

STANDARD NOTICE

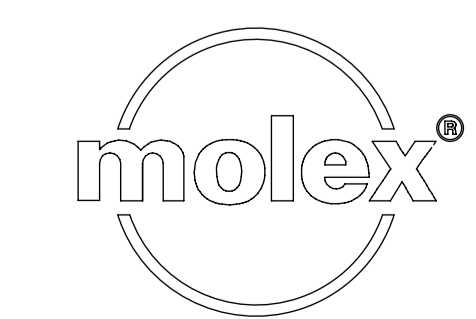
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NOTES: UNLESS OTHERWISE SPECIFIED

- ALL DIMENSIONS SHOWN IN MILLIMETERS.
- DIMENSIONING AND TOLERANCING PER ASME Y14.5M-2009
- 0.25 RADII ON ALL CORNERS SHOWN SHARP.
- UNSPECIFIED RADII: 0.25 EXCEPT AS NOTED.
- STANDARD COLORS FOR POLARIZATION (SEE CHART). DEVIATION REQUIRES APPROVAL OF AUTHORIZED PERSON.
- REFER TO "SAE/USCAR 12 CONNECTOR GUIDELINES" FOR ADDITIONAL REQUIREMENTS.
- EXCEPT WHERE NOTED, DRAFT ON OUTSIDE SURFACES IS PERMISSIBLE WITHIN TOLERANCE.
- SYMBOL INDICATES DRAFT DIRECTION.
- FOR TERMINAL MATERIAL, DIMENSIONAL, AND COATING REQUIREMENTS AND ANY BLADE TERMINAL DESIGN INFORMATION NOT SHOWN ON THIS DRAWING SEE EWCAP DRW. NO. EWCAP-001
- A FULL SHROUD ON THE MATING CONNECTOR IS REQUIRED TO INSURE THAT THE CONNECTOR-HEADER POLARIZATION FEATURES (OPTIONS A THRU D) WILL FUNCTION. THE FULL SHROUD ALSO PREVENTS SCOOP DAMAGE TO THE HEADER PINS. REFER TO "SAE/USCAR-12 CONNECTOR DESIGN GUIDE LINES" FOR ADDITIONAL INFORMATION.
- REFER TO USCAR/EWCAP PART LIST AS FOUND ON WEBSITE <http://www.uscarteams.org>
- 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.

REV	DATE	BY	CHK	DESCRIPTION	
132	D5			UPDATED CALL OUT FOR THE REVISION OF GD&T FROM ASME Y14.5-1994 TO Y14.5-2009	
132	D4			UPDATED THE STANDARD NOTICE TO THE LATEST TEMPLATE	
132	D3			ADDED PLANE 2	
132	D2			ADDED PLANE 1	
132	D1	04-24-17	MV	ADDED CALL OUT "CENTER PLANES ESTABLISHED BY DATUM B"	
095	C22			CHANGED ISO VIEW SCALE TO 4:1, WAS 1:1	
095	C21			ADDED PARTING LINE NOTE TO DETAIL A, REMOVED NOTE BACK ANGLE OPTIONAL FROM 5°	
095	C20			CORRECTED CHRYSLER GROUP LLC NOMENCLATURE ADDED LEGAL NOTE AND EWCAP TO TITLE BLOCK	
095	C19			MOVED NOTE TO SECTION B-B	
095	C18			UPDATED NOTES	
095	C17			ADDED 0.25° MAX DRAFT ANGLE ALL AROUND	
095	C16			ADDED 5.50	
095	C15			ADDED AT TANGENT NOTE	
095	C14			REMOVED DATUM D	
095	C13			ADDED BASIC DIMENSIONS FOR PROFILE CONTROL	
095	C12			ADDED 0.20 A B	
095	C11			DIMENSION TO DATUM A	
095	C10			SEALING SURFACE DIMENSIONS MOVED TO SECTION C-C	
095	C9			ADDED SECTION C-C	
095	C8			REMOVED 15.20 AND 2.50 FROM SECTION A-A	
095	C7			ADDED DRAFT ANGLE DIRECTION	
095	C6			REMOVED 0.80 ±0.10/-0.20 ALL AROUND	
095	C5			REPLACED WALL THICKNESS CONTROL WITH PROFILE OF A SURFACE	
095	C4			ADDED R(6.47)	
095	C3			ADDED 0.70±0.15 ALL AROUND	
095	C2			UPDATED CONNECTOR COLORS	
095	C1			SURFACE 'D' RELOCATED TO 3.50 WAS AT 8.20	
B3				REMOVED EWCAP FROM THE TITLE BLOCK	
B2				REMOVED LEGAL NOTICE	
B1	03-26-12	KC	MV	ANGEL 40° WAS 60° -4 PLACES (A4-D4)	
A	10-31-02	MV	DG	RELEASED	
CHANGE SERIAL NUMBER	LET	REVISION RECORD	DATE	DWN	CHK

EWCAP P/N	OPTION	MATING CONNECTOR COLOR
150-S-004-2-D02	D	BLACK
150-S-004-2-C02	C	DK GRAY
150-S-004-2-B02	B	LT GRAY
150-S-004-2-A02	A	BLACK



TOLERANCES (UNLESS OTHERWISE SPECIFIED):
 DIMENSIONS ARE IN MILLIMETERS
 ANGLES ±3°
 X ±0.2 XX ±0.10

THIRD ANGLE PROJECTION

EWCAP

SCALE: 4 - 1 DRAWN BY: K. CUNNINGHAM CHECKED BY: M. VANSLAMBOUCK DATE: 03-26-12

TITLE: DIRECT CONNECT INTERFACE
4 WAY (2 X 2) 1.5MM SEALED MALE

SHEET: DRAWING NUMBER: 150-S-004-2-Z02 SIZE: E DO NOT SCALE DRAWING REVISION LEVEL: D

SHEET NO.	SHEET DESCRIPTION
1	NOTES AND BOM
2	CONFIGURATIONS
3-4	KEY CONFIGURATIONS
5	RECEPTACLE CONNECTOR ASSEMBLY
6	BACKSHELL NOTES
7	BACKSHELL
8	BACKSHELL CONFIGURATIONS
9	2X10 CONNECTOR INTERFACE DEFINITION

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 DEVICE OR CONNECTOR AS SPECIFIED IN THE MATING INTERFACE/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 (STD): PS-33472-000
 -TRANSMISSION CONFIGURATION (TRNS):
 CONTAINS SILICONE: TS-160038-0001
 SILICONE FREE: TBD
 -UL V0 CONFIGURATION (UL V0): TBD
 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: SEE PACKAGING CHART

d. PARTS MUST BE IN COMPLIANCE TO MOLEX CHEMICAL SUBSTANCES FOR PRODUCTS AND PACKAGING SPECIFICATION: QEHS-699000-301

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

2. DESIGN - MATERIALS:

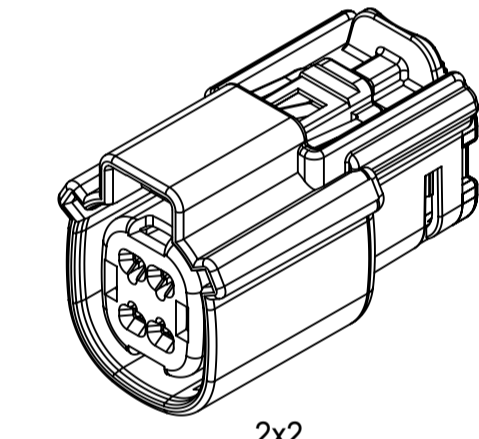
- a. FOR BILL OF MATERIALS SEE:
 -STANDARD CONFIGURATION SD-33472-0002
 -TRANSMISSION CONFIGURATION
 CONTAINS SILICONE: SD-160038-0002
 SILICONE FREE: SD-160092-0002
 -UL V0 CONFIGURATION SD-160074-0002
 b. TRANSMISSION CONNECTOR COMPONENTS MUST MEET THE MATERIAL REQUIREMENTS SPECIFIED IN TS-160038-0001 & TBD

3. DESIGN - GEOMETRY:

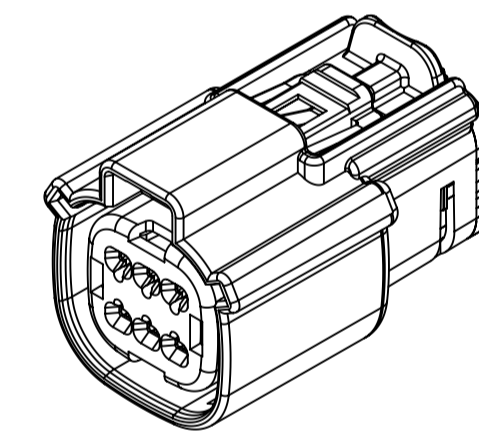
- a. THE 3-D CAD DATA IS BASIC (WITHOUT TOLERANCE) AND MASTER FOR THIS PART WITH THE EXCEPTION OF UNDERLINED DIMENSIONS. DIMENSIONAL INFORMATION NOT SHOWN ON THIS DRAWING IS DEFINED BY THE DATA FILE AT ITS LATEST REVISION.
 b. GEOMETRIC DIMENSIONS AND TOLERANCES PER ASME Y14.5M-2009
 c. EDGES AND UNDIMENSIONED 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:
 1. PART NUMBER
 2. DAY OF THE YEAR
 3. SHIFT
 4. YEAR
 FOR ADDITIONAL INFORMATION SEE SECTION 5 UNDER PROCEDURES IN ES-34735-008.
 h. 2X2 CLIP-SLOT DESIGN IS BASED ON USCAR/EWCAP 7mm CLIP SLOT EWCAP - 005 - 7
 2X3 THRU 2X10 CLIP-SLOT DESIGN IS BASED ON USCAR/EWCAP 11mm CLIP SLOT EWCAP - 005 - 11

DESCRIPTION	DRAWING NO.
2X2	PK-31300-635
2X3	PK-31300-903
2X4	PK-31300-903
2X6	PK-31300-903
2X8	PK-31300-903
2X10	PK-31300-903

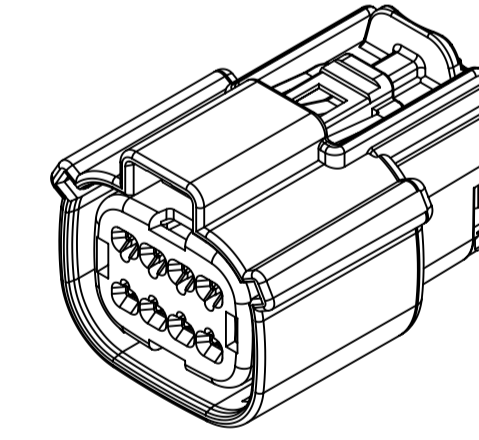
DESCRIPTION	INTERFACE DEFINITION	MOLEX IN-LINE
STANDARD 2X2	*150-S-004-2-Z02	SD-33482-0001
UL V0 2X2	*150-S-004-2-Z02	SD-33482-0001
STANDARD 2X3	*150-S-006-2-Z02	SD-33482-0001
TRANSMISSION 2X3	*150-S-006-2-Z02	N/A
STANDARD 2X4	*150-S-008-2-Z02	SD-33482-0001
UL V0 2X4	*150-S-008-2-Z02	SD-33482-0001
STANDARD 2X6	*150-S-012-2-Z01	SD-33482-0001
UL V0 2X6	*150-S-012-2-Z01	SD-33482-0001
STANDARD 2X8	*150-S-016-2-Z01	SD-33482-0001
STANDARD 2X10	SD-33472-0001	SD-33482-0001
UL V0 2X10	SD-33472-0001	SD-33482-0001



