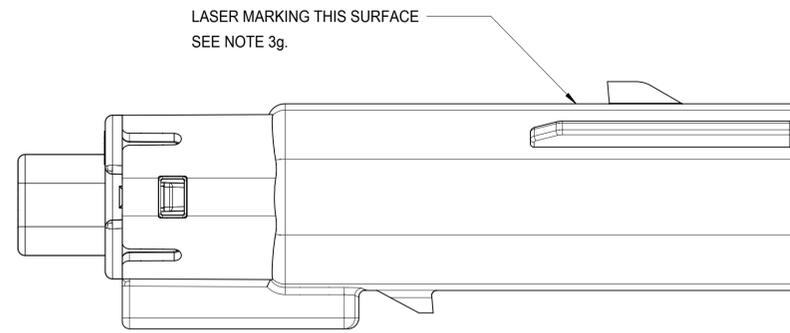
GENERAL TOLERANCES (UNLESS SPECIFIED)

ANGULAR TOL	± 3.0°
4 PLACES	±
3 PLACES	±
2 PLACES	± 0.1
1 PLACE	± 0.3
0 PLACES	±

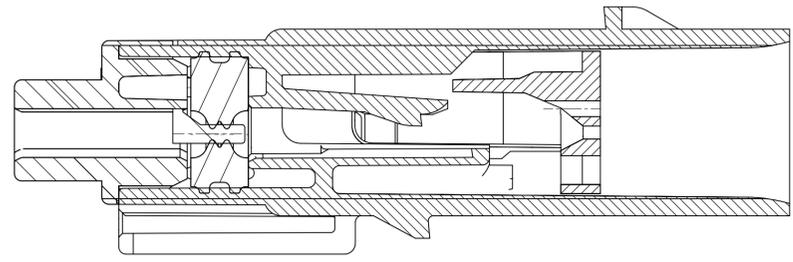
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 INITIAL REVISION:  
 DRWN: DGRIFITHS 2005/08/26  
 APPR: smarceau 2005/08/29

<b>molex</b>			
MX150 1X6 BLADE SEALED ASSEMBLY MAT SEAL			
PRODUCT CUSTOMER DRAWING			
DOCUMENT NUMBER	DOC TYPE	DOC PART	REVISION
SD-33481-061	PSD	001	V5
MATERIAL NUMBER	CUSTOMER	SHEET NUMBER	
SEE BOM	GENERAL MARKET	2 OF 5	

