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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:

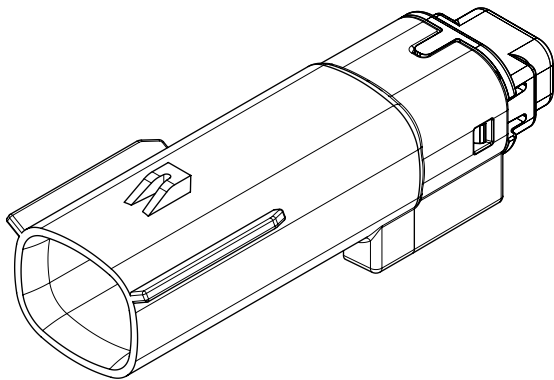
- a. FOR BILL OF MATERIALS SEE:
- STANDARD CONFIGURATION: SD-33481-0002
 - UL V0 CONFIGURATION: SD-160106-0002

3. DESIGN - GEOMETRY:

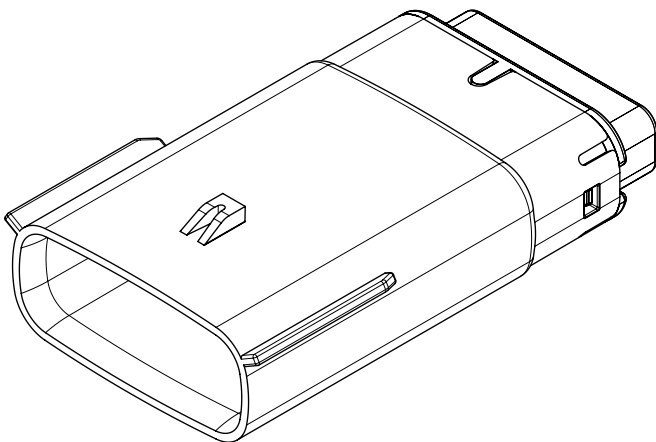
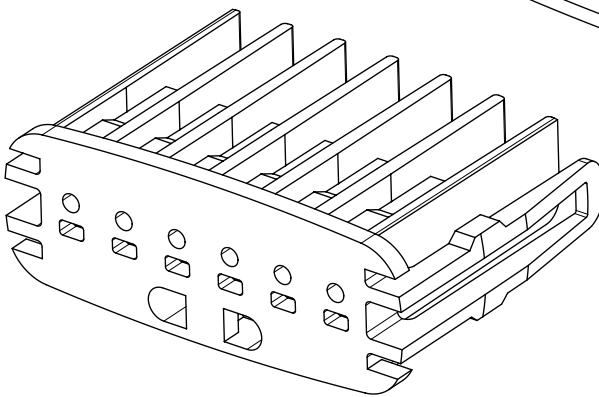
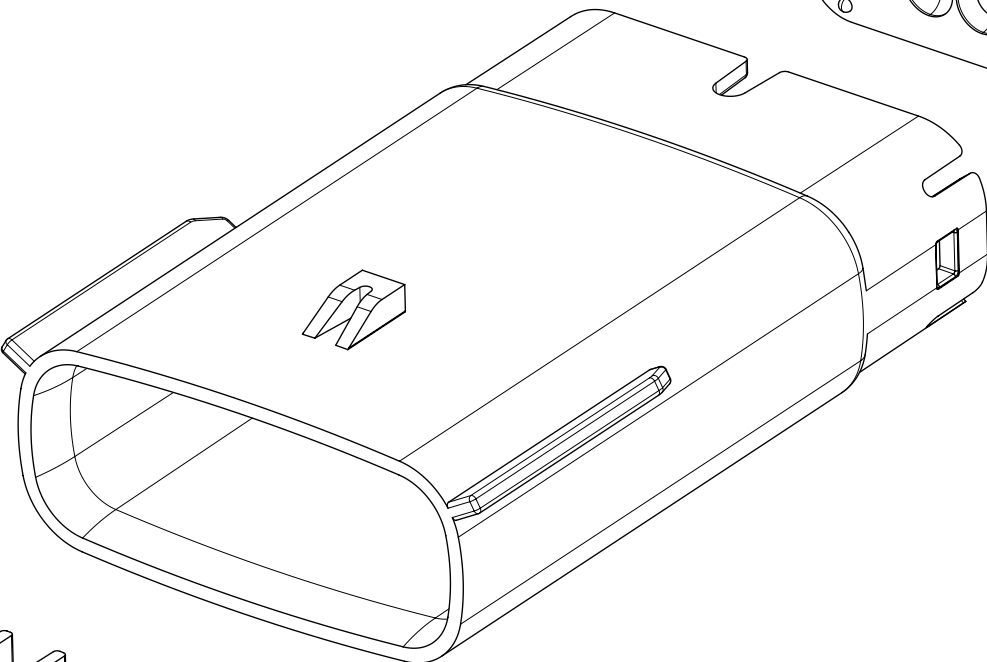
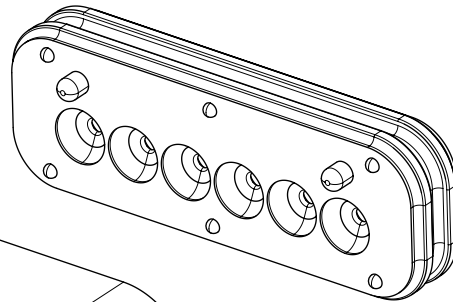
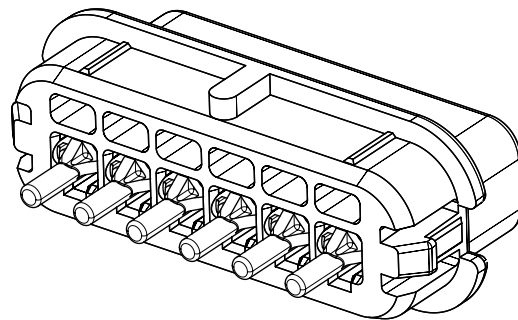
- a. THE 3-D CAD DATA IS BASIC (WITHOUT TOLERANCE) AND MASTER FOR THIS PART WITH THE EXCEPTION OF UNDERLINED DIMENSIONS. DIMENSIONAL INFORMATION NOT SHOWN ON THIS DRAWING IS DEFINED BY THE DATA FILE AT ITS LATEST REVISION.
- b. GEOMETRIC DIMENSIONS AND TOLERANCES PER ASME Y14.5M-2009
- c. EDGES AND UNDIMENSIONED 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			
A			
2			
1			
REV			

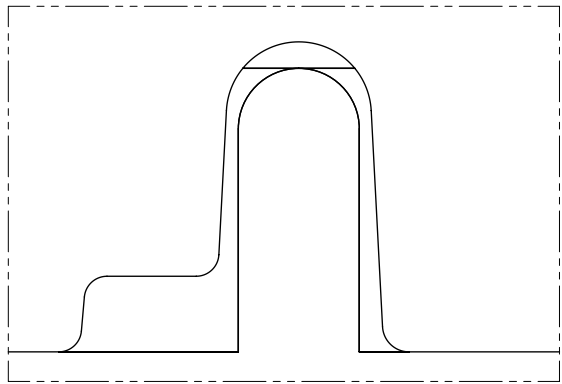
NX REMASTERING , CHANGE PS
DRAWING NUMBER FROM
PS-160105-0001 TO PS-160074-0001 IN
NOTES 1.b

MINOR GEOMETRY CHANGE FOR UL V0
UPDATED VIEWSETS
INITIAL RELEASE

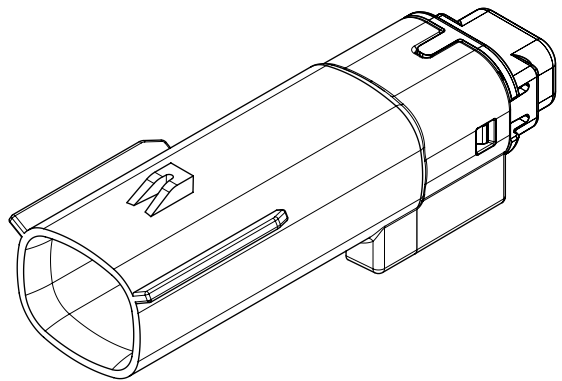
REV DESCRIPTION

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= 0	GENERAL TOLERANCES (UNLESS SPECIFIED)		PRODUCT CUSTOMER DRAWING			
= 0	ANGULAR TOL ± 1.0 °					
= 0	4 PLACES	±	DOCUMENT NUMBER			
= 0	3 PLACES	±				
= 0	2 PLACES	± 0.1	DOC TYPE			
= 0	1 PLACE	± 0.2				
= 0	0 PLACES	±	DOC PART			
= 0	DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS					
= 0	THIRD ANGLE PROJECTION	DRAWING	REVISION			
= 0		A1-SIZE				
	SERIES	33481	SD-33481-0001			
	MATERIAL NUMBER	SEE NOTE 2a.				
	CUSTOMER	GENERAL MARKET	1 OF 9			
	SHEET NUMBER					

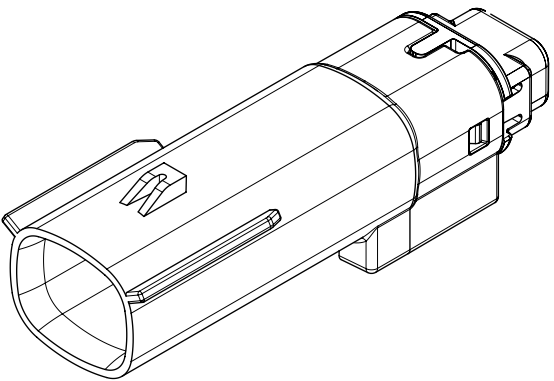
SHEET DESCRIPTION
CONFIGURATIONS



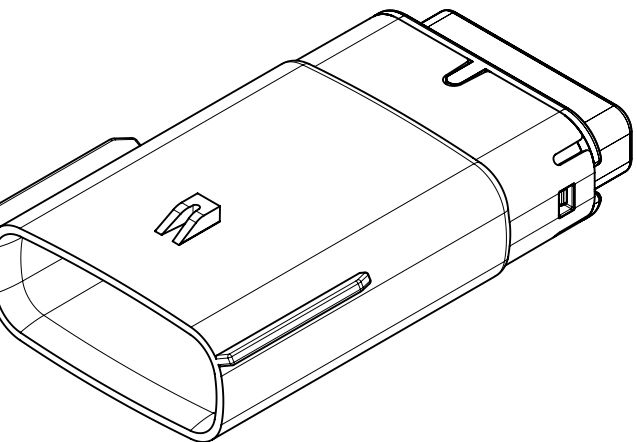
UL V0 UNIQUE FEATURE
Partial1
SCALE 10:1



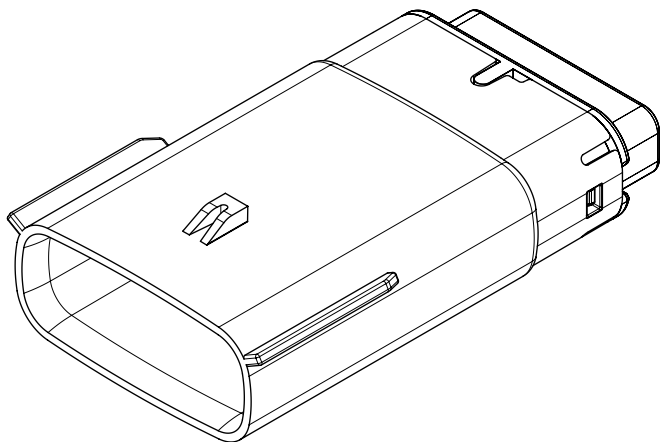
1x2 - STD



1X2 - UL V0*

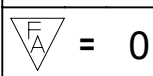
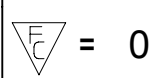
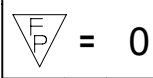
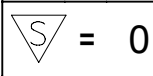
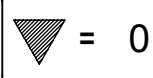
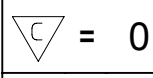
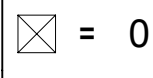
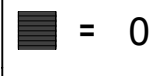
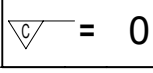
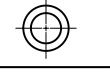