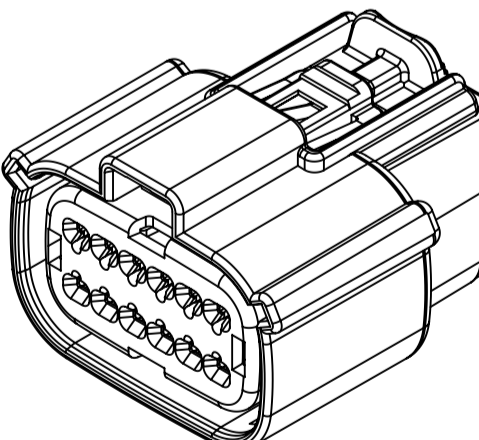
2x2



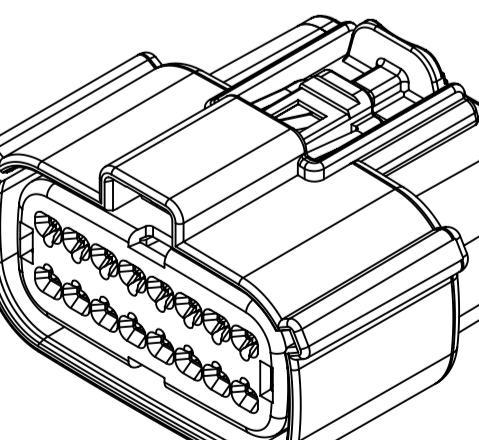
2x3



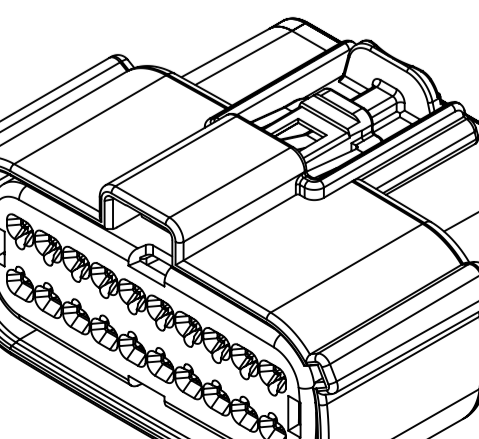
2x4



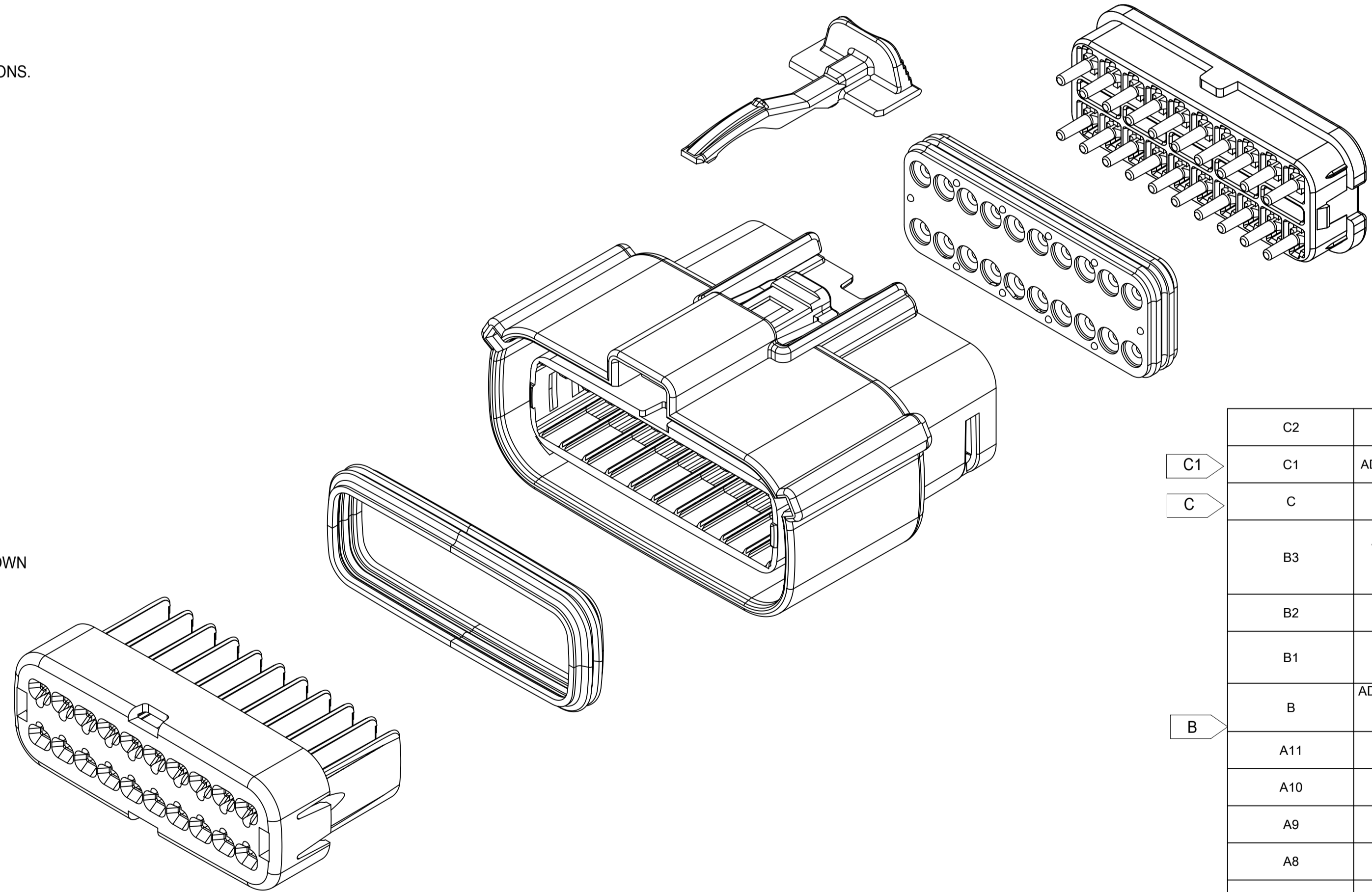
2x6



2x8



2x10



C2	ADDED MOLEX BACKSHELL DETAILS
C1	ADDED 2X6-TRNS -WITH/WITHOUT CLIP-SLOT *
C	ADDED 2X10-STD -WITH CLIP-SLOT *
B3	ADD ROW FOR 2X8 V0 ON SHEET 50IMS# UPDATE TO 25.0 MAX FOR V0IM11# UPDATE TO 33.85 MAX FOR V0
B2	ADD 2X6 UL V0 CONFIGURATIONS
B1	UPDATE 2X6 W/O CLIP-SLOT DIM G ON TABLE OF SHEET 5
B	ADDED 2X2 - STD - WITH CLIP-SLOT, 2X8 - STD - WITH CLIP-SLOT AND NOTE 3.
A11	MINOR GEOMETRY CHANGE FOR UL V0
A10	UPDATED 2X4 DRAWING NUMBER
A9	UPDATED 2X10 PART NUMBERS
A8	UPDATED 2X3 DRAWING NUMBER
A7	UPDATED 2X10 INTERFACE
A6	ADDED TRANSMISSION REFERENCES
A5	ADD 2X10 INTERFACE SHEETS
A4	ADD UL V0 CONFIGURATIONS
A3	ADDED 2X3 STD AND TRANSMISSION
A2	UPDATED 2X8 BLD DRAWINGS
A1	FIXED TYPO IN NOTE 1a. UPDATED 2X8 MOLEX IN-LINE BLADE DRAWING
A	INITIAL RELEASE
REV	REV DESCRIPTION

INSPECTION NUMBER LOG
LAST NUMBER: 11
ADDED: 11
REMOVED:

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	1:1		
GENERAL TOLERANCES (UNLESS SPECIFIED)		EC NO: 171650	
ANGULAR TOL	± 1.0°	DRWN: DDEB	2018/01/19
4 PLACES	±	CHK'D: MVANSLAMBROU	2018/02/16
3 PLACES	±	APPR: MVANSLAMBROU	2018/02/16
2 PLACES	± 0.1	INITIAL REVISION:	
1 PLACE	± 0.2	DRWN: APROFFITT	2014/05/14
0 PLACES	±	APPR: VKOSHY	2014/06/27
DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		DRAWING	SERIES
		A1-SIZE	33472
		MATERIAL NUMBER	CUSTOMER
		SD-33472-0001	GENERAL MARKET
		DOCUMENT NUMBER	DOC TYPE
		PSD	001
		SHEET NUMBER	
		1 OF 11	

molex

MX150 RCPT
 DUAL ROW SEALED ASSEMBLY MAT SEAL

PRODUCT CUSTOMER DRAWING

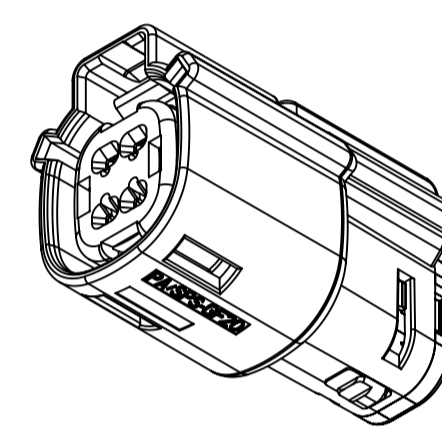
SD-33472-0001

PSD 001 C2

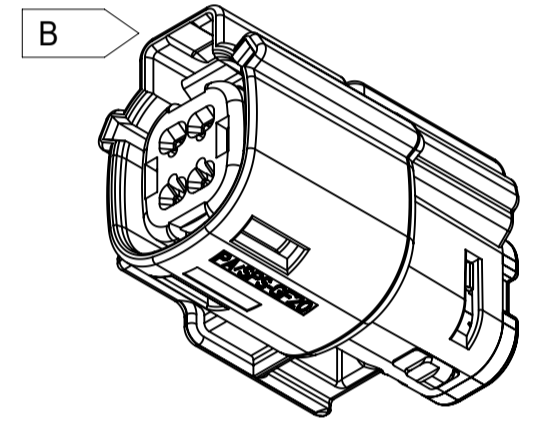
GENERAL MARKET 1 OF 11

SHEET DESCRIPTION

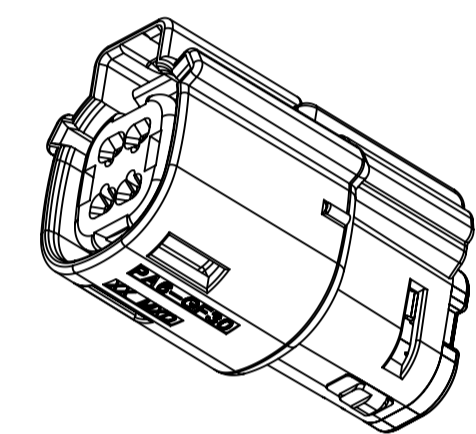
CONFIGURATIONS



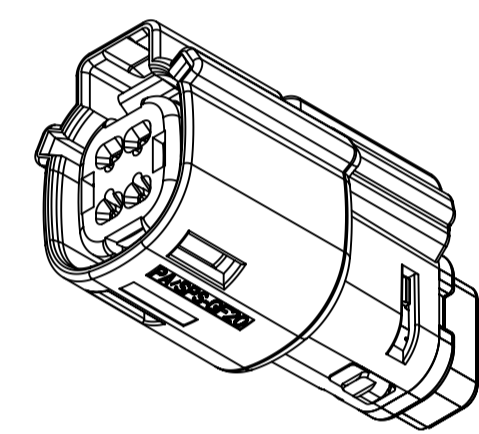
2X2 - STD.
2X2 - TRNS. - SILICONE FREE †



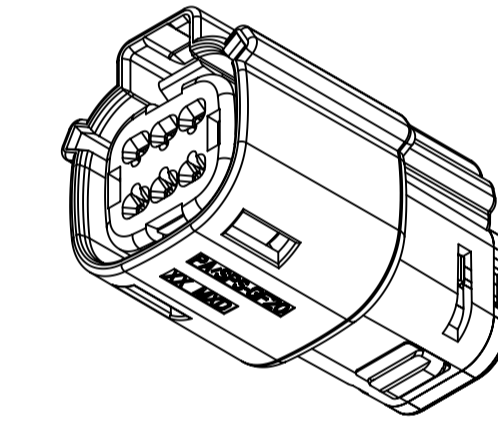
2X2 - STD. - WITH CLIPSLOT *



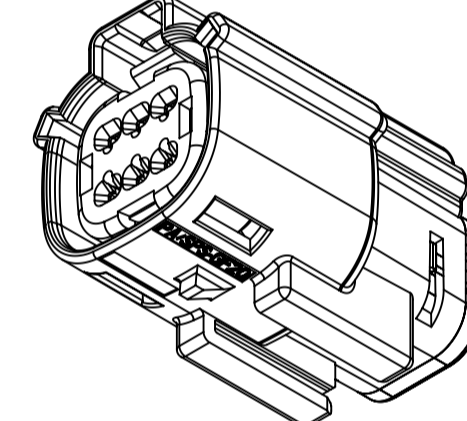
† 2X2 - UL V0



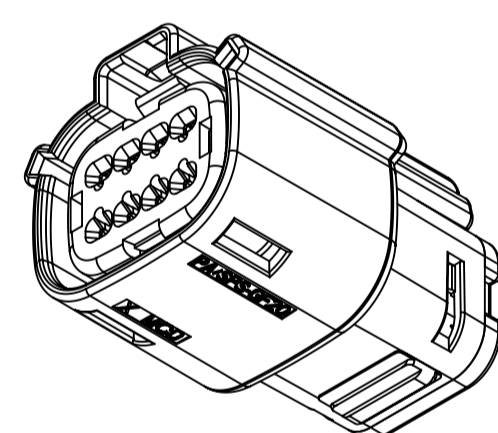
2X2 - STD. - LENGTHENED



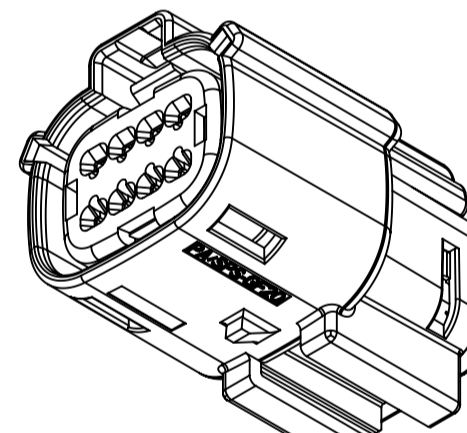
2X3 - STD.
2X3 - TRNS. - CONTAINS SILICONE †



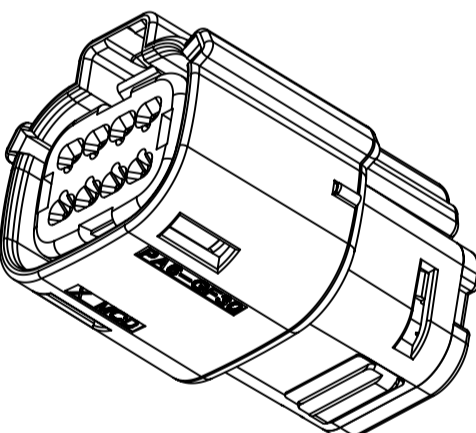
2X3 - STD. - WITH CLIPSLOT *



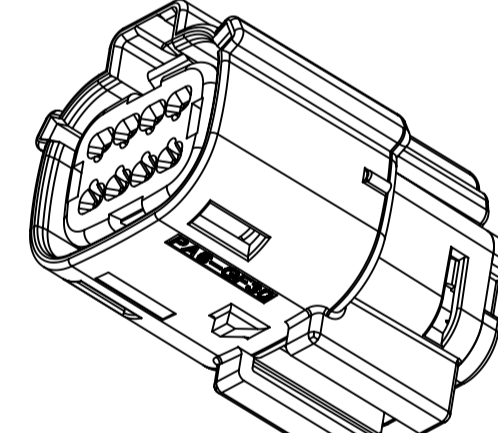
2X4 - STD.



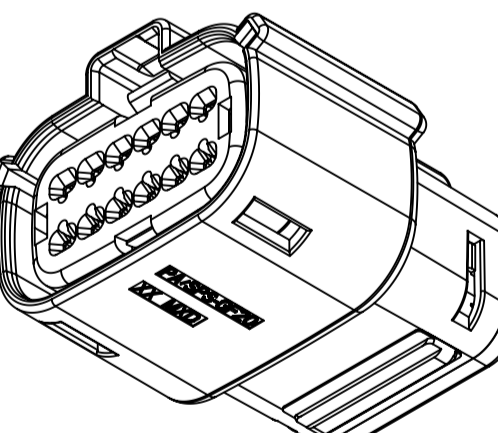
2X4 - STD. - WITH CLIPSLOT *



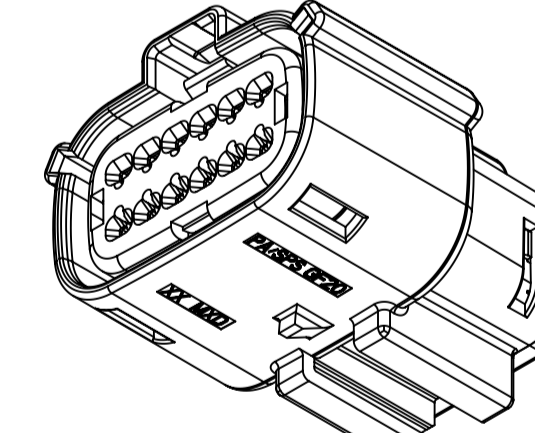
† 2X4 - UL V0



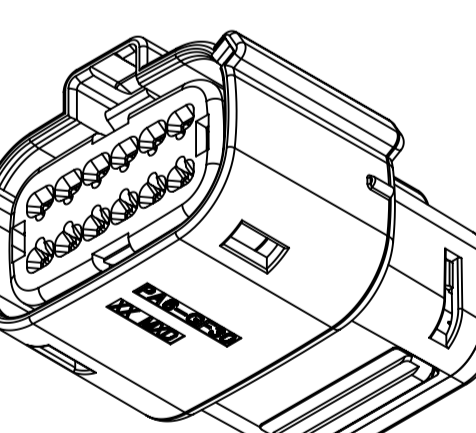
† 2X4 - UL V0 - WITH CLIPSLOT *



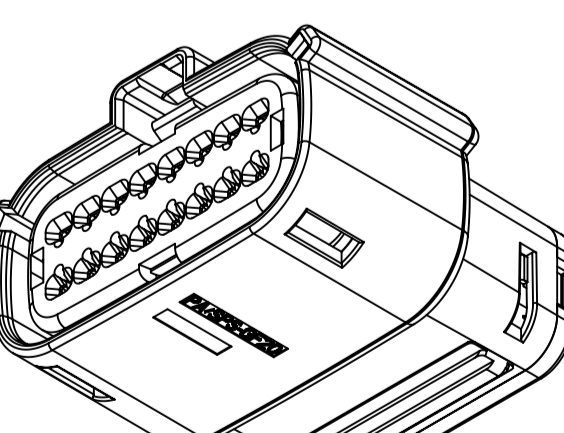
2X6 - STD.
C1 † 2X6 - TRNS.



