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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:

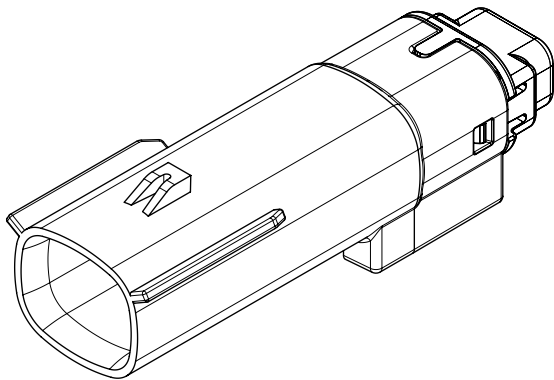
- a. FOR BILL OF MATERIALS SEE:
- STANDARD CONFIGURATION: SD-33481-0002
 - UL V0 CONFIGURATION: SD-160106-0002

3. DESIGN - GEOMETRY:

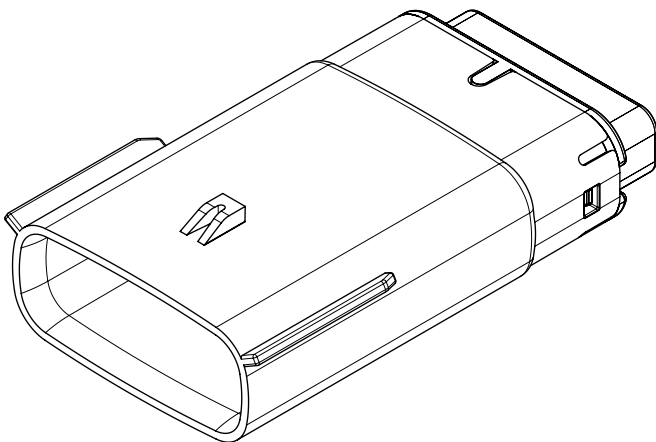
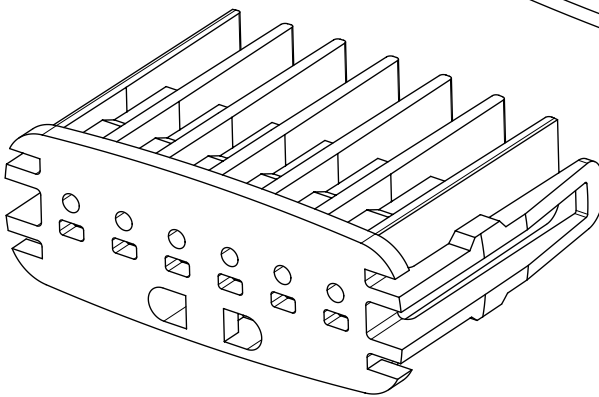
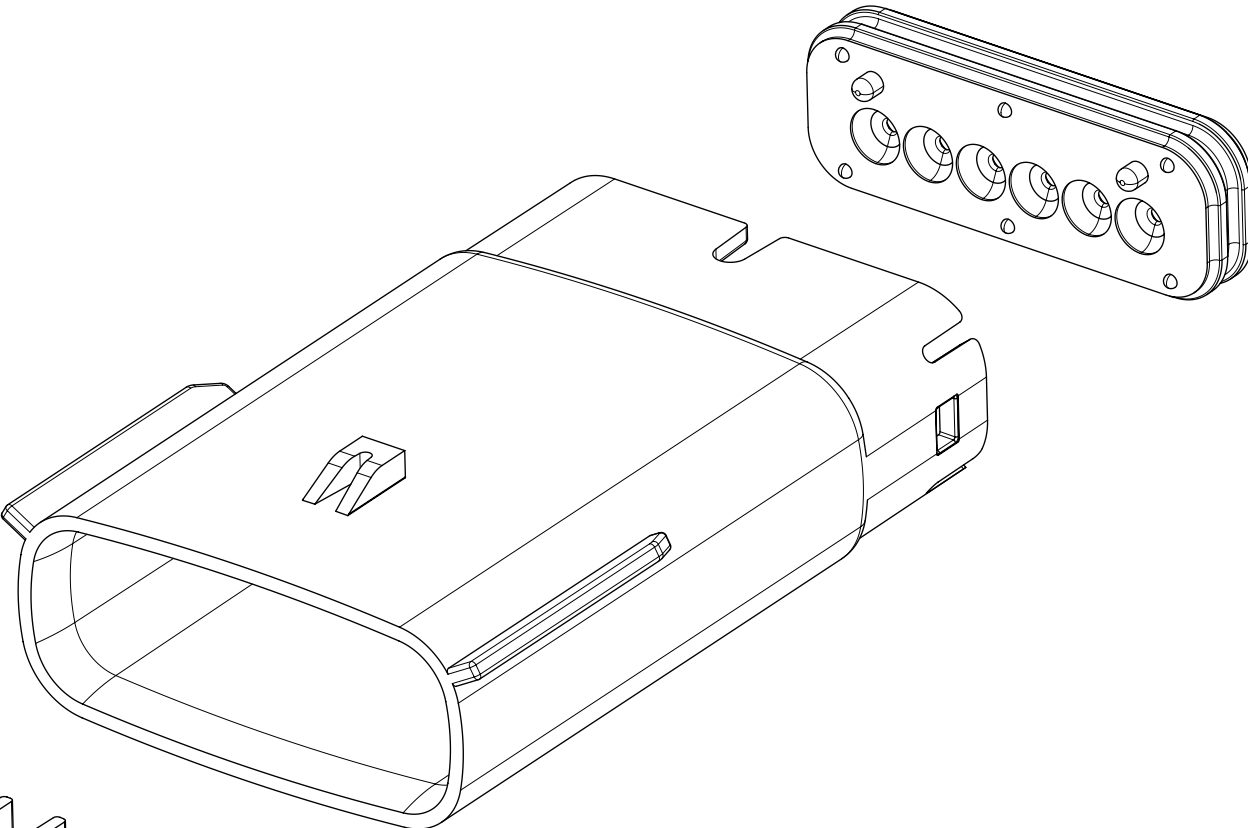
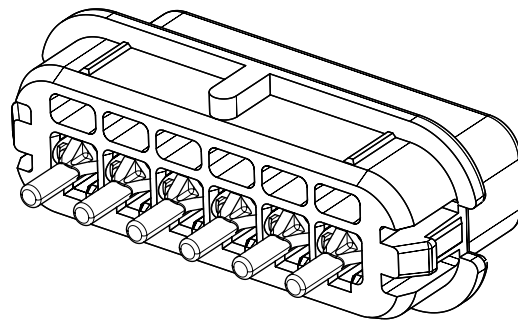
- a. THE 3-D CAD DATA IS BASIC (WITHOUT TOLERANCE) AND MASTER FOR THIS PART WITH THE EXCEPTION OF UNDERLINED DIMENSIONS. DIMENSIONAL INFORMATION NOT SHOWN ON THIS DRAWING IS DEFINED BY THE DATA FILE AT ITS LATEST REVISION.
- b. GEOMETRIC DIMENSIONS AND TOLERANCES PER ASME Y14.5M-2009
- c. EDGES AND UNDIMENSIONED 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	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:					
 = 0	MM ONLY		1.5:1							
 = 0	GENERAL TOLERANCES (UNLESS SPECIFIED)				molex					
 = 0	ANGULAR TOL ± 1.0 °									
 = 0	4 PLACES ±		EC NO: 602373			MX150 BLADE SINGLE ROW SEALED ASSY MAT SEAL				
 = 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				
 = 0	0 PLACES ±		INITIAL REVISION:							
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									SHEET NUMBER	
									1 OF 9	

molex

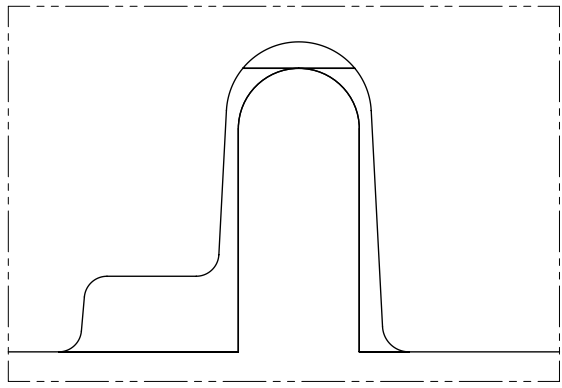
MX150 BLADE
SINGLE ROW SEALED ASSY MAT SEAL

PRODUCT CUSTOMER DRAWING

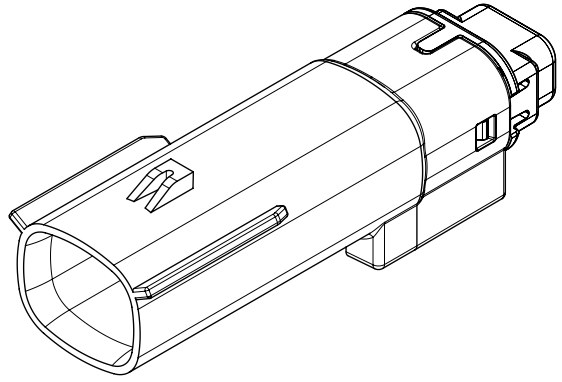
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DOCUMENT STATUS	P1	RELEASE DATE	2018/10/04	15:02:02
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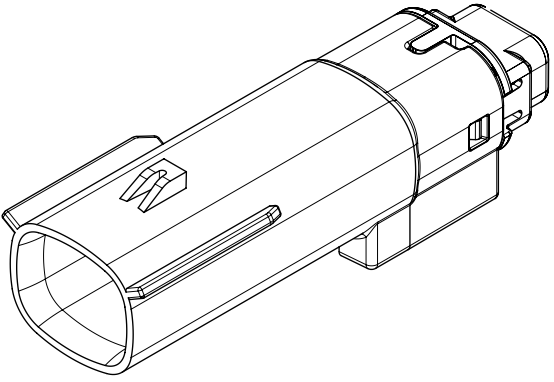
SHEET DESCRIPTION
CONFIGURATIONS



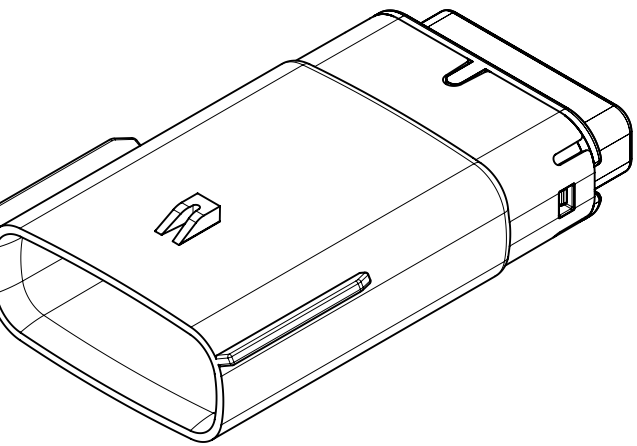
UL V0 UNIQUE FEATURE
Partial1
SCALE 10:1



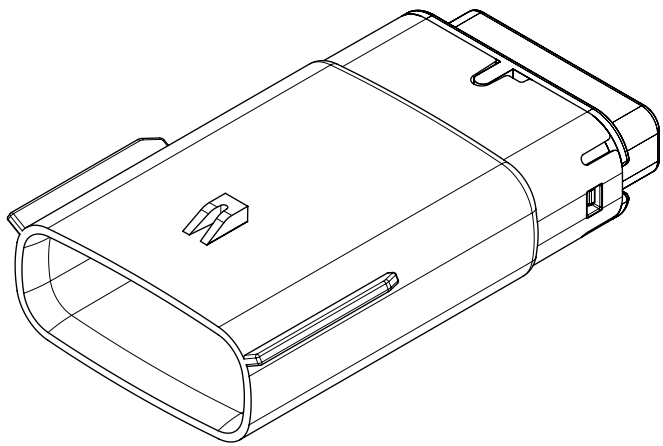
1x2 - STD



1X2 - UL V0*

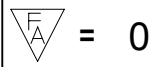
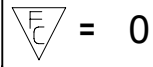
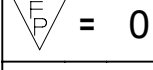
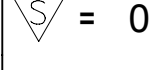
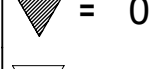
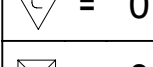
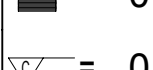
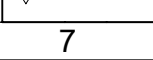


1x6 - STD



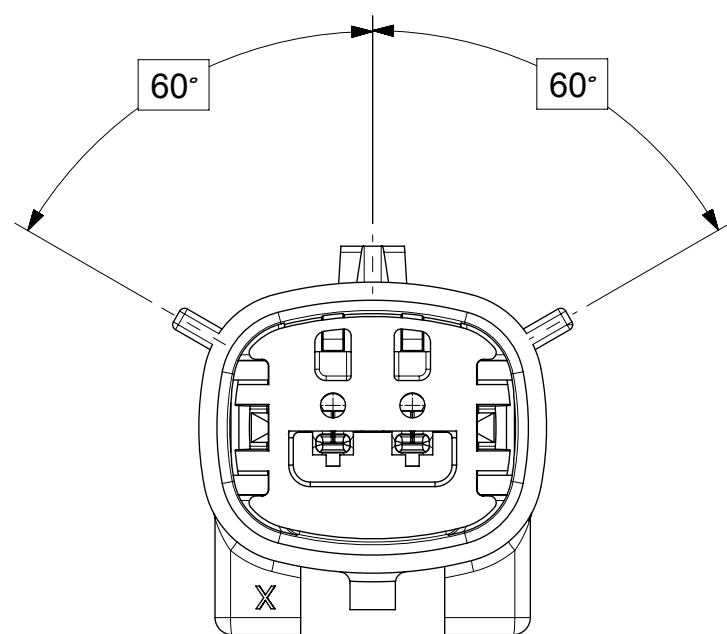
1x6 - UL V0*

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

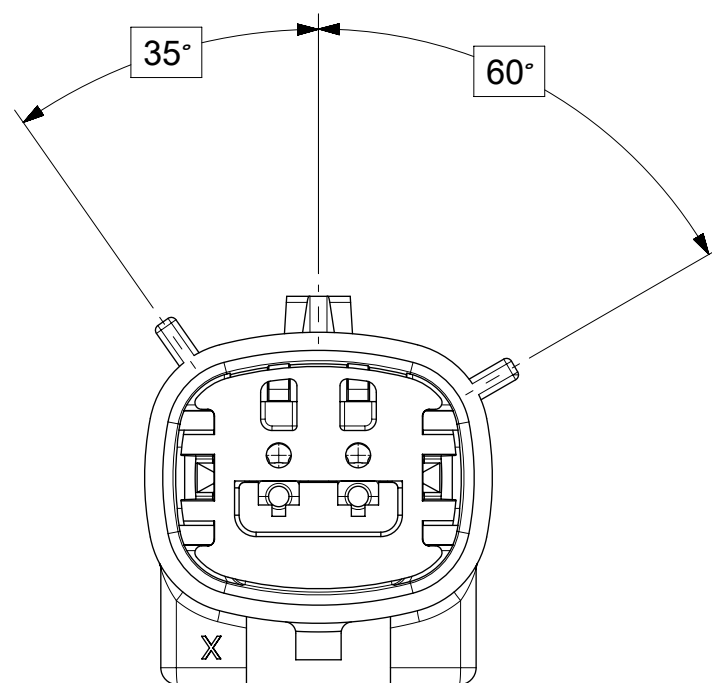
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 = 0	2 PLACES	± 0.1	PRODUCT CUSTOMER DRAWING			
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KEY CONFIGURATIONS	
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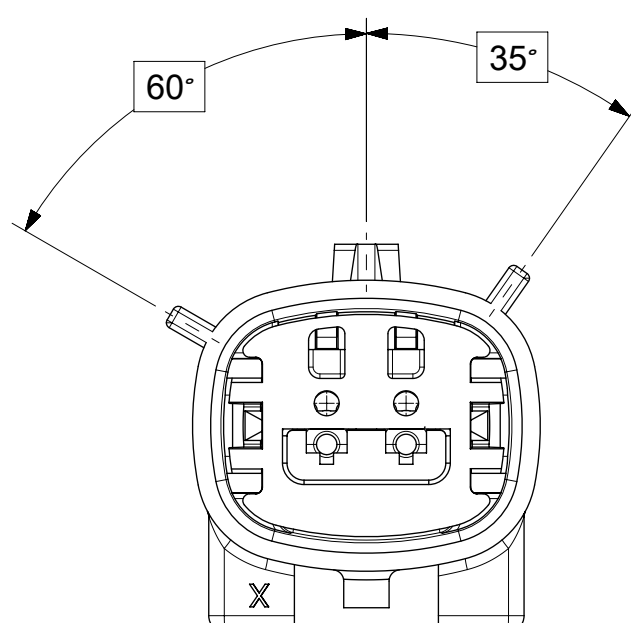
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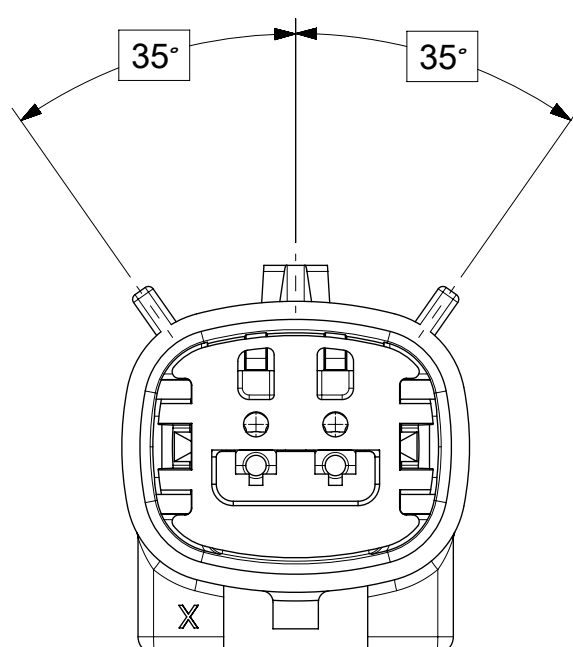
KEY A



KEY B



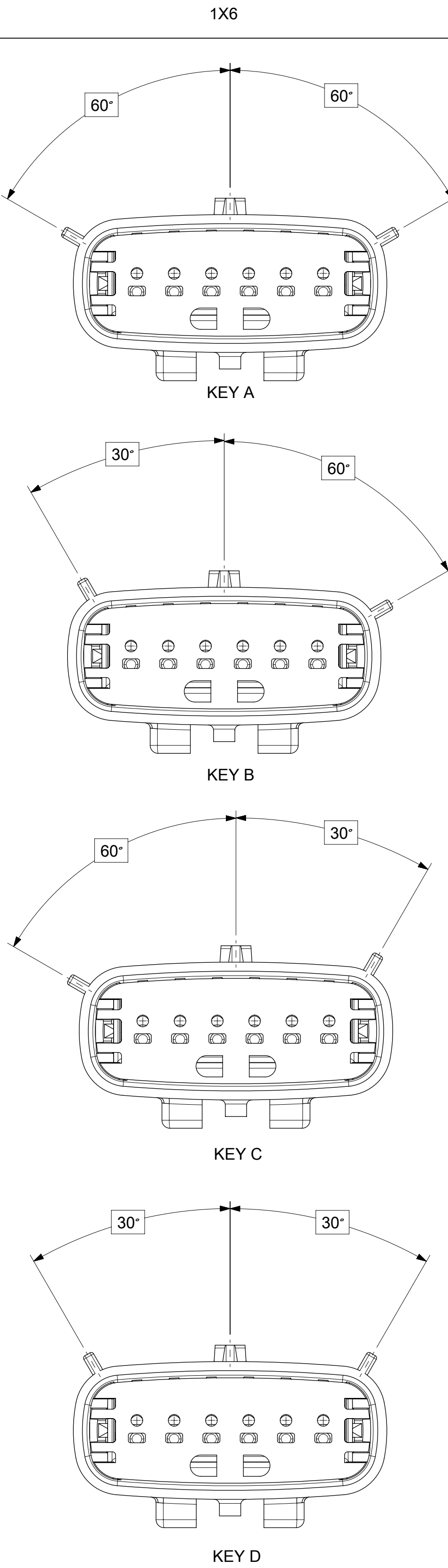
KEY C



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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MM ONLY 3:1		GENERAL TOLERANCES (UNLESS SPECIFIED) ANGULAR TOL ± 1.0 ° 4 PLACES ± 3 PLACES ± 2 PLACES ± 0.1 1 PLACE ± 0.2 0 PLACES ±		MX150 BLADE SINGLE ROW SEALED ASSY MAT SEAL		PRODUCT CUSTOMER DRAWING SD-33481-0001 PSD 001 A1					
DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		THIRD ANGLE PROJECTION DRAWING SERIES		MATERIAL NUMBER CUSTOMER		SHEET NUMBER					
		A1-SIZE 33481		SEE NOTE 2a. GENERAL MARKET		3 OF 9					

SHEET DESCRIPTION
KEY CONFIGURATIONS CONT.