1x6 - STD



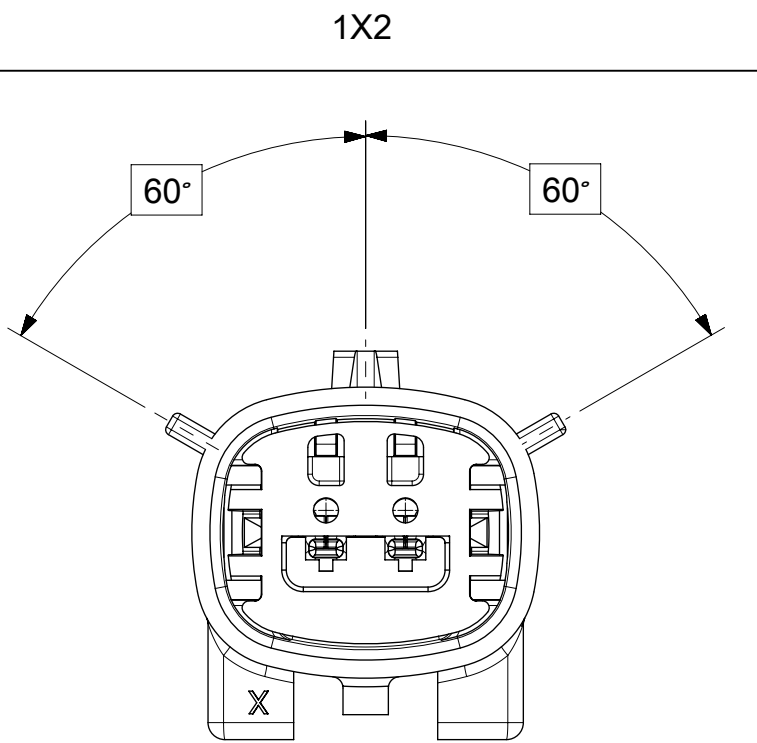
1x6 - UL V0*

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

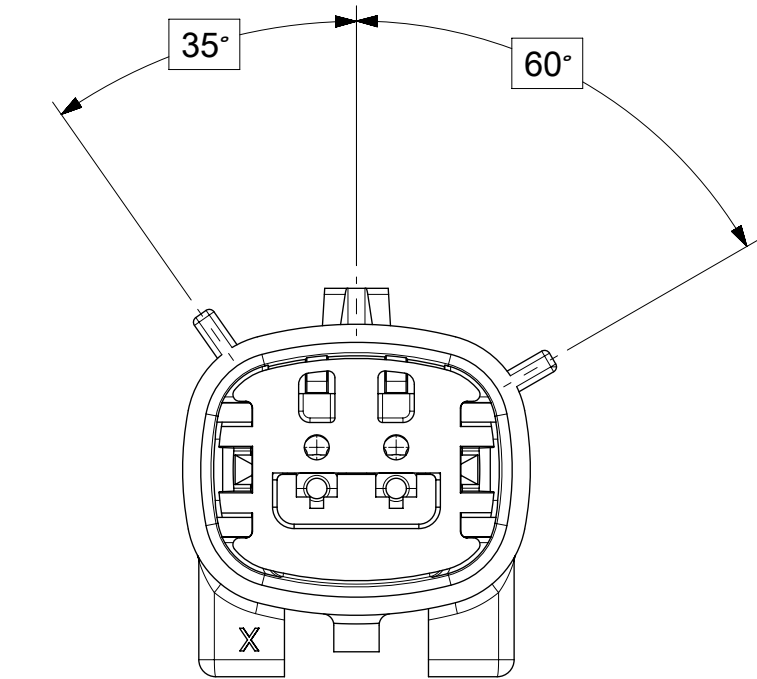
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				CUSTOMER GENERAL MARKET	SHEET NUMBER 2 OF 9	

SHEET DESCRIPTION

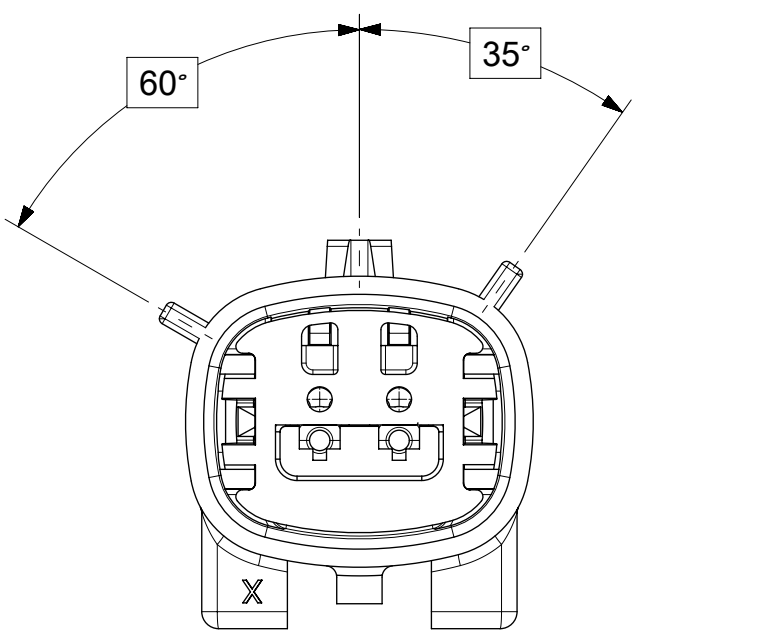
KEY CONFIGURATIONS



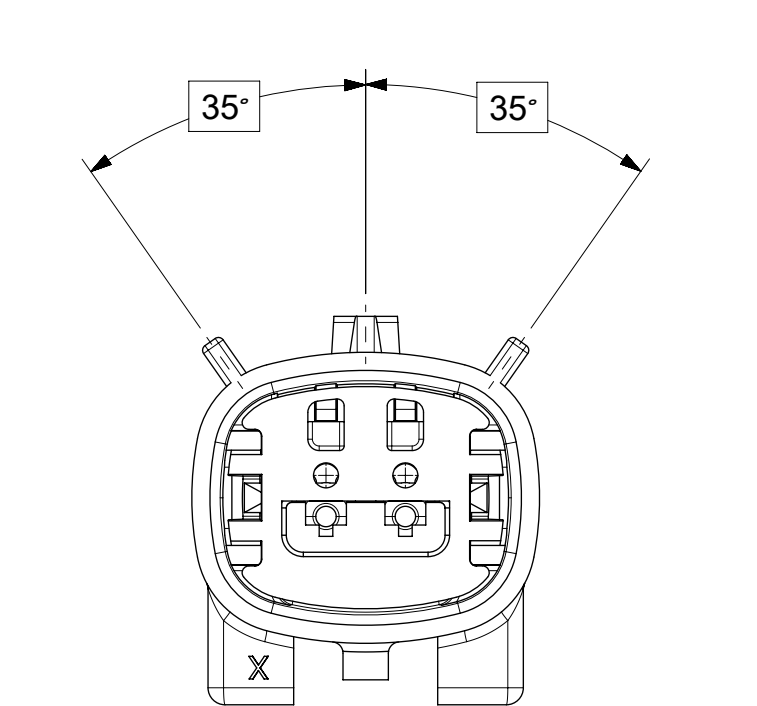
KEY A



KEY B



KEY C



KEY D

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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ANGULAR TOL ± 1.0 °					DRWN: DSHETTY01 2018/05/25					SINGLE ROW SEALED ASSY MAT SEAL							
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										MATERIAL NUMBER		CUSTOMER		SHEET NUMBER			
										SEE NOTE 2a		GENERAL MARKET		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

molex

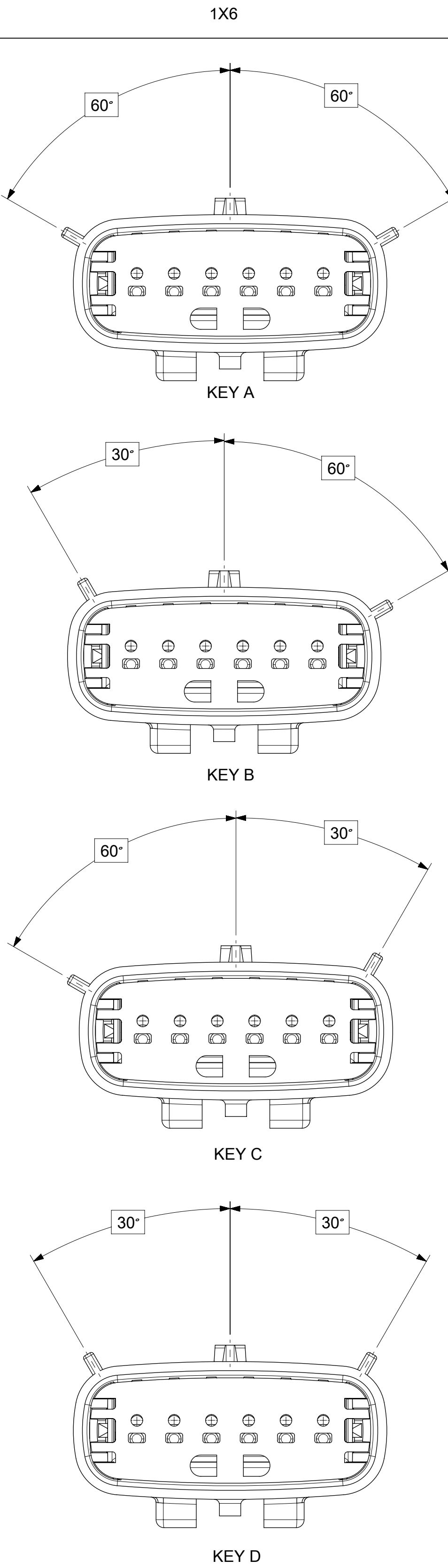
MX150 BLADE
SINGLE ROW SEALED ASSY MAT SEAL