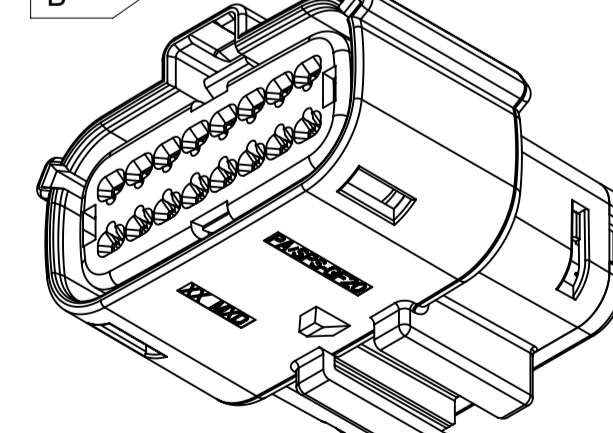
2X6 - STD. - WITH CLIPSLOT *
C1 † 2X6 - TRNS. - WITH CLIPSLOT *



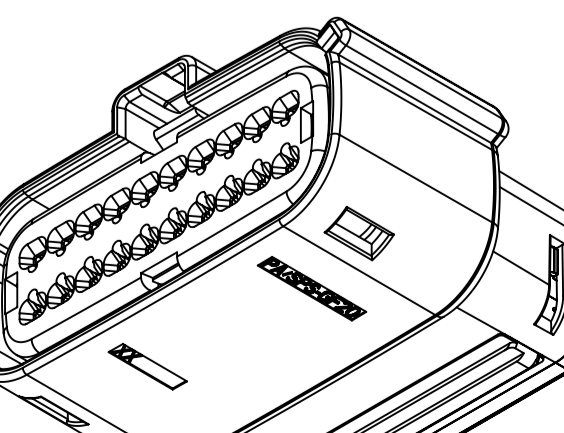
† 2X6 - UL V0



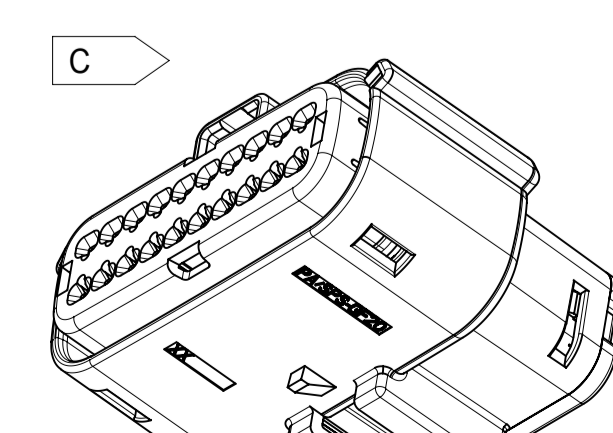
2X8 - STD.



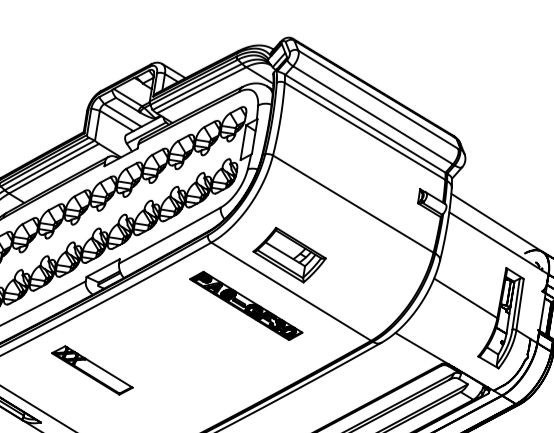
2X8 - STD. - WITH CLIPSLOT *



2X10 - STD.



2X10 - STD. - WITH CLIPSLOT *



† 2X10 - UL V0

* WITH CLIPSLOT CONFIGURATION DOES NOT MEET THE USCAR PACKAGING FRAME REQUIREMENTS
† MINOR GEOMETRY DIFFERENCE THAN STANDARD CONFIGURATION
SEE NOTES 1a & 2a-b 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	mm	SCALE	1:1
▽ = 0	GENERAL TOLERANCES (UNLESS SPECIFIED)		
▽ = 0	ANGULAR TOL ± 1.0°		
▽ = 0	4 PLACES ±	EC NO: 171650	
▽ = 0	3 PLACES ±	DRWN: DDEB 2018/01/19	
▽ = 0	2 PLACES ± 0.1	CHK'D: MVANSLAMBROU 2018/02/16	
▽ = 0	1 PLACE ± 0.2	APPR: MVANSLAMBROU 2018/02/16	
▽ = 0	0 PLACES ±	INITIAL REVISION:	
▽ = 0	DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		
▽ = 0	THIRD ANGLE PROJECTION	DRAWING	SERIES
	A1-SIZE	33472	
DOCUMENT NUMBER		CUSTOMER	SHEET NUMBER
SD-33472-0001		GENERAL MARKET	2 OF 11