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		4 PLACES ±															
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 = 0		1 PLACE ± 0.2				THIRD ANGLE PROJECTION				DOCUMENT NUMBER		DOC TYPE		DOC PART		REVISION	
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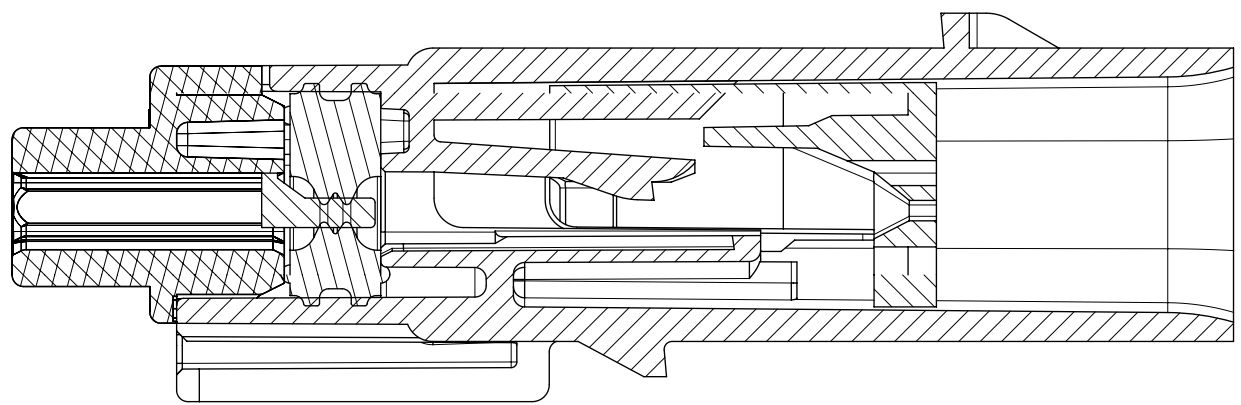
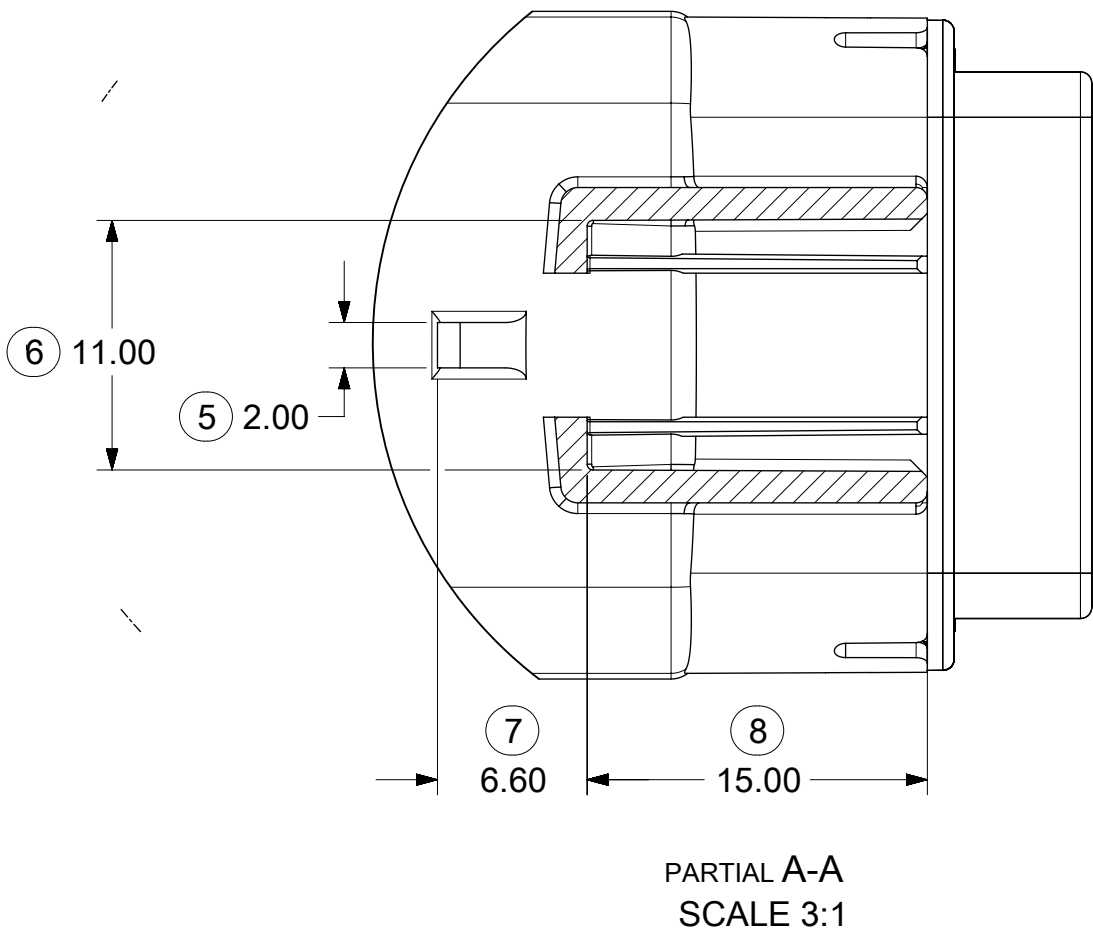
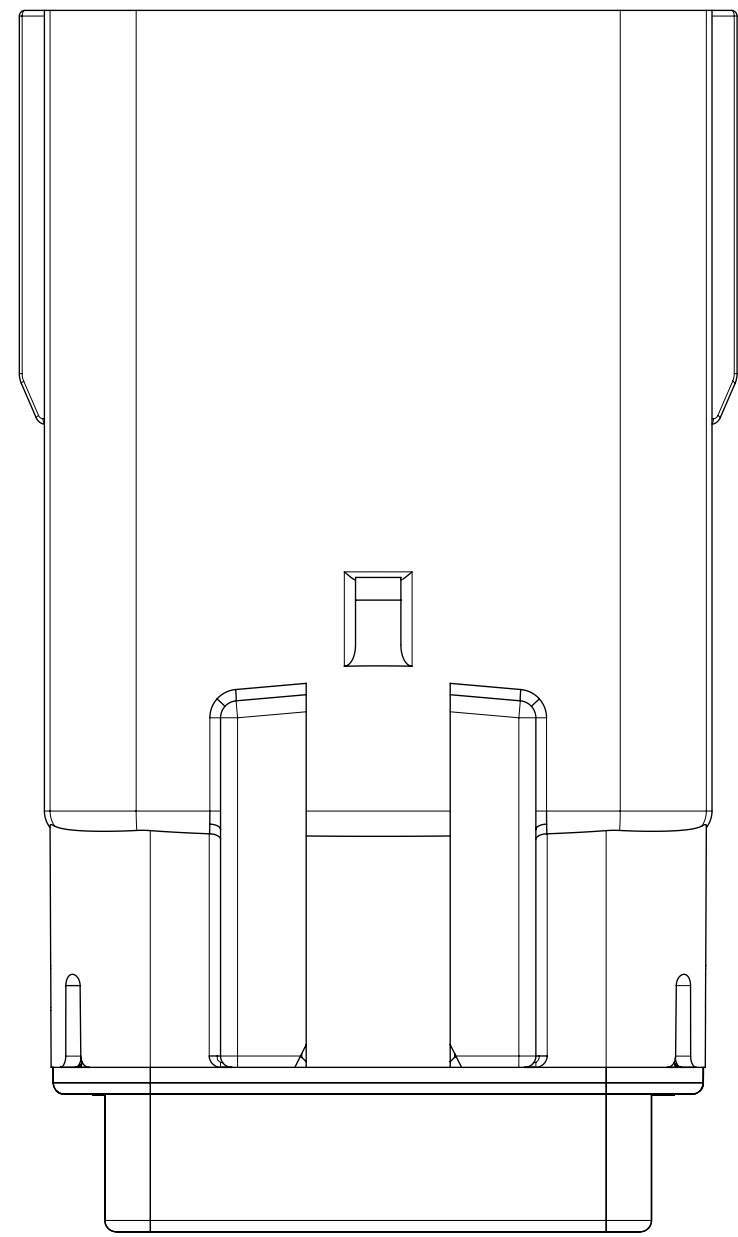
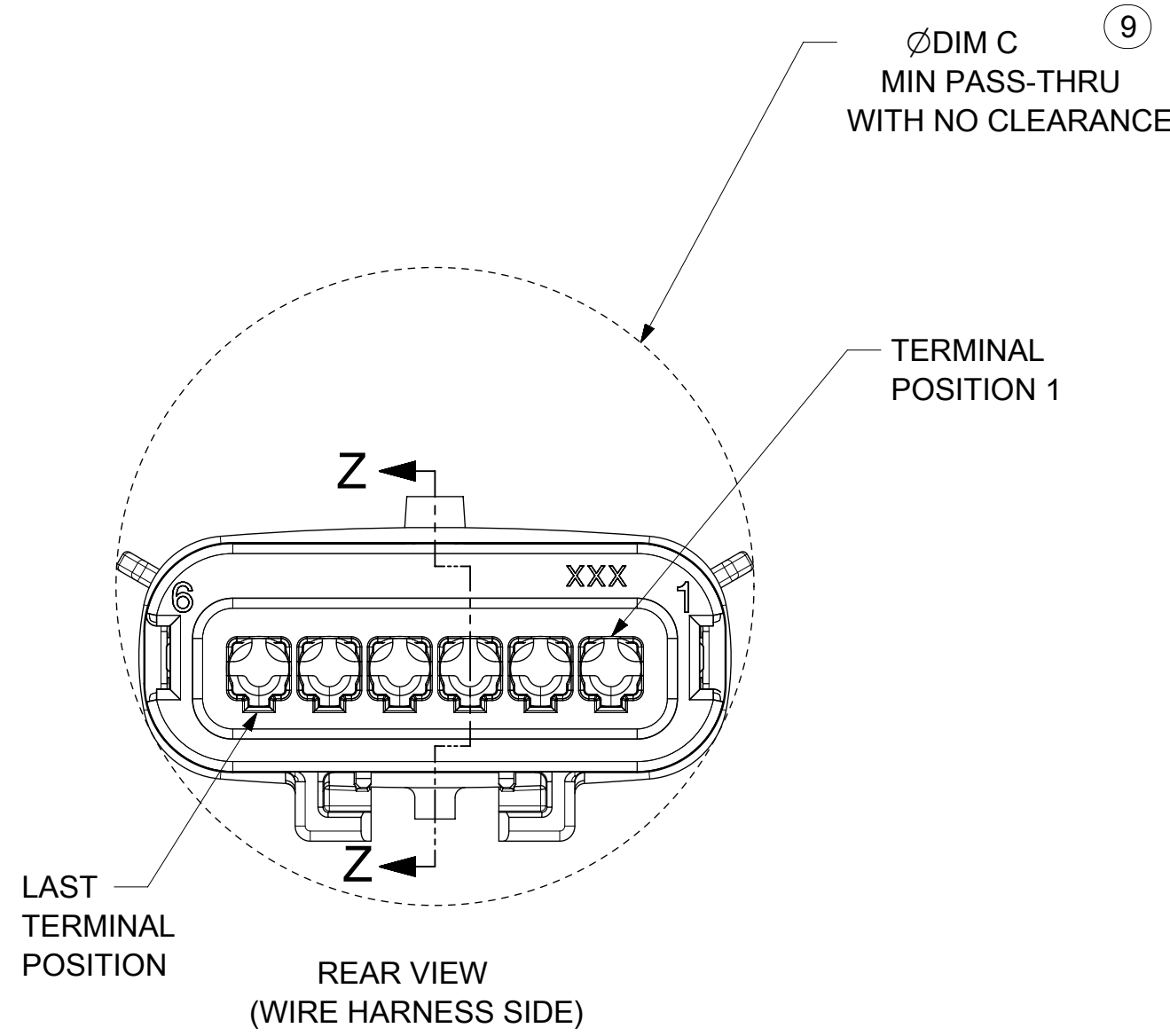
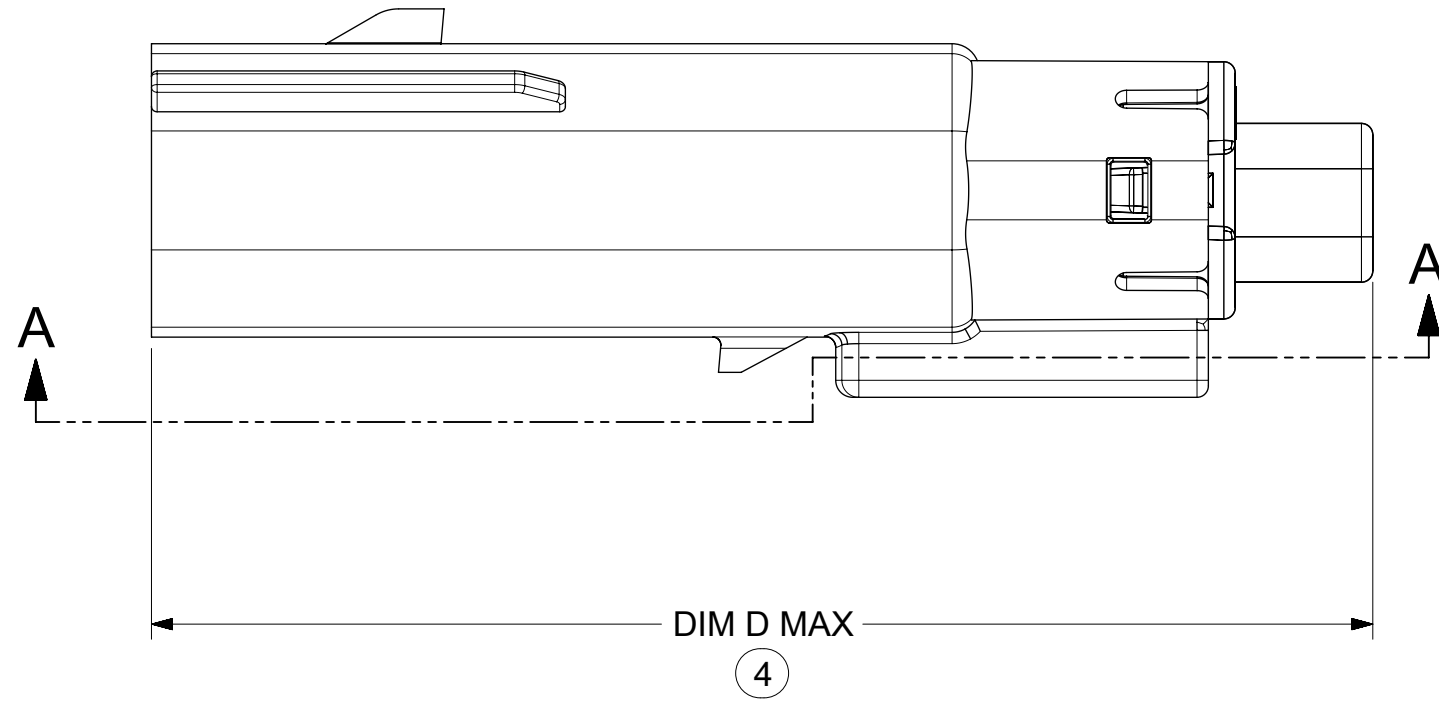
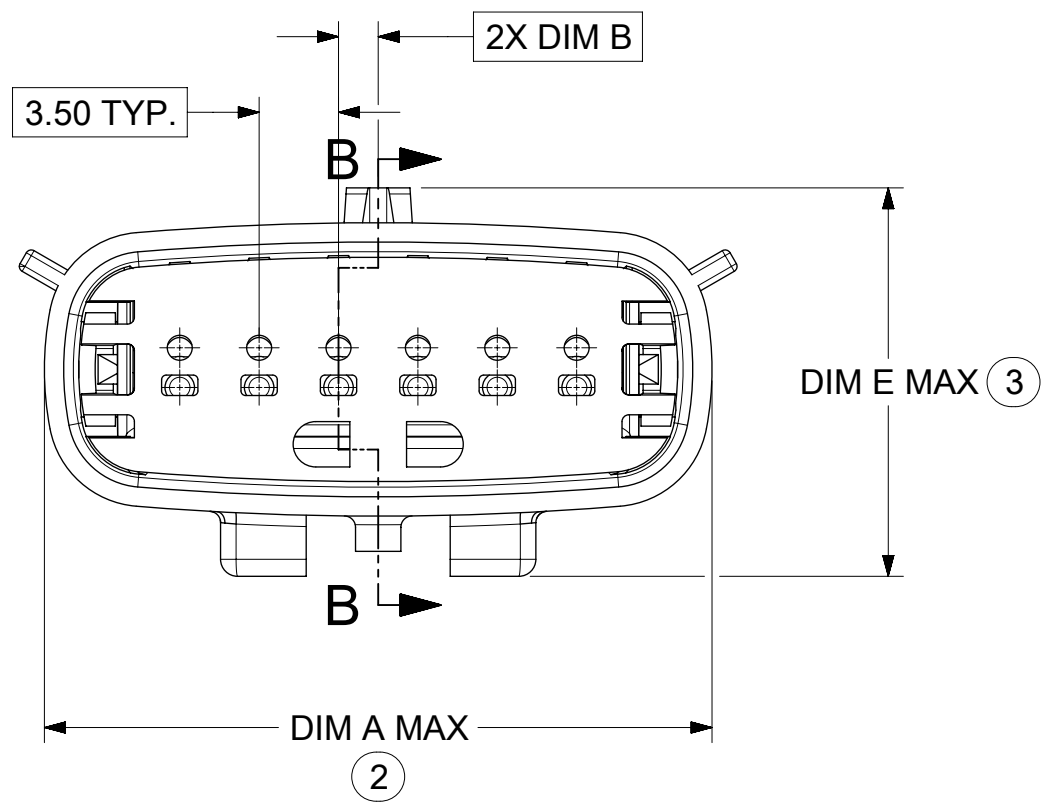
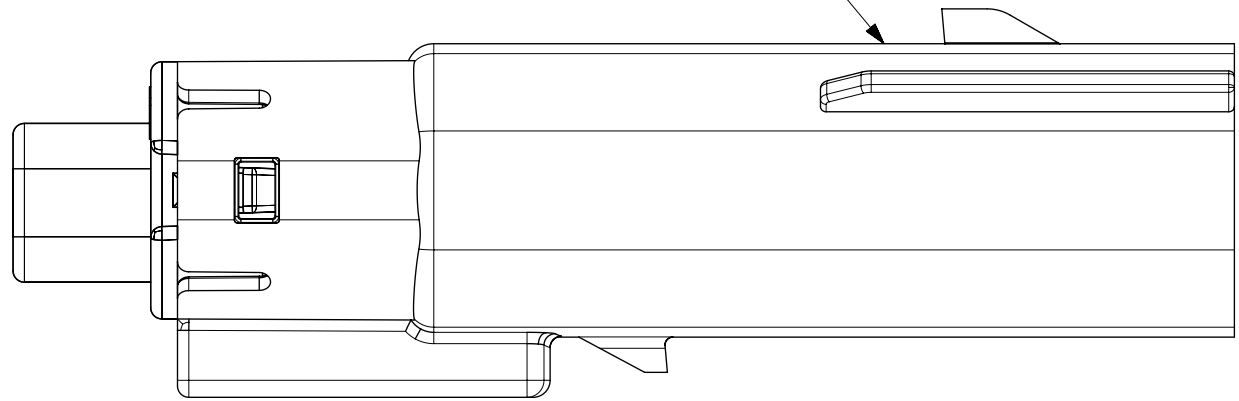
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SHEET DESCRIPTION