PRODUCT CUSTOMER DRAWING

DOCUMENT NUMBER	DOC TYPE	DOC PART	REVISION
SD-33481-0001	PSD	001	A1

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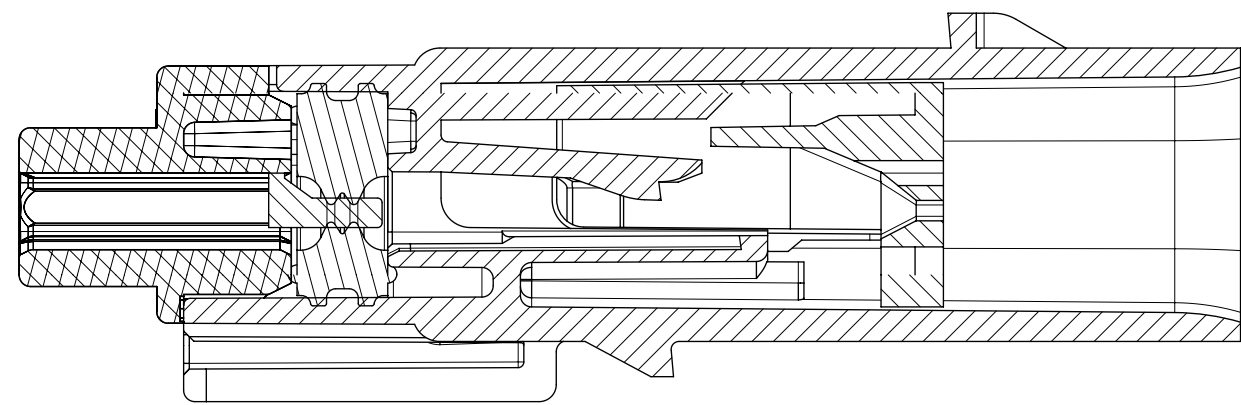
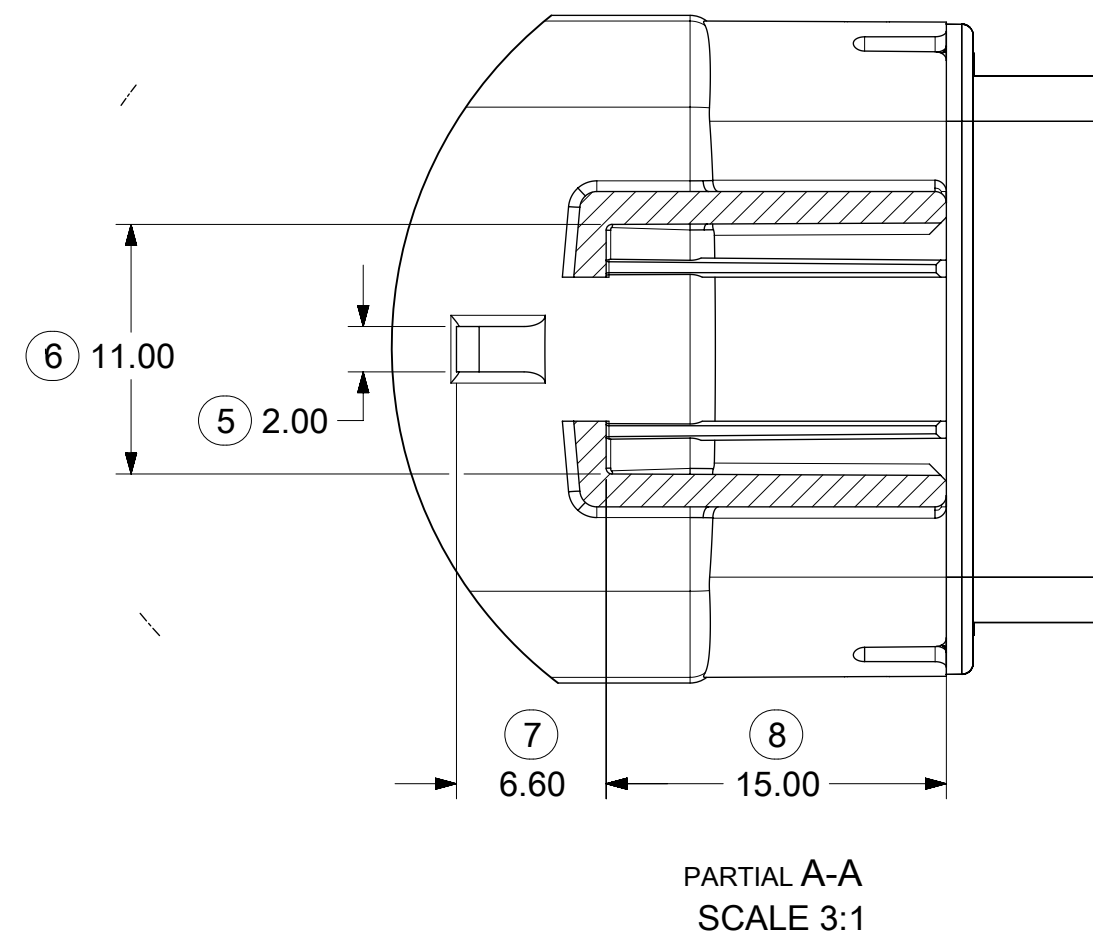
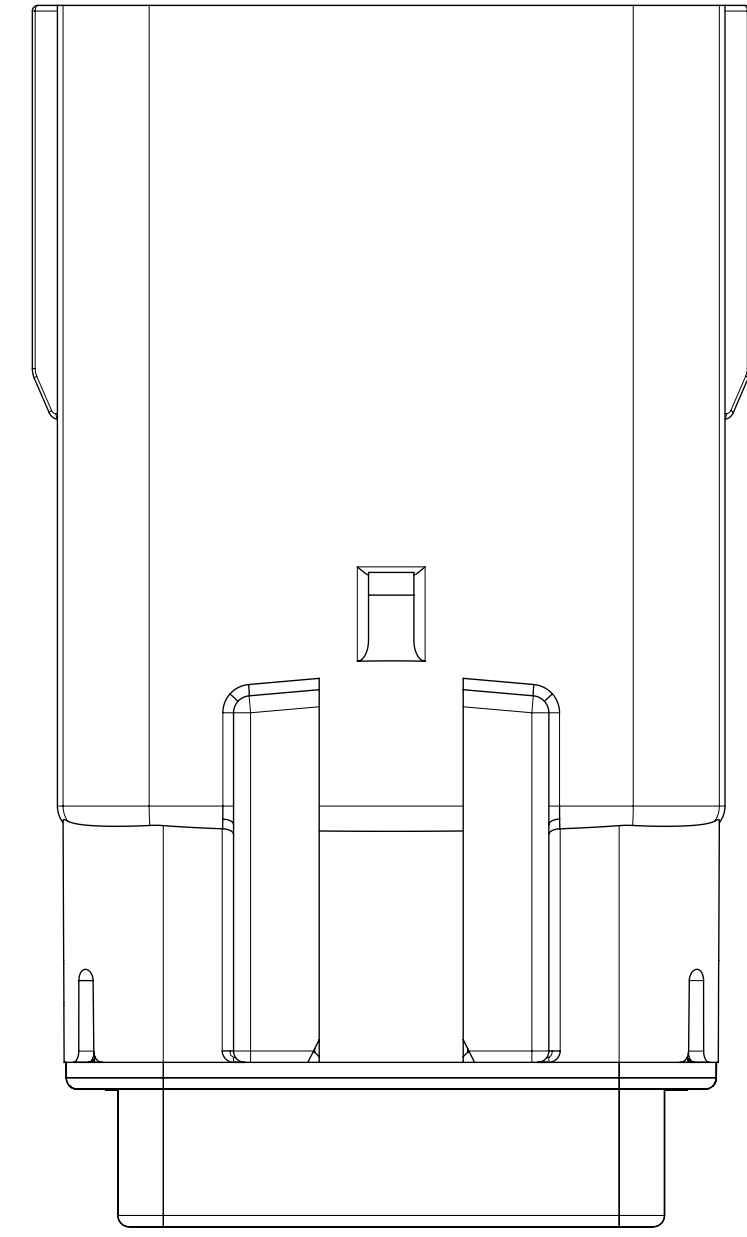
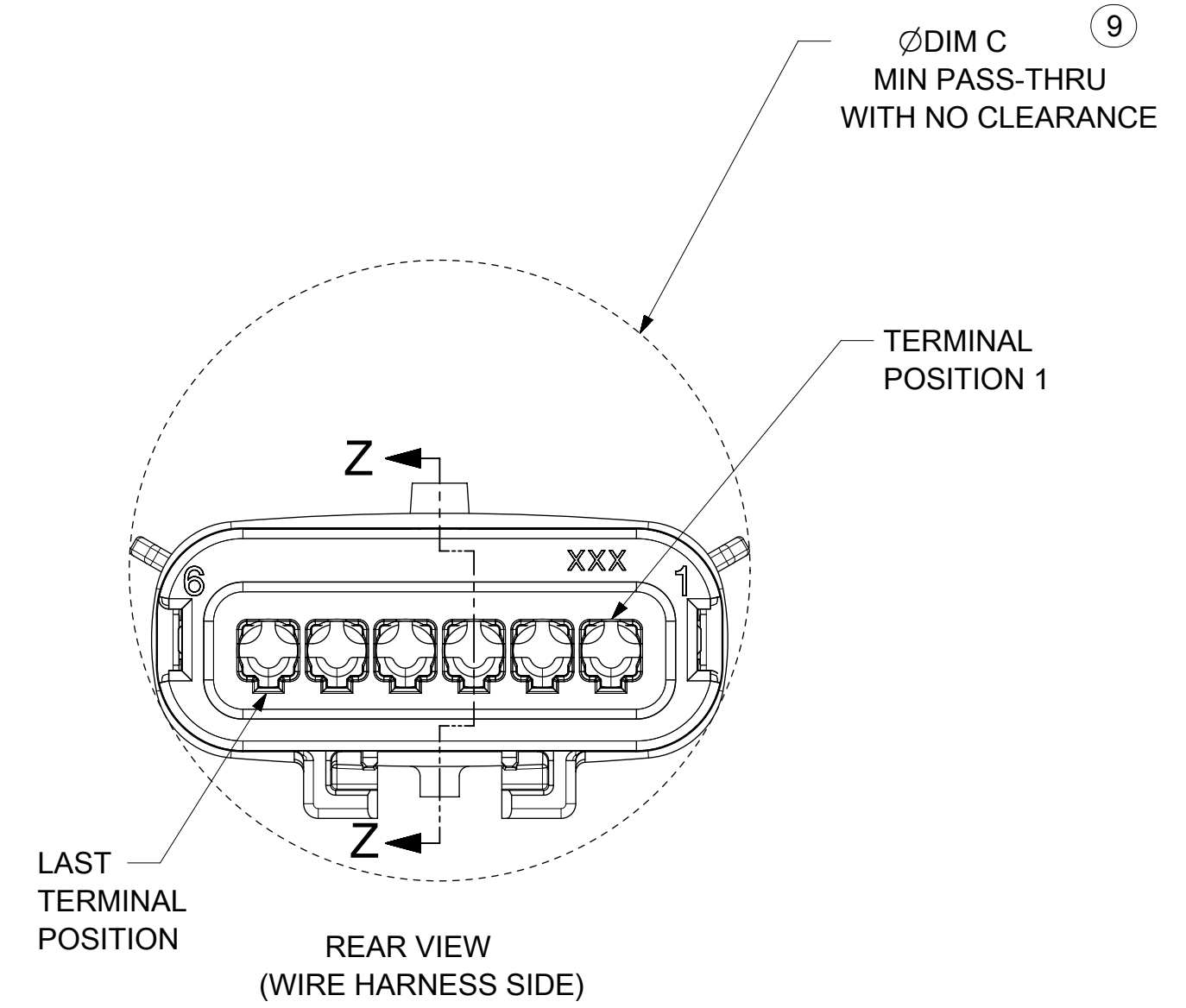
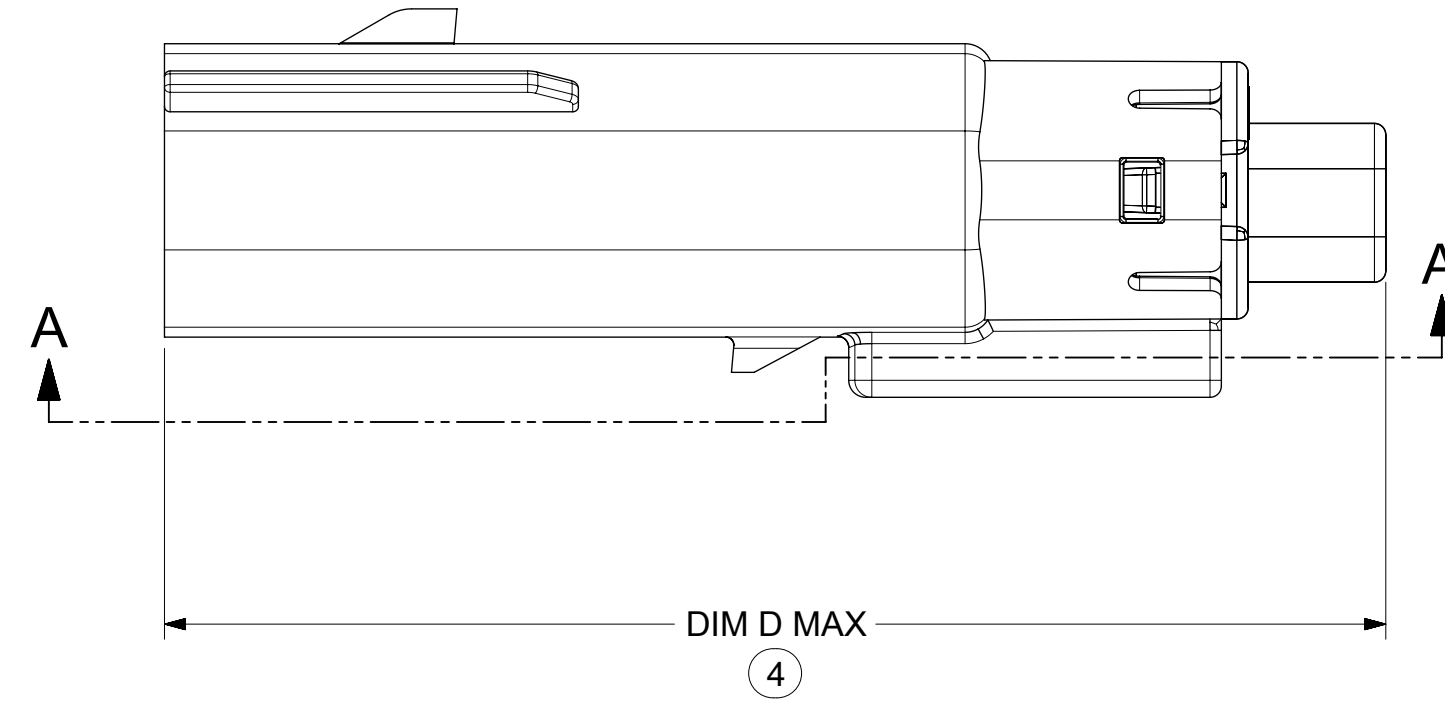
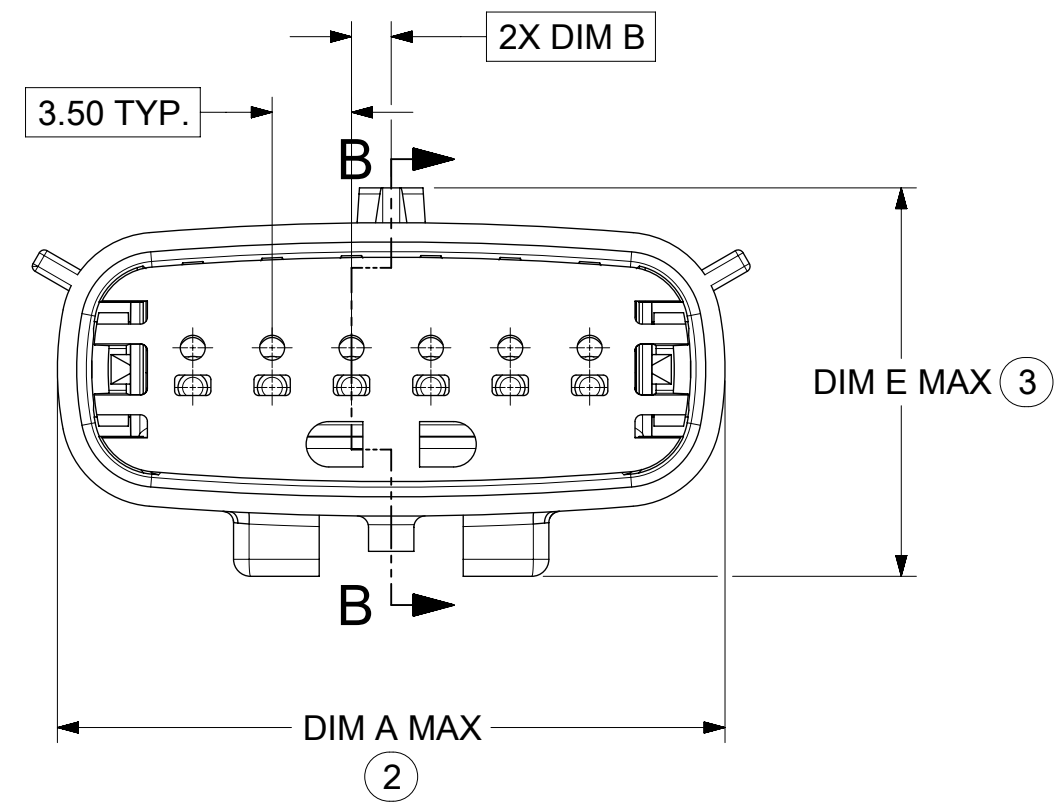
SHEET DESCRIPTION
KEY CONFIGURATIONS CONT.