molex

MX150 RCPT
DUAL ROW SEALED ASSEMBLY MAT SEAL

PRODUCT CUSTOMER DRAWING

DOCUMENT NUMBER: SD-33472-0001

DOC TYPE: PSD

DOC PART: 001

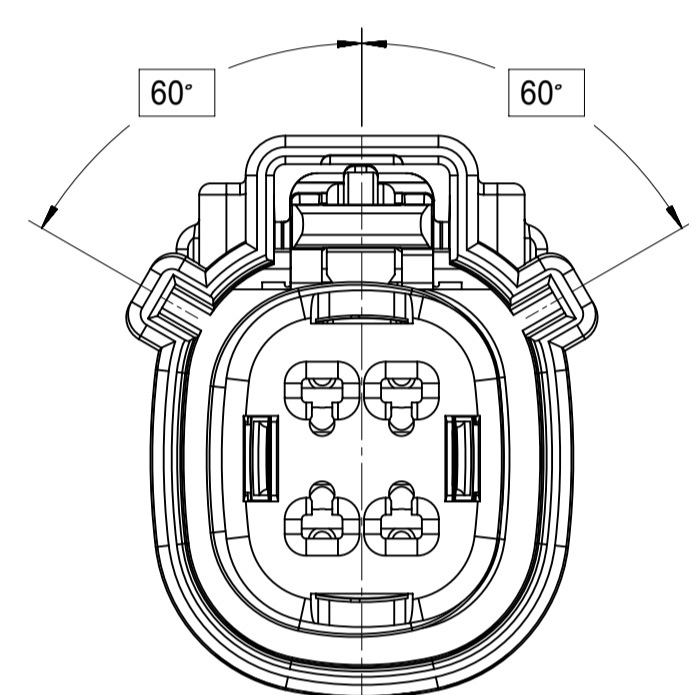
REVISION: C2

CUSTOMER: GENERAL MARKET

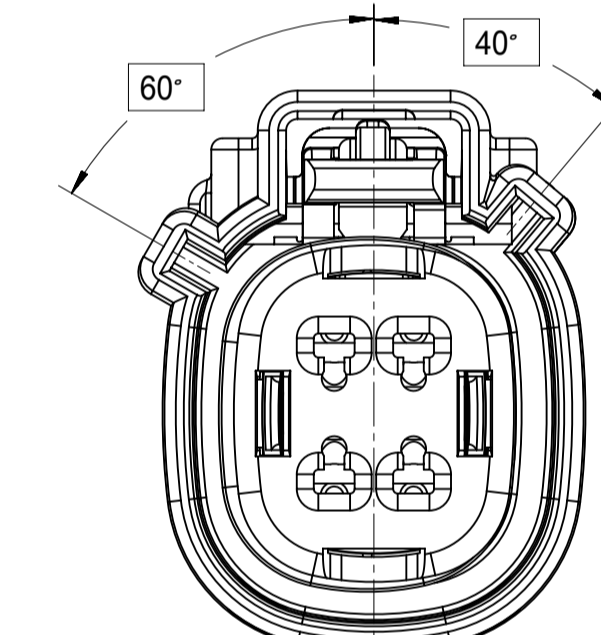
SHEET NUMBER: 2 OF 11

SHEET DESCRIPTION
KEY CONFIGURATIONS

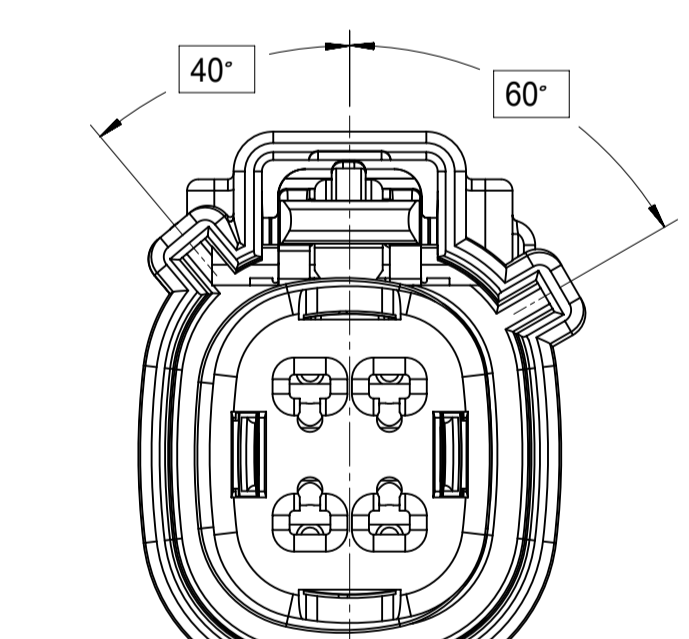
2X2



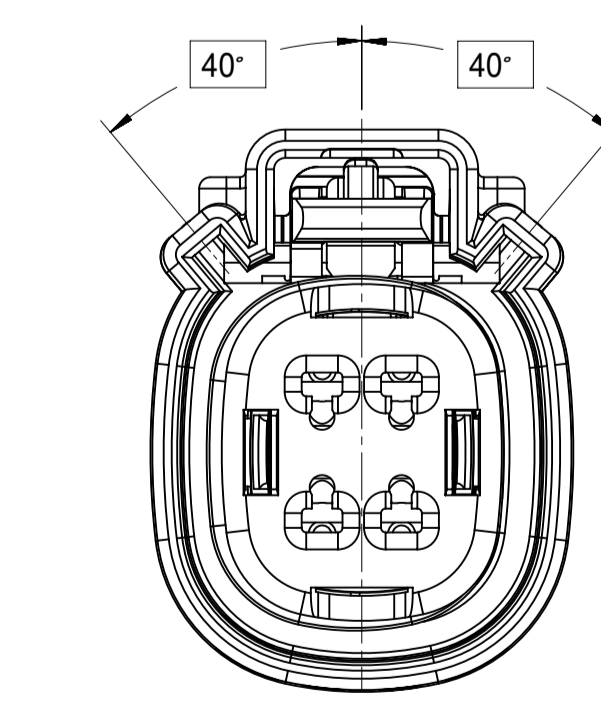
KEY A



KEY B

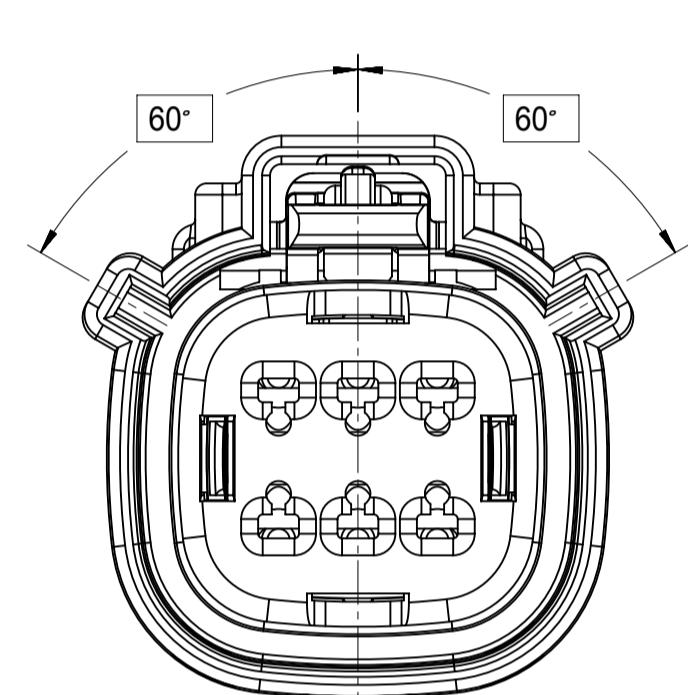


KEY C

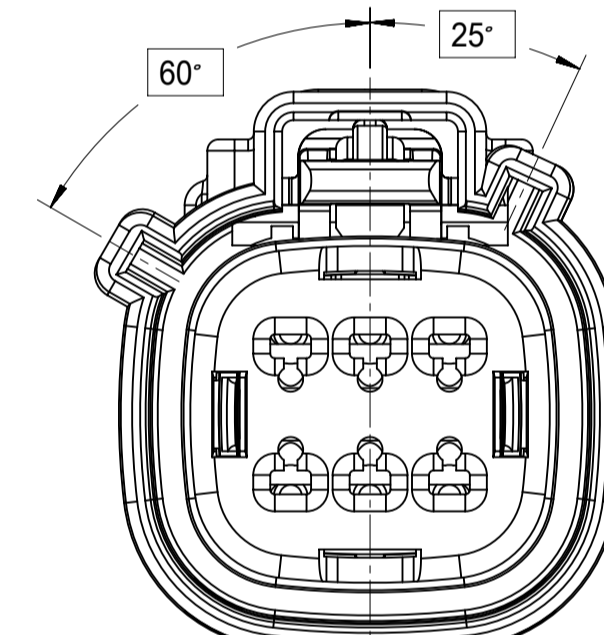


KEY D

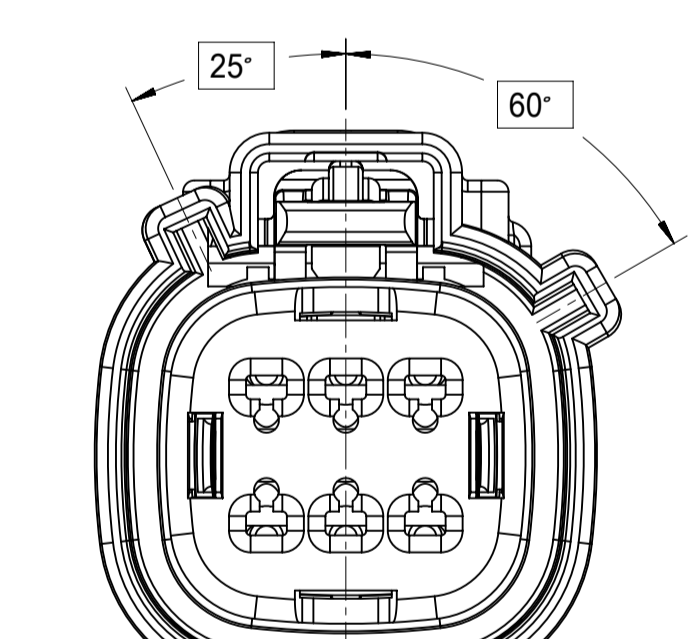
2X3



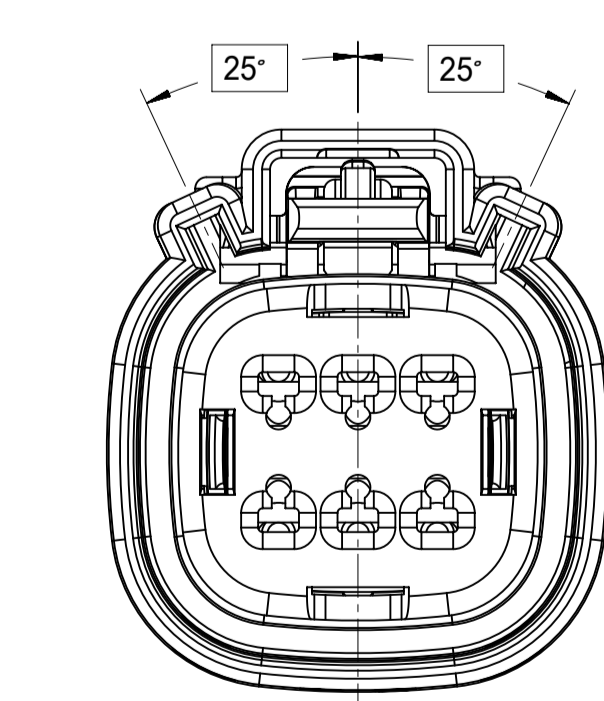
KEY A



KEY B

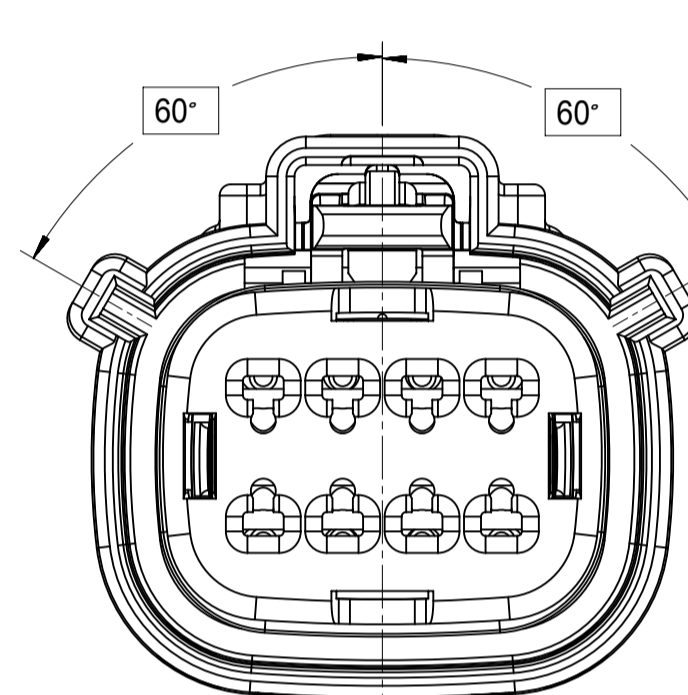


KEY C

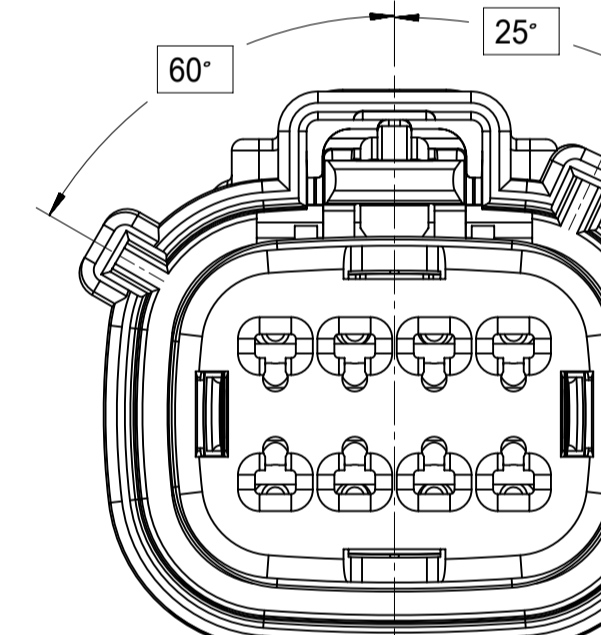


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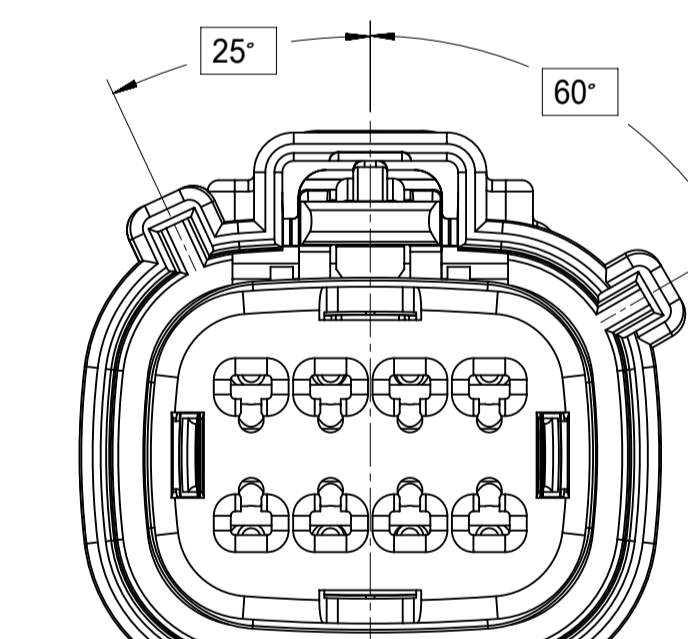
2X4



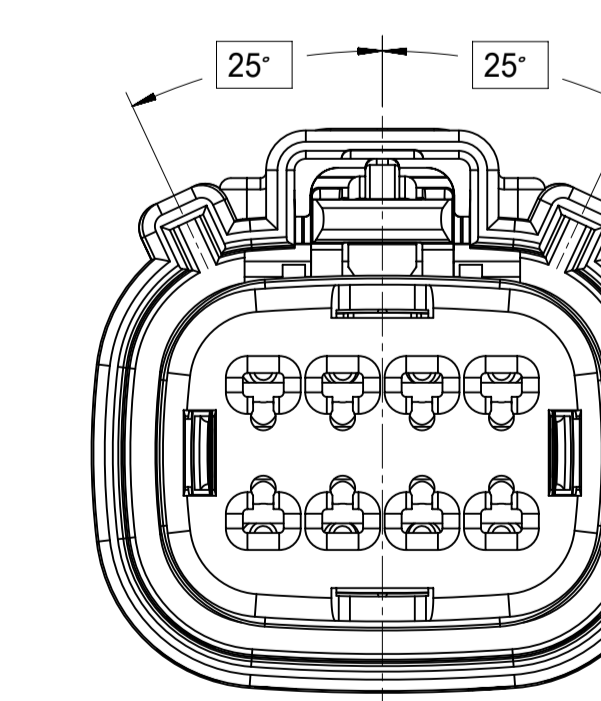
KEY A



KEY B



KEY C

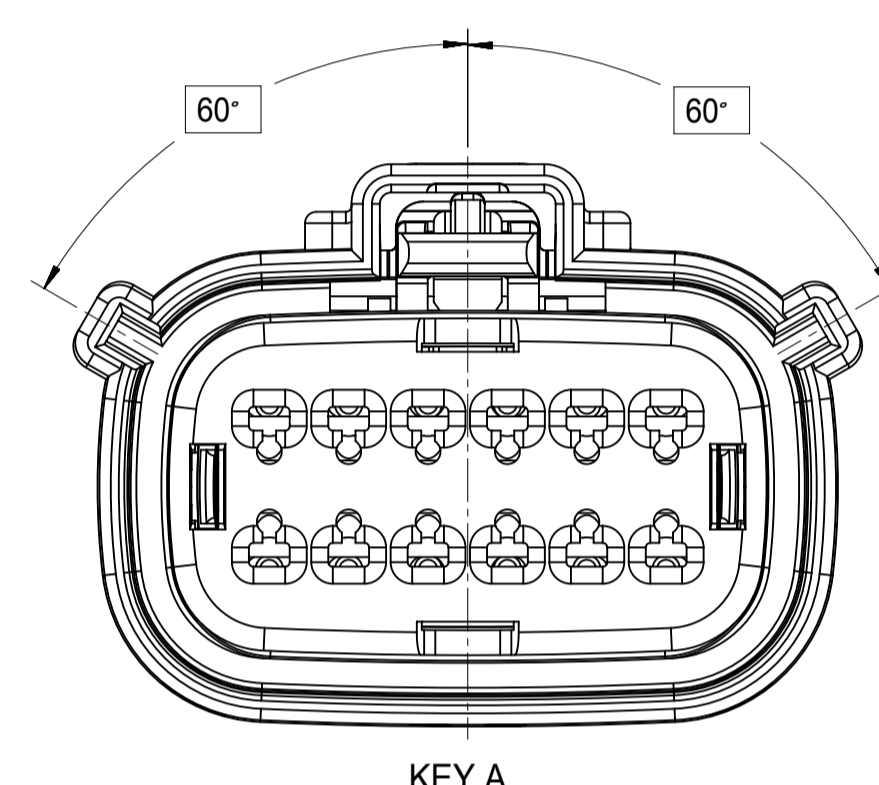


KEY D

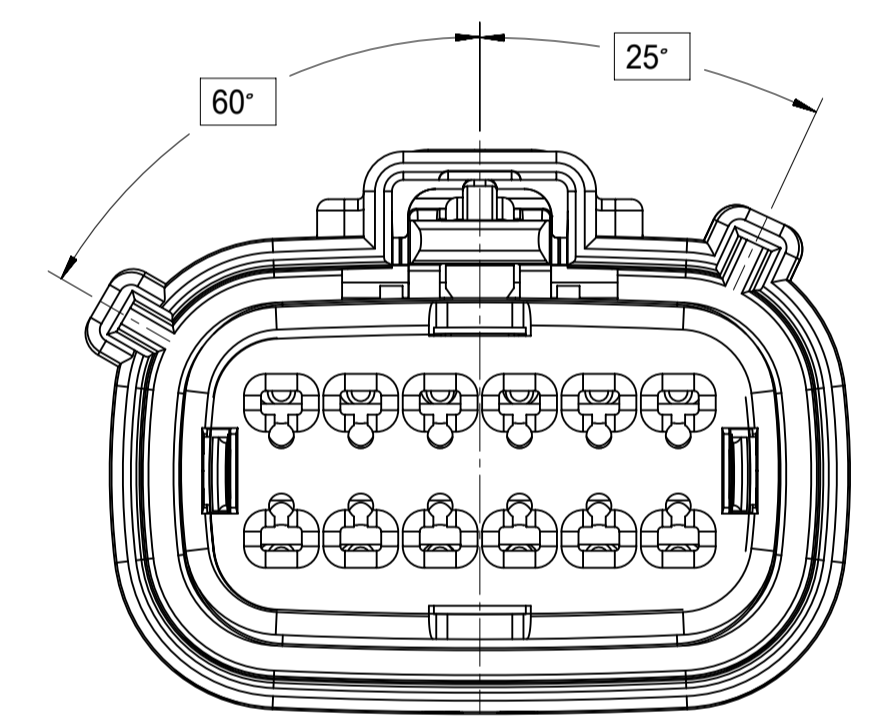
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DOCUMENT STATUS: P1 RELEASE DATE: 2018/02/16 22:02:25		DOCUMENT NUMBER: SD-33472-0001 DOC TYPE: PSD DOC PART: 001 REVISION: C2		MATERIAL NUMBER: 33472 CUSTOMER: GENERAL MARKET SHEET NUMBER: 3 OF 11	

SHEET DESCRIPTION
KEY CONFIGURATIONS CONT.

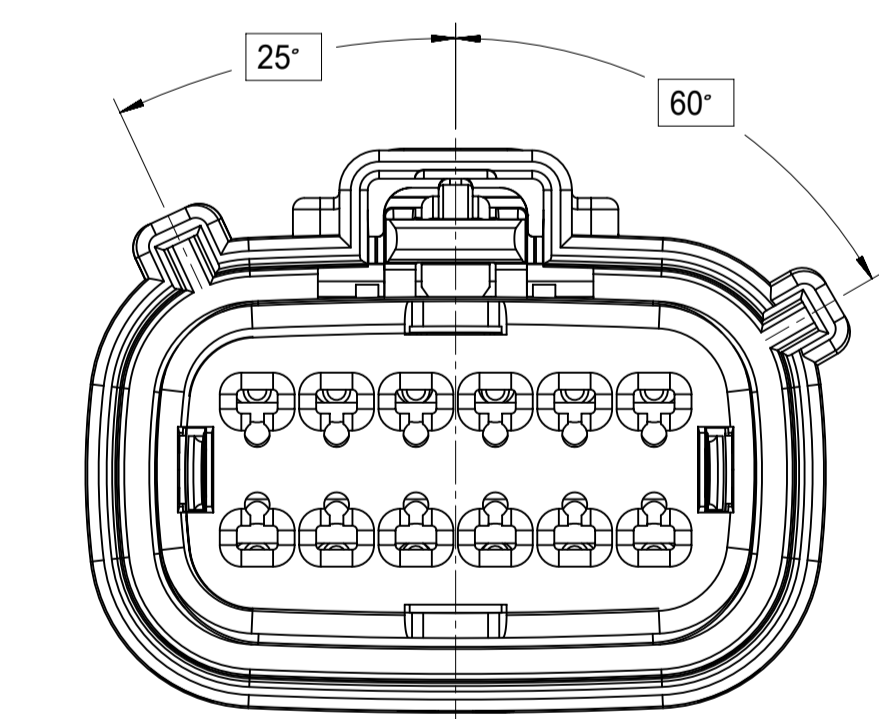
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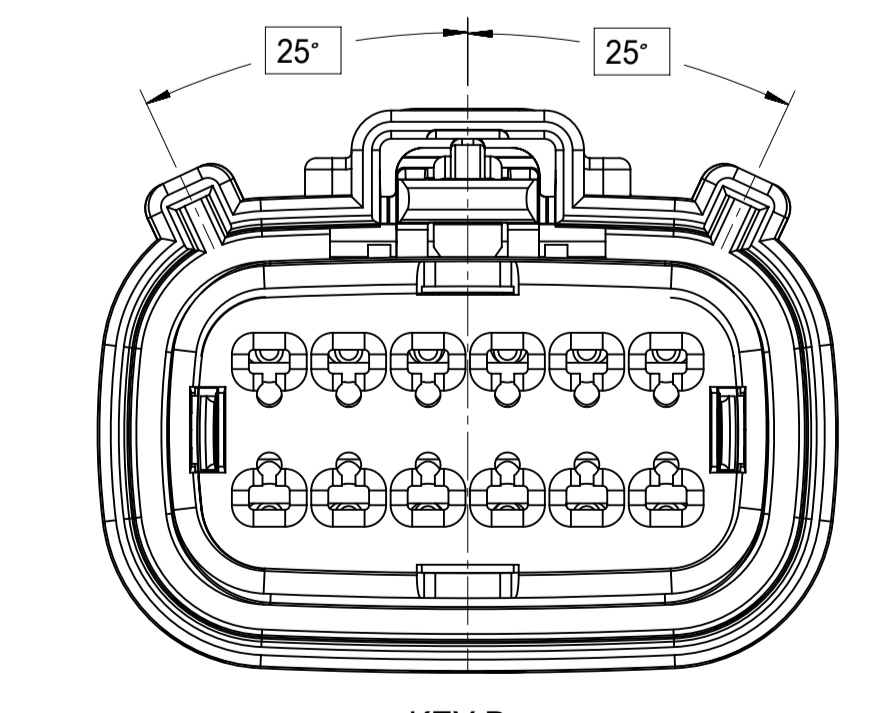
KEY A