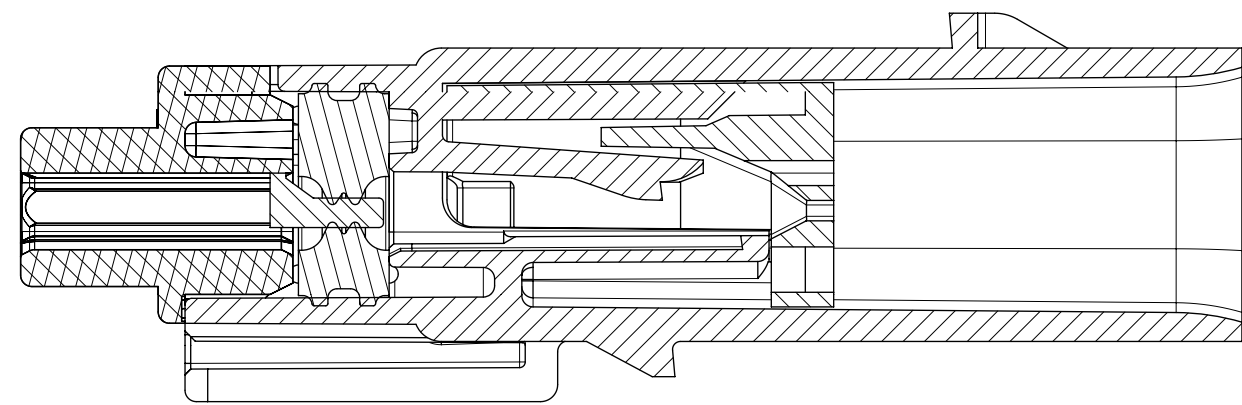
BLADE SEALED ASSEMBLY

DESCRIPTION	CHARTED DIMENSIONS				
	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



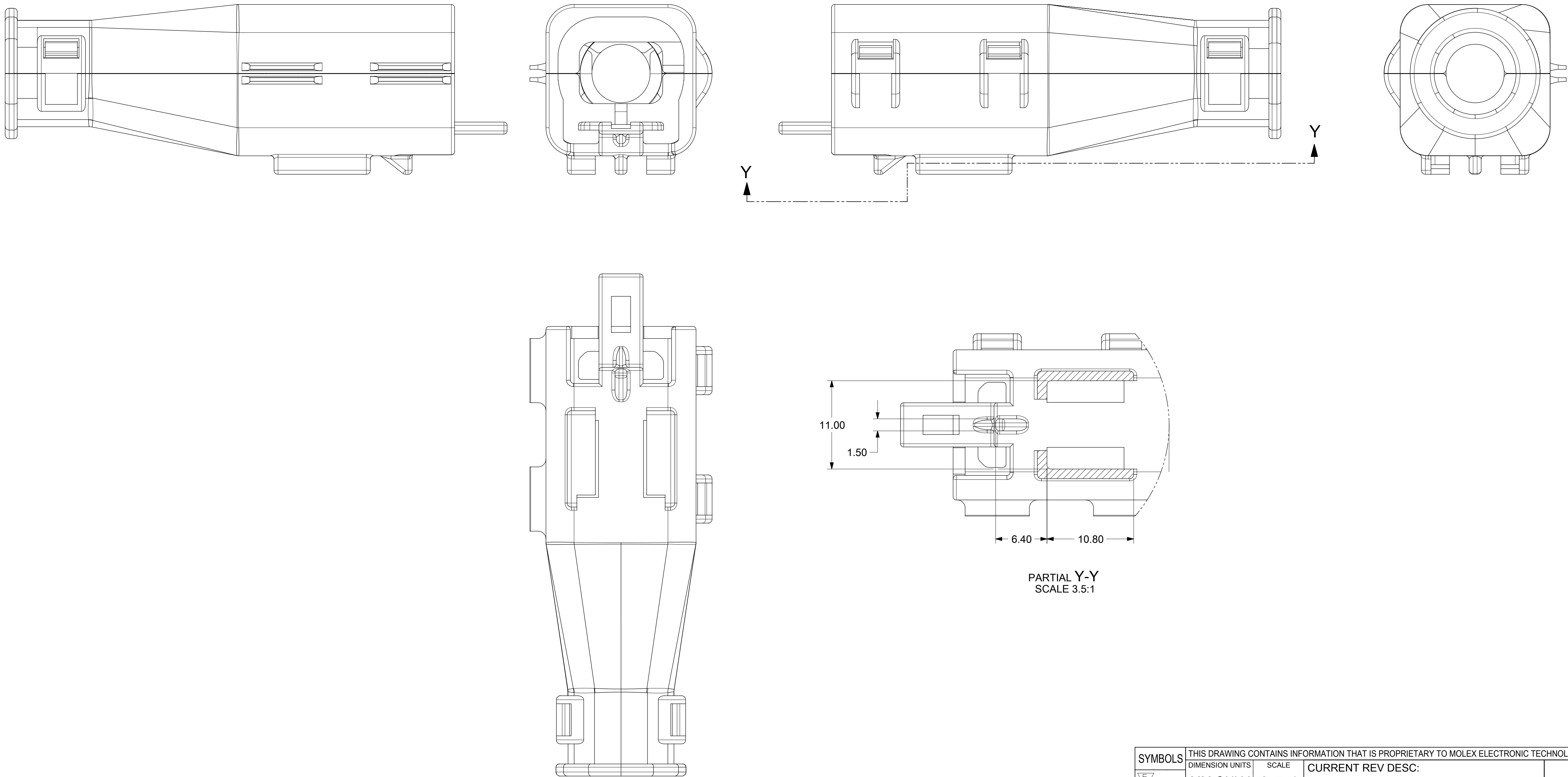
PRIMARY LOCK REINFORCEMENT (PLR) SHOWN
IN FINAL-LOCK POSITION
SECTION Z-Z

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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	MM ONLY		3:1								
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 = 0	ANGULAR TOL ± 1.0 °										
 = 0	4 PLACES		±		INITIAL REVISION: DRWN: APROFFITT 2015/07/21 APPR: KDEKOSKI 2016/06/14			PRODUCT CUSTOMER DRAWING			
 = 0	3 PLACES		±								
 = 0	2 PLACES		± 0.1		DOCUMENT NUMBER			DOC TYPE	DOC PART	REVISION	
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							A1-SIZE	33481	SEE NOTE 2a.	GENERAL MARKET	5 OF 9

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

BACKSHELL

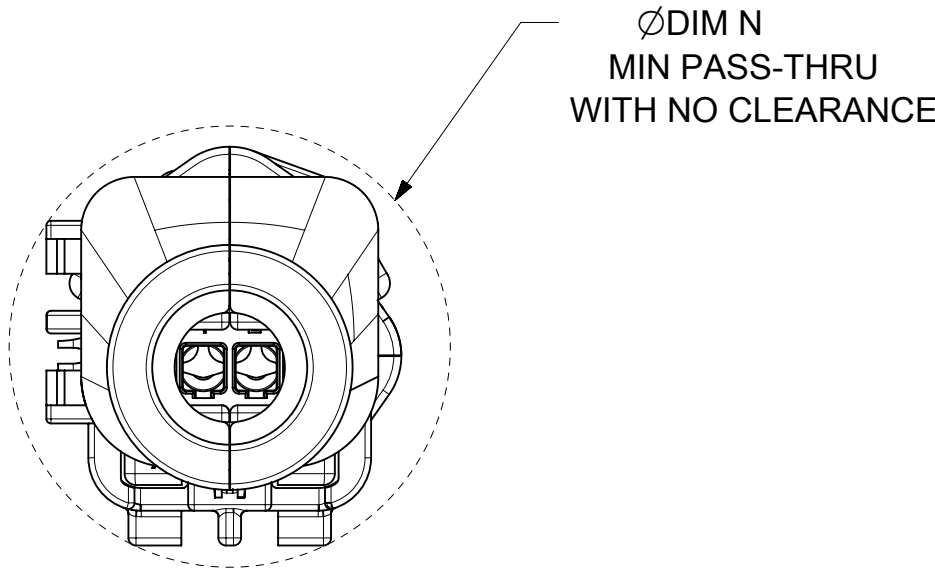
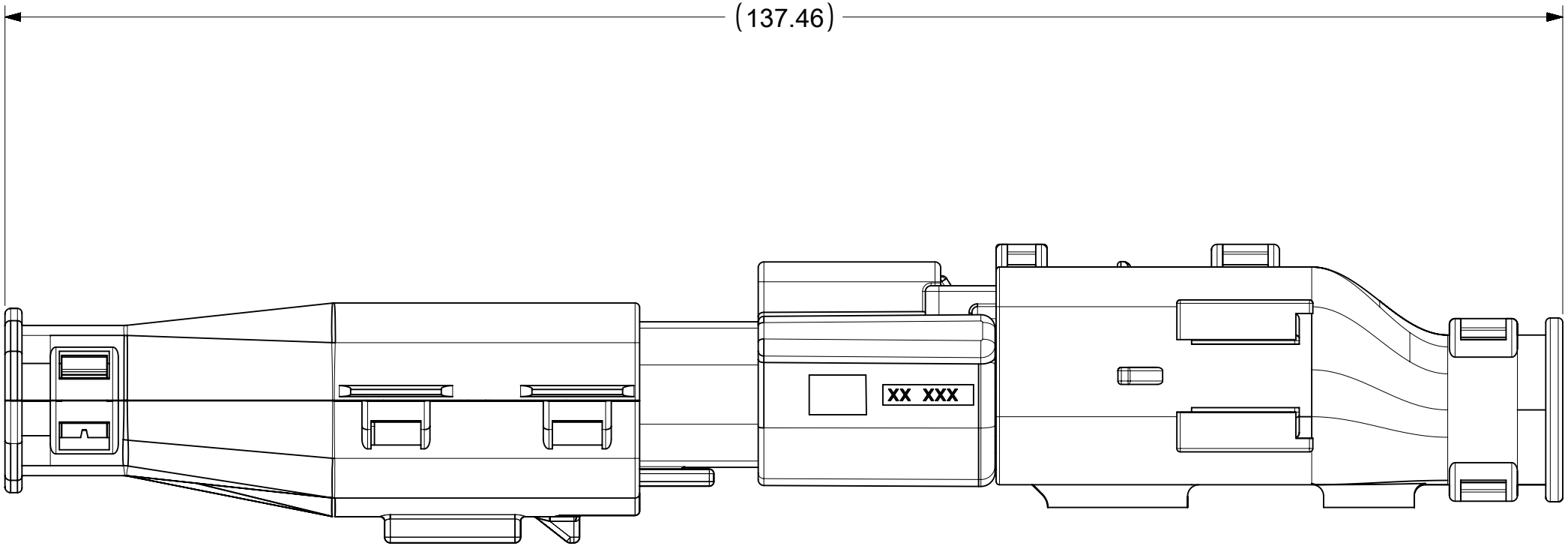


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	MM ONLY	3.5:1															
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	= 0	4 PLACES		±		DRWN: DSHETTY01 2018/05/25				PRODUCT CUSTOMER DRAWING							
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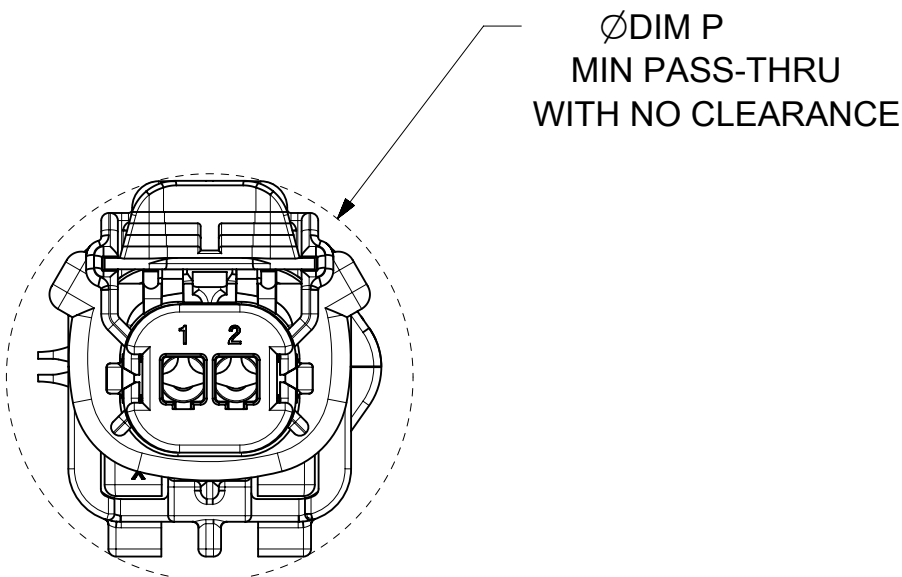
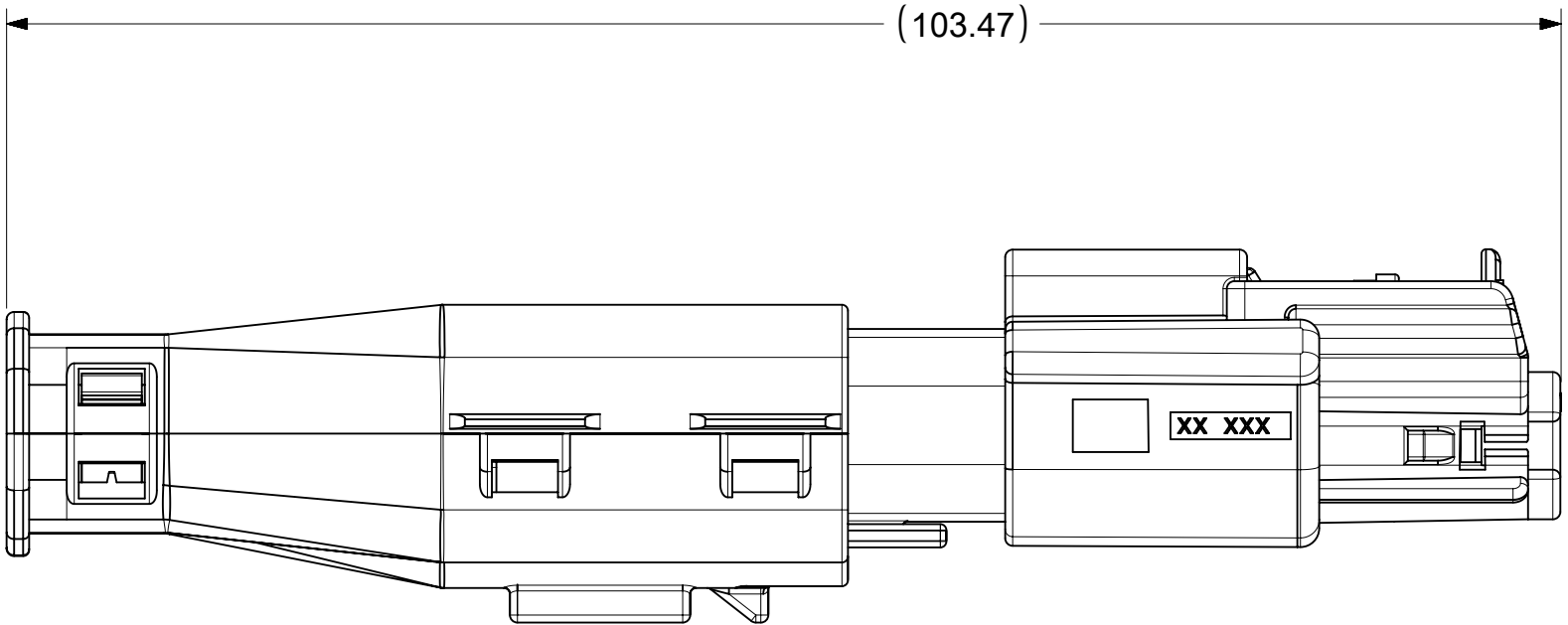
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SHEET DESCRIPTION
BACKSHELL CONFIGURATIONS

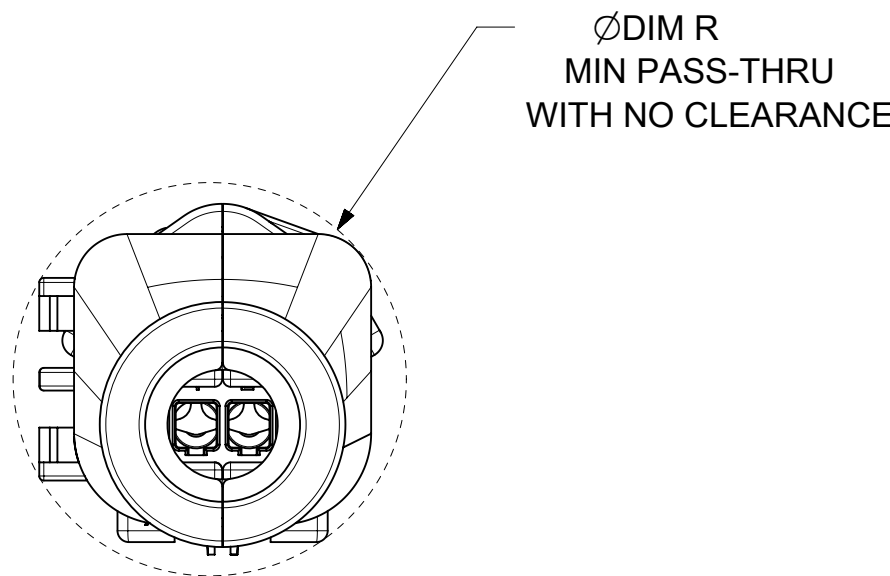
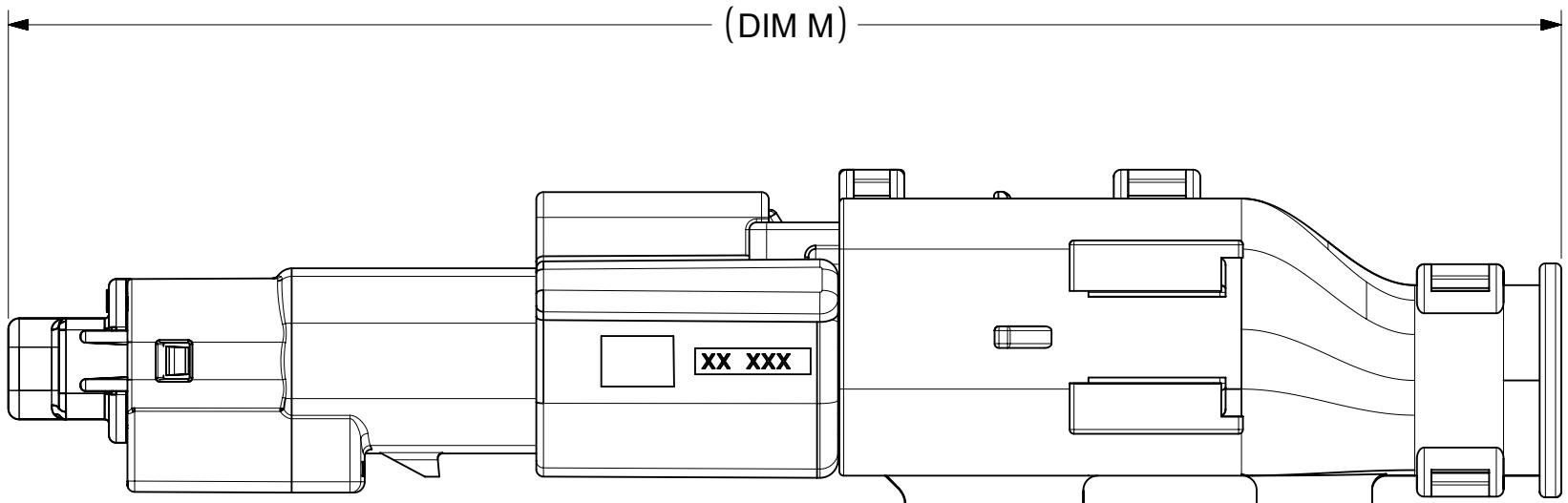
CHARTED DIMENSIONS							
CKT	BLADE CONFIGURATION	RECEPTACLE CONFIGURATION	DIMENSIONS				
			M	N	P	R	S
1X2	STANDARD	STANDARD	107.84	29.50	27.00	26.25	25.00