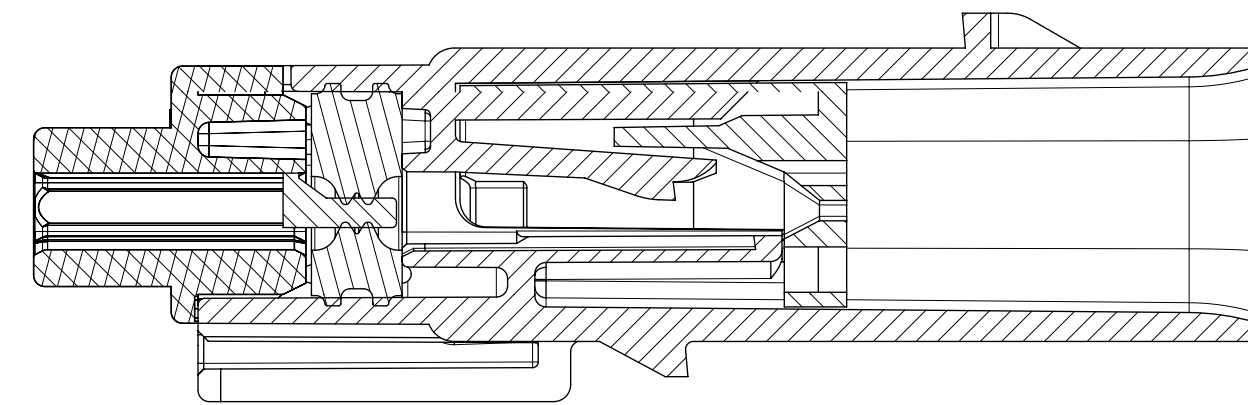
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BLADE SEALED ASSEMBLY

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



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



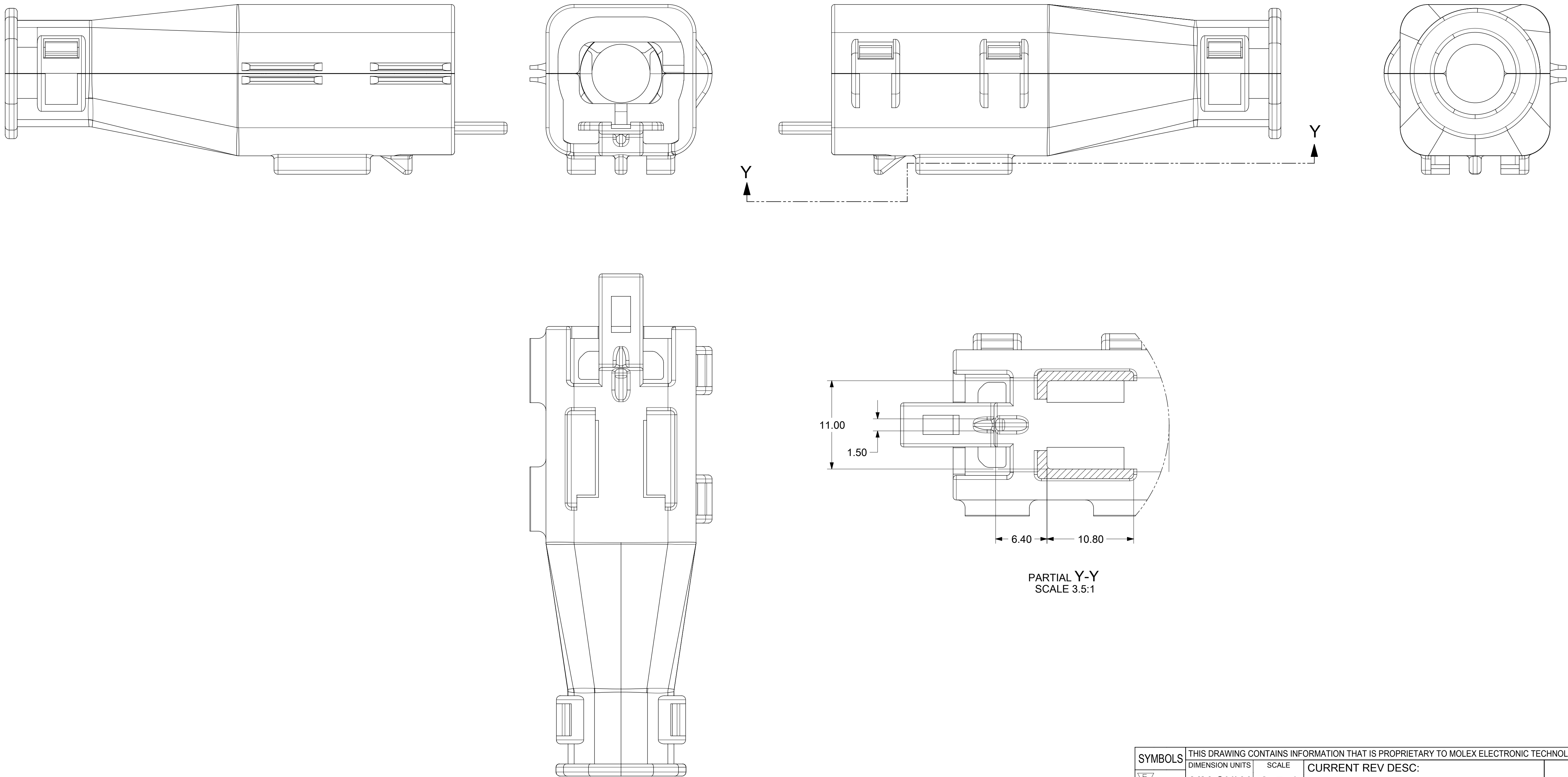
PRIMARY LOCK REINFORCEMENT (PLR) SHOWN
IN FINAL-LOCK POSITION

SECTION Z-Z

SYMBOLS		THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX ELECTRONIC TECHNOLOGIES, LLC AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION									
DIMENSION UNITS		SCALE		CURRENT REV DESC:							
MM ONLY		3:1									
GENERAL TOLERANCES (UNLESS SPECIFIED)								MX150 BLADE SINGLE ROW SEALED ASSY MAT SEAL			
ANGULAR TOL ± 1.0 °											
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DOCUMENT STATUS	P1	RELEASE DATE	2018/10/04	15:02:02
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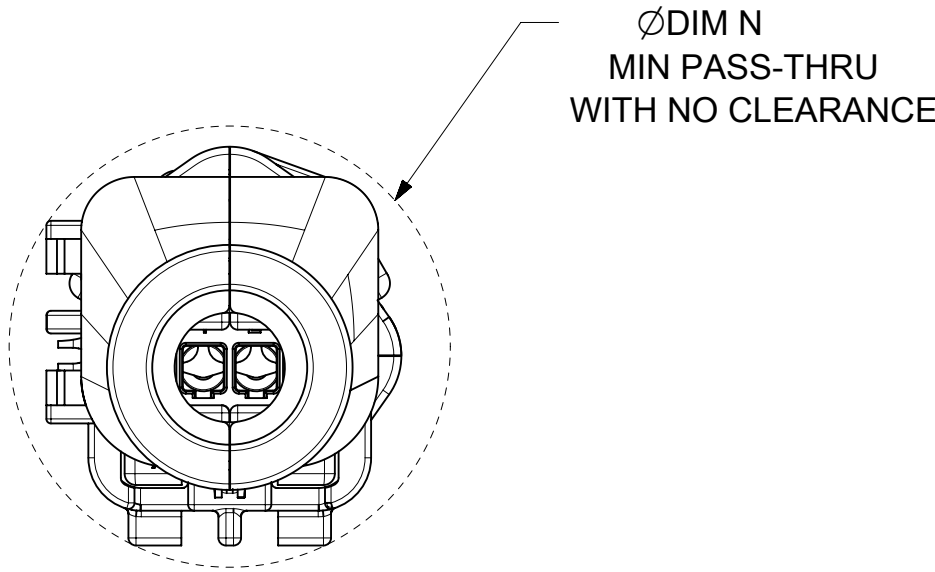
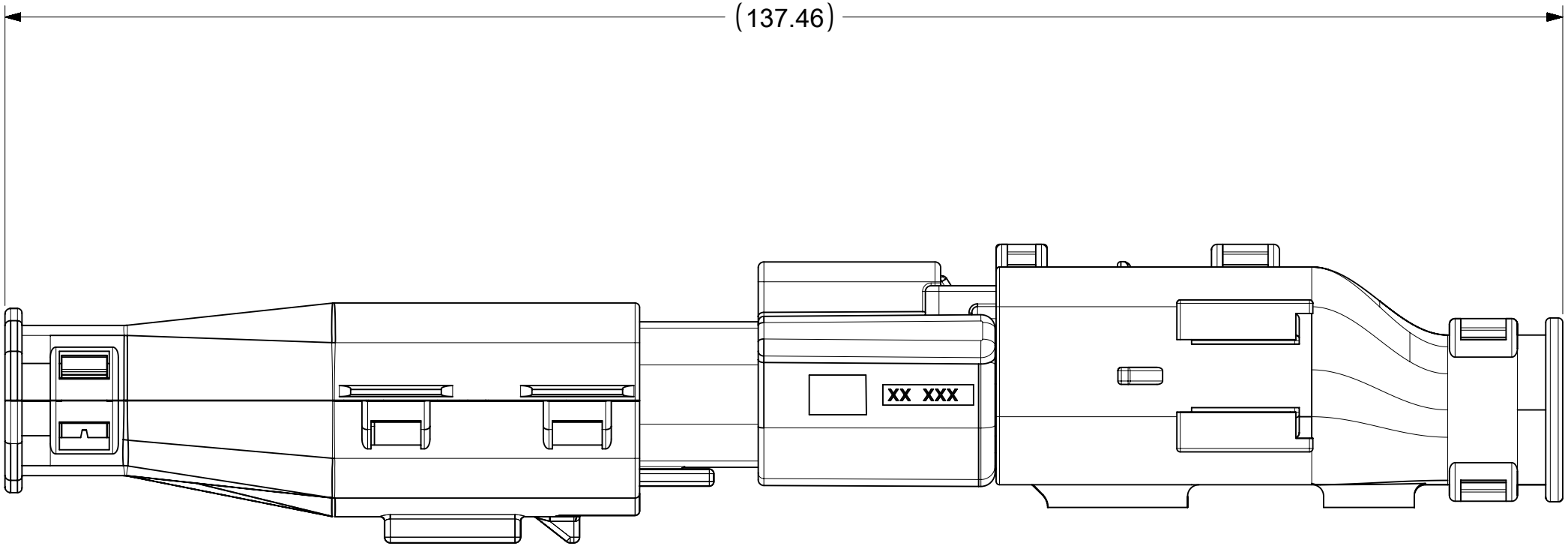
SHEET DESCRIPTION
BACKSHELL



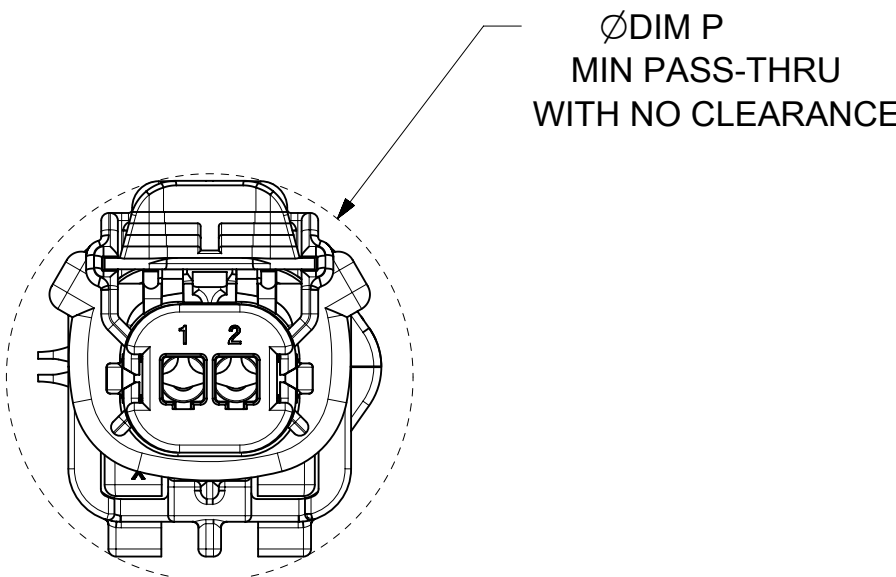
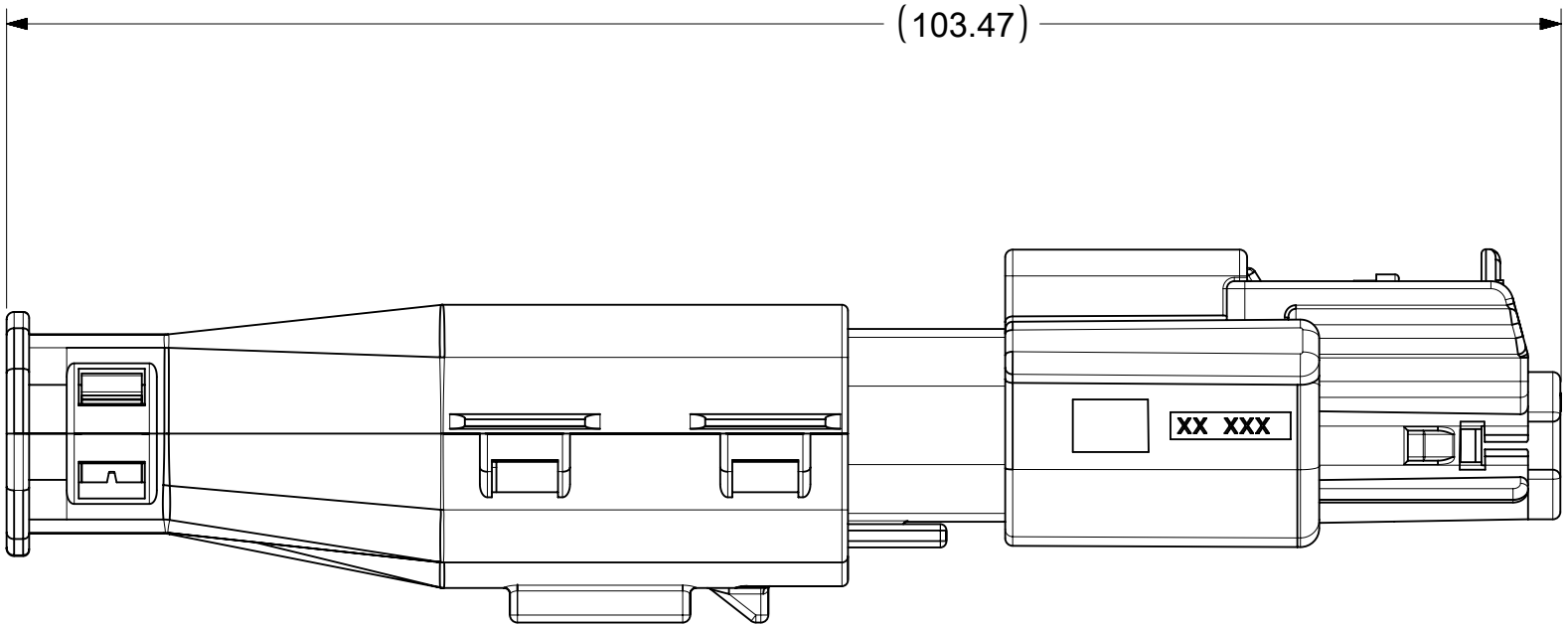
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	3 PLACES		±		EC NO: 602373 DRWN: DSHETTY01 2018/05/25 CHK'D: MVANSLAMBROU 2018/10/04 APPR: MVANSLAMBROU 2018/10/04 MX150 BLADE SINGLE ROW SEALED ASSY MAT SEAL			PRODUCT CUSTOMER DRAWING				
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THIRD ANGLE PROJECTION		DRAWING A1-SIZE				SERIES 33481	MATERIAL NUMBER SEE NOTE 2a.	CUSTOMER GENERAL MARKET	SHEET NUMBER 8 OF 9			