KEY B

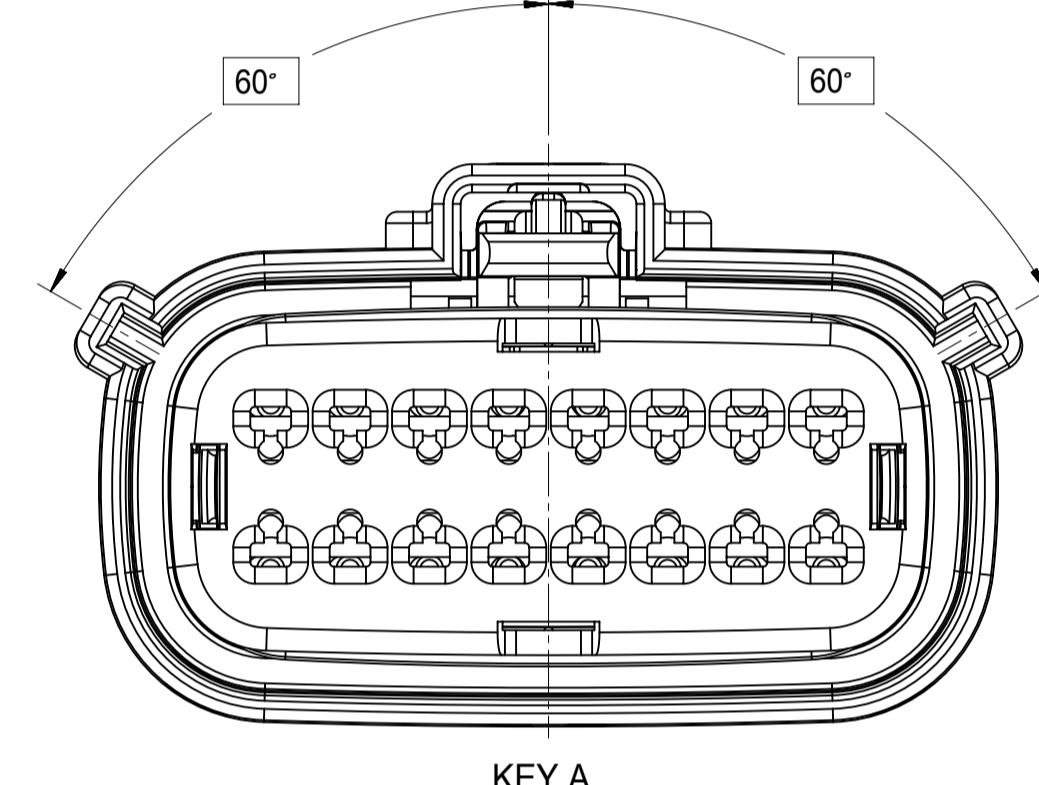


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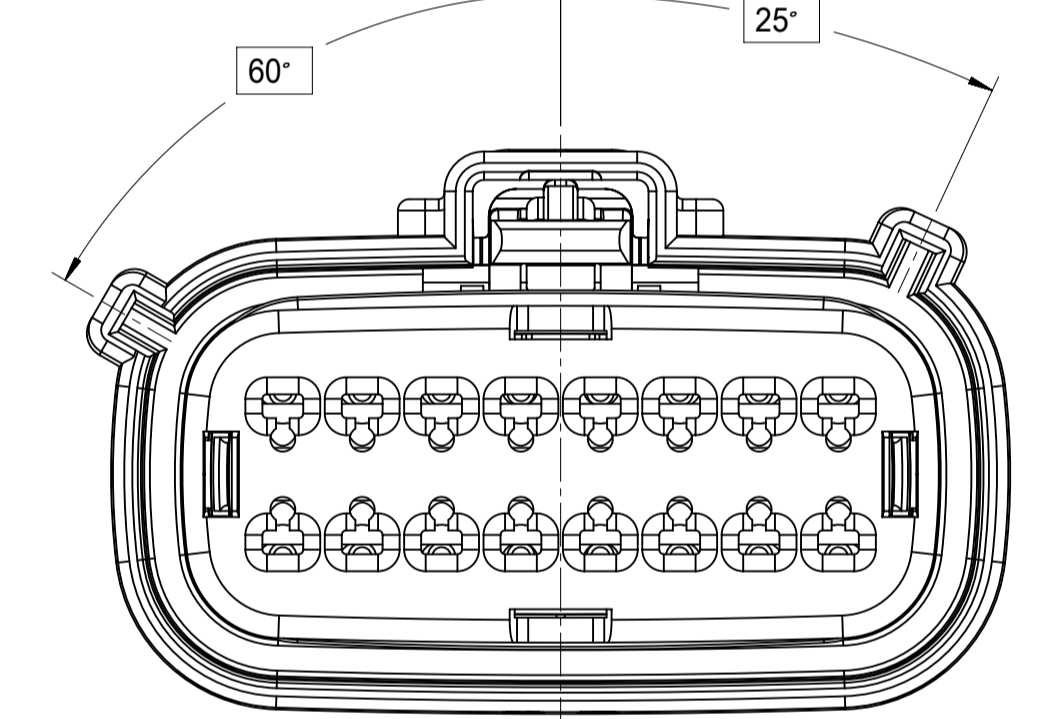


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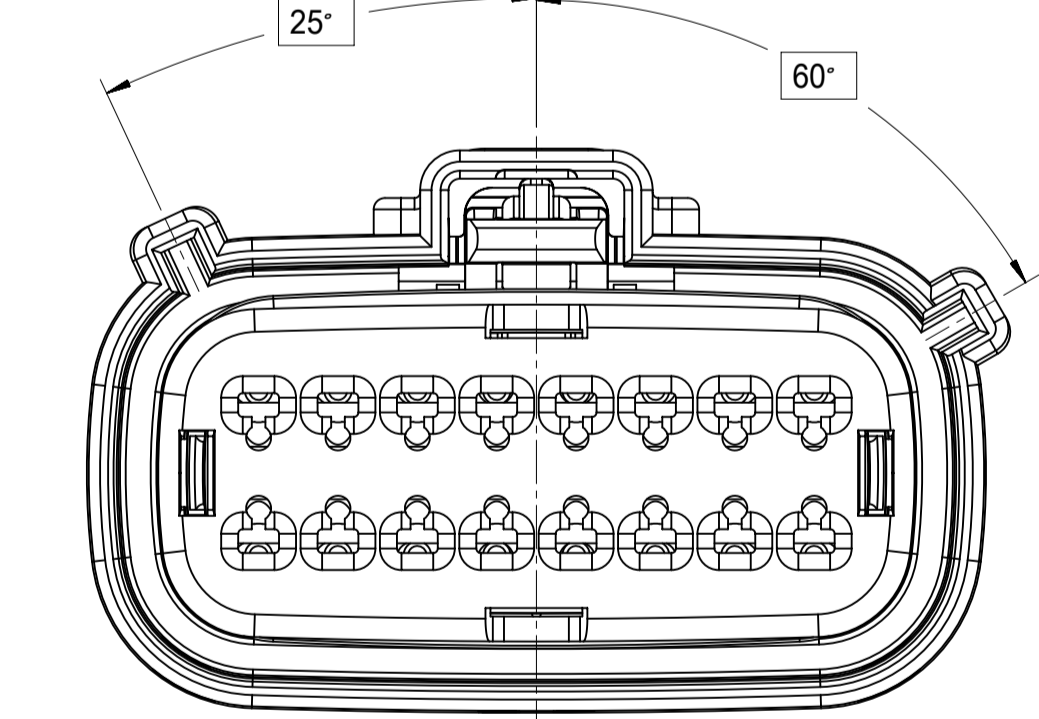
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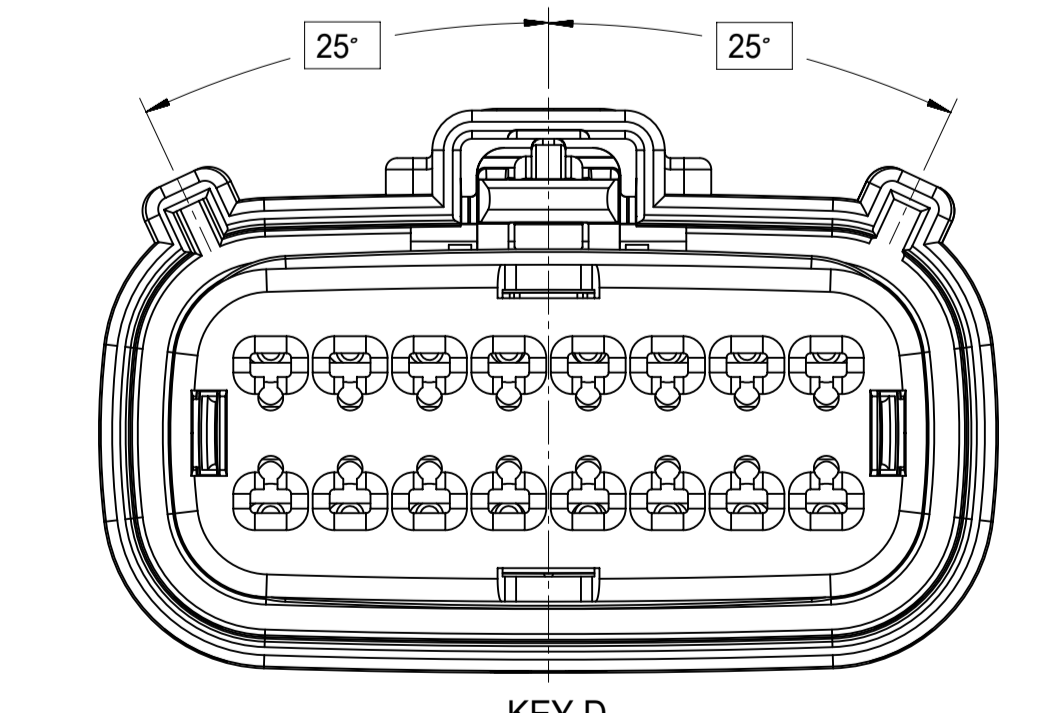
KEY A



KEY B

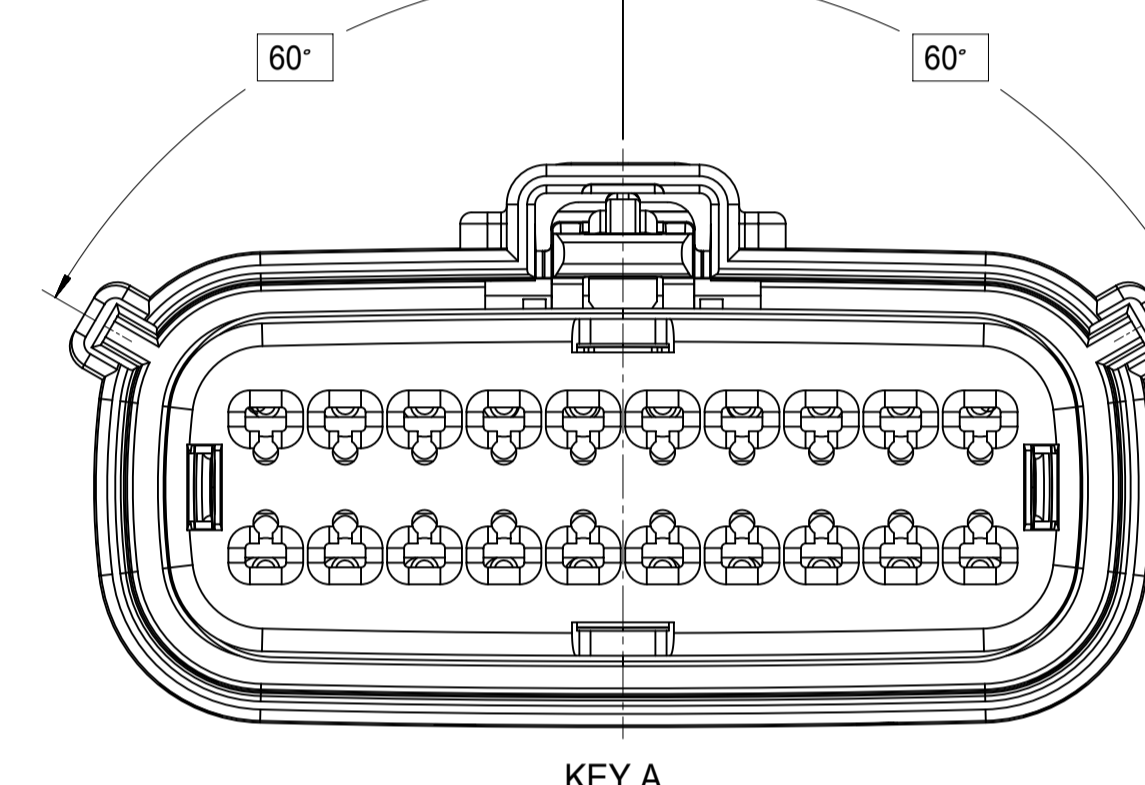


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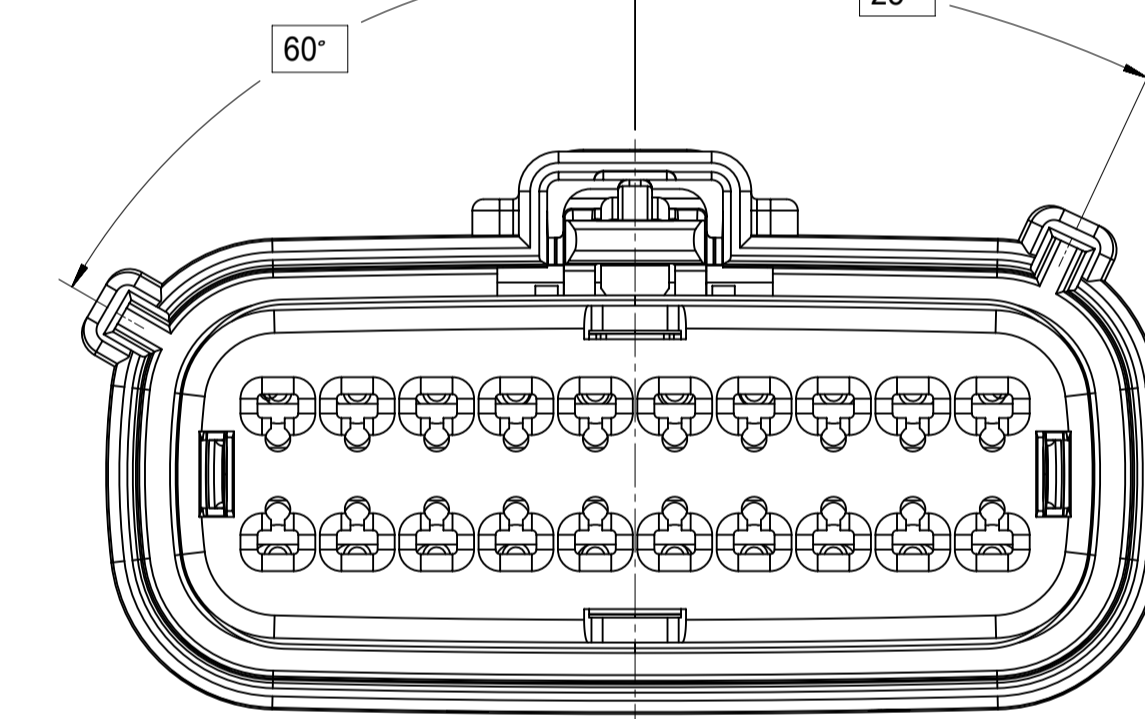