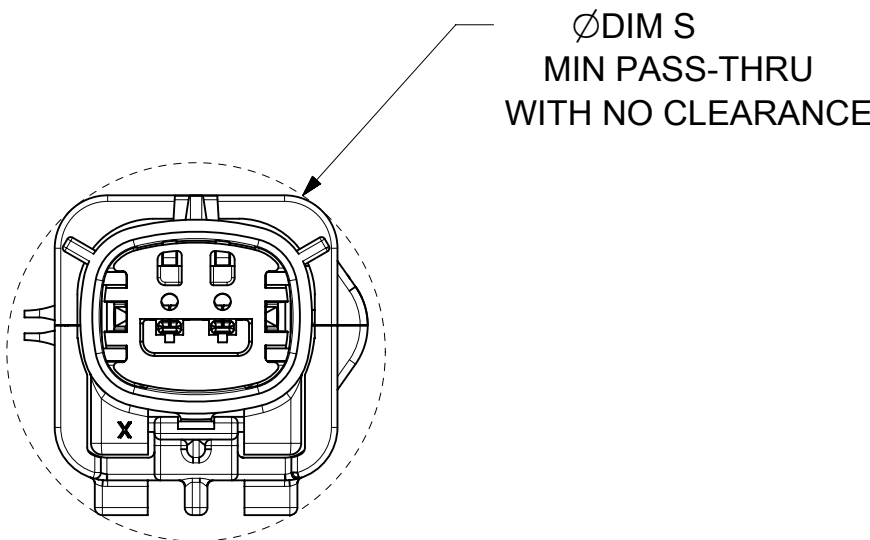
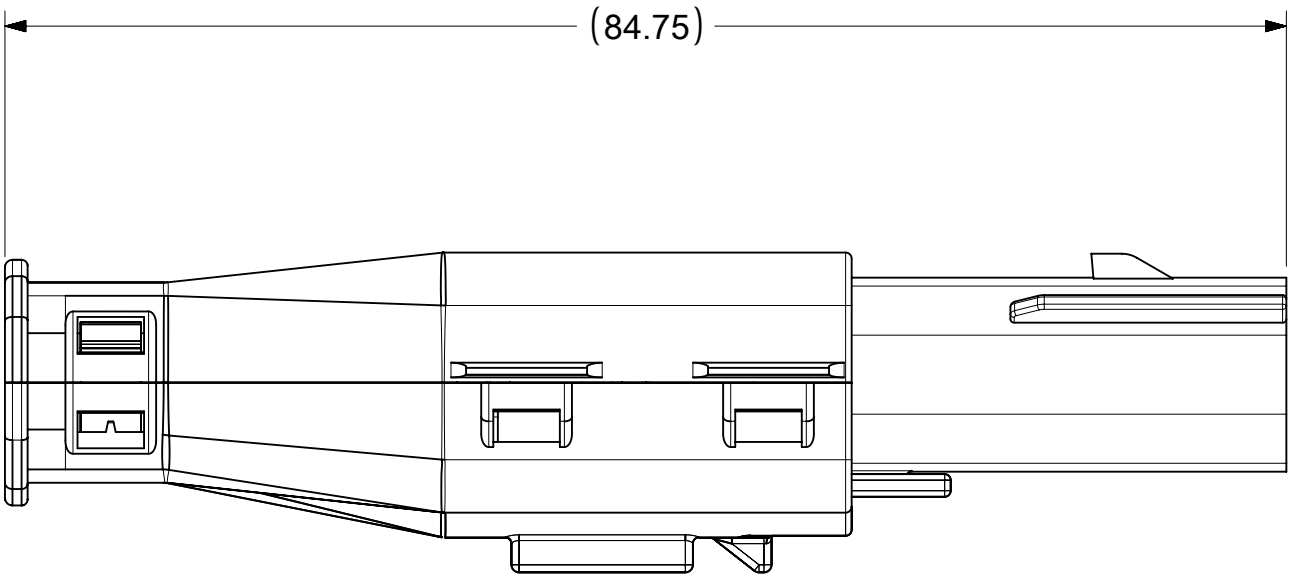
OVERALL MATED SYSTEM WITH BLADE AND RECEPTACLE BACKSHELL



OVERALL MATED SYSTEM WITH BLADE BACKSHELL



OVERALL MATED SYSTEM WITH RECEPTACLE BACKSHELL

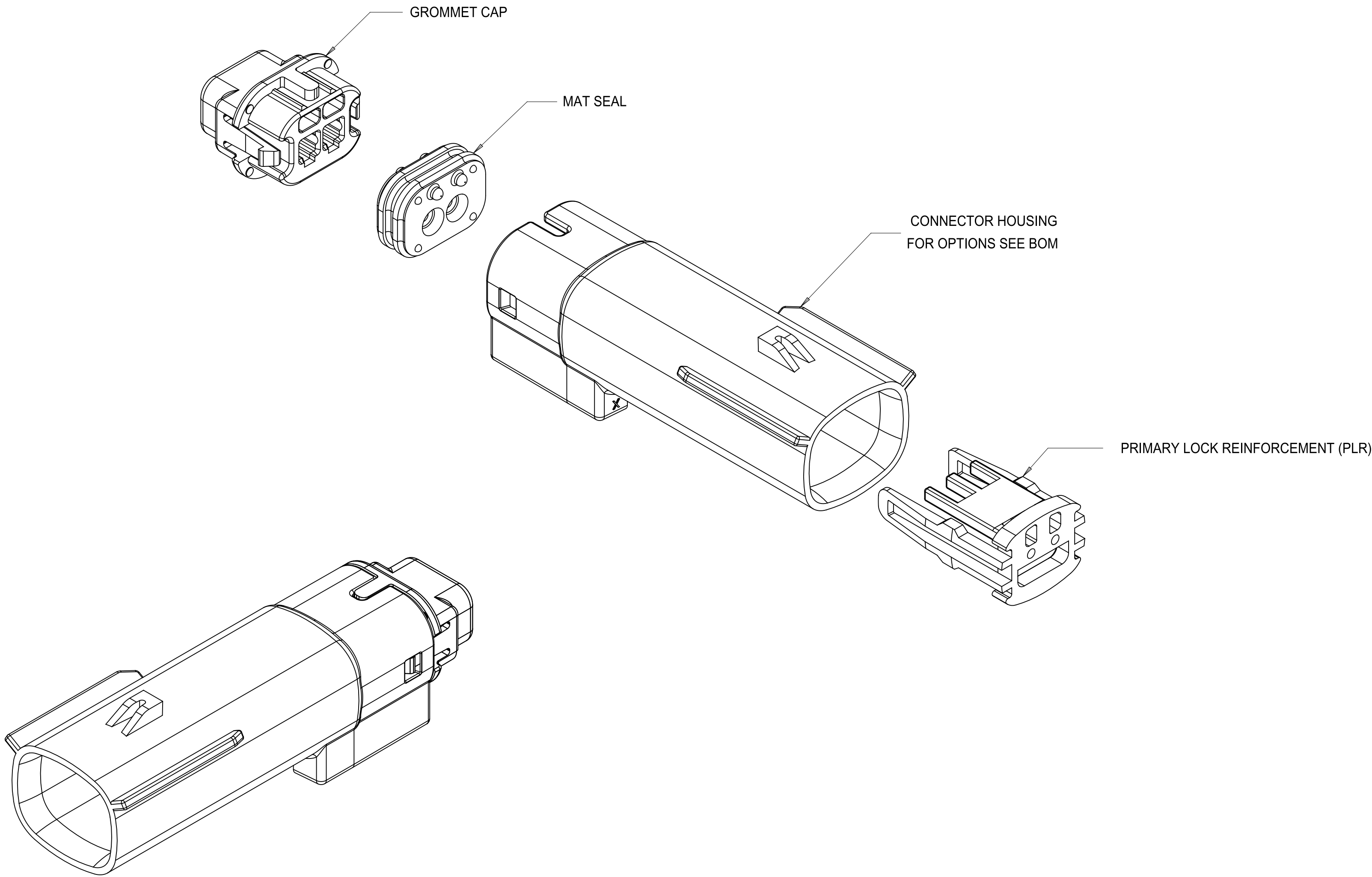


BLADE SEALED ASSEMBLY WITH BLADE BACKSHELL

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																
 = 0	GENERAL TOLERANCES (UNLESS SPECIFIED)				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									
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 = 0	ANGULAR TOL ± 1.0 °				INITIAL REVISION: DRWN: APROFITTT 2015/07/21 APPR: KDEKOSKI 2016/06/14					PRODUCT CUSTOMER DRAWING									
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 = 0	1 PLACE ± 0.2				THIRD ANGLE PROJECTION					SD-33481-0001									
 = 0	0 PLACES ±																		
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= 0																			
= 0										A1-SIZE		33481		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	BACKSHELL NOTES
6	BACKSHELL
7	BACKSHELL CONFIGURATIONS
8~9	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-33471-021.
-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 40 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. SEE BOM TABLE
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

INSPECTION LOG
LAST NUMBER USED: 57
ADDED:
REMOVED:

A14	UPDATED THE STATUS OF P/Ns ON SHEET 8 (33481-02XX) TO OBSOLETE PER PCN 512135
A13	UPDATED STATUS IN BOM
A12	ADD NEW P/N 33481-2201 TO 33481-2210
A10	ADD NEW P/N 33481-0210
A9	UPDATED VIEWSET & NOTES
A8	RENAMED BACKSHELLS
A7	REMOVED DIMENSION 57
A6	UPDATED NOTES
A5	UPDATED P/N ORDER IN BOM
A4	REDRAWN, ADDED BACKSHELL
REV	DESCRIPTION

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

DIMENSION UNITS

mm

SCALE

3:1

GENERAL TOLERANCES (UNLESS SPECIFIED)

ANGULAR TOL ± 3 °

4 PLACES ± 0

3 PLACES ± 0

2 PLACES ± 0.1

1 PLACE ± 0.2

0 PLACES ± 0

DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS

THIRD ANGLE PROJECTION

D-DRAWING

D-SIZE

SERIES

33481

CURRENT REV DESC: SEE REVISION TABLE

EC NO: CO-000001228

DRWN: MattYoung

CHK'D: Joe Fox

APPR: Katy Boruszewski

INITIAL REVISION:

DRWN: RFC_PLMIMP

APPR:

21-Jul-2022

01-Aug-2022

02-Aug-2022

mo

le

x

MX150 1X2 BLADE SEALED ASSEMBLY MAT SEAL

PRODUCT SALES DRAWING

DOCUMENT NUMBER

DOC TYPE

DOC PART

REVISION

SD-33481-021

PSD

001

A14

MATERIAL NUMBER

CUSTOMER

SHEET NUMBER

SEE BOM

GENERAL MARKET

1 OF 9

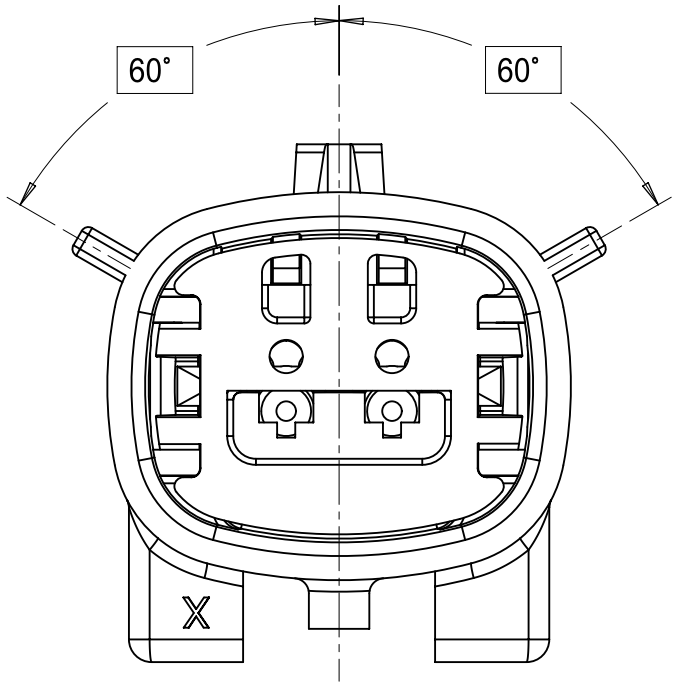
DOCUMENT STATUS

Approved

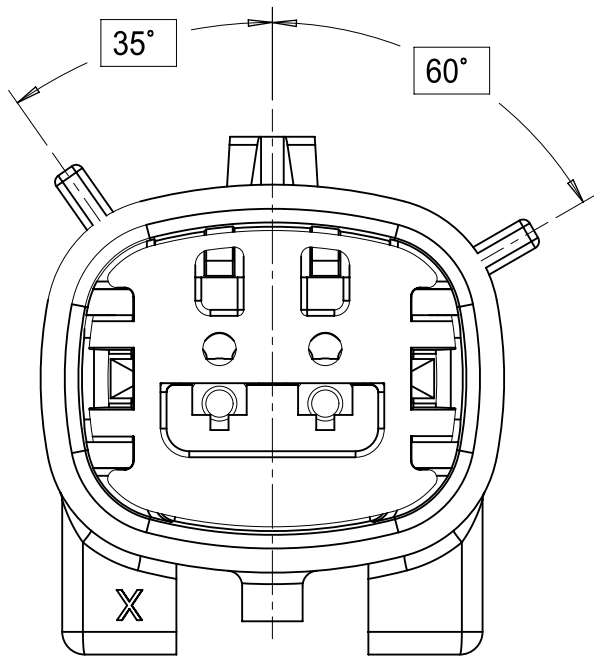
RELEASE DATE

02-Aug-2022

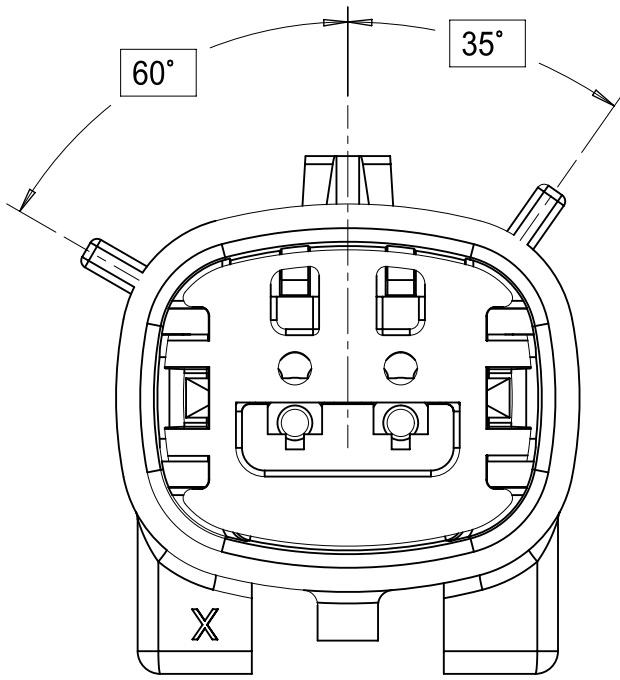
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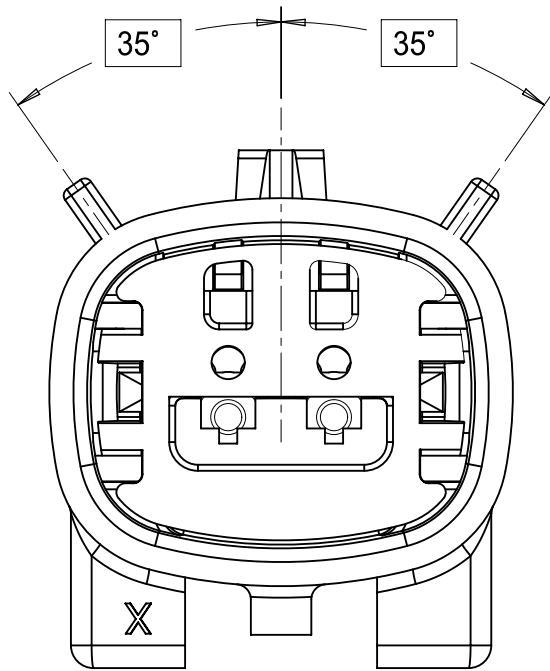
KEY A



KEY B



KEY C



KEY D

KEY CONFIGURATIONS

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

DIMENSION UNITS	SCALE
mm	4:1
GENERAL TOLERANCES (UNLESS SPECIFIED)	
ANGULAR TOL	± 3 °
4 PLACES	± 0
3 PLACES	± 0
2 PLACES	± 0.1
1 PLACE	± 0.2
0 PLACES	± 0
DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS	THIRD ANGLE PROJECTION

CURRENT REV DESC: SEE REVISION TABLE

EC NO: CO-000001228
DRWN: MattYoung
CHK'D: Joe Fox
APPR: Katy Boruszewski

21-Jul-2022
01-Aug-2022
02-Aug-2022

molex

MX150 1X2 BLADE
SEALED ASSEMBLY MAT SEAL

PRODUCT SALES DRAWING

DOCUMENT NUMBER	DOC TYPE	DOC PART	REVISION
SD-33481-021	PSD	001	A14
MATERIAL NUMBER	CUSTOMER		SHEET NUMBER
SEE BOM	GENERAL MARKET		2 OF 9

DRAWING

SERIES

D-SIZE33481

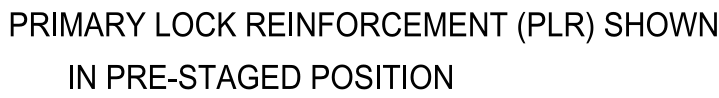
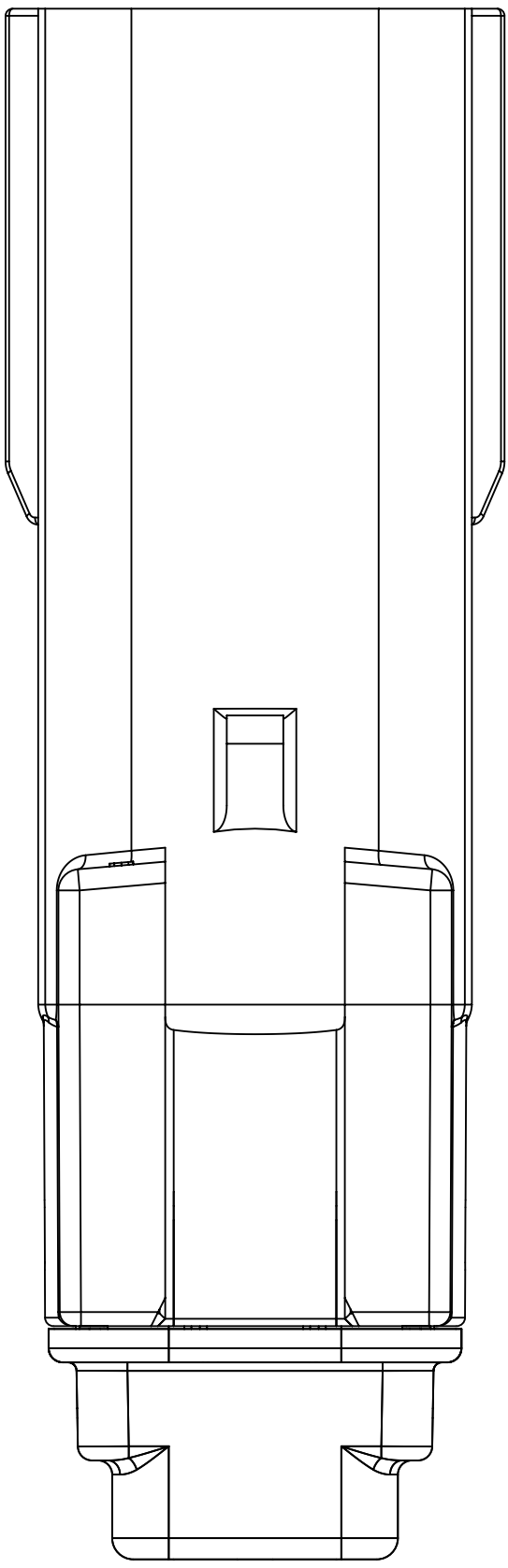
DOCUMENT STATUS

Approved

RELEASE DATE

02-Aug-2022 14:03:56

Technical drawing of a mechanical component, likely a pump or motor housing, showing a side view. The component features a cylindrical body with a flange at one end and a mounting bracket or flange at the other. The drawing includes dimension lines and arrows indicating specific features or measurements.