SHEET DESCRIPTION
BACKSHELL CONFIGURATIONS

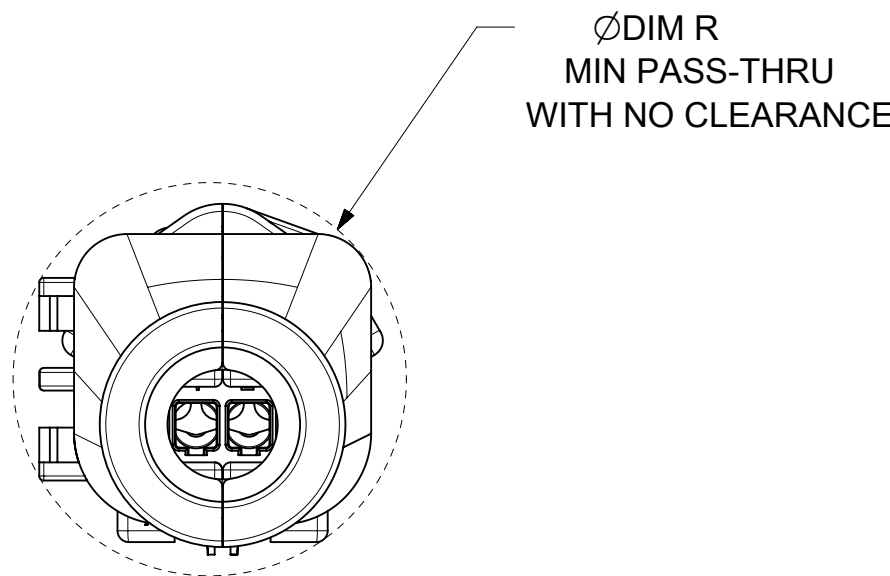
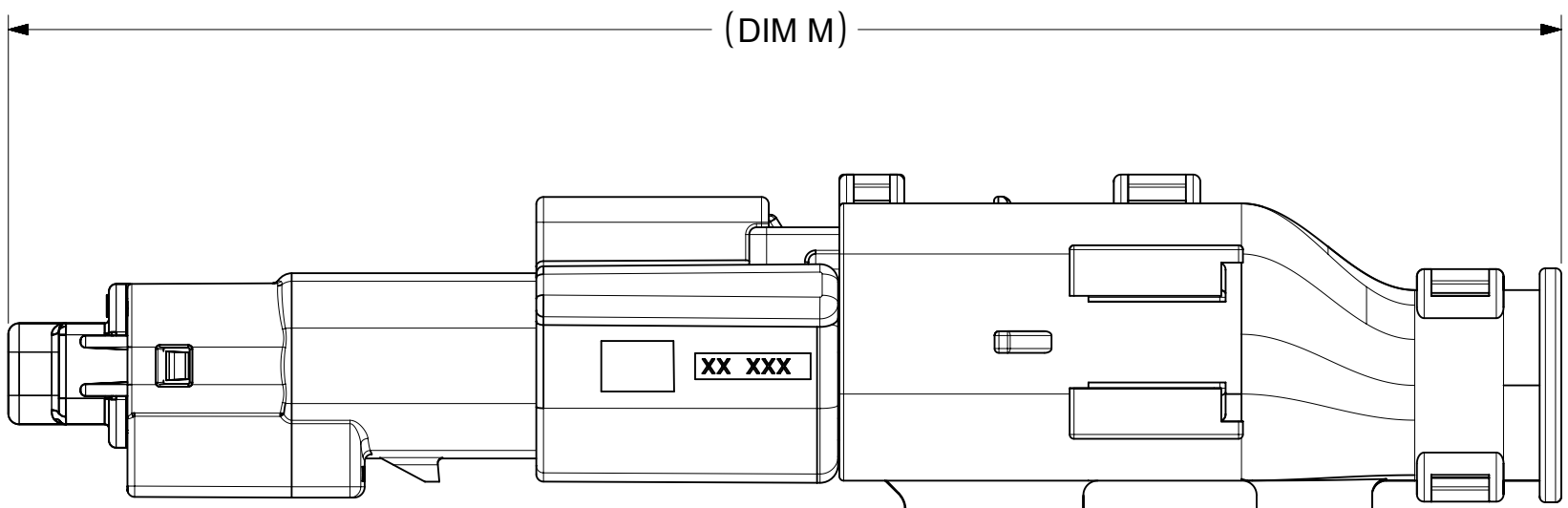
CHARTED DIMENSIONS							
CKT	BLADE CONFIGURATION	RECEPTACLE CONFIGURATION	DIMENSIONS				
			M	N	P	R	S
1X2	STANDARD	STANDARD	107.84	29.50	27.00	26.25	25.00



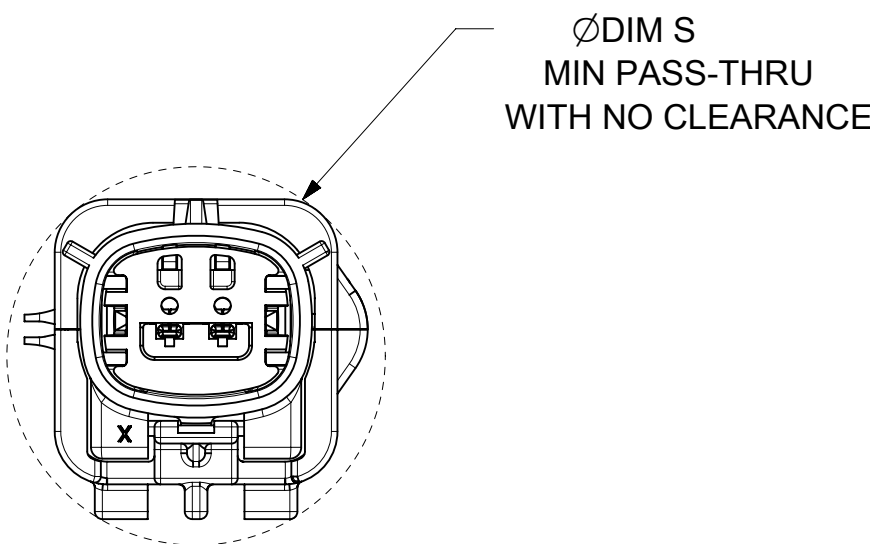
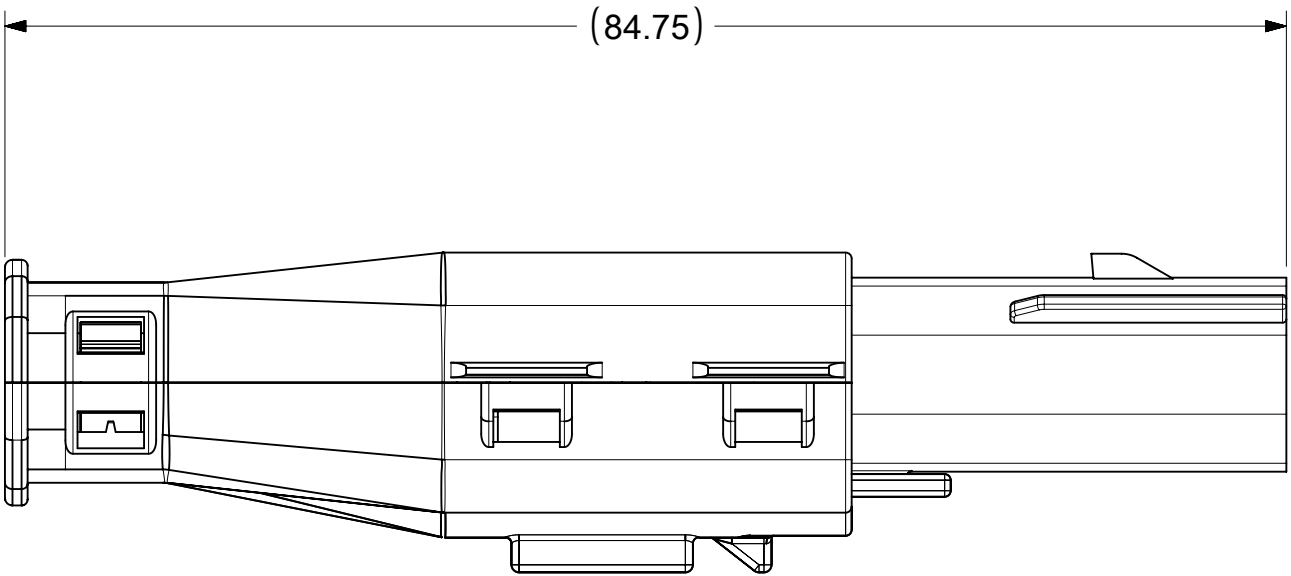
OVERALL MATED SYSTEM WITH BLADE AND RECEPTACLE BACKSHELL