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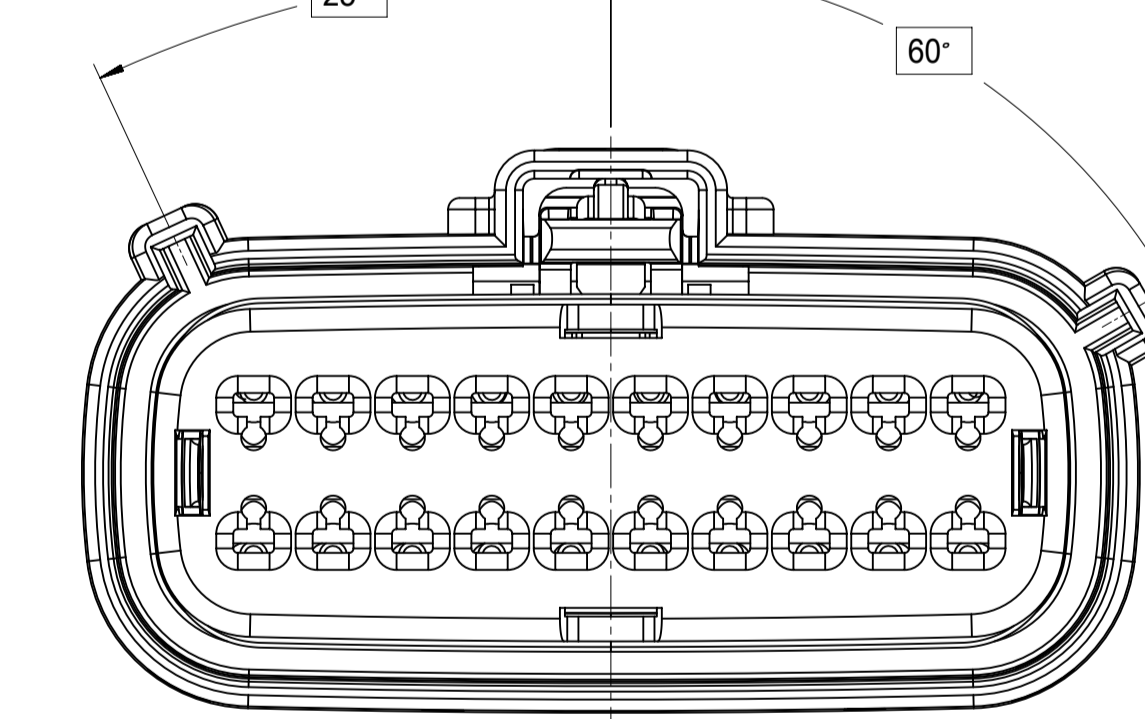
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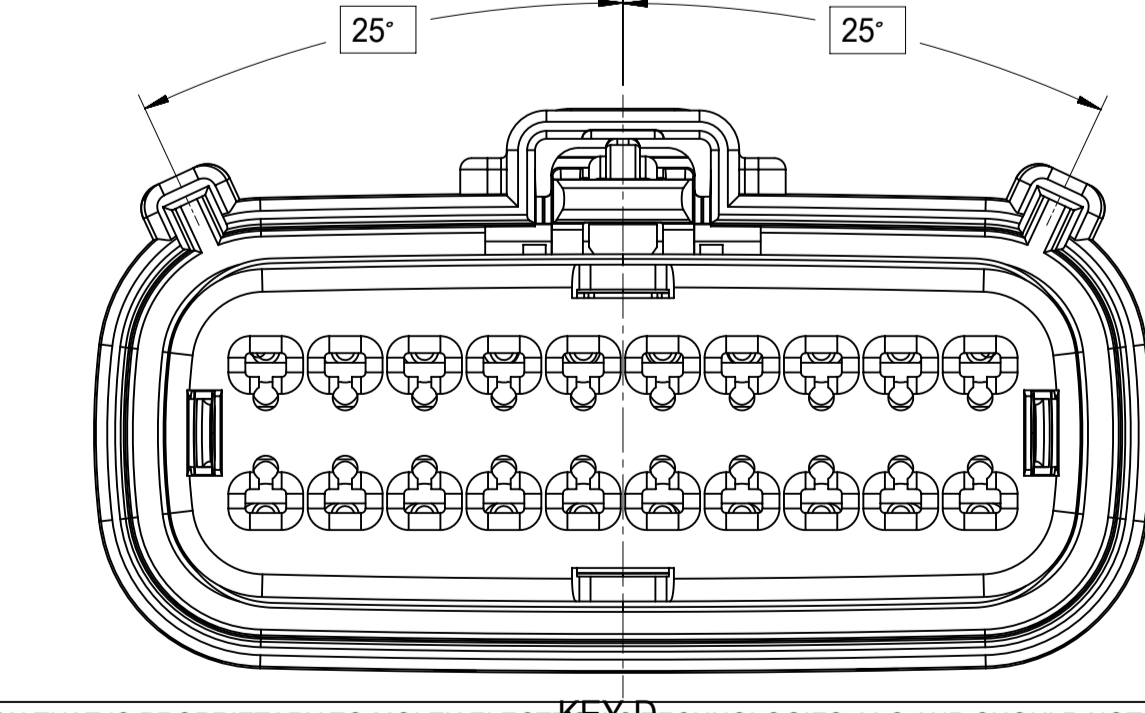
KEY A



KEY B



KEY C

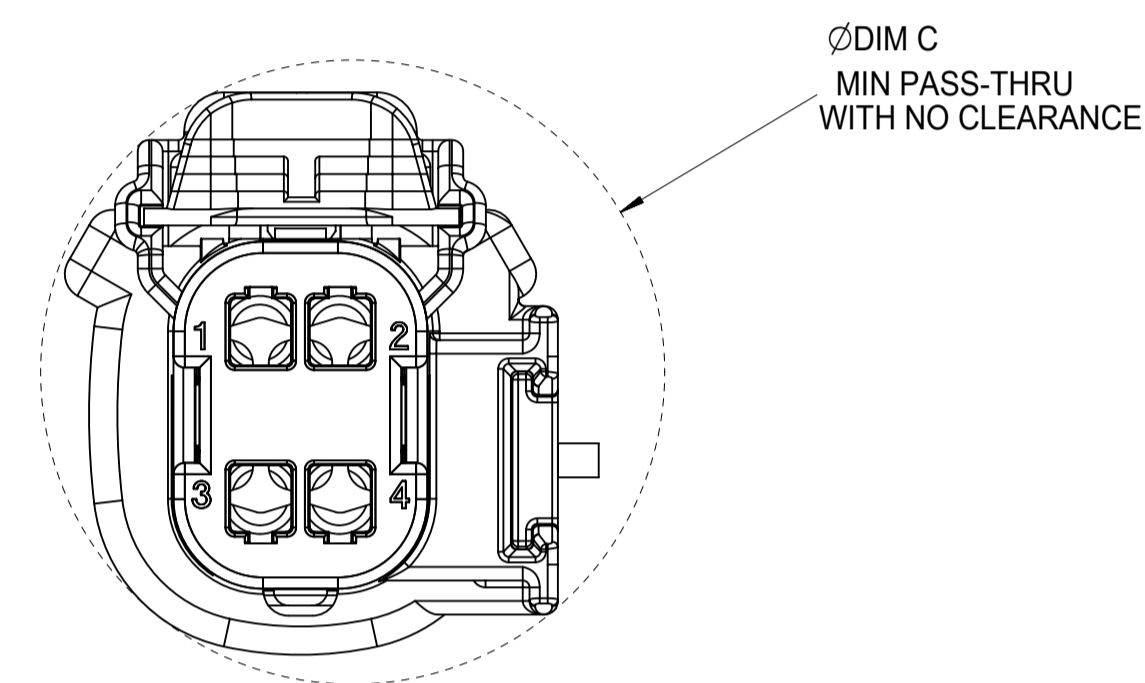
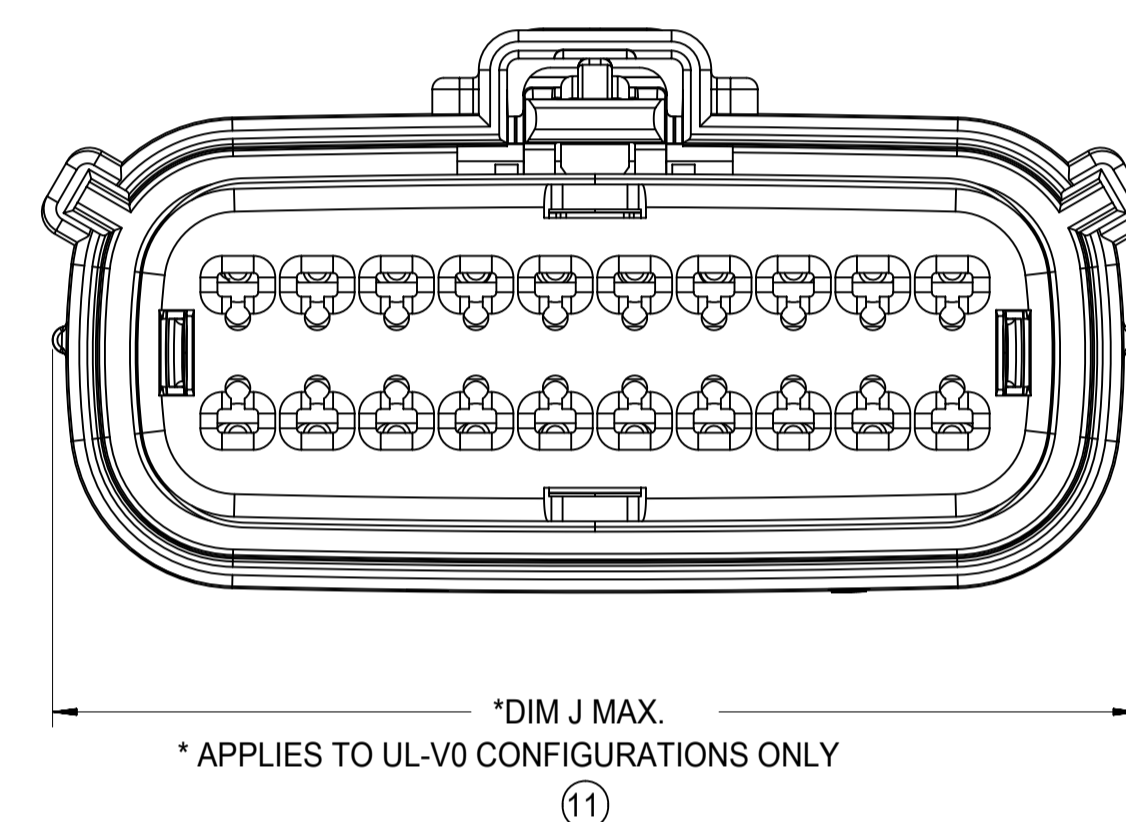


KEY D

<p>SYMBOLS</p> <p>▽ = 0 ▽ = 0 ▽ = 0 ▽ = 0 ▽ = 0 ▽ = 0 ▽ = 0 ▽ = 0 ▽ = 0 ▽ = 0</p>		<p>THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX ELECTRONIC TECHNOLOGIES, LLC AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION</p> <p>GENERAL TOLERANCES (UNLESS SPECIFIED)</p> <p>ANGULAR TOL ± 1.0°</p> <p>4 PLACES ±</p> <p>3 PLACES ±</p> <p>2 PLACES ± 0.1</p> <p>1 PLACE ± 0.2</p> <p>0 PLACES ±</p> <p>DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS</p>	<p>SCALE: 1:1</p> <p>mm</p> <p>THIRD ANGLE PROJECTION</p>	<p>CURRENT REV DESC:</p> <p>EC NO: 171650</p> <p>DRWN: DDEB 2018/01/19</p> <p>CHK'D: MVANSLAMBROU 2018/02/16</p> <p>APPR: MVANSLAMBROU 2018/02/16</p> <p>INITIAL REVISION:</p> <p>DRWN: APROFFITT 2014/05/14</p> <p>APPR: VKOSHY 2014/06/27</p>	<p>molex</p> <p>MX150 RCPT DUAL ROW SEALED ASSEMBLY MAT SEAL</p> <p>PRODUCT CUSTOMER DRAWING</p>	<p>DOCUMENT NUMBER: SD-33472-0001</p> <p>DOC TYPE: PSD</p> <p>DOC PART: 001</p> <p>REVISION: C2</p>	<p>DRAWING: A1-SIZE</p> <p>SERIES: 33472</p> <p>MATERIAL NUMBER: GENERAL MARKET</p> <p>CUSTOMER: GENERAL MARKET</p> <p>SHEET NUMBER: 4 OF 11</p>
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SHEET DESCRIPTION