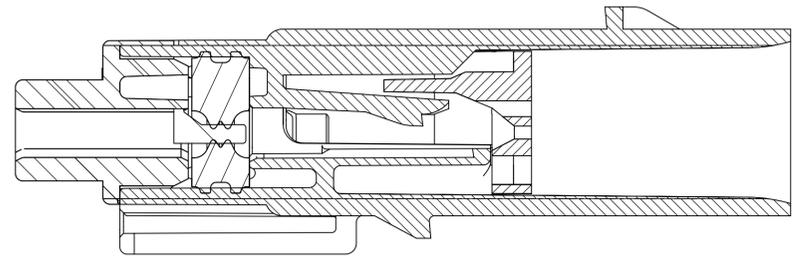


SECTION D-D



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

SECTION Z-Z

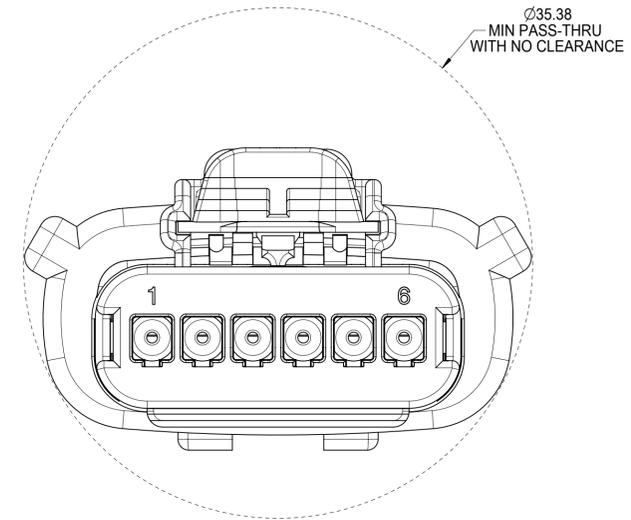
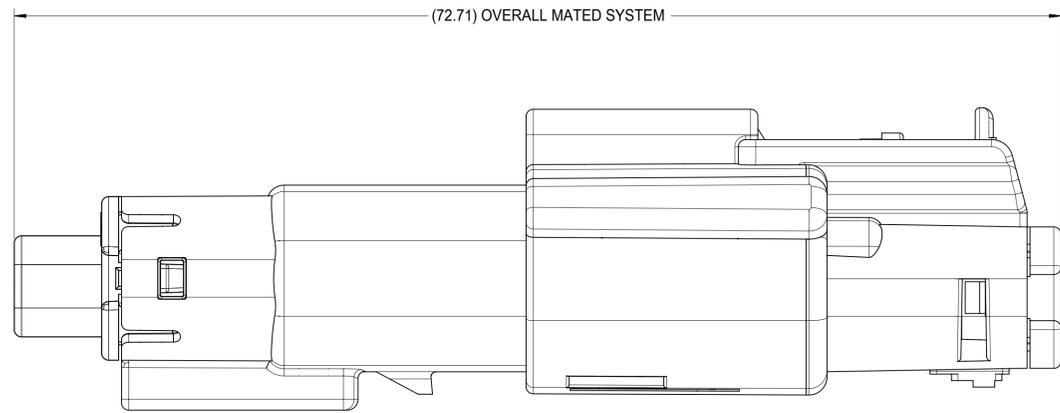


PRIMARY LOCK REINFORCEMENT (PLR) SHOWN IN FINAL-LOCK POSITION

SECTION Y-Y

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: SEE REVISION TABLE					
mm		4:1							
GENERAL TOLERANCES (UNLESS SPECIFIED)									
ANGULAR TOL ± 3.0°									
4 PLACES		±		EC NO: 645317					
3 PLACES		±		DRWN: MKP		2020/08/07			
2 PLACES		± 0.1		CHK'D: MJMITCHELL		2020/09/21			
1 PLACE		± 0.3		APPR: MJMITCHELL		2020/09/21			
0 PLACES		±		INITIAL REVISION:					
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				APPR: smarceau		2005/08/29			
DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS				THIRD ANGLE PROJECTION		DRAWING		SERIES	
						D-SIZE		33481	
						MATERIAL NUMBER		CUSTOMER	
						SEE BOM		GENERAL MARKET	
						DOCUMENT NUMBER		DOC TYPE   DOC PART   REVISION	
						SD-33481-061		PSD   001   V5	
						SHEET NUMBER		3 OF 5	

DOCUMENT STATUS	P1	RELEASE DATE	2020/09/21	14:03:59
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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		4:1									
GENERAL TOLERANCES (UNLESS SPECIFIED)				EC NO: 645317							
ANGULAR TOL ± 3.0°				DRWN: MKP		2020/08/07		MX150 1X6 BLADE SEALED ASSEMBLY MAT SEAL			
4 PLACES ±		3 PLACES ±		CHK'D: MJMITCHELL		2020/09/21					
2 PLACES ± 0.1		1 PLACE ± 0.3		APPR: MJMITCHELL		2020/09/21		PRODUCT CUSTOMER DRAWING			
0 PLACES ±		DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		THIRD ANGLE PROJECTION		DRAWING		SERIES		DOCUMENT NUMBER	
						D-SIZE		33481		SD-33481-061	
										DOC TYPE DOC PART REVISION	
										PSD 001 V5	
								MATERIAL NUMBER		CUSTOMER	
								SEE BOM		GENERAL MARKET	
										SHEET NUMBER	
										4 OF 5	

(V5)