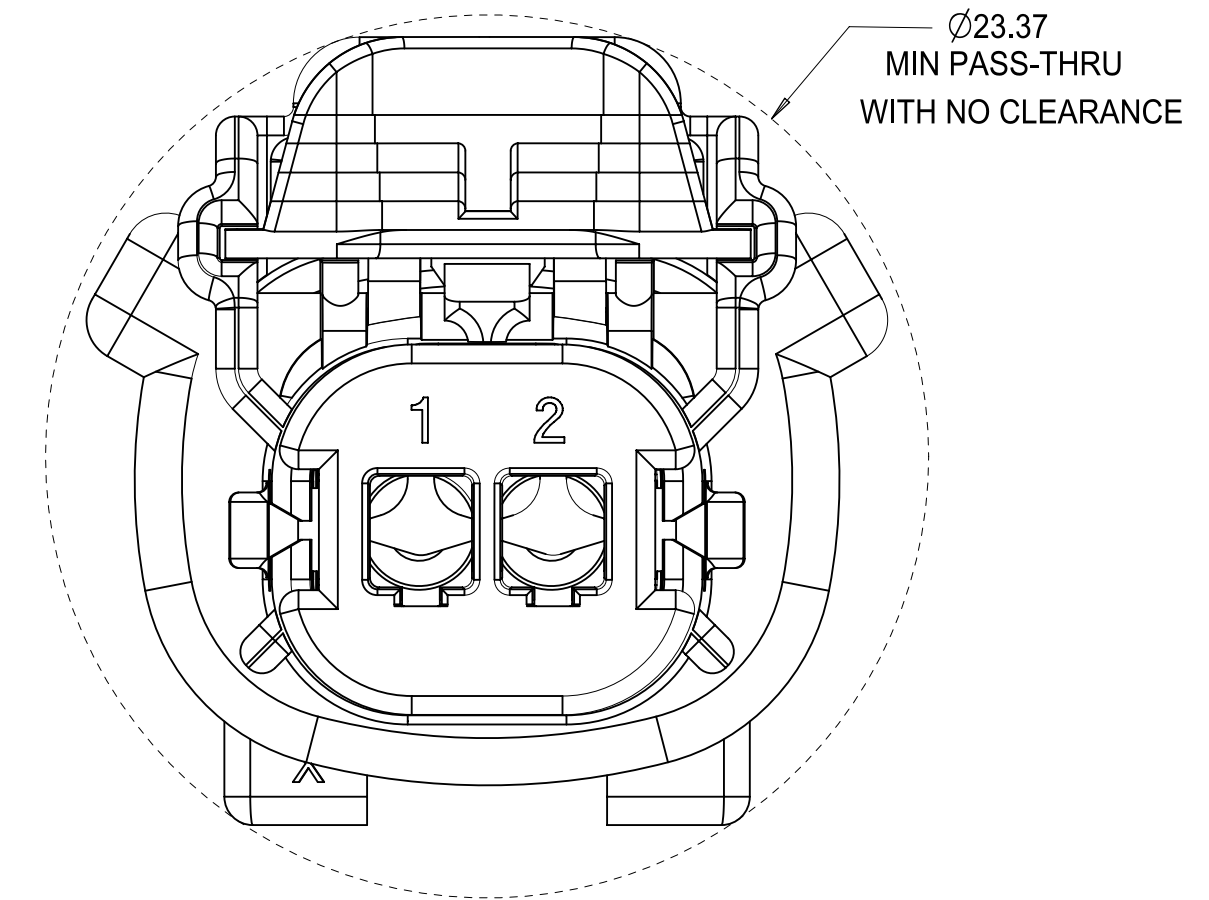
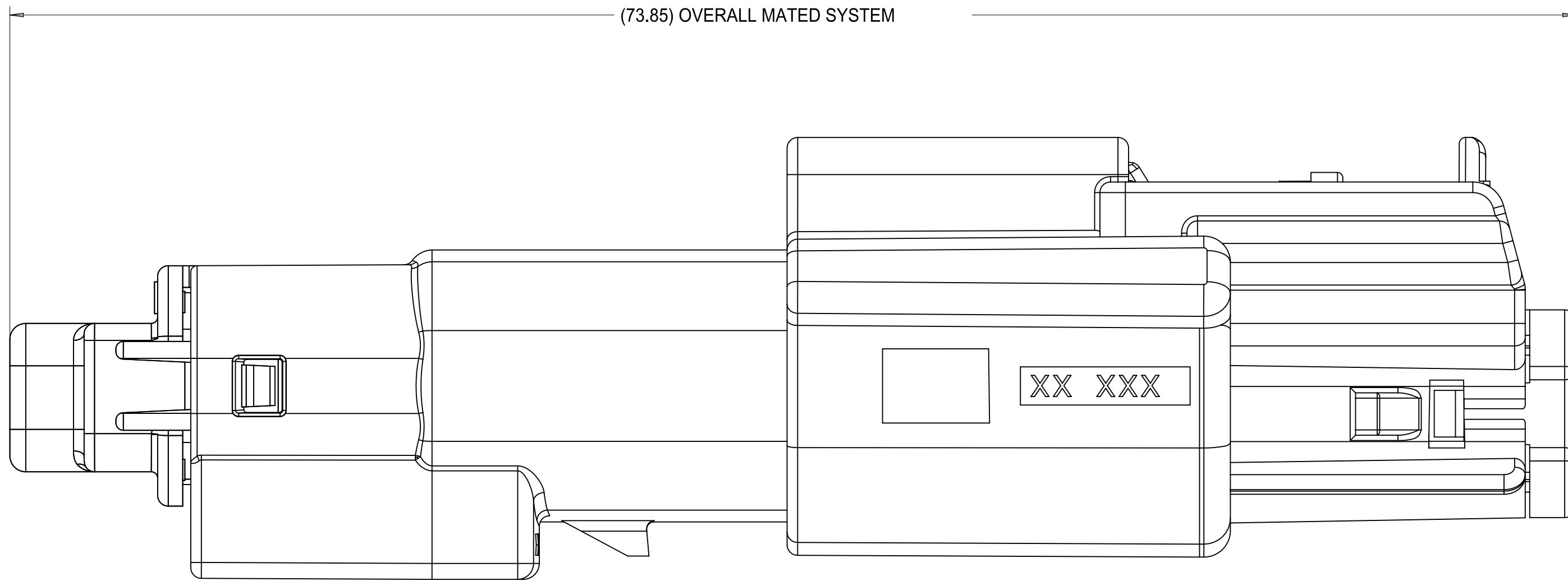


PRIMARY LOCK REINFORCEMENT (PLR) SHOWN
IN FINAL-LOCK POSITION

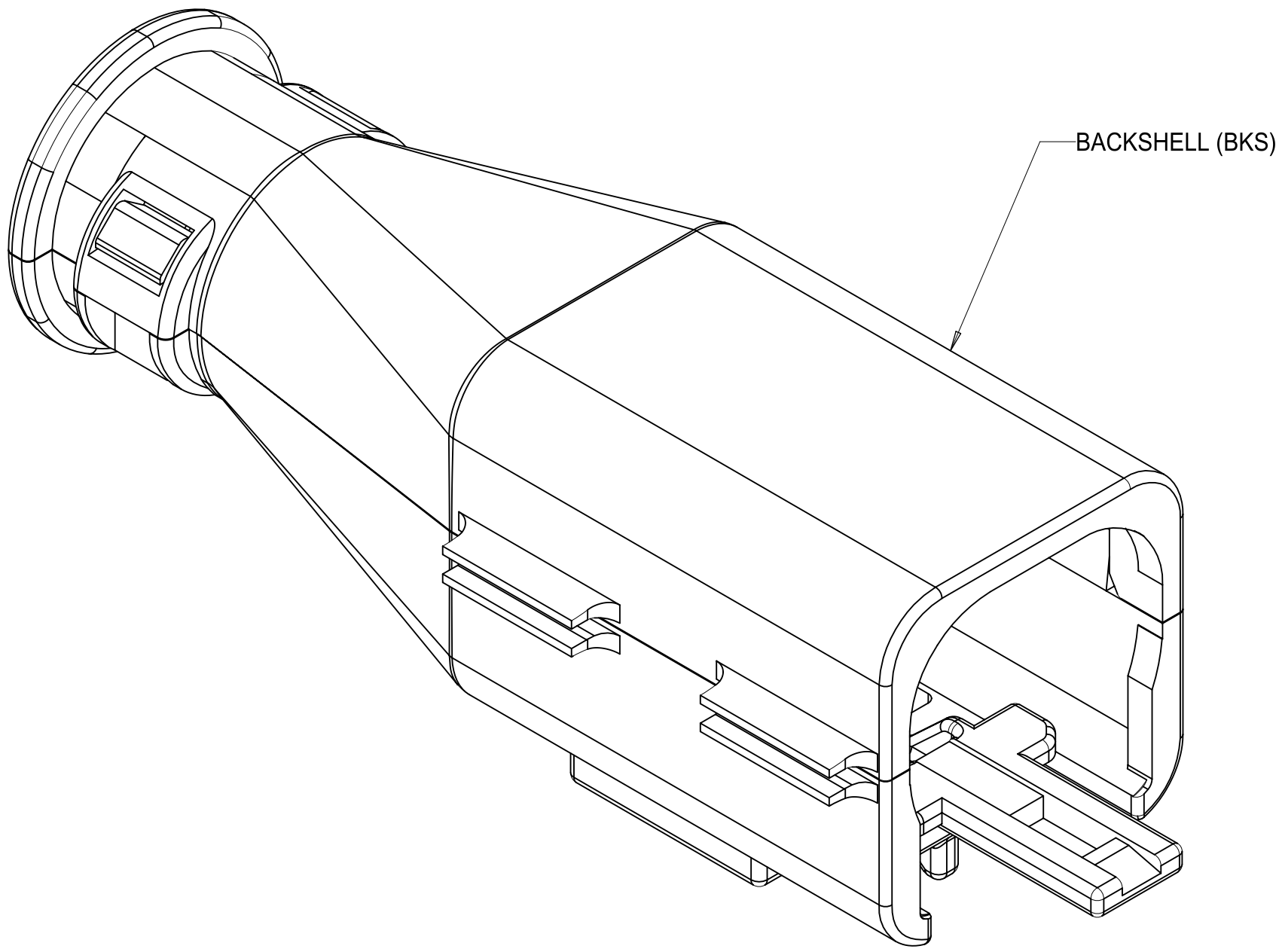
THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX ELECTRONIC TECHNOLOGIES, LLC AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION															
DIMENSION UNITS		SCALE		CURRENT REV DESC: SEE REVISION TABLE				molex MX150 1X2 BLADE SEALED ASSEMBLY MAT SEAL							
mm		4:1													
GENERAL TOLERANCES (UNLESS SPECIFIED)				EC NO: CO-000001228 DRWN: MattYoung 21-Jul-2022 CHK'D: Joe Fox 01-Aug-2022 APPR: Katy Boruszewski 02-Aug-2022				PRODUCT SALES DRAWING							
ANGULAR TOL ± 3 °															
4 PLACES		± 0													
3 PLACES		± 0													
2 PLACES		± 0.1													
1 PLACE		± 0.2		INITIAL REVISION: DRWN: RFC_PLMIMP				DOCUMENT NUMBER SD-33481-021		DOC TYPE PSD		DOC PART 001		REVISION A14	
0 PLACES		± 0													
DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS				THIRD ANGLE PROJECTION 		DRAWING D-SIZE		SERIES 33481		MATERIAL NUMBER SEE BOM		CUSTOMER GENERAL MARKET		SHEET NUMBER 3 OF 9	

19	18	17	16	15	14	13	12	11	10	9	8	7	6	5	4	3	2	1
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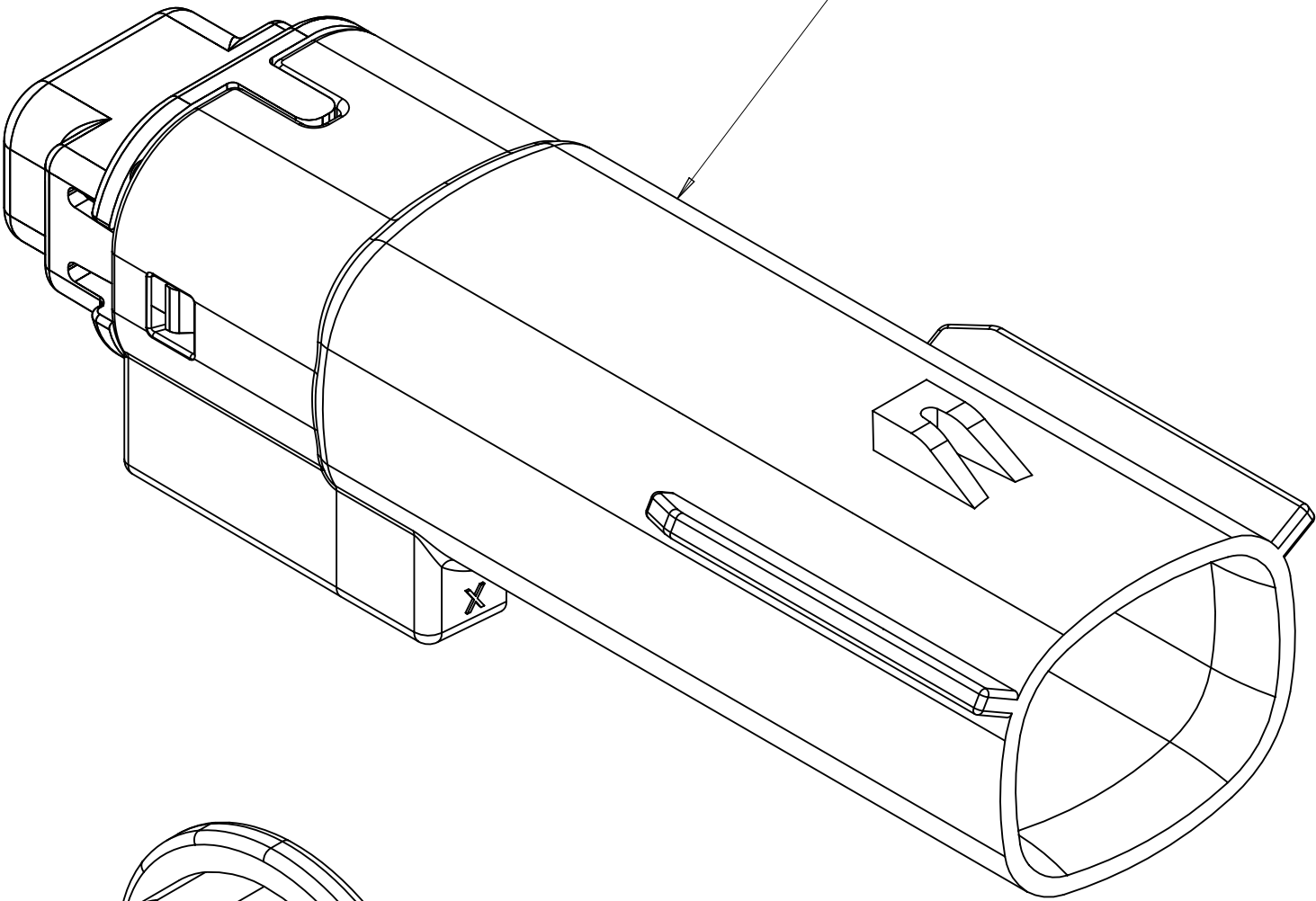
SYSTEM PACKAGING



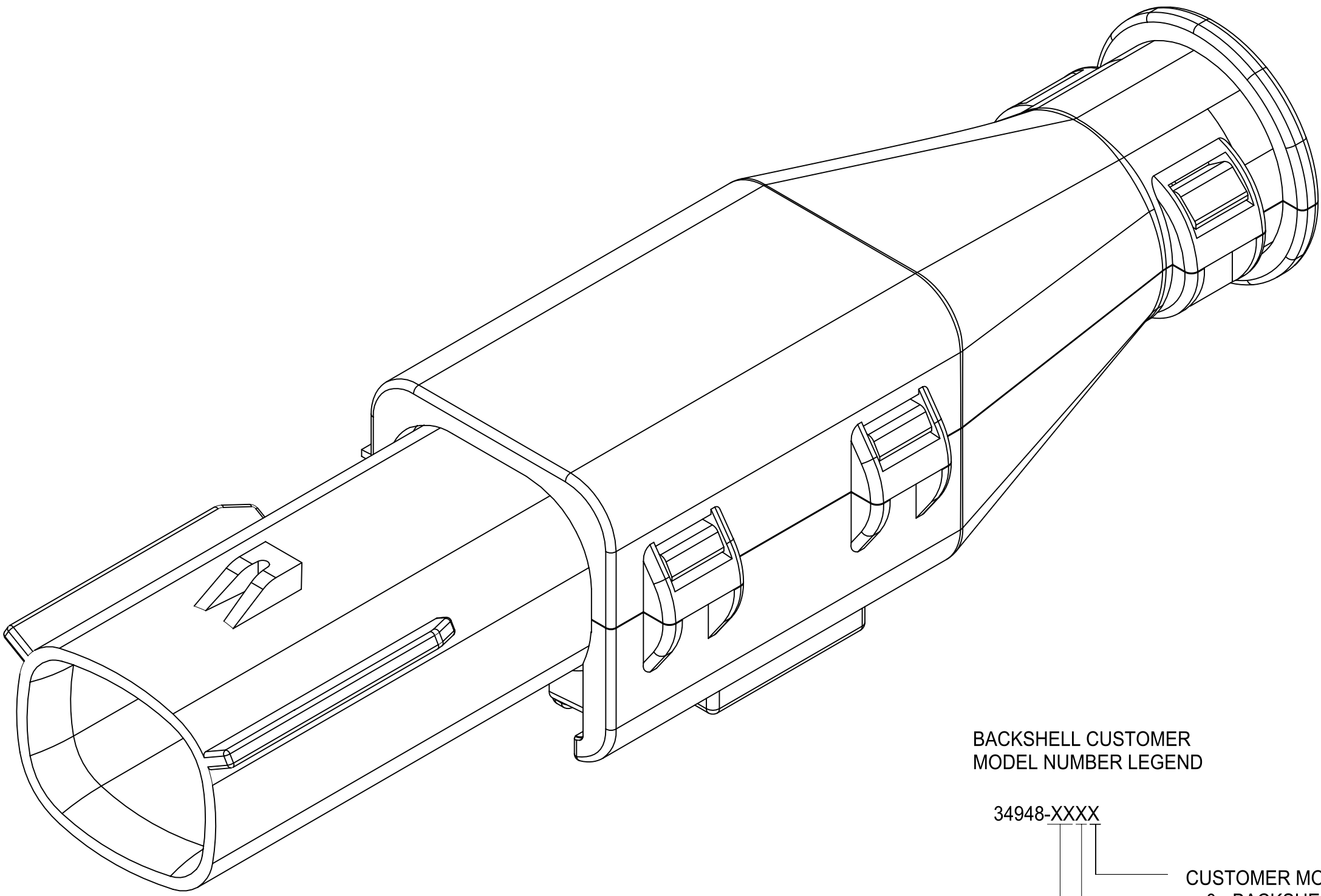
THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX ELECTRONIC TECHNOLOGIES, LLC AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION									
DIMENSION UNITS	SCALE	CURRENT REV DESC: SEE REVISION TABLE			molex				
mm	1:1								
GENERAL TOLERANCES (UNLESS SPECIFIED)									
ANGULAR TOL	± 3 °								
4 PLACES	± 0								
3 PLACES	± 0								
2 PLACES	± 0.1	EC NO: CO-000001228							
1 PLACE	± 0.2	DRWN: MattYoung			21-Jul-2022				
0 PLACES	± 0	CHK'D: Joe Fox			01-Aug-2022				
		APPR: Katy Boruszewski			02-Aug-2022				
DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		INITIAL REVISION:			DOCUMENT NUMBER		DOC TYPE	DOC PART	REVISION
		DRWN: RFC_PLMIMP			SD-33481-021		PSD	001	A14
		APPR:							
THIRD ANGLE PROJECTION		DRAWING	SERIES	MATERIAL NUMBER	CUSTOMER		SHEET NUMBER		
		D-SIZE	33481	SEE BOM	GENERAL MARKET		4 OF 9		



BACKSHELL (BKS)



BLADE SEALED ASSEMBLY



BACKSHELL CUSTOMER
MODEL NUMBER LEGEND

34948-XXXX

- CUSTOMER MODEL COMPONENTS
- 0 - BACKSHELL ONLY
 - 1 - BACKSHELL & MX150 HOUSING KEY A ASSEMBLY
 - 2 - BACKSHELL & MX150 HOUSING KEY B ASSEMBLY
 - 3 - BACKSHELL & MX150 HOUSING KEY C ASSEMBLY
 - 4 - BACKSHELL & MX150 HOUSING KEY D ASSEMBLY