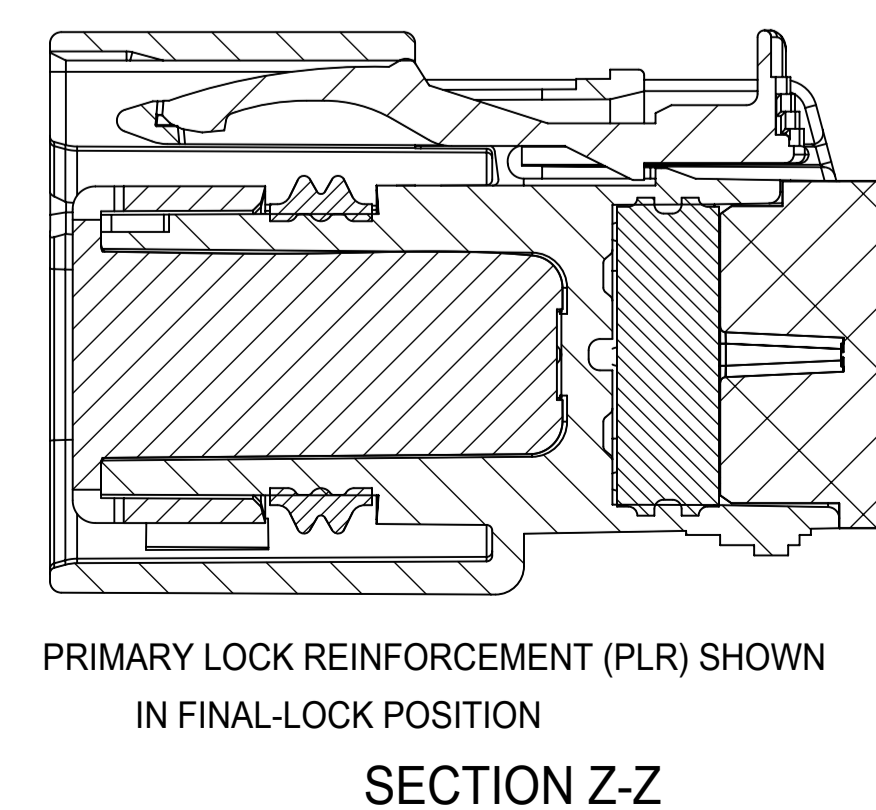
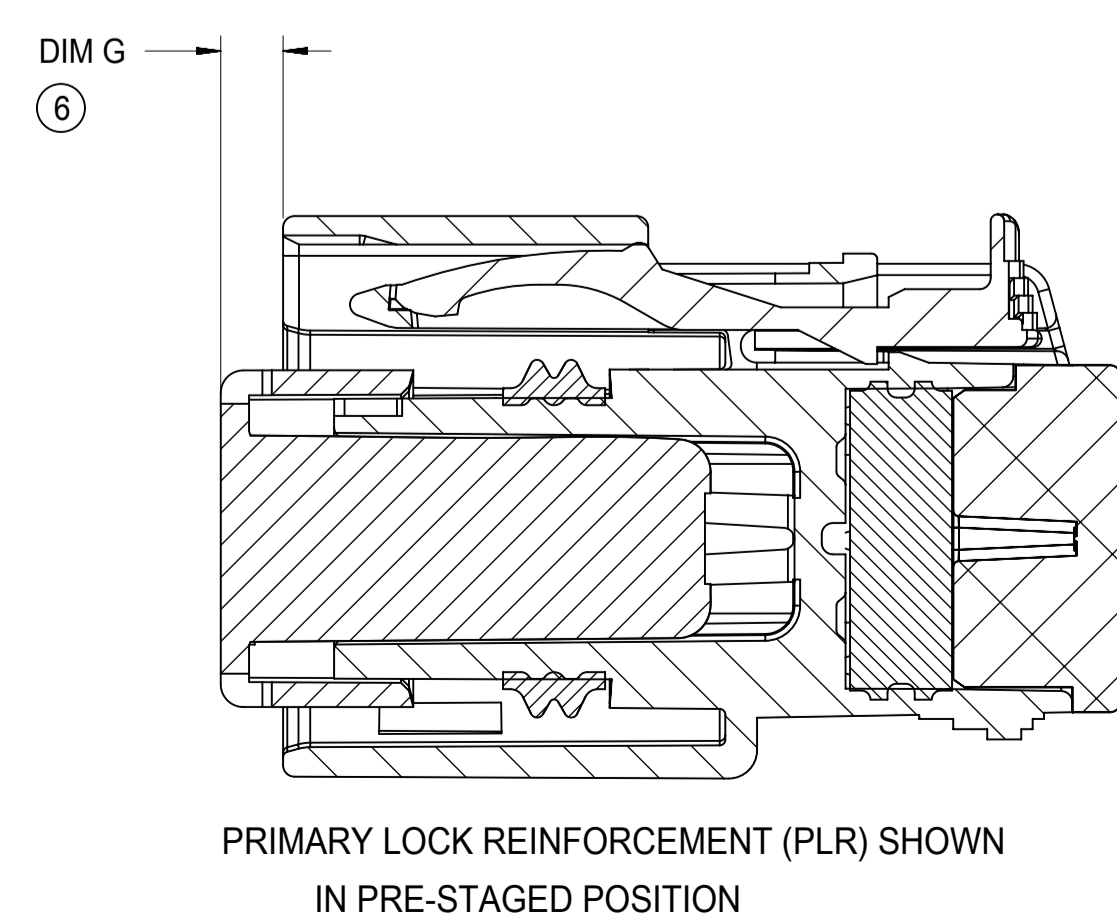
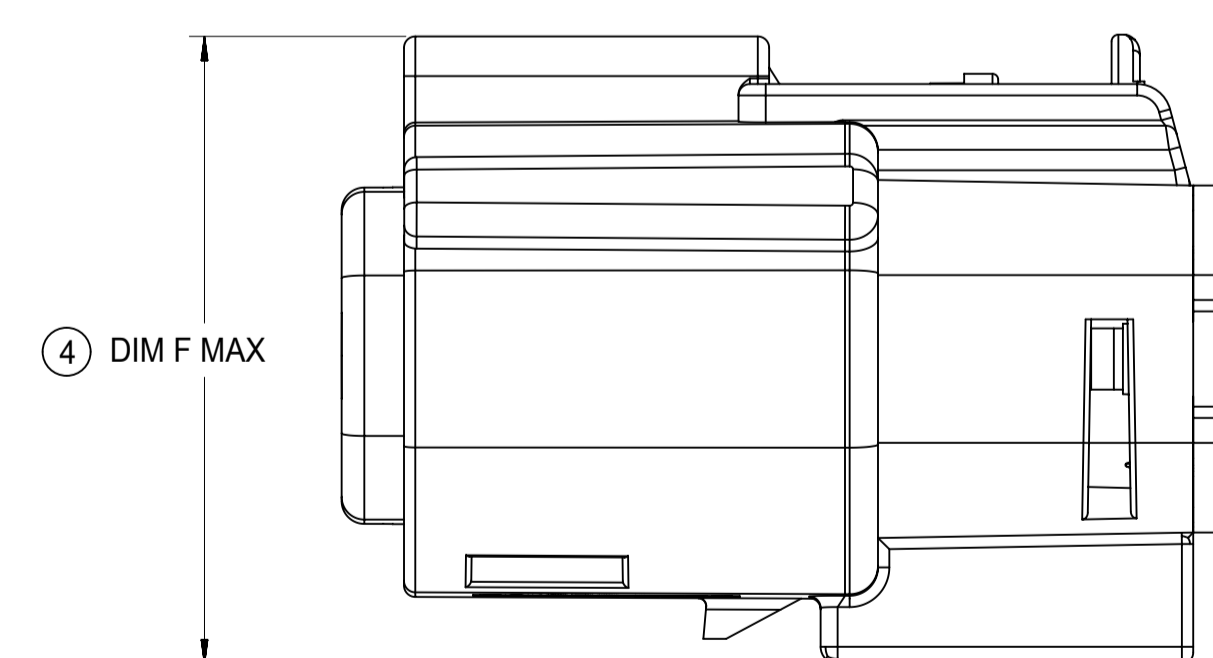
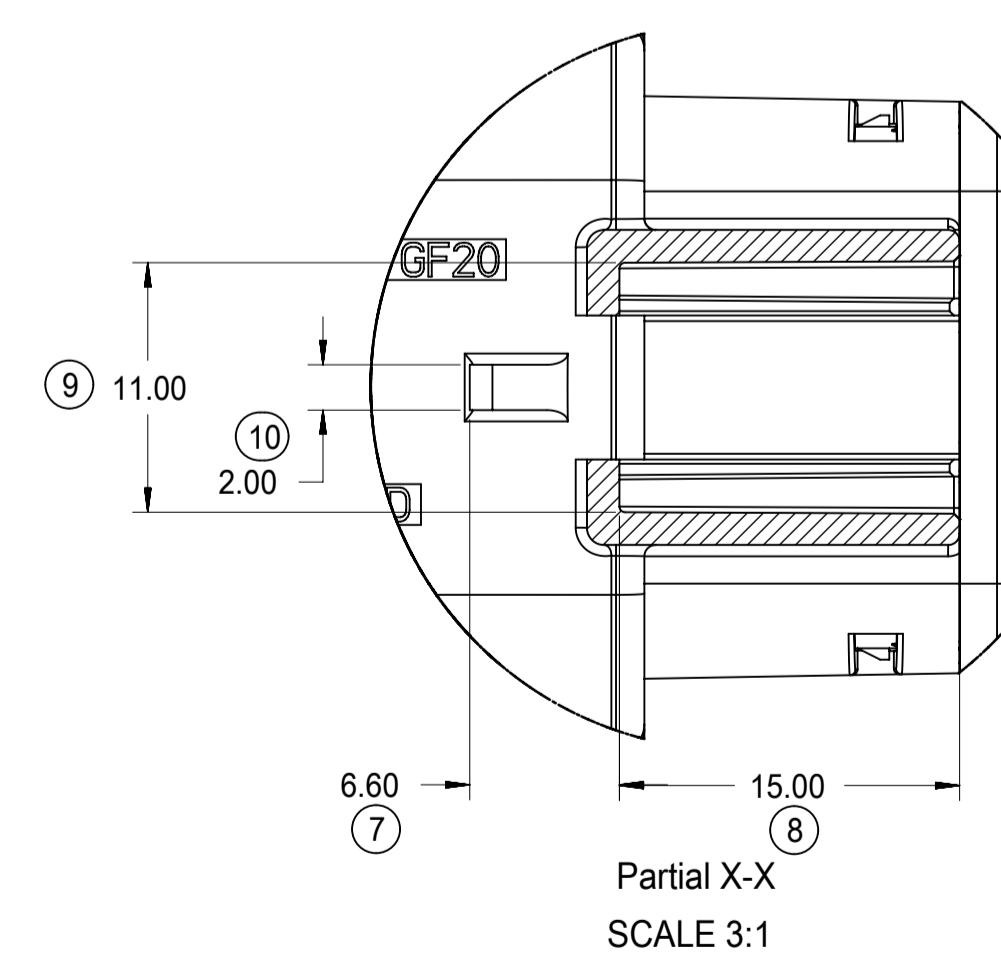
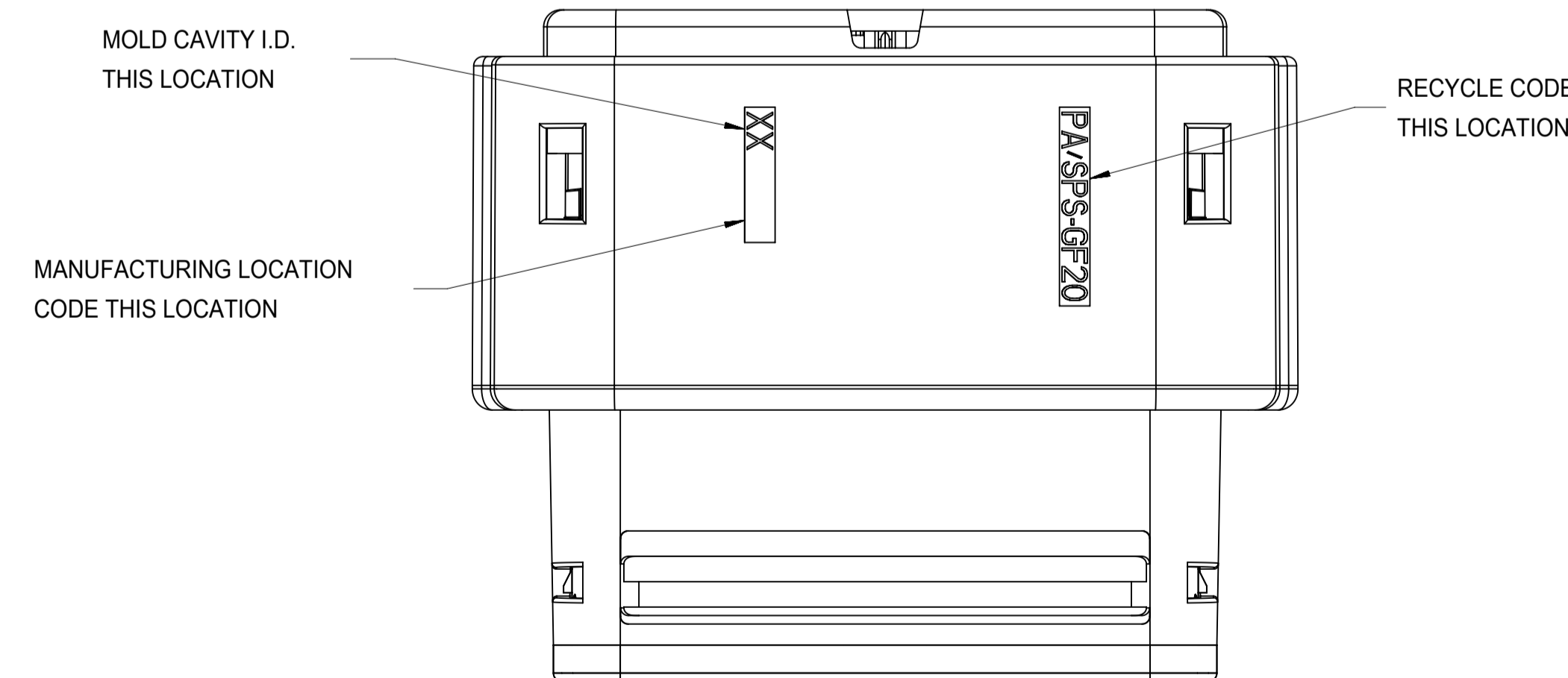
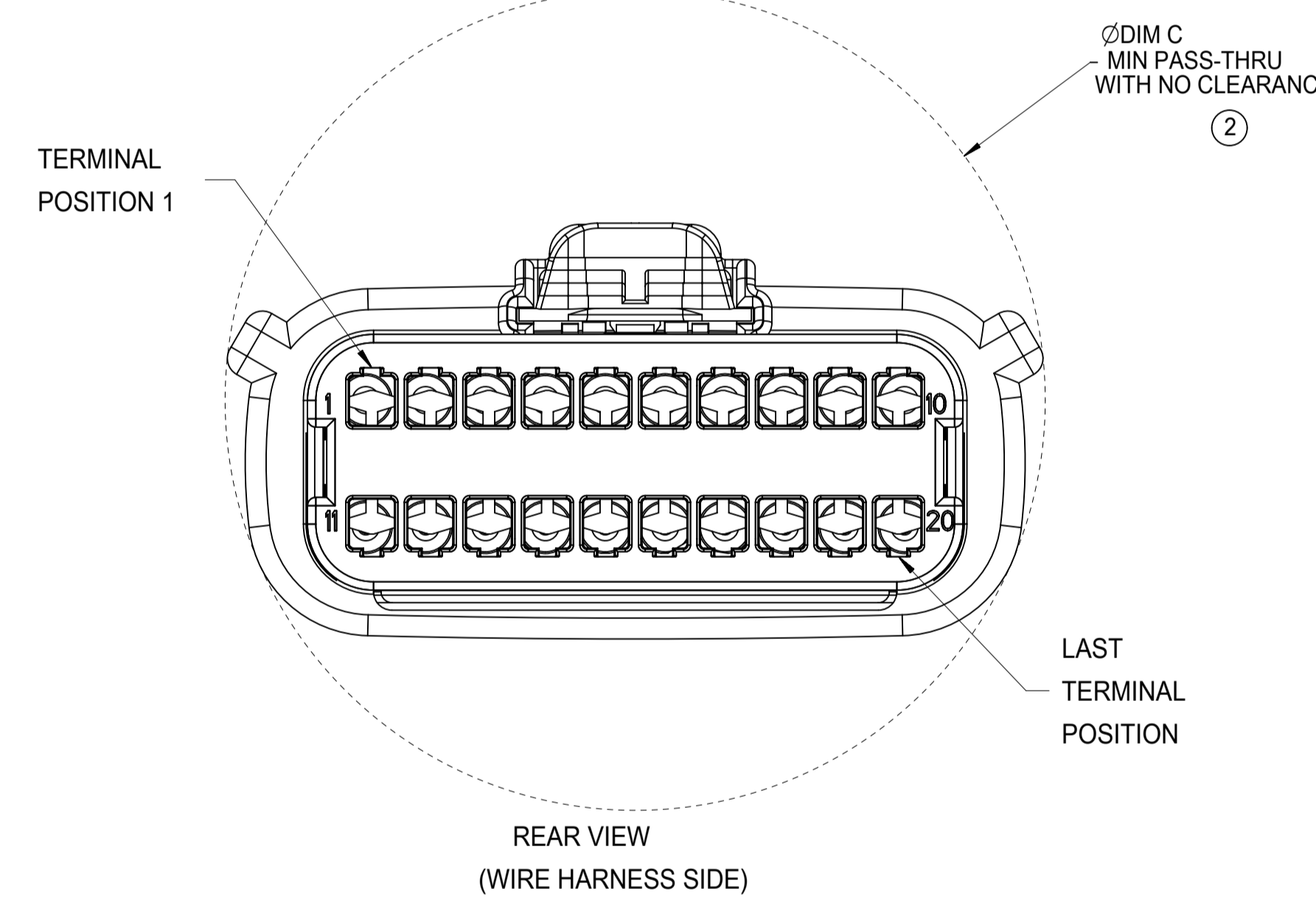
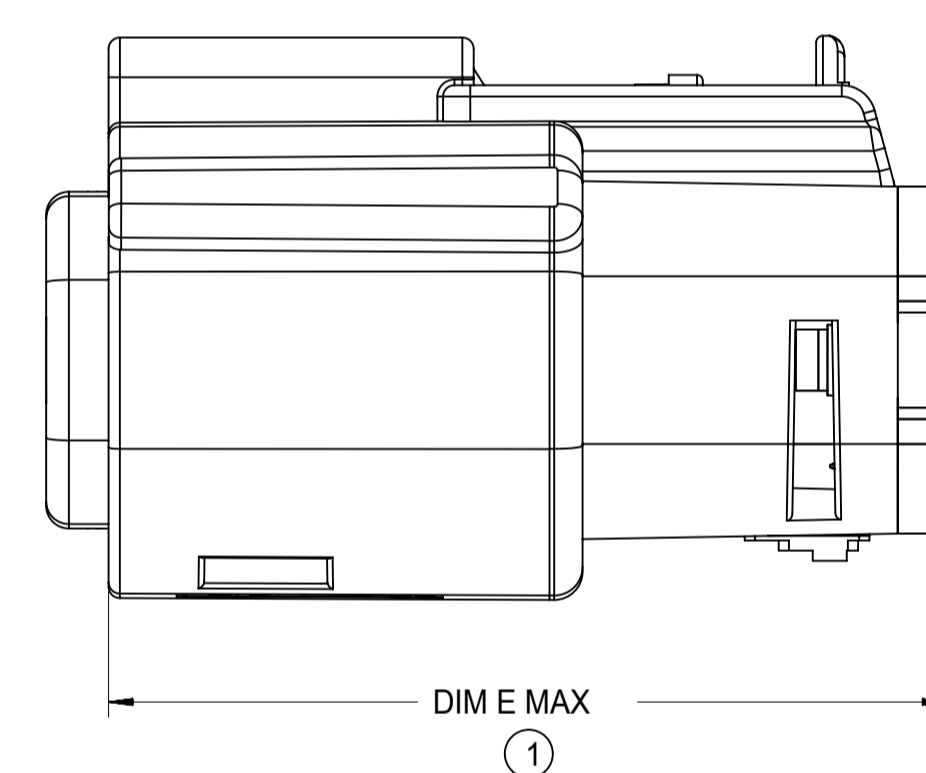
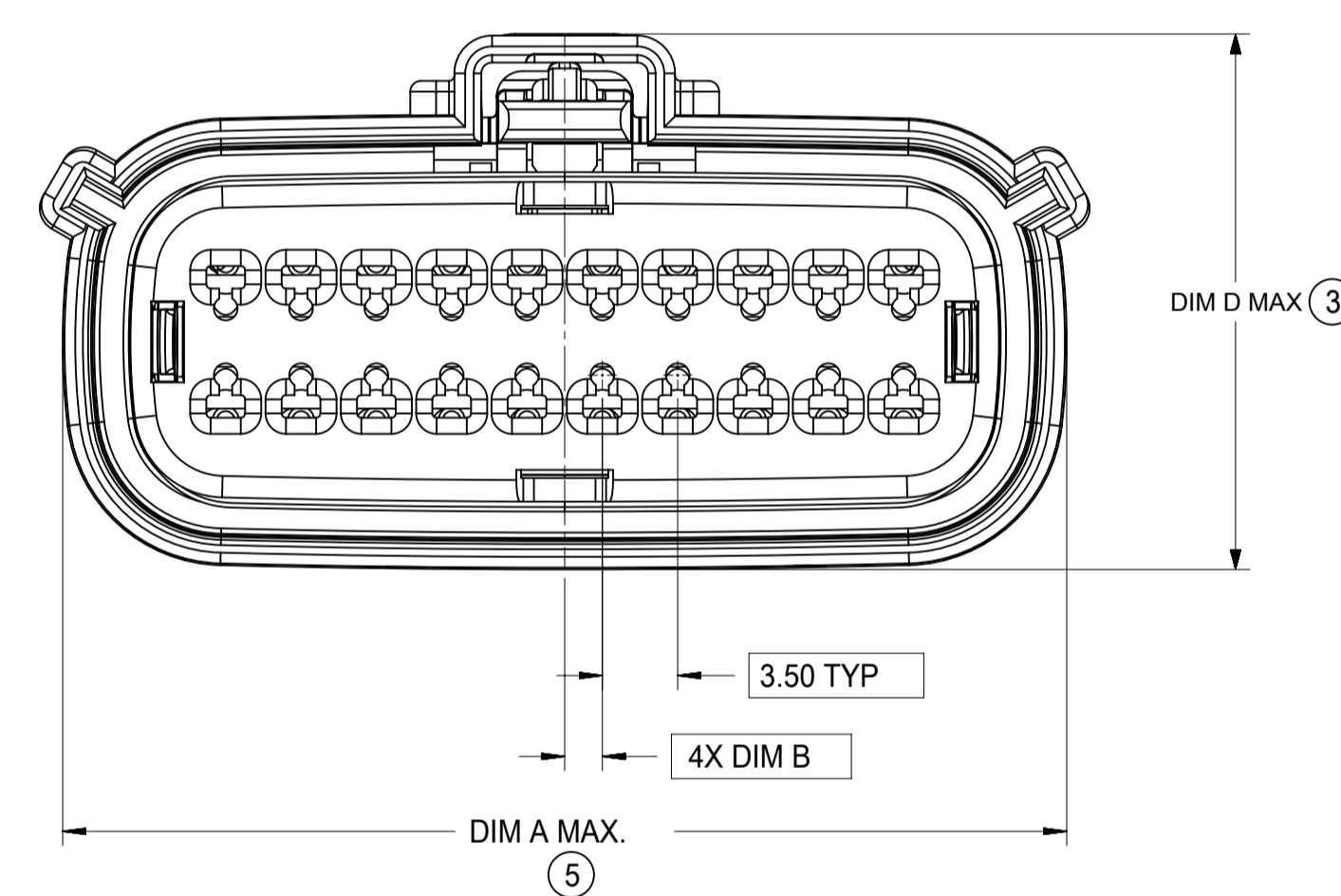
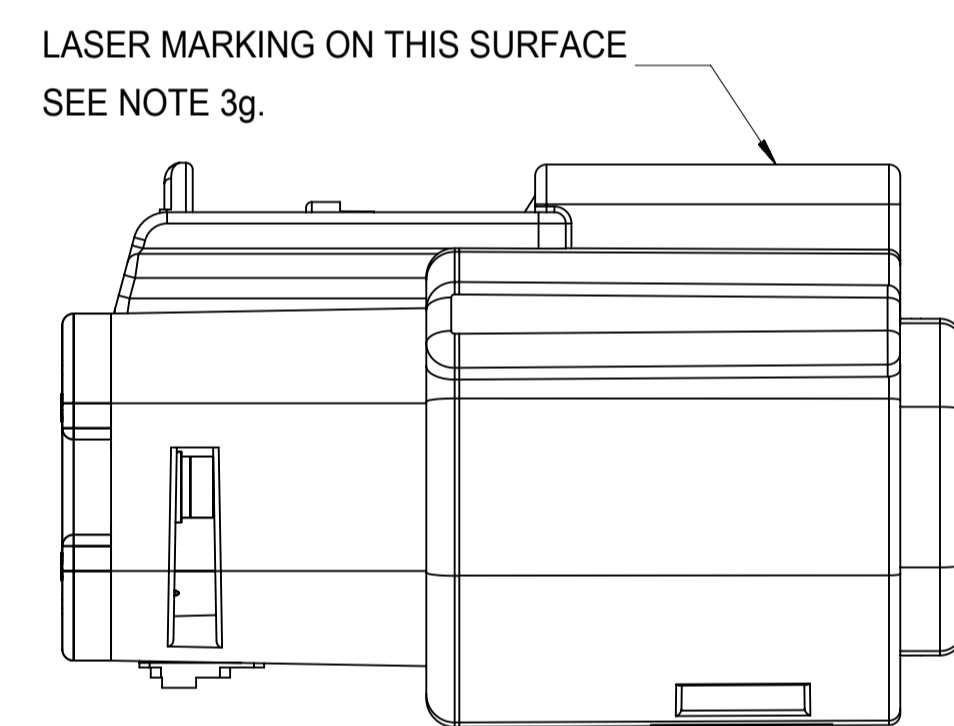
RECEPTACLE CONNECTOR ASSEMBLY