OVERALL MATED SYSTEM WITH BLADE BACKSHELL



OVERALL MATED SYSTEM WITH RECEPTACLE BACKSHELL

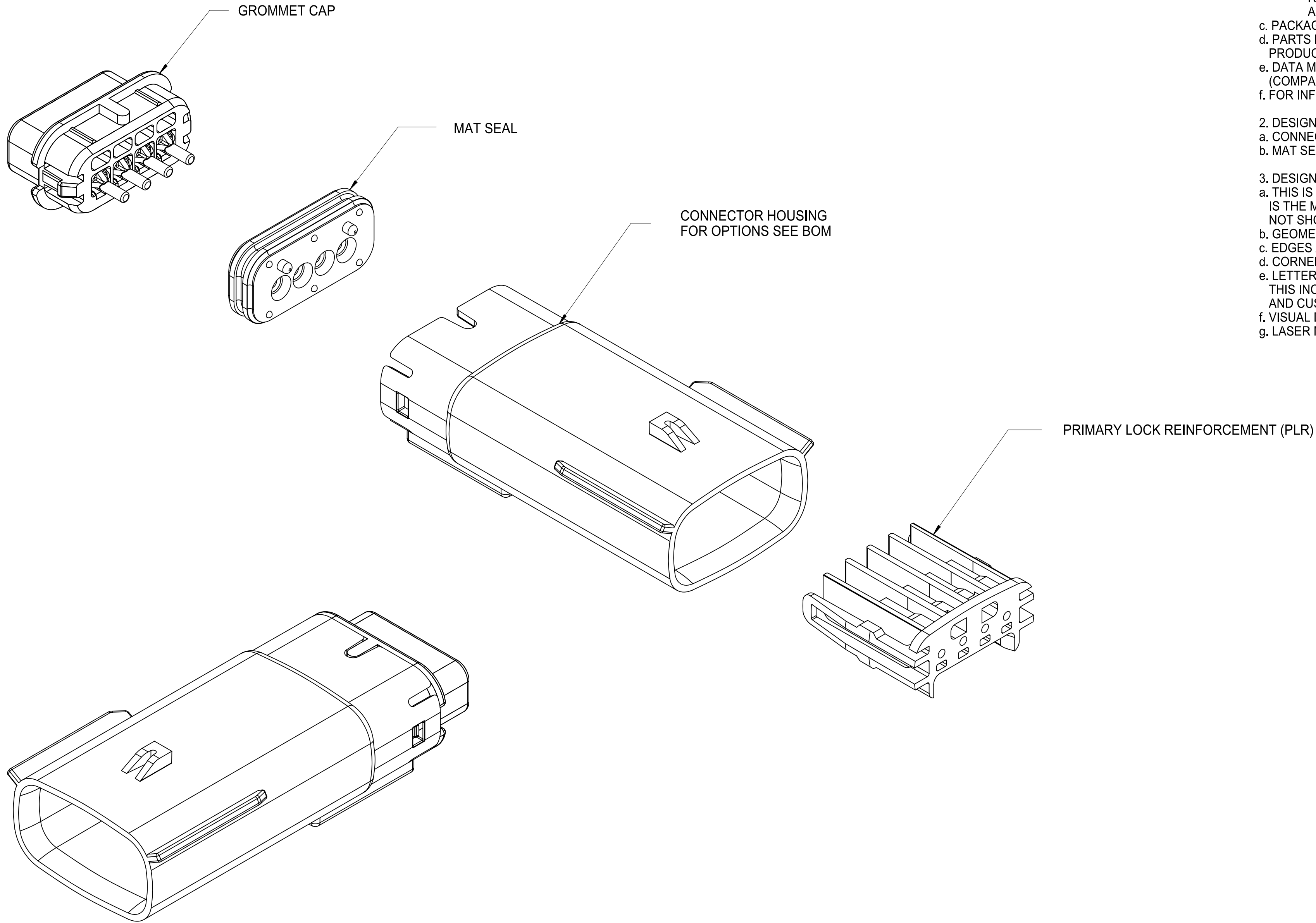


BLADE SEALED ASSEMBLY WITH BLADE BACKSHELL

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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▽ = 0		ANGULAR TOL ± 1.0 °				EC NO: 602373				MX150 BLADE SINGLE ROW SEALED ASSY MAT SEAL									
▽ = 0		4 PLACES ±		DRWN: DSHETTY01 2018/05/25															
▽ = 0		3 PLACES ±		CHK'D: MVANSLAMBROU 2018/10/04															
▽ = 0		2 PLACES ± 0.1		APPR: MVANSLAMBROU 2018/10/04		PRODUCT CUSTOMER DRAWING													
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⊠ = 0		DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS				THIRD ANGLE PROJECTION		DRAWING		SERIES		DOCUMENT NUMBER		DOC TYPE		DOC PART		REVISION	
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▽ = 0				⊙ ⏏						MATERIAL NUMBER		CUSTOMER				SHEET NUMBER			
										SEE NOTE 2a.		GENERAL MARKET				9 OF 9			

DOCUMENT STATUS	P1	RELEASE DATE	2018/10/04 15:02:02
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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-33471-041.
-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>>
-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)
- f. FOR INFORMATION ON 1X4 BLADE SEALED ASSEMBLY WITH SHORTING BAR SEE SD-31280-200.

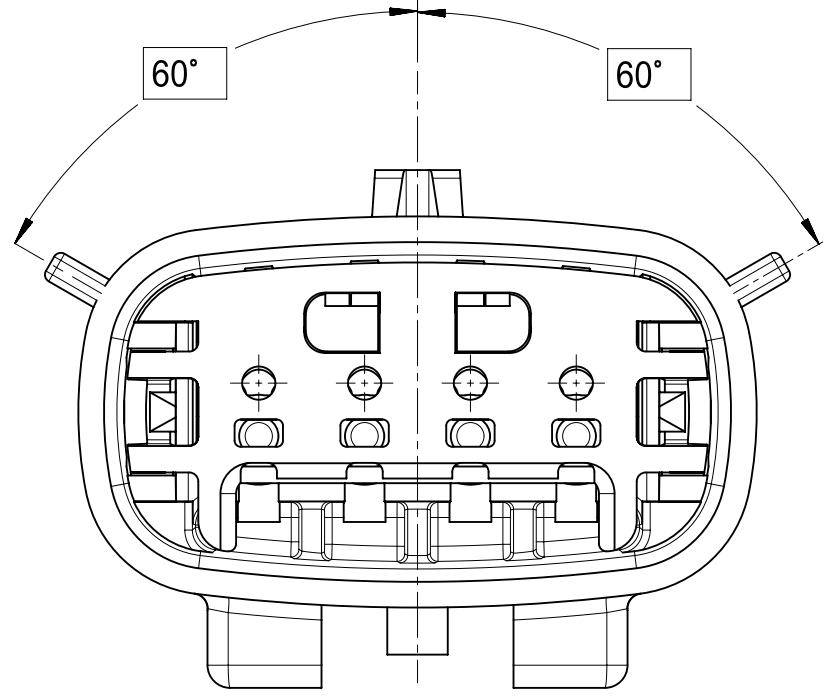
2. DESIGN - MATERIALS:
- a. CONNECTOR HOUSING, GROMMET CAP, PLR: SPS/NYLON BLEND 20% GLASS FILLED
- b. MAT SEAL: INHERENTLY LUBRICATED SILICONE

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

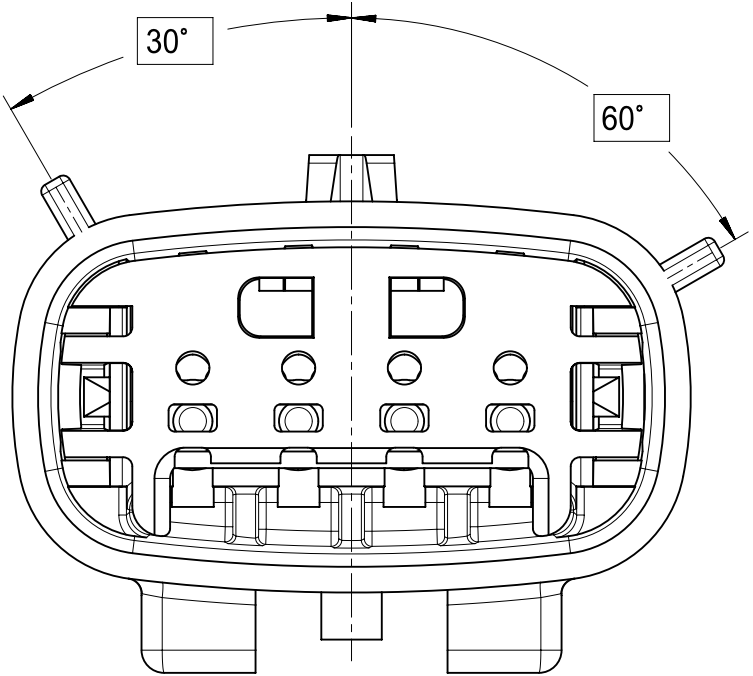
W4		UPDATED THE STATUS OF P/NS ON SHEET 5 33481-04XX) TO OBSOLETE PER PCN 512135 ADDED SALEABLE STATUS OF P/NS (33481-44XX) ON SHEET 5 P/NS 334814408 THRU 334814409 AND 334814412 THRU 334814412 WHICH HAVE BEEN MARKED NOT RECOMMENDED IN THE COMMENTS													
REV #		DESCRIPTION													
THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX ELECTRONIC TECHNOLOGIES, LLC AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION															
DIMENSION UNITS	SCALE	CURRENT REV DESC: UPDATED PARTS STATUS EC NO: CO-000001228 DRWN: MattYoung 21-Jul-2022 CHK'D: Joe Fox 01-Aug-2022 APPR: Katy Boruszewski 02-Aug-2022 INITIAL REVISION: DRWN: RFC_PLMIMP APPR:				molex MX150 1X4 BLADE SEALED ASSEMBLY MAT SEAL									
mm	3:1														
GENERAL TOLERANCES (UNLESS SPECIFIED)															
ANGULAR TOL ± 3 °	EC NO: CO-000001228					PRODUCT SALES DRAWING DOCUMENT NUMBER SD-33481-041 DOC TYPE PSD DOC PART 001 REVISION W4									
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3 PLACES ± 0	CHK'D: Joe Fox 01-Aug-2022														
2 PLACES ± 0.1	APPR: Katy Boruszewski 02-Aug-2022														
1 PLACE ± 0.3	INITIAL REVISION:														
0 PLACES ± 0	DRWN: RFC_PLMIMP														
DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS	THIRD ANGLE PROJECTION	DRAWING	SERIES	MATERIAL NUMBER		CUSTOMER			SHEET NUMBER						
		D-SIZE	33481			GENERAL MARKET			1 OF 5						

DOCUMENT STATUS	Approved	RELEASE DATE	02-Aug-2022 14:03:58
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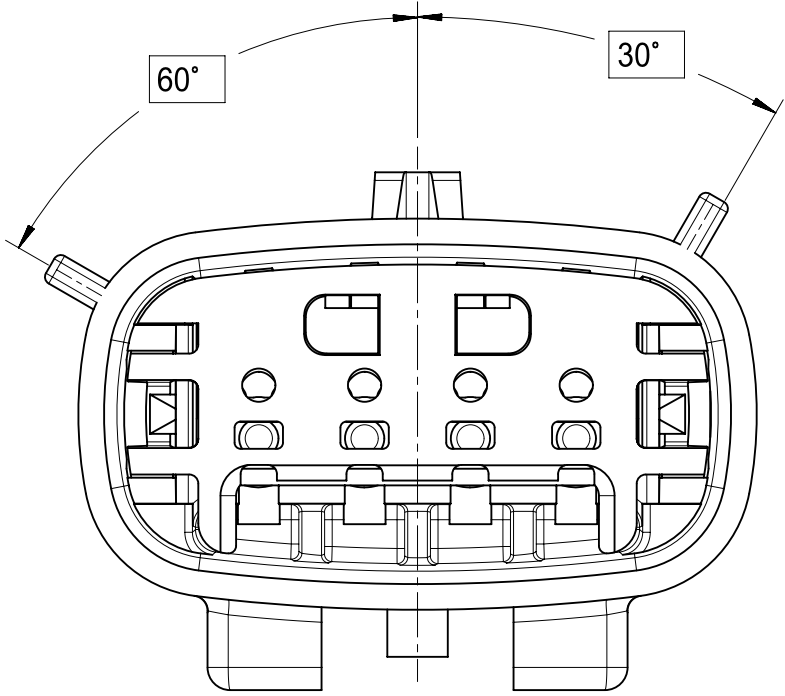
KEY CONFIGURATIONS