- BACKSHELL FEATURES
- 1 - WITH RIBS
 - 2 - WITHOUT RIBS

MX150 CIRCUIT SIZE 02, 03, 04, 05, 06

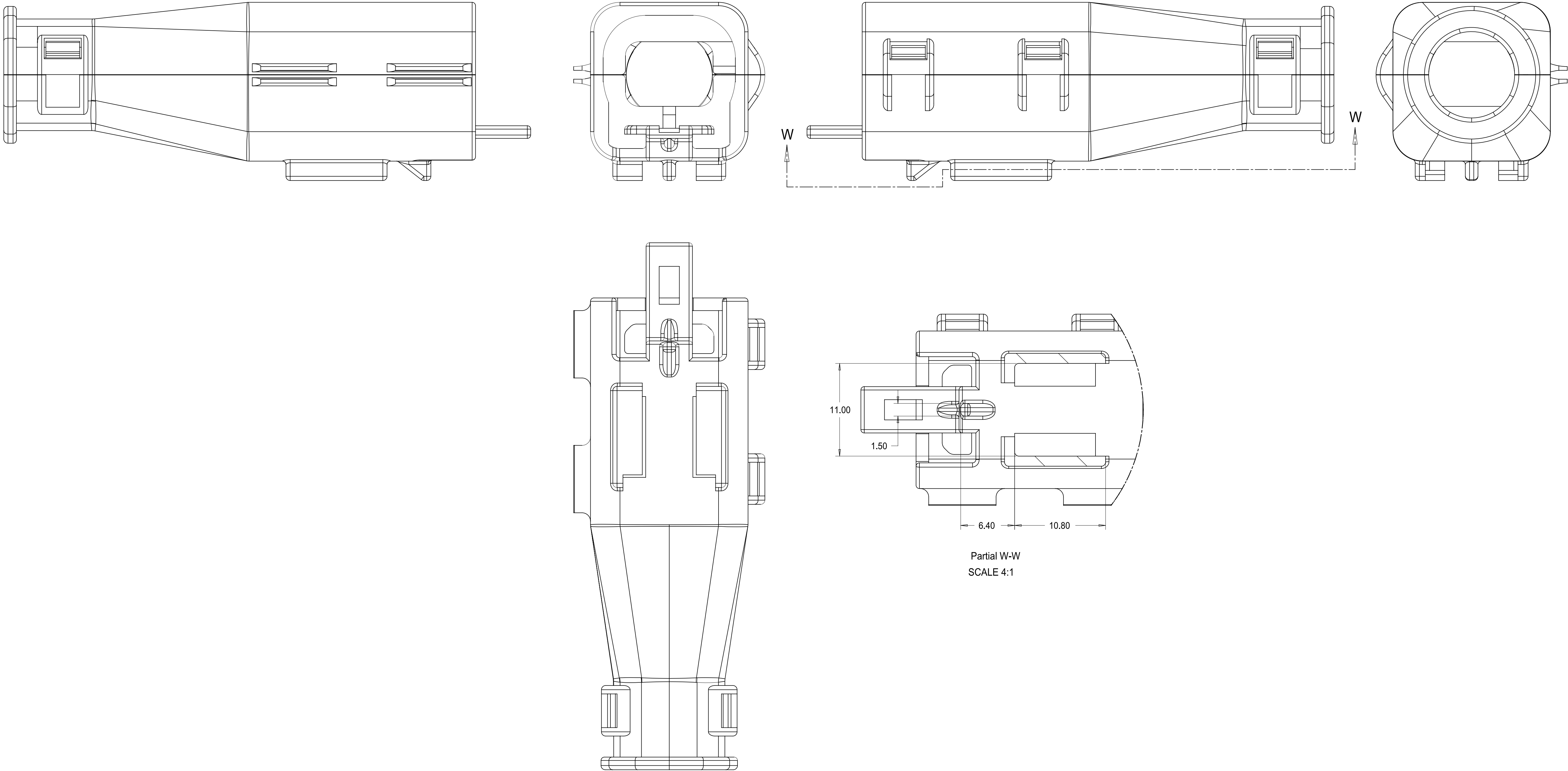
BACKSHELL NOTES

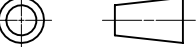
BACKSHELL NOTES: VALID UNLESS OTHERWISE SPECIFIED

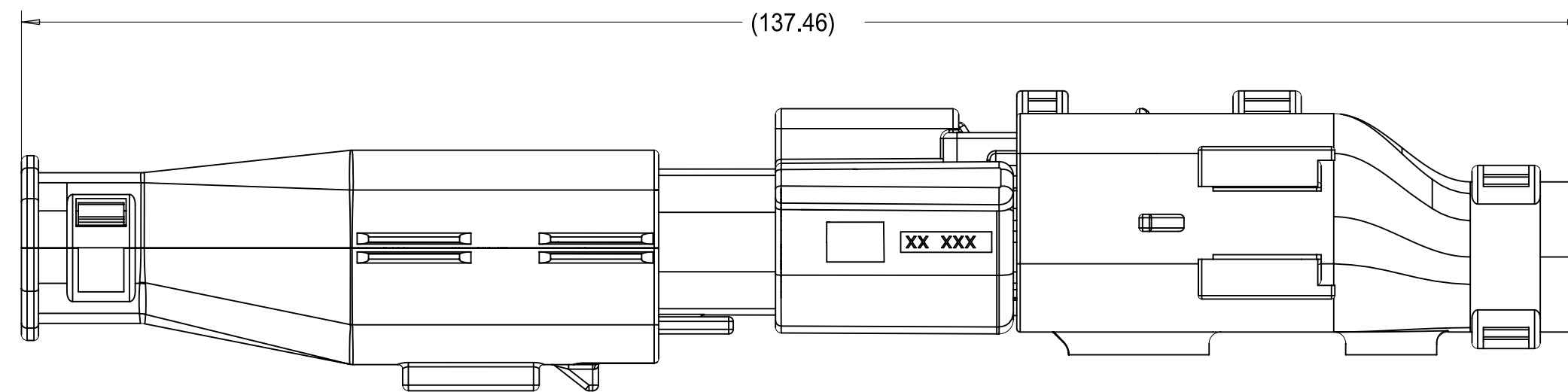
1. GENERAL:
- a. APPLICATION SPECIFICATION SEE: AS-34951-001
- DESIGNED TO MATE WITH RECEPTACLE SEALED ASSEMBLY SPECIFIED IN MOLEX DRAWING SD-33472-021.
 - SYSTEM TO BE USED WITH WIRE WITHIN DIAMETER RANGE OF 1.2mm TO 2.69mm.
 - COMPONENTS ARE OPTIONAL AND MUST BE PURCHASED SEPERATELY.
 - BACKSHELL DESIGN IS OWNED BY SCHLEMMER.
 - FOR ADDITIONAL INFORMATION SEE THE BACKSHELL COMPONENT DRAWING SD-34948-0001.

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			molex				
mm	4:1								
GENERAL TOLERANCES (UNLESS SPECIFIED)		EC NO: CO-000001228 DRWN: MattYoung CHK'D: Joe Fox APPR: Katy Boruszewski INITIAL REVISION: DRWN: RFC_PLMIMP APPR:			MX150 1X2 BLADE SEALED ASSEMBLY MAT SEAL				
ANGULAR TOL	± 3°				PRODUCT SALES DRAWING				
4 PLACES	± 0				DOCUMENT NUMBER				
3 PLACES	± 0				SD-33481-021				
2 PLACES	± 0.1				DOC TYPE				
1 PLACE	± 0.2	THIRD ANGLE PROJECTION			PSD				
0 PLACES	± 0	DRAWING			001				
DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		SERIES			A14				
		D-SIZE			SEE BOM				
		33481			GENERAL MARKET				
					SHEET NUMBER				
					5 OF 9				

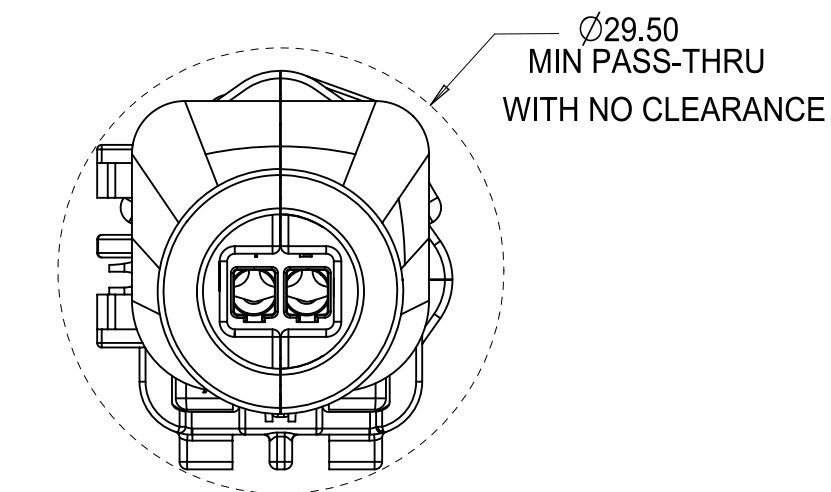
BACKSHELL
THE VIEWS ON THIS SHEET ARE
IN THE CLOSED UN-ASSEMBLED POSITION



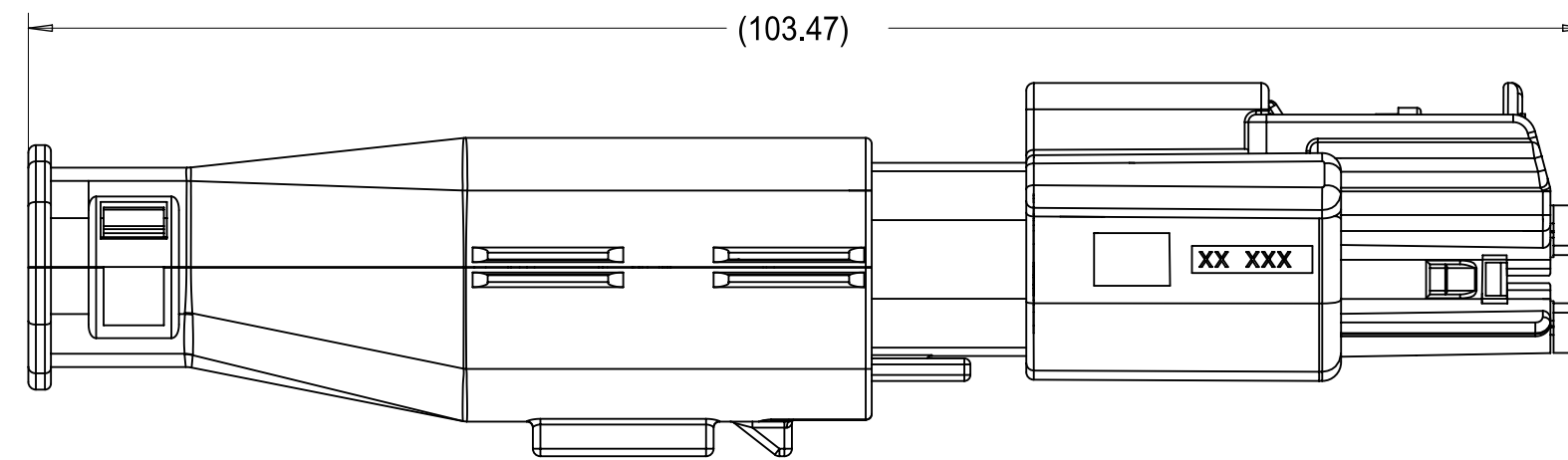
THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX ELECTRONIC TECHNOLOGIES, LLC AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION											
DIMENSION UNITS		SCALE		CURRENT REV DESC: SEE REVISION TABLE				molex			
mm		4:1									
GENERAL TOLERANCES (UNLESS SPECIFIED)								MX150 1X2 BLADE SEALED ASSEMBLY MAT SEAL			
ANGULAR TOL ± 3 °											
4 PLACES		± 0						EC NO: CO-000001228		21-Jul-2022	
3 PLACES		± 0		DRWN: MattYoung		01-Aug-2022					
2 PLACES		± 0.1		CHK'D: Joe Fox		02-Aug-2022					
1 PLACE		± 0.2		APPR: Katy Boruszewski				PRODUCT SALES DRAWING			
0 PLACES		± 0		INITIAL REVISION:							
DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS				THIRD ANGLE PROJECTION		DRAWING		DOCUMENT NUMBER			
						D-SIZE		SD-33481-021		DOC TYPE	
				SERIES		MATERIAL NUMBER		DOC PART		REVISION	
		33481		SEE BOM		PSD		001			
				GENERAL MARKET				A14			
								SHEET NUMBER			
								6 OF 9			



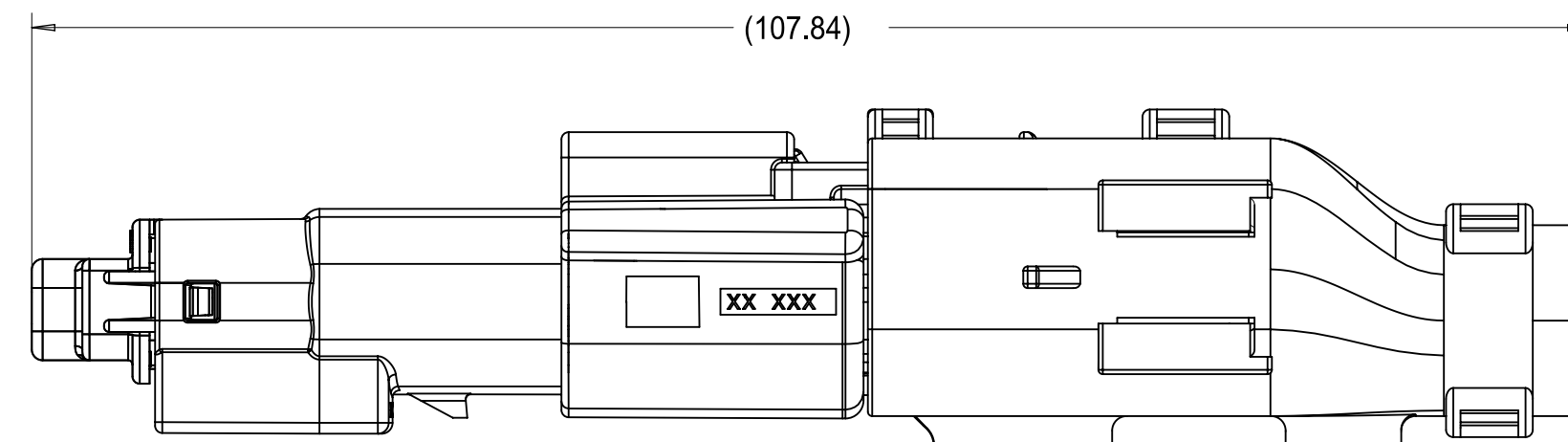
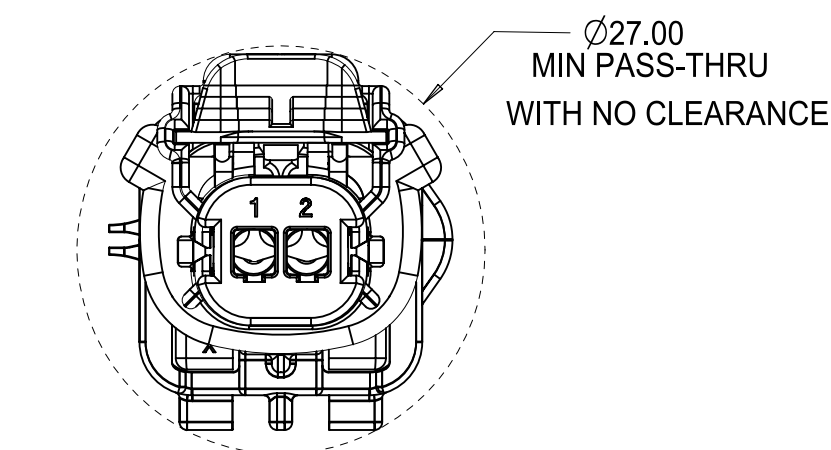
OVERALL MATED SYSTEM WITH BLADE AND RECEPTACLE BACKSHELL



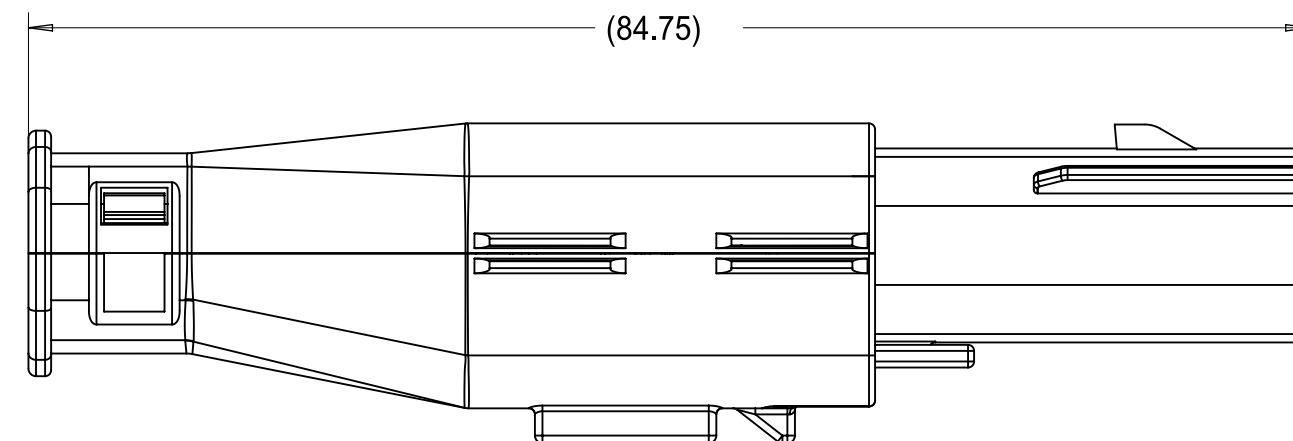
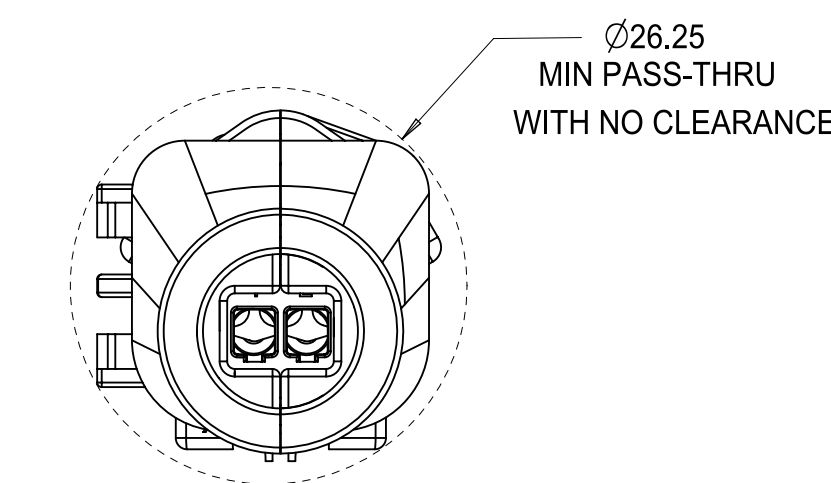
BACKSHELL CONFIGURATIONS



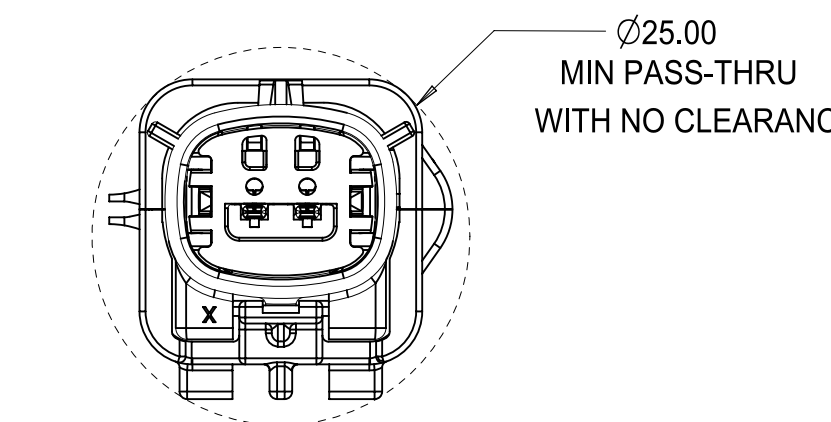
OVERALL MATED SYSTEM WITH BLADE BACKSHELL

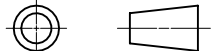


OVERALL MATED SYSTEM WITH RECEPTACLE BACKSHELL



BLADE SEALED ASSEMBLY WITH BLADE BACKSHELL



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			molex		
mm		2:1							
GENERAL TOLERANCES (UNLESS SPECIFIED)				EC NO: CO-000001228 DRWN: MattYoung 21-Jul-2022 CHK'D: Joe Fox 01-Aug-2022 APPR: Katy Boruszewski 02-Aug-2022			MX150 1X2 BLADE SEALED ASSEMBLY MAT SEAL		
ANGULAR TOL ± 3°									
4 PLACES ± 0				INITIAL REVISION: DRWN: RFC_PLMIMP APPR:			PRODUCT SALES DRAWING		
3 PLACES ± 0									
2 PLACES ± 0.1				DOCUMENT NUMBER SD-33481-021			DOC TYPE PSD	DOC PART 001	REVISION A14
1 PLACE ± 0.2									
0 PLACES ± 0				MATERIAL NUMBER SEE BOM			CUSTOMER GENERAL MARKET		SHEET NUMBER 7 OF 9
DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS									
THIRD ANGLE PROJECTION		DRAWING	SERIES						
		D-SIZE	33481						