CHARTED DIMENSIONS

DESCRIPTION	DIMENSIONS							
	A	B	C	D	E	F	G	J
2X2 W/O CLIPSLOT	18.58	1.75	25.45	24.81	37.65	N/A	2.75±0.50	
2X2 W/ CLIPSLOT	18.58	1.75	27.65	24.81	37.65	N/A	2.75±0.50	
2X2 LENGTHENED	18.58	1.75	25.45	24.81	42.25	N/A	2.75±0.50	20.04
2X3 W/ CLIPSLOT	22.25	3.5	30.50	N/A	37.65	27.96	4.0±0.4	
2X3 W/O CLIPSLOT	22.25	3.5	26.24	24.90	37.65	N/A	4.0±0.4	
2X4 W/ CLIPSLOT	25.75	1.75	31.50	N/A	37.65	28.00	2.75±0.50	27.04
2X4 W/O CLIPSLOT	25.75	1.75	29.19	24.81	37.65	N/A	2.75±0.50	27.04
2X6 W/ CLIPSLOT	32.75	1.75	35.58	N/A	37.65	27.76	2.75±0.50	
2X6 W/O CLIPSLOT	32.75	1.75	35.58	24.90	37.65	N/A	2.75±0.50	32.95
2X6 W/O CLIPSLOT V0	32.75	1.75	35.58	25.0	37.65	N/A	2.75±0.50	33.85
2X8 W/O CLIPSLOT	39.80	1.75	42.25	24.90	37.65	N/A	4.0±0.4	
2X8 W/ CLIPSLOT	39.80	1.75	42.25	N/A	37.65	27.80	4.0±0.4	
2X10 W/O CLIPSLOT	46.75	1.75	49.95	24.90	37.65	N/A	2.75±0.50	48.04
2X10 W/ CLIPSLOT	46.75	1.75	49.95	N/A	37.65	27.80	2.75±0.50	

B APPLIES TO 2X2 - STD. - WITH CLIPSLOT ONLY



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

▽ = 0	mm	1:1
▽ = 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	

CURRENT REV DESC:

EC NO: 171650
DRWN: DDEB 2018/01/19
CHK'D: MVANSLAMBROU 2018/02/16
APPR: MVANSLAMBROU 2018/02/16

INITIAL REVISION:
DRWN: APROFFITT 2014/05/14
APPR: VKOSHY 2014/06/27

THIRD ANGLE PROJECTION

A1-SIZE 33472

molex

MX150 RCPT
DUAL ROW SEALED ASSEMBLY MAT SEAL

PRODUCT CUSTOMER DRAWING

DOCUMENT NUMBER: SD-33472-0001
DOC TYPE: PSD
DOC PART: 001
REVISION: C2

GENERAL MARKET 5 OF 11

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

SHEET DESCRIPTION
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-33472-0001
 -SYSTEM TO BE USED WITH WIRE WITHIN DIAMETER RANGE OF 1.2mm TO 2.69mm.
 -COMPONENTS ARE OPTIONAL AND MUST BE PURCHASED SEPERATELY.
 -DESIGN IS OWNED BY SCHLEMMER FOR SCHLEMMER BACKSHELL.
 -DESIGN IS OWNED BY MOLEX FOR MOLEX BACKSHELL.
 -90° ADAPTOR DESIGN IS OWNED BY MOLEX.
 -FOR ADDITIONAL INFORMATION SEE THE BACKSHELL COMPONENT DRAWING SD-34951-0001.

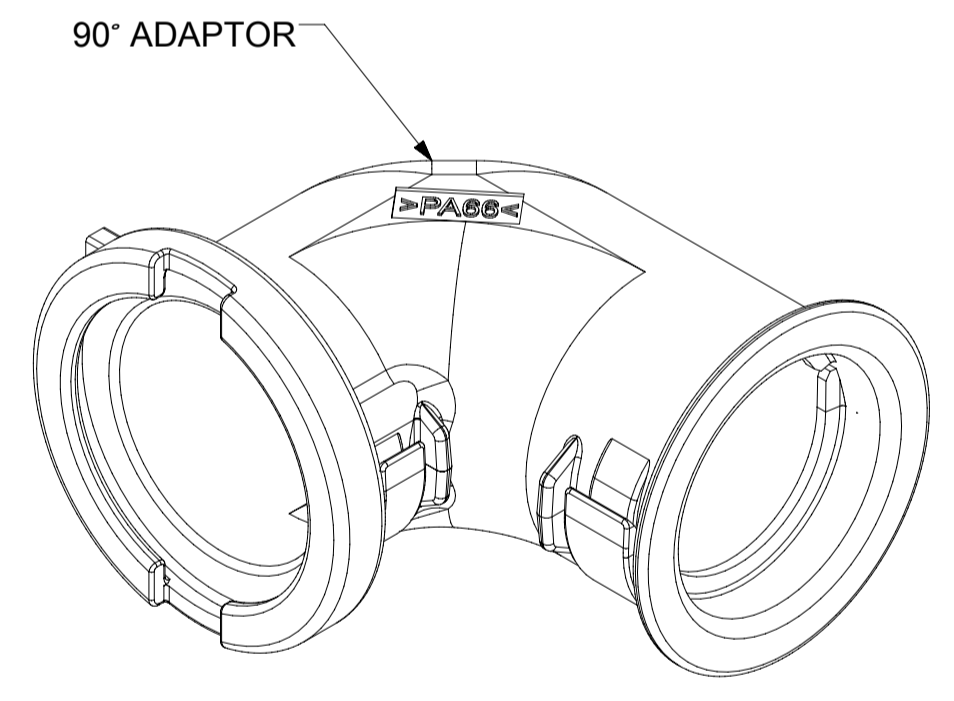