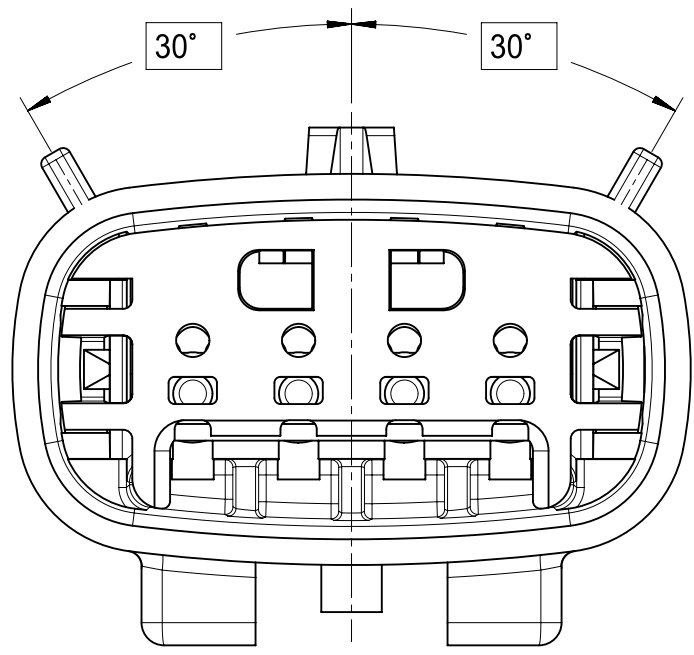
KEY A



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

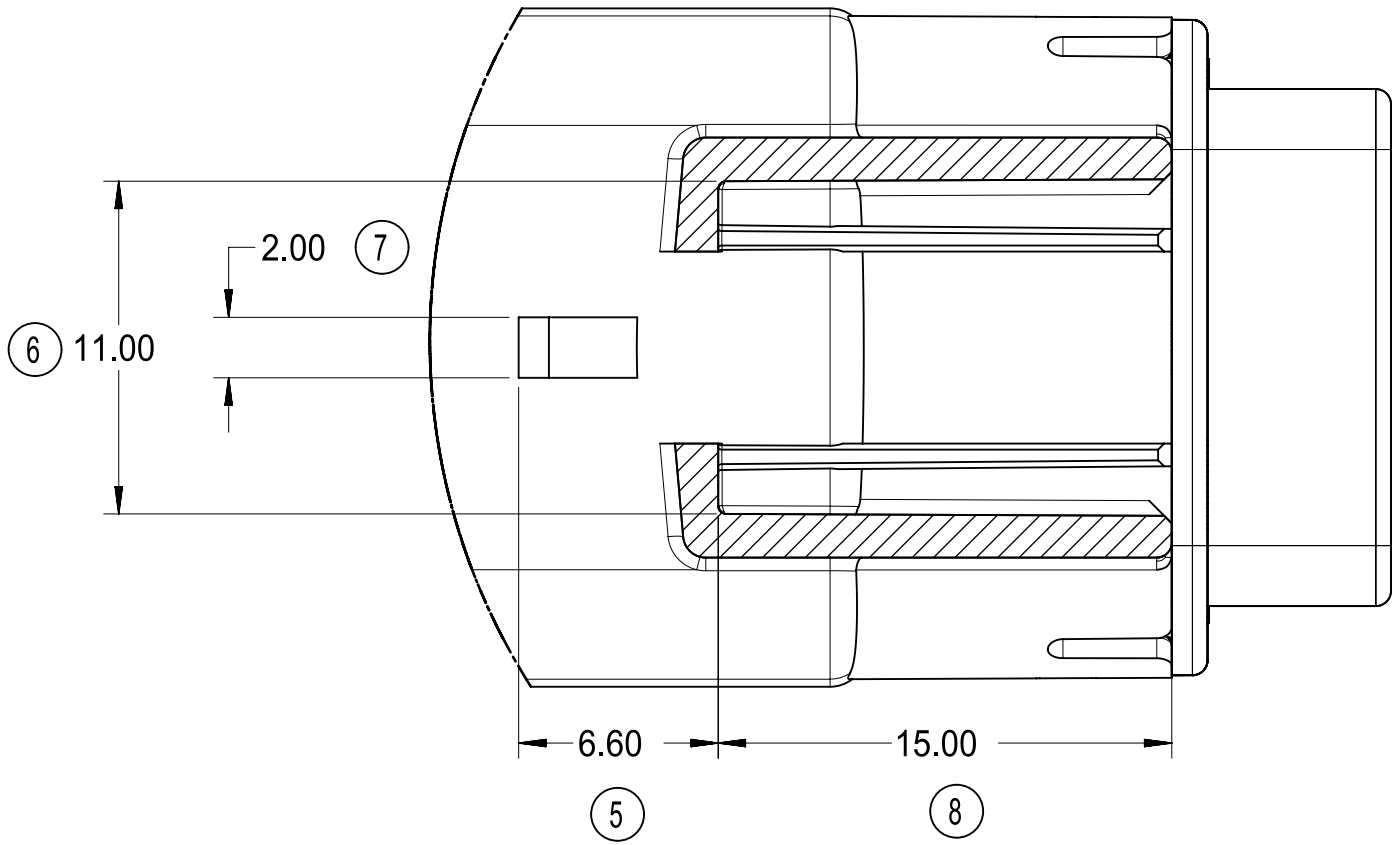
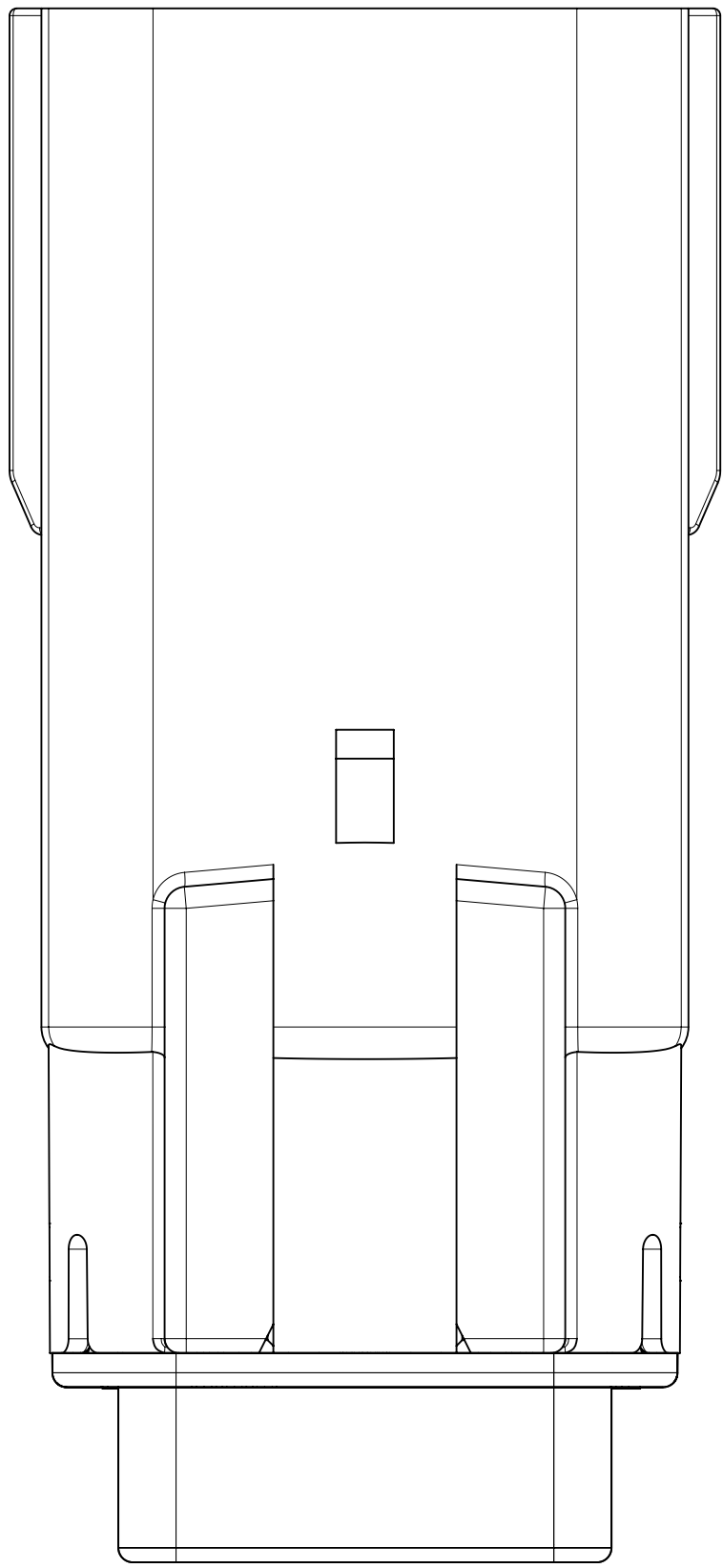
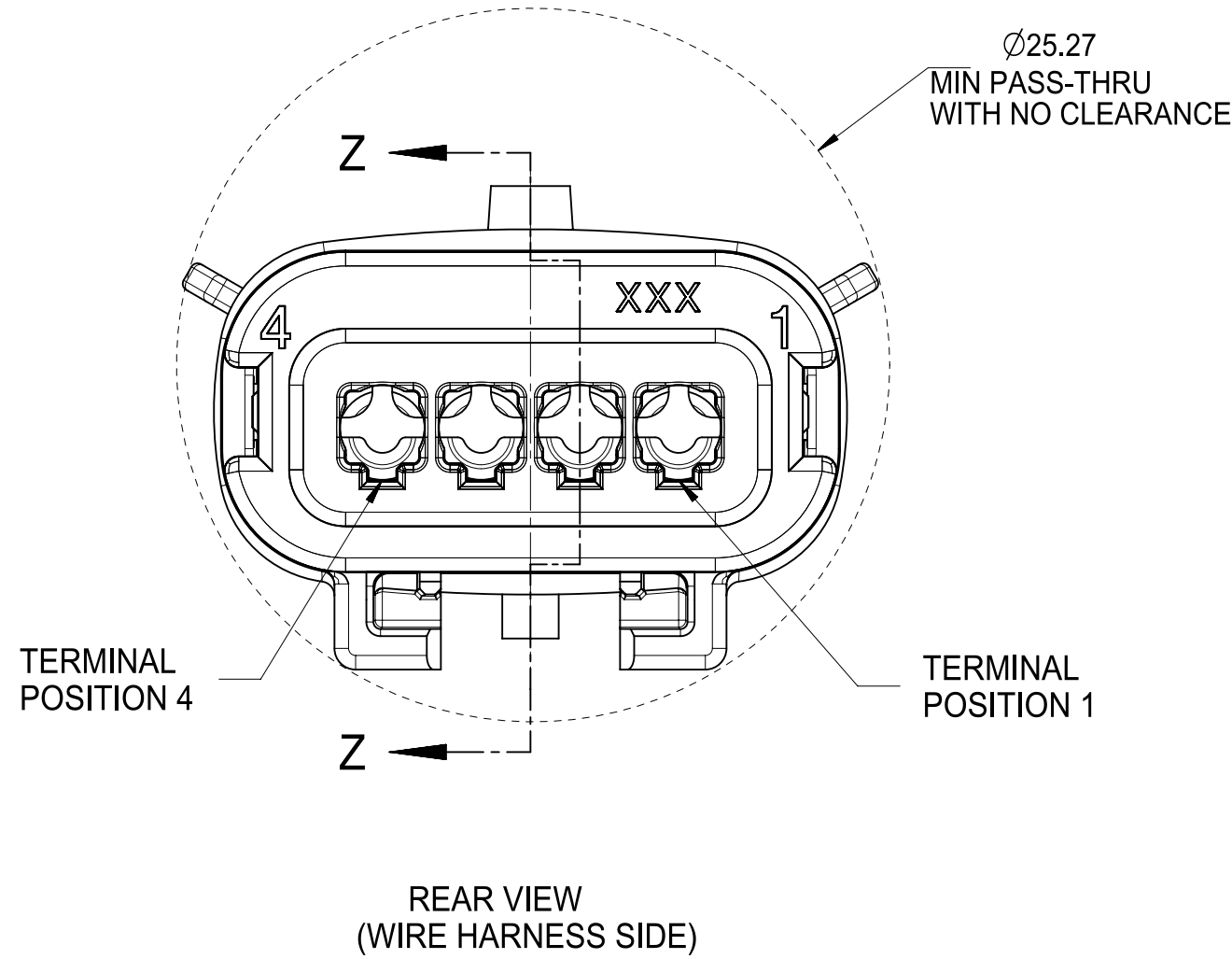
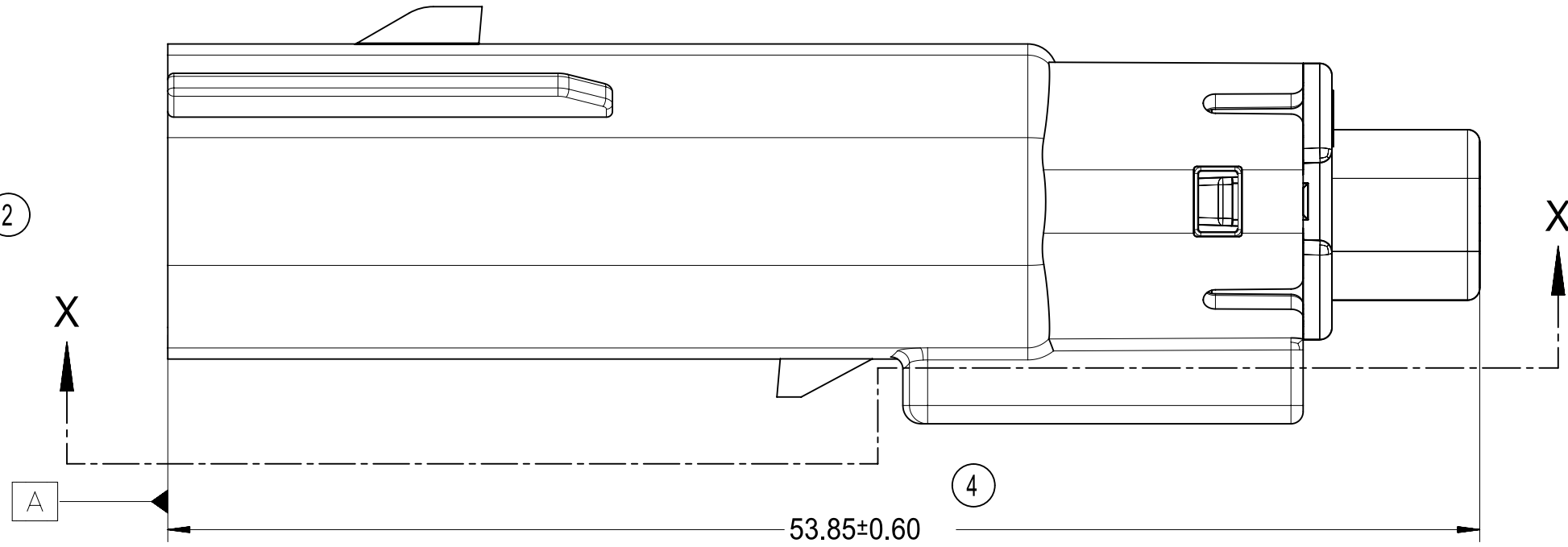
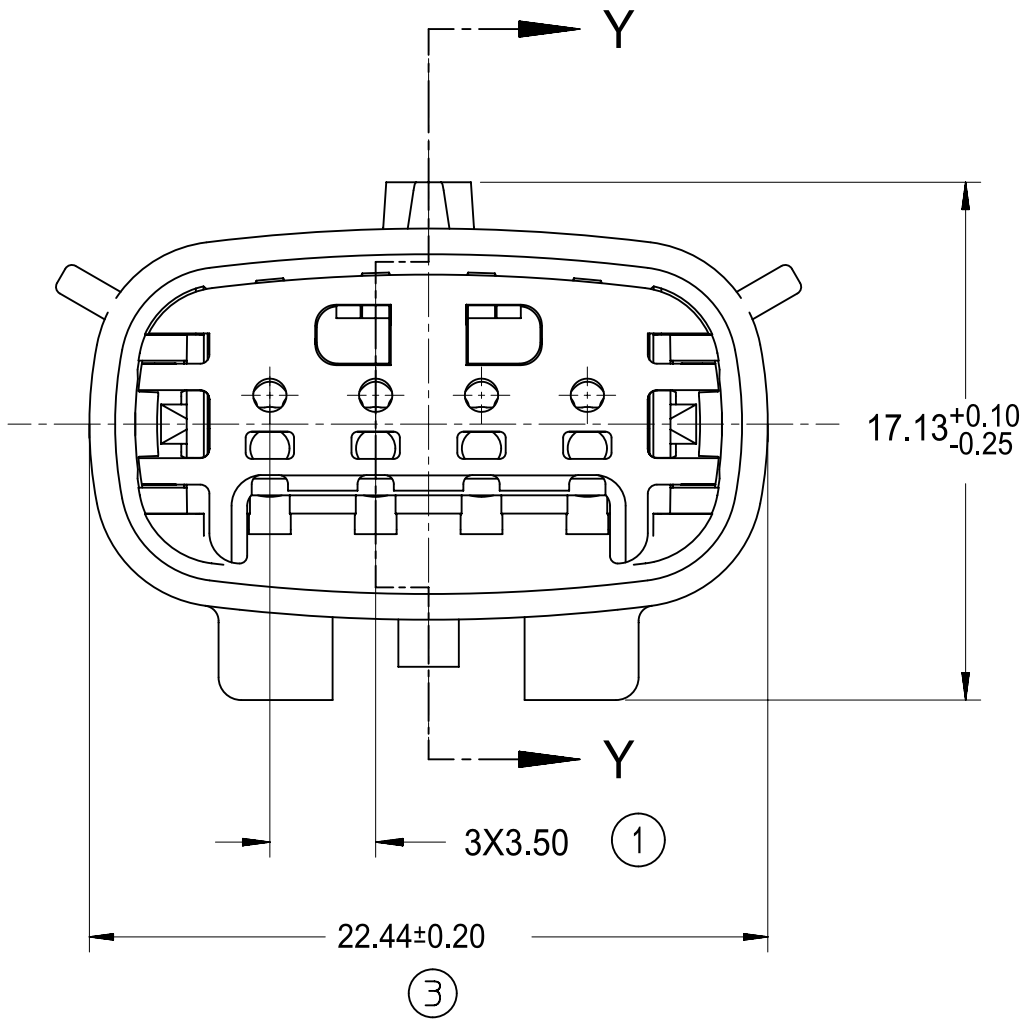
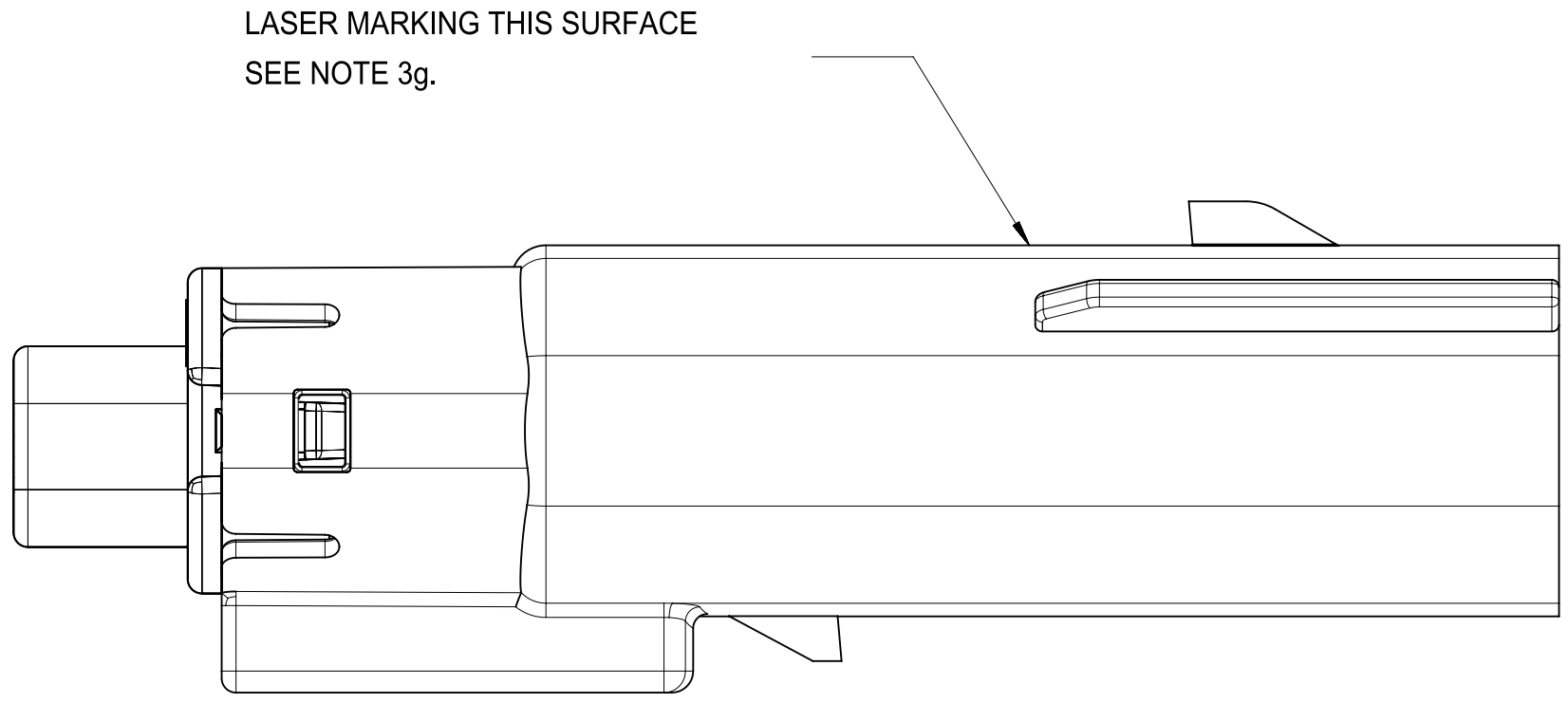
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4 PLACES	± 0	DRWN: MattYoung 21-Jul-2022		
3 PLACES	± 0	CHK'D: Joe Fox 01-Aug-2022		
2 PLACES	± 0.1	APPR: Katy Boruszewski 02-Aug-2022		
1 PLACE	± 0.3	INITIAL REVISION:		
0 PLACES	± 0	DRWN: RFC_PLMIMP		
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			D-SIZE	33481