KEY A, YELLOW	33481-0210					A	GCO							OBSOLETE		34948-0210	34948-0220						
KEY A, BLACK	33481-0209	A							GCP2		2		OBSOLETE			34948-0210	34948-0220						
KEY D, STONE GRAY	33481-0208				D			GCP		1	2		OBSOLETE			34948-0210	34948-0220						
KEY C, DARK GRAY	33481-0207			C				GCP		1	2		OBSOLETE			34948-0210	34948-0220						
KEY B, LIGHT GRAY	33481-0206		B					GCP		1	2		OBSOLETE			34948-0210	34948-0220						
KEY A, BLACK	33481-0205	A						GCP		1	2		OBSOLETE			34948-0210	34948-0220						
KEY D, STONE GRAY	33481-0204				D		GCO						OBSOLETE			34948-0210	34948-0220						
KEY C, DARK GRAY	33481-0203			C			GCO						OBSOLETE			34948-0210	34948-0220						
KEY B, LIGHT GRAY	33481-0202		B				GCO						OBSOLETE			34948-0210	34948-0220						
KEY A, BLACK	33481-0201	A					GCO						OBSOLETE			34948-0210	34948-0220						
ASSEMBLY DESCRIPTION	ASSEMBLY PART NUMBERS	A	B	C	D	A	GCO	GCP	GCP2	1	2	STATUS	COMMENTS	BACKSHELL WITH RIBS	BACKSHELL WITHOUT RIBS								
										BLOCKED TERMINAL													
										CAVITY WITH A NUMBER INDICATES BLOCKED TERMINAL POSITION												OPTIONAL ATTACHMENTS SOLD SEPARATELY	
										CAVITY WITHOUT A NUMBER INDICATES OPEN TERMINAL POSITION													
										MAT SEAL		RUST RED	INHERENTLY LUBRICATED SILICONE										
										PLR		NATURAL	SPS/NYLON GF20										
										GROMMET CAP (CAVITY 2 PLUGGED)		BLACK	SPS/NYLON GF20										
										GROMMET CAP (PLUGGED)		BLACK	SPS/NYLON GF20										
										GROMMET CAP (OPEN)		BLACK	SPS/NYLON GF20										
HOUSING - KEYING OPTION A		YELLOW	SPS/NYLON GF20																				
HOUSING - KEYING OPTION D		STONE GRAY	SPS/NYLON GF20																				
HOUSING - KEYING OPTION C		DARK GRAY	SPS/NYLON GF20																				
HOUSING - KEYING OPTION B		LIGHT GRAY	SPS/NYLON GF20																				
HOUSING - KEYING OPTION A		BLACK	SPS/NYLON GF20																				
DESCRIPTION		COLOR	MATERIAL																				
						BOM/APPLICABLE COMPONENTS TABLE																	

LEGEND TABLE	
ABREVIATION	COMPONENT
A	HOUSING KEY A
B	HOUSING KEY B
C	HOUSING KEY C
D	HOUSING KEY D
GCO	GROMMET CAP (OPEN)
GCP	GROMMET CAP (PLUGGED)
GCP2	GROMMET CAP (CAVITY 2 PLUGGED)
P	PLR, STANDARD
M	MAT SEAL
BKS	BACKSHELL

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

DIMENSION UNITS

mm

SCALE

1:1

GENERAL TOLERANCES
(UNLESS SPECIFIED)

ANGULAR TOL ± 3 °

4 PLACES ± 0

3 PLACES ± 0

2 PLACES ± 0.1

1 PLACE ± 0.2

0 PLACES ± 0

DRAFT WHERE APPLICABLE
MUST REMAIN
WITHIN DIMENSIONS

CURRENT REV DESC: SEE REVISION TABLE

EC NO: CO-000001228

DRWN: MattYoung

CHK'D: Joe Fox

APPR: Katy Boruszewski

21-Jul-2022

01-Aug-2022

02-Aug-2022

INITIAL REVISION:

DRWN: RFC_PLMIMP

APPR:

DOCUMENT NUMBER

SD-33481-021

DOC TYPE

PSD

DOC PART

001

REVISION

A14

MATERIAL NUMBER

SEE BOM

CUSTOMER

GENERAL MARKET

SHEET NUMBER

8 OF 9

mo

lex

MX150 1X2 BLADE
SEALED ASSEMBLY MAT SEAL

PRODUCT SALES DRAWING

DOCUMENT STATUS

Approved

RELEASE DATE

02-Aug-2022 14:03:56

KEY A, YELLOW	33481-2210					A	GCO							SALEABLE		34948-0210	34948-0220						
KEY A, BLACK	33481-2209	A							GCP2		2			SALEABLE		34948-0210	34948-0220						
KEY D, STONE GRAY	33481-2208				D			GCP		1	2			SALEABLE		34948-0210	34948-0220						
KEY C, DARK GRAY	33481-2207			C				GCP		1	2			SALEABLE		34948-0210	34948-0220						
KEY B, LIGHT GRAY	33481-2206		B					GCP		1	2			SALEABLE		34948-0210	34948-0220						
KEY A, BLACK	33481-2205	A						GCP		1	2			SALEABLE		34948-0210	34948-0220						
KEY D, STONE GRAY	33481-2204				D		GCO							SALEABLE		34948-0210	34948-0220						
KEY C, DARK GRAY	33481-2203			C			GCO							SALEABLE		34948-0210	34948-0220						
KEY B, LIGHT GRAY	33481-2202		B				GCO							SALEABLE		34948-0210	34948-0220						
KEY A, BLACK	33481-2201	A					GCO							SALEABLE		34948-0210	34948-0220						
ASSEMBLY DESCRIPTION	ASSEMBLY PART NUMBERS	A	B	C	D	A	GCO	GCP	GCP2	1	2	STATUS	COMMENTS	BACKSHELL WITH RIBS	BACKSHELL WITHOUT RIBS								
										BLOCKED TERMINAL													
										CAVITY WITH A NUMBER INDICATES BLOCKED TERMINAL POSITION												OPTIONAL ATTACHMENTS	
										CAVITY WITHOUT A NUMBER INDICATES OPEN TERMINAL POSITION												SOLD SEPARATELY	
										MAT SEAL												GREEN	INHERENTLY LUBRICATED SILICONE
										PLR												NATURAL	SPS/NYLON GF20
										GROMMET CAP (CAVITY 2 PLUGGED)												BLACK	SPS/NYLON GF20
										GROMMET CAP (PLUGGED)												BLACK	SPS/NYLON GF20
										GROMMET CAP (OPEN)												BLACK	SPS/NYLON GF20
HOUSING - KEYING OPTION A												YELLOW	SPS/NYLON GF20										
HOUSING - KEYING OPTION D												STONE GRAY	SPS/NYLON GF20										
HOUSING - KEYING OPTION C												DARK GRAY	SPS/NYLON GF20										
HOUSING - KEYING OPTION B												LIGHT GRAY	SPS/NYLON GF20										
HOUSING - KEYING OPTION A												BLACK	SPS/NYLON GF20										
										DESCRIPTION		COLOR	MATERIAL										
														BOM/APPLICABLE COMPONENTS TABLE									

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

DIMENSION UNITS

mm

SCALE

1:1

GENERAL TOLERANCES
(UNLESS SPECIFIED)

ANGULAR TOL ± 3 °

4 PLACES ± 0

3 PLACES ± 0

2 PLACES ± 0.1

1 PLACE ± 0.2

0 PLACES ± 0

DRAFT WHERE APPLICABLE
MUST REMAIN
WITHIN DIMENSIONS

THIRD ANGLE PROJECTION



DRAWING

D-SIZE

SERIES

33481

CURRENT REV DESC: SEE REVISION TABLE

EC NO: CO-000001228

DRWN: MattYoung

CHK'D: Joe Fox

APPR: Katy Boruszewski

21-Jul-2022

01-Aug-2022

02-Aug-2022

INITIAL REVISION:

DRWN: RFC_PLMIMP

APPR:

DOCUMENT NUMBER

SD-33481-021

DOC TYPE

PSD

DOC PART

001

REVISION

A14

MATERIAL NUMBER

SEE BOM

CUSTOMER

GENERAL MARKET

SHEET NUMBER

9 OF 9

DOCUMENT STATUS

Approved

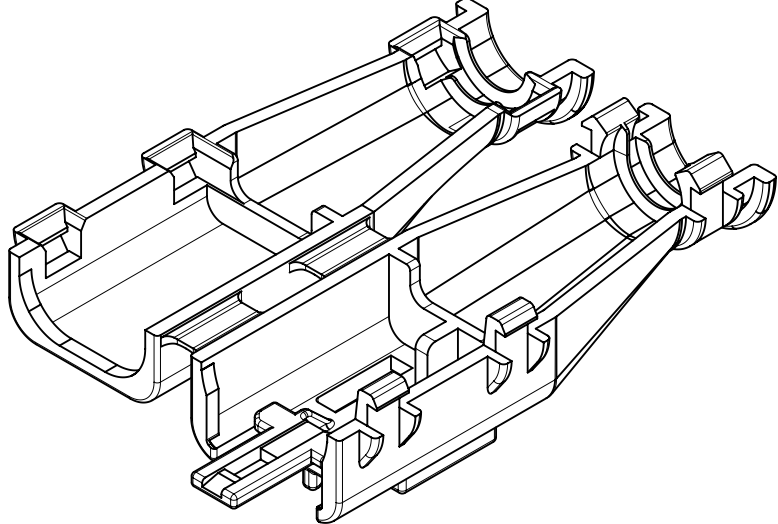
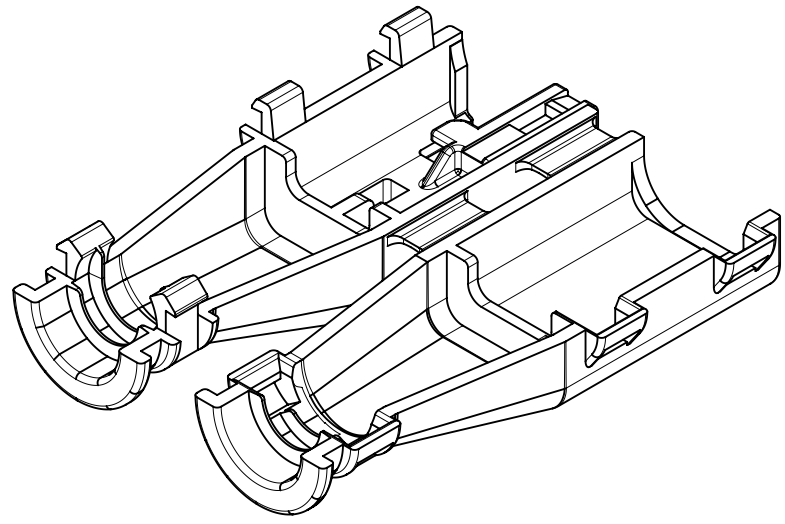
RELEASE DATE

02-Aug-2022 14:03:56

molex

MX150 1X2 BLADE
SEALED ASSEMBLY MAT SEAL

PRODUCT SALES DRAWING



1X2 BLADE

TABLE OF CONTENTS	
SHEET NO.	SHEET DESCRIPTION
1	NOTES AND BOM
2	CONFIGURATIONS
3	BACKSHELL DETAIL

BILL OF MATERIALS (BOM)				
PART NUMBER	CIRCUIT SIZE	RIBS	STATUS	MATING ASSEMBLY DRAWING
34948-0210	1X2	YES	SALEABLE	SD-33481-021
34948-0220	1X2	NO	SALEABLE	SD-33481-021

BACKSHELL NOTES: VALID UNLESS OTHERWISE SPECIFIED

1. GENERAL:

a. APPLICATION SPECIFICATION SEE: AS-34951-001

- DESIGNED TO MATE WITH RECEPTACLE SEALED ASSEMBLY
AS SPECIFIED IN BOM
- COMPONENTS ARE OPTIONAL AND MUST BE PURCHASED SEPERATELY
- BACKSHELL DESIGN IS OWNED BY SCHLEMMER

b. PRODUCT SPECIFICATION

- THESE PRODUCTS ARE ONE TIME USE ONLY.
- REMOVAL FORCE OF THE BACKSHELL FROM THE MOLEX CONNECTOR TO BE 100N MIN.
- REMOVAL FORCE OF SLIT CONVOLUTE FROM THE WITH RIB OPTION BACKSHELLS TO BE 100N MIN.
- REMOVAL FORCE OF UNSLIT CONVOLUTE FROM THE WITH RIB OPTION BACKSHELLS TO BE 100N MIN.

c. PACKAGING SPECIFICATION SEE PK-31302-118

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)

f. FOLLOWING PRODUCTION CODES TO BE PRESENT

- DATE CODE
- MOLD CAVITY CODE
- MOLEX LOGO
- RECYCLE CODE
- SUPPLIER PART NUMBER

2. DESIGN - MATERIALS:

a. PA66 0% GLASS FILLED

b. BLACK

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 - 2009

c. CORNERS SHOWN AS SHARP TO BE R 0.1.

d. VISUAL DEFECTS SHALL MEET COSMETEIC STANDARD PS-45499-002 (CLASS B).

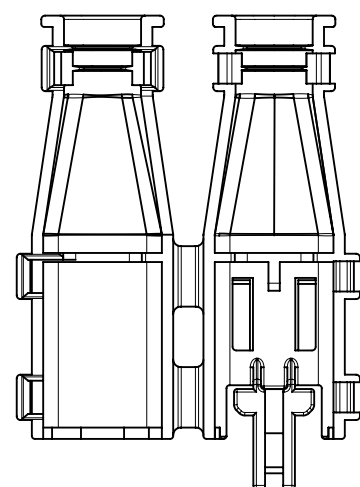
e. DRAFT OF 2° PRESENT.

f. ALLOWABLE FLASH, PARTING LINES MISMATCH, EJECTOR PINS MARK, AND GATE VESTIGE TO BE +0.30 MAX PROTUSION.

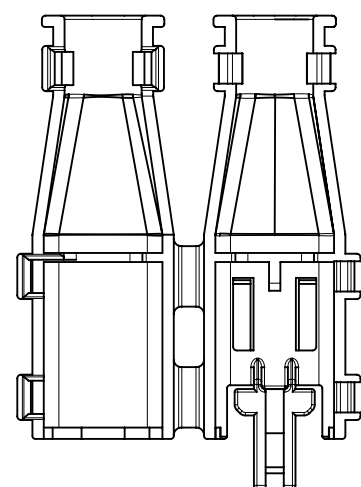
A3	MIGRATED TO NX & ADDED BALLLOON NUMBERS
A2	UPDATED BILL OF MATERIALS
A1	UPDATED STATUS COLUMN
A	INITIAL RELEASE
REV	DESCRIPTION

FUNCTIONAL 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: MIGRATED TO NX				molex					
		mm		1.5:1											
		GENERAL TOLERANCES (UNLESS SPECIFIED)													
ANGULAR TOL ± 1.0 °															
DIVISIONAL SYMBOLS		4 PLACES ±		EC NO: 636032						2020/04/15		MX150 BLADE SINGLE ROW BACKSHELL			
		3 PLACES ±		DRWN: VRAMAKANTALA		2020/04/17									
		2 PLACES ± 0.13		CHK'D: MVANSLAMBROU		2020/04/17		PRODUCT CUSTOMER DRAWING							
		1 PLACE ± 0.25		APPR: MVANSLAMBROU		2020/04/17									
		0 PLACES ±		INITIAL REVISION:				DOCUMENT NUMBER		DOC TYPE		DOC PART		REVISION	
				DRWN: KCUNNINGHAM				SD-34948-0001		PSD		001		A3	
				APPR: VKOSHY				2013/06/11							
		DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		THIRD ANGLE PROJECTION		DRAWING		SERIES		MATERIAL NUMBER		CUSTOMER		SHEET NUMBER	
						D-SIZE		34948		SEE BOM		GENERAL MARKET		1 OF 3	