BOM SHEET 1

ASSEMBLY PART NUMBER	COLOR	KEYING OPTION	CAVITY TYPE & STATUS (X = PLUGGED)						STATUS	COMMENTS
			1	2	3	4	5	6		
33481-0601	BLACK	A							NOT RECOMMENDED	
33481-0602	LT.GRAY	B							NOT RECOMMENDED	
33481-0603	BROWN	C							NOT RECOMMENDED	NOT RECOMMENDED, SEE P/N 33481-0618
33481-0604	GREEN	D							NOT RECOMMENDED	NOT RECOMMENDED, SEE P/N 33481-0619
33481-0605	YELLOW	A							NOT RECOMMENDED	
33481-0606	BLACK	A						X	NOT RECOMMENDED	
33481-0607	LT.GRAY	B						X	NOT RECOMMENDED	
33481-0608	BROWN	C						X	NOT RECOMMENDED	
33481-0609	GREEN	D						X	NOT RECOMMENDED	
33481-0610	YELLOW	A						X	NOT RECOMMENDED	
33481-0611	BLACK	A	X					X	NOT RECOMMENDED	
33481-0612	LT.GRAY	B	X					X	NOT RECOMMENDED	
33481-0613	BROWN	C	X					X	NOT RECOMMENDED	
33481-0614	GREEN	D	X					X	NOT RECOMMENDED	
33481-0615	YELLOW	A	X					X	NOT RECOMMENDED	
33481-0616	BLACK	A	X	X	X	X	X	X	NOT RECOMMENDED	
33481-0617	BLACK	A						X	NOT RECOMMENDED	
33481-0618	DK.GRAY	C							NOT RECOMMENDED	
33481-0619	ST.GRAY	D							NOT RECOMMENDED	
33481-0620	BLACK	A			X				NOT RECOMMENDED	
33481-0621	ST.GRAY	D	X	X	X	X	X	X	NOT RECOMMENDED	
33481-0622	ST.GRAY	D	X					X	NOT RECOMMENDED	
33481-0623	BLACK	A	X		X			X	NOT RECOMMENDED	
33481-0624	BLACK	A						X	NOT RECOMMENDED	

ASSEMBLY PART NUMBER	COLOR	KEYING OPTION	CAVITY TYPE & STATUS (X = PLUGGED)						STATUS	COMMENTS
			1	2	3	4	5	6		
33481-6601	BLACK	A							SALEABLE	
33481-6602	LT.GRAY	B							SALEABLE	
33481-6603	BROWN	C							NOT RECOMMENDED	NOT RECOMMENDED, SEE P/N 33481-6618
33481-6604	GREEN	D							NOT RECOMMENDED	NOT RECOMMENDED, SEE P/N 33481-6619
33481-6605	YELLOW	A							SALEABLE	
33481-6606	BLACK	A						X	SALEABLE	
33481-6607	LT.GRAY	B						X	SALEABLE	
33481-6608	BROWN	C						X	NOT RECOMMENDED	
33481-6609	GREEN	D						X	NOT RECOMMENDED	
33481-6610	YELLOW	A						X	SALEABLE	
33481-6611	BLACK	A	X					X	SALEABLE	
33481-6612	LT.GRAY	B	X					X	SALEABLE	
33481-6613	BROWN	C	X					X	NOT RECOMMENDED	
33481-6614	GREEN	D	X					X	NOT RECOMMENDED	
33481-6615	YELLOW	A	X					X	SALEABLE	
33481-6616	BLACK	A	X	X	X	X	X	X	SALEABLE	
33481-6617	BLACK	A						X	SALEABLE	
33481-6618	DK.GRAY	C							SALEABLE	
33481-6619	ST.GRAY	D							SALEABLE	
33481-6620	BLACK	A			X				SALEABLE	
33481-6621	ST.GRAY	D	X	X	X	X	X	X	SALEABLE	
33481-6622	ST.GRAY	D	X					X	SALEABLE	
33481-6623	BLACK	A	X		X			X	SALEABLE	
33481-6624	BLACK	A						X	SALEABLE	

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: SEE REVISION TABLE		<b>molex</b>			
mm	1:1						
GENERAL TOLERANCES (UNLESS SPECIFIED)		EC NO: 645317		MX150 1X6 BLADE SEALED ASSEMBLY MAT SEAL			
ANGULAR TOL	± 3.0°	DRWN: MKP 2020/08/07					
4 PLACES	±	CHK'D: MJMITCHELL 2020/09/21		PRODUCT CUSTOMER DRAWING			
3 PLACES	±	APPR: MJMITCHELL 2020/09/21					
2 PLACES	± 0.1	INITIAL REVISION:		DOCUMENT NUMBER			
1 PLACE	± 0.3	DRWN: DGRIFITHS 2005/08/26					
0 PLACES	±	APPR: smarceau 2005/08/29		DOC TYPE			
DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		THIRD ANGLE PROJECTION	DRAWING				
			D-SIZE	33481	SEE BOM	GENERAL MARKET	5 OF 5