molex

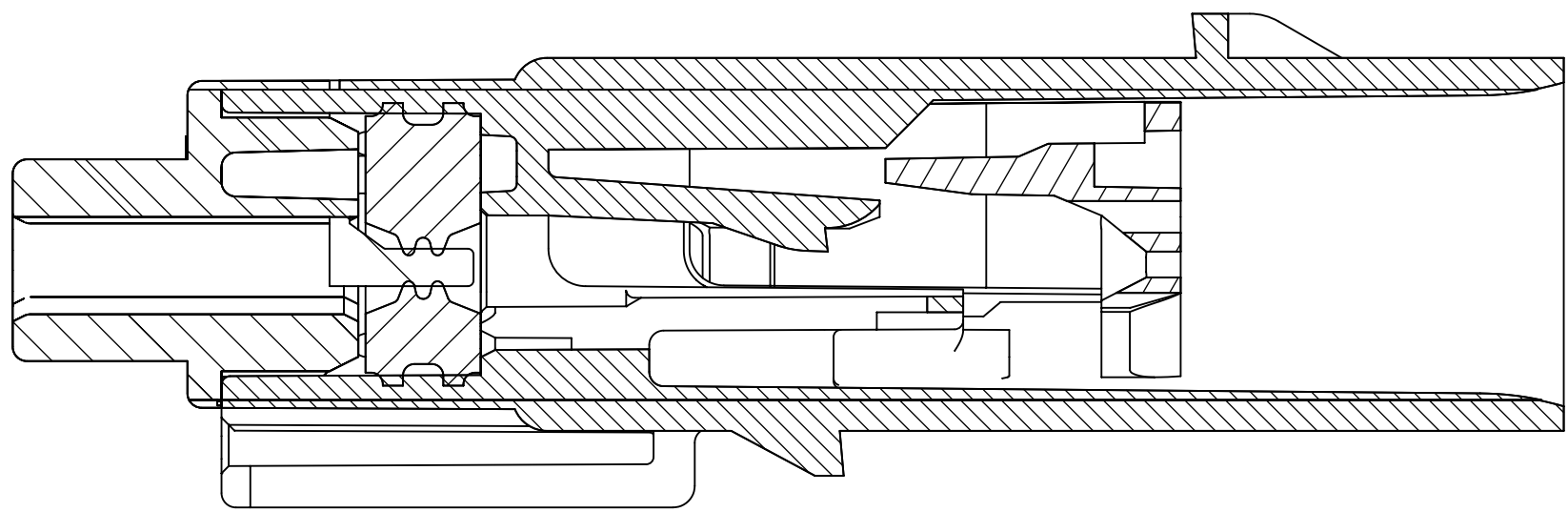
MX150 1X4 BLADE
SEALED ASSEMBLY MAT SEAL

PRODUCT SALES DRAWING

DOCUMENT NUMBER	DOC TYPE	DOC PART	REVISION
SD-33481-041	PSD	001	W4
MATERIAL NUMBER	CUSTOMER		SHEET NUMBER
	GENERAL MARKET		2 OF 5

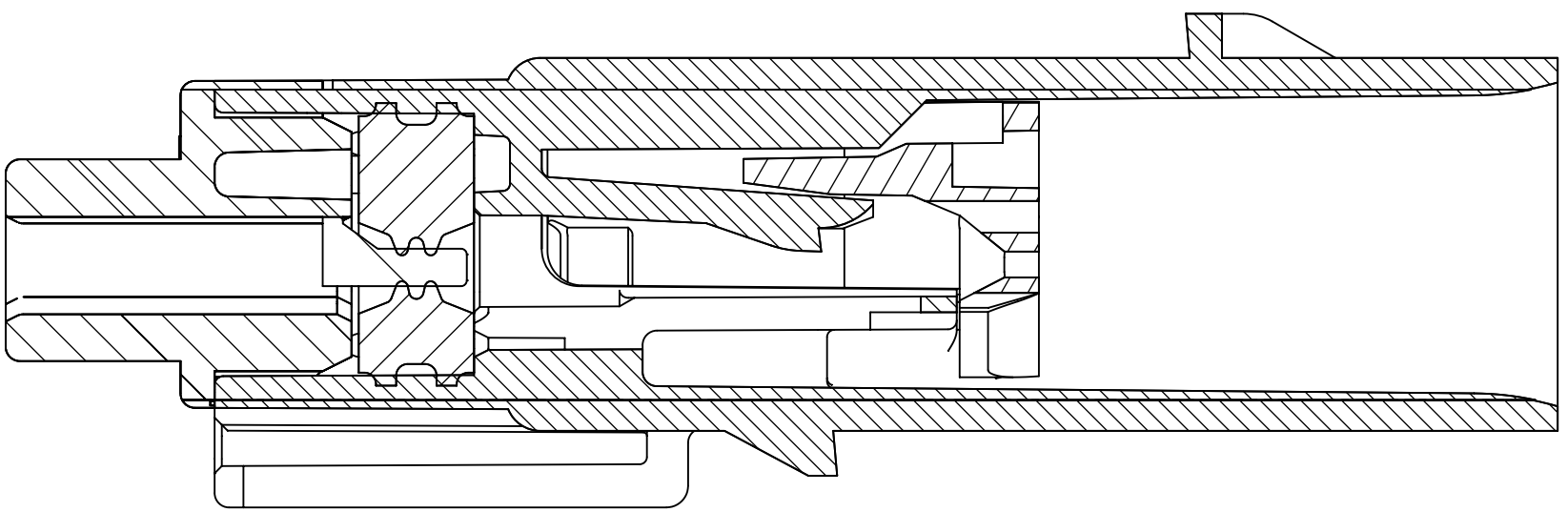


PARTIAL X-X
SCALE 4:1



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: UPDATED PARTS STATUS				molex MX150 1X4 BLADE SEALED ASSEMBLY MAT SEAL					
mm		4:1										
GENERAL TOLERANCES (UNLESS SPECIFIED)												
ANGULAR TOL		±	3°	EC NO: CO-000001228								
4 PLACES		±	0	DRWN: MattYoung		21-Jul-2022						
3 PLACES		±	0	CHK'D: Joe Fox		01-Aug-2022						
2 PLACES		±	0.1	APPR: Katy Boruszewski		02-Aug-2022						
1 PLACE		±	0.3	INITIAL REVISION:				PRODUCT SALES DRAWING				
0 PLACES		±	0	DRWN: RFC_PLMIMP				DOCUMENT NUMBER		DOC TYPE	DOC PART	REVISION
				APPR:				SD-33481-041		PSD	001	W4
DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS			THIRD ANGLE PROJECTION		DRAWING	SERIES	MATERIAL NUMBER		CUSTOMER		SHEET NUMBER	
					D-SIZE	33481			GENERAL MARKET		3 OF 5	