DOCUMENT STATUS	P1	RELEASE DATE	2020/04/17	14:08:03
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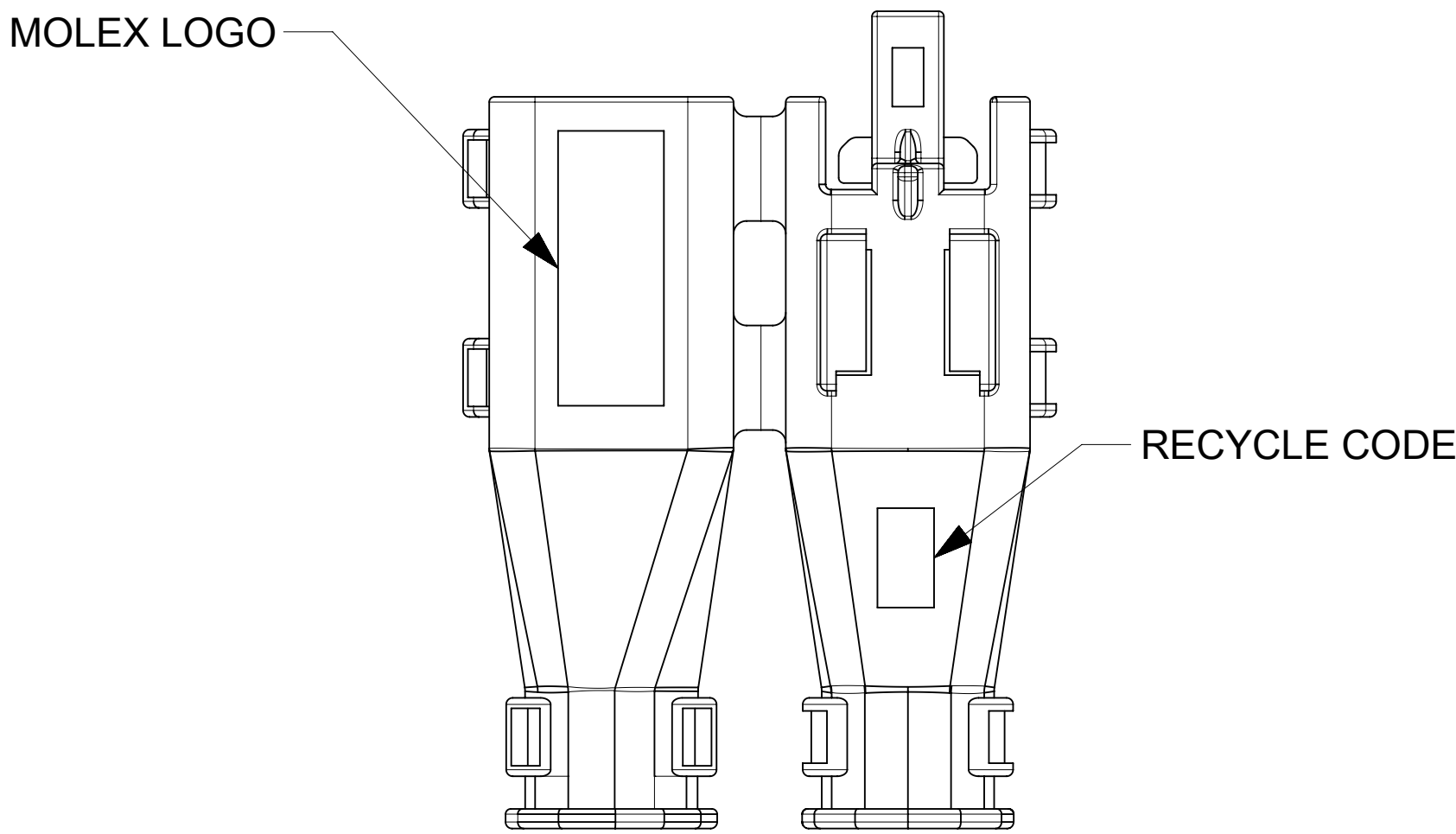
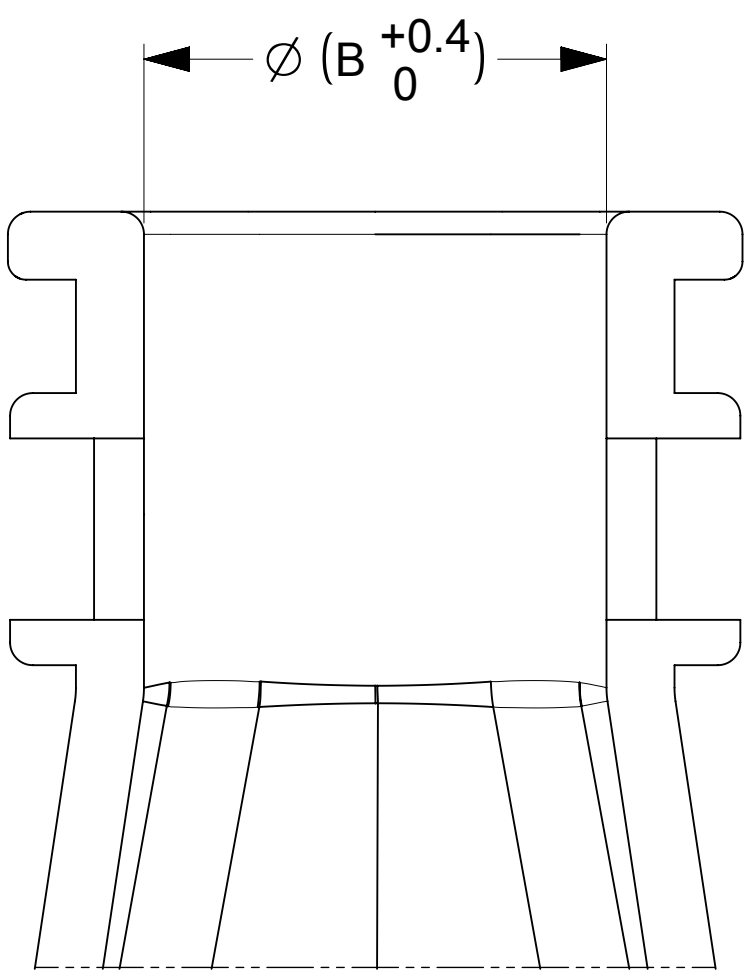
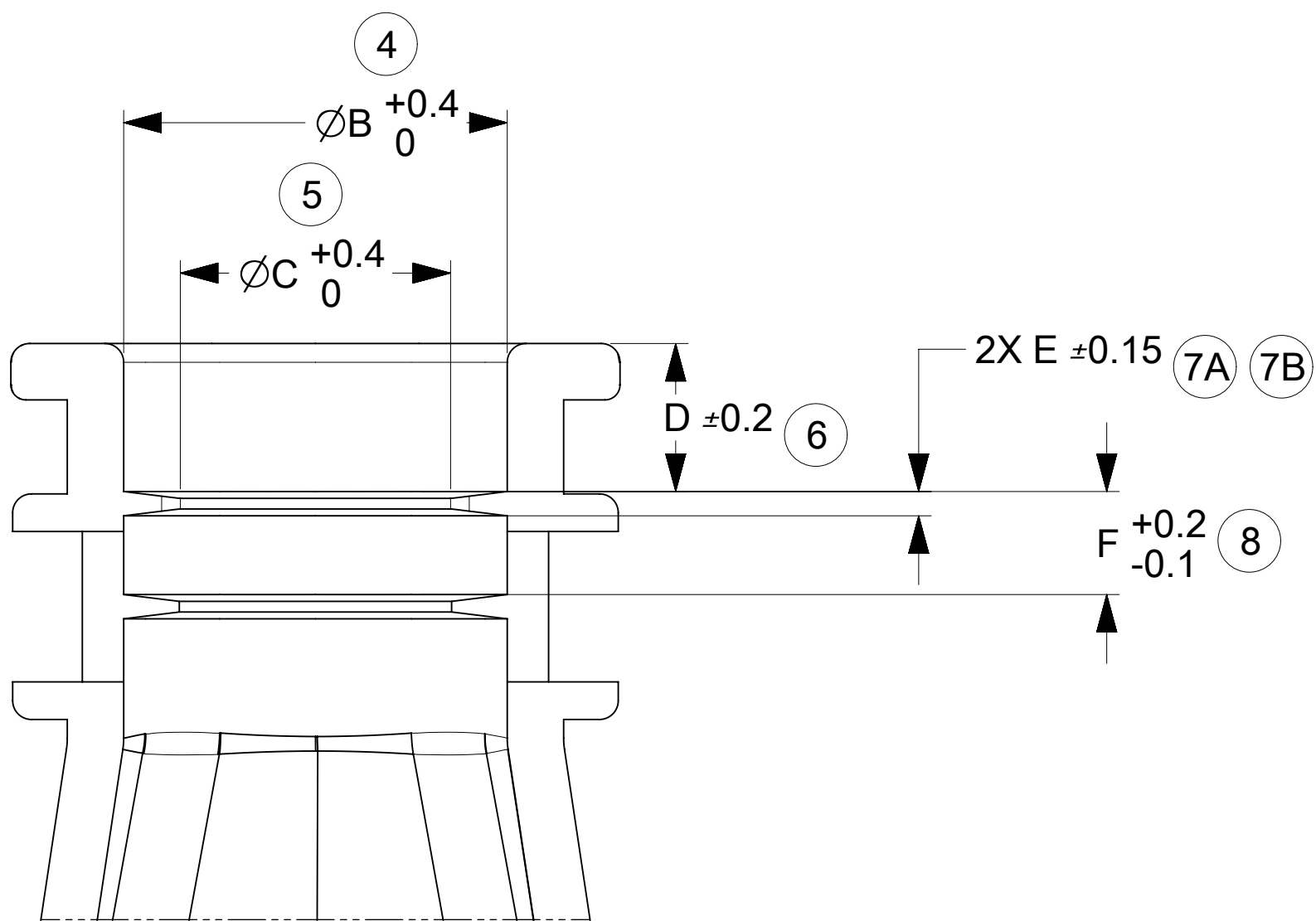
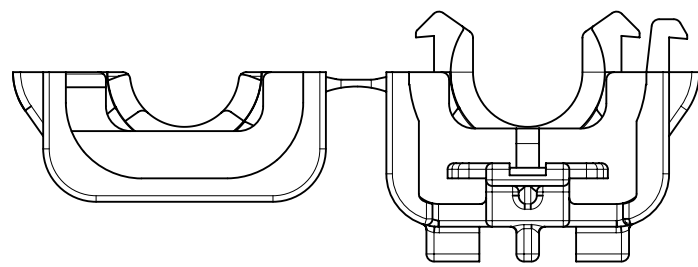
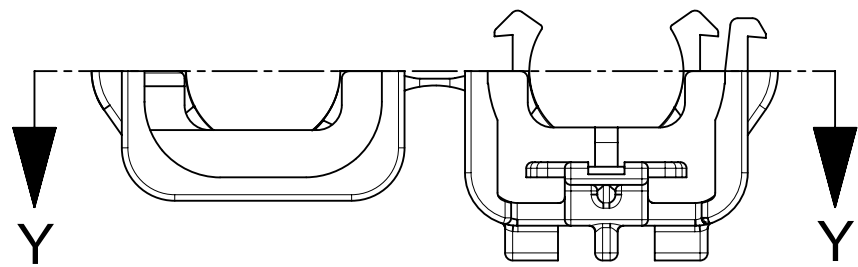
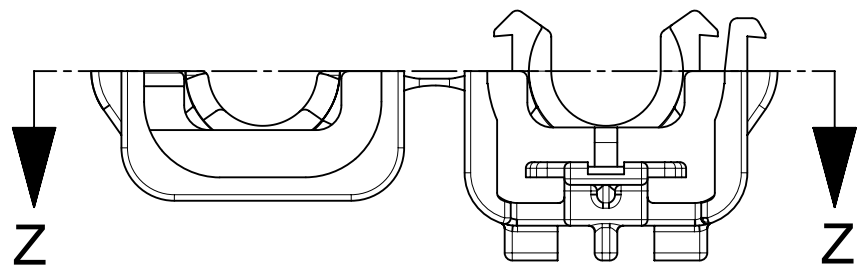
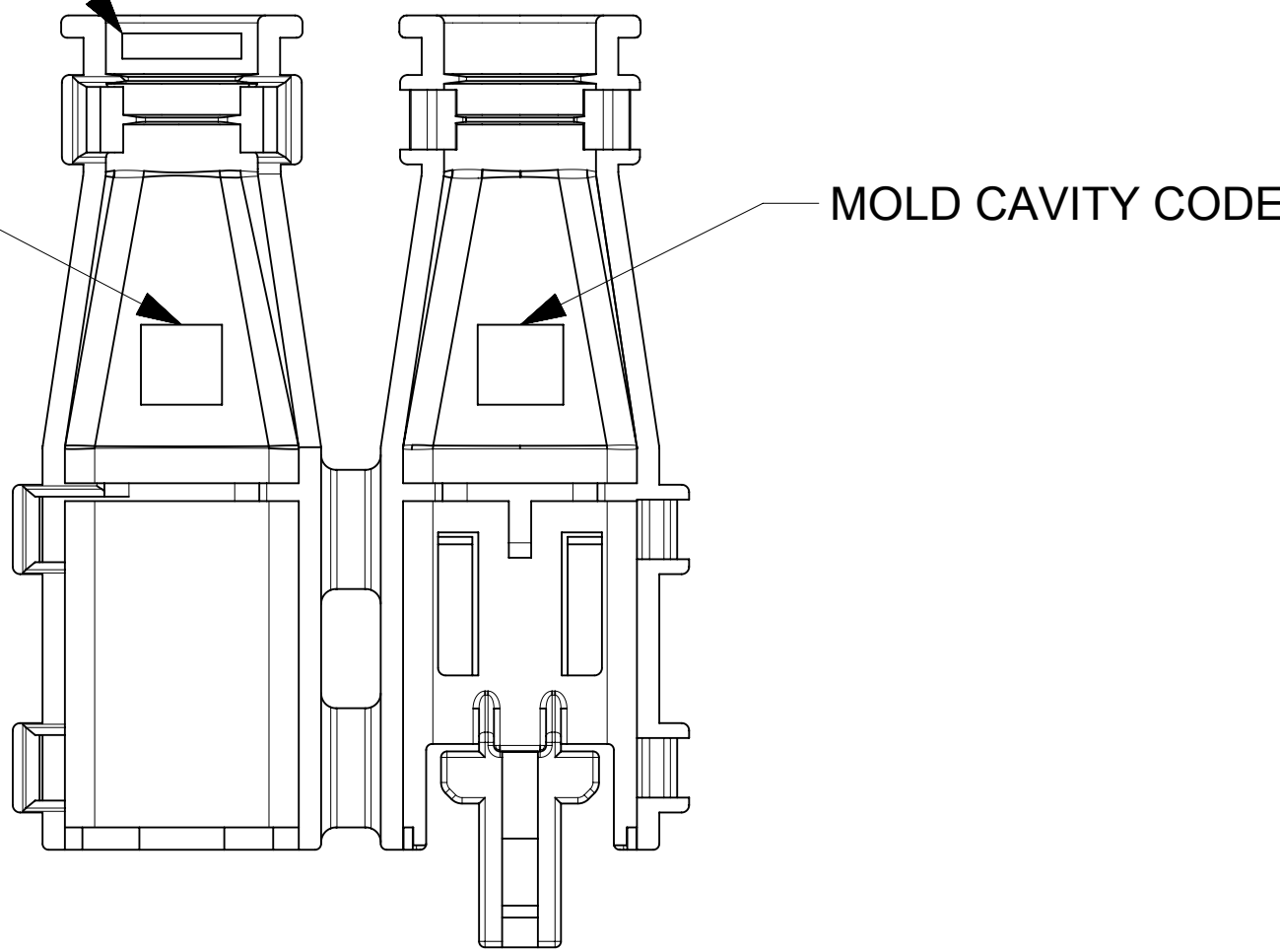
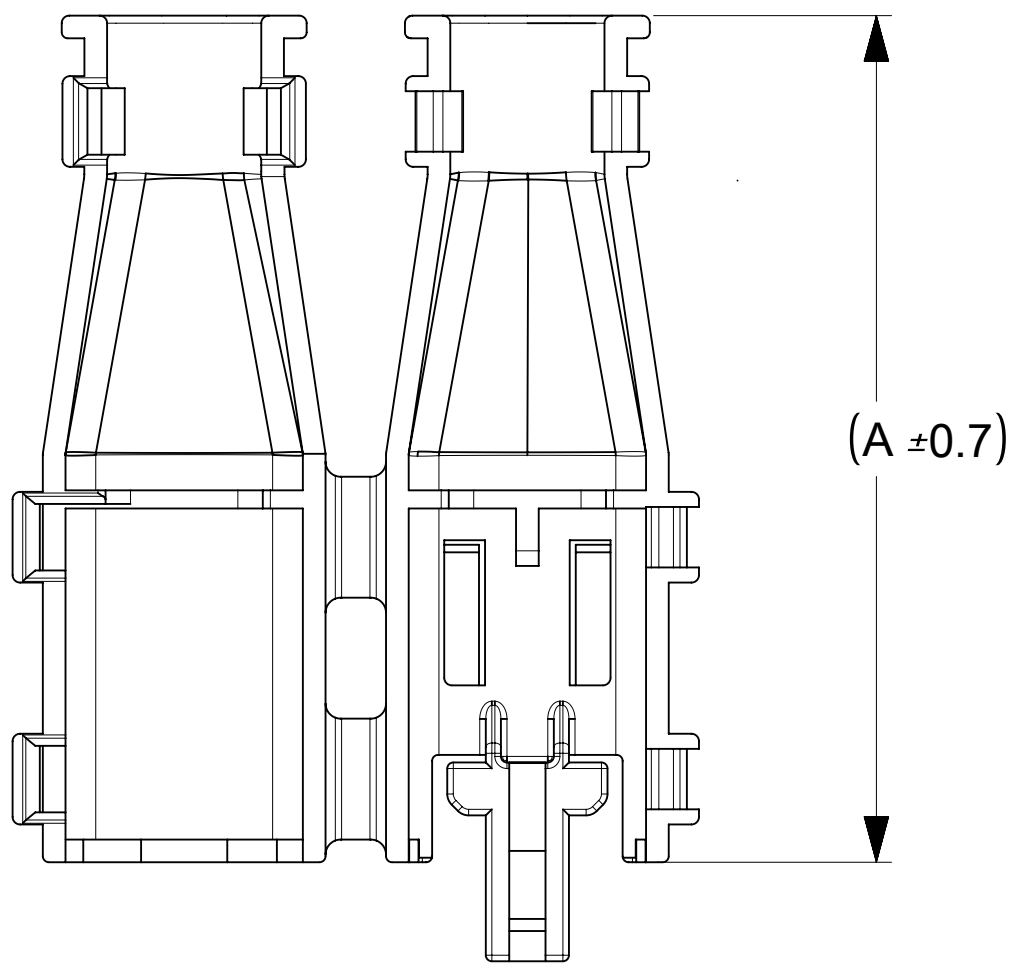
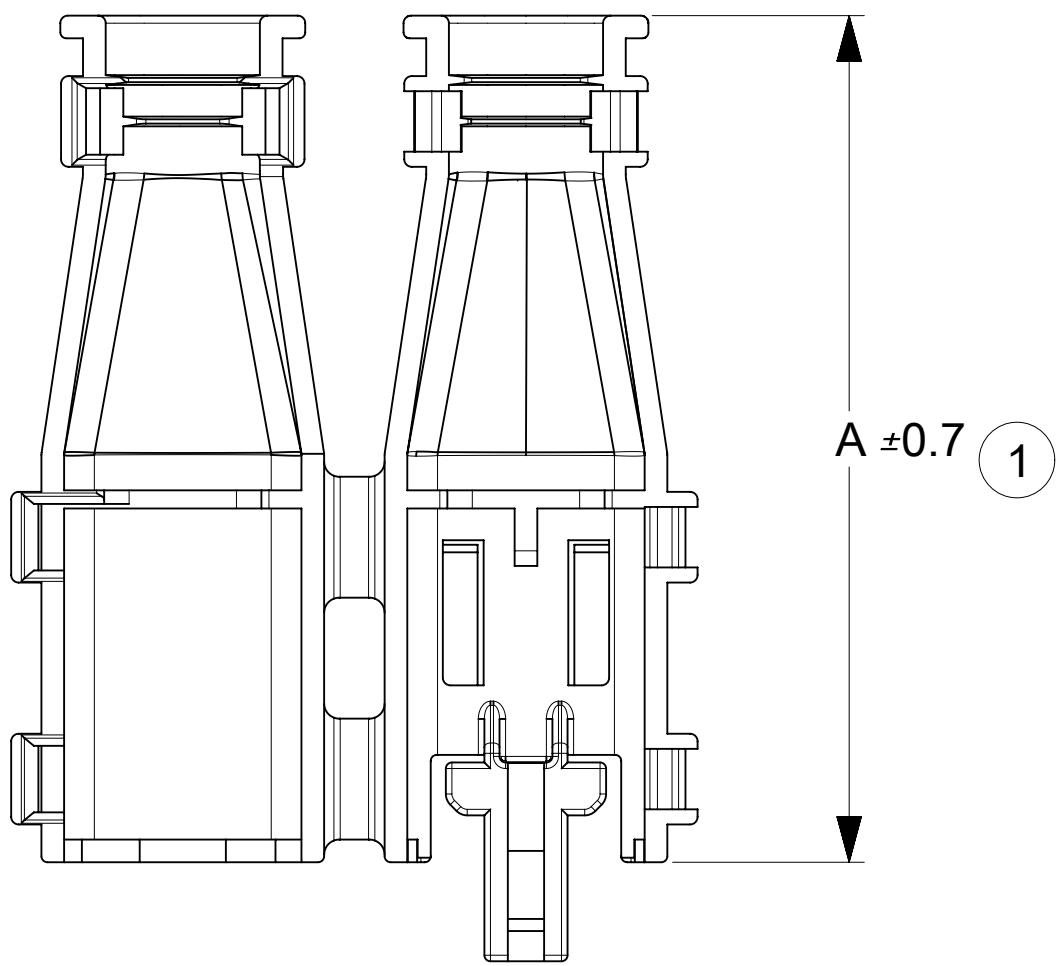
34948-0210
1X2 BLADE WITH RIBS



34948-0220
1X2 BLADE WITHOUT RIBS

CONFIGURATION

FUNCTIONAL 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: MIGRATED TO NX				molex									
mm		1:1															
GENERAL TOLERANCES (UNLESS SPECIFIED)								MX150 BLADE SINGLE ROW BACKSHELL									
ANGULAR TOL ± 1.0°																	
DIVISIONAL SYMBOLS		4 PLACES						±		PRODUCT CUSTOMER DRAWING							
		3 PLACES		±													
		2 PLACES		± 0.13													
		1 PLACE		± 0.25													
		0 PLACES		±													
DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS				THIRD ANGLE PROJECTION		DRAWING		SERIES		MATERIAL NUMBER		CUSTOMER		SHEET NUMBER			
						D-SIZE		34948		SEE BOM		GENERAL MARKET		2 OF 3			
F A = 0				EC NO: 636032				DOCUMENT NUMBER SD-34948-0001				DOC TYPE PSD		DOC PART 001		REVISION A3	
F C = 0				DRWN: VRAMAKANTALA 2020/04/15													
F D = 0				CHK'D: MVANSLAMBROU 2020/04/17													
				APPR: MVANSLAMBROU 2020/04/17													
				INITIAL REVISION:													
				DRWN: KCUNNINGHAM 2013/06/10													
				APPR: VKOSHY 2013/06/11													



SECTION Z-Z

SECTION Y-Y

SCALE 6:1
WITH RIBS

SCALE 6:1
WITHOUT RIBS

PART NUMBER	DIMENSIONS					
	A	B	C	D	E	F
34948-0210	56	10.2	7.2	3.9	0.65	2.7
34948-0220	56	10.2	N/A	N/A	N/A	N/A

FUNCTIONAL 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: MIGRATED TO NX																	
	mm		2:1																			
	GENERAL TOLERANCES (UNLESS SPECIFIED)		ANGULAR TOL ± 1.0 °		molex MX150 BLADE SINGLE ROW BACKSHELL																	
4 PLACES ±																						
3 PLACES ±																						
2 PLACES ± 0.13																						
DIVISIONAL SYMBOLS	1 PLACE ± 0.25				PRODUCT CUSTOMER DRAWING																	
	0 PLACES ±																					
	DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		THIRD ANGLE PROJECTION								DRAWING		SERIES		DOCUMENT NUMBER		DOC TYPE		DOC PART		REVISION	
	D-D-SIZE		34948								SEE BOM		GENERAL MARKET		SD-34948-0001		PSD		001		A3	

molex

MX150 BLADE
SINGLE ROW BACKSHELL

PRODUCT CUSTOMER DRAWING

DOCUMENT NUMBER	DOC TYPE	DOC PART	REVISION
SD-34948-0001	PSD	001	A3

MATERIAL NUMBER	CUSTOMER	SHEET NUMBER
SEE BOM	GENERAL MARKET	3 OF 3

DOCUMENT STATUS	P1	RELEASE DATE	2020/04/17	14:08:03
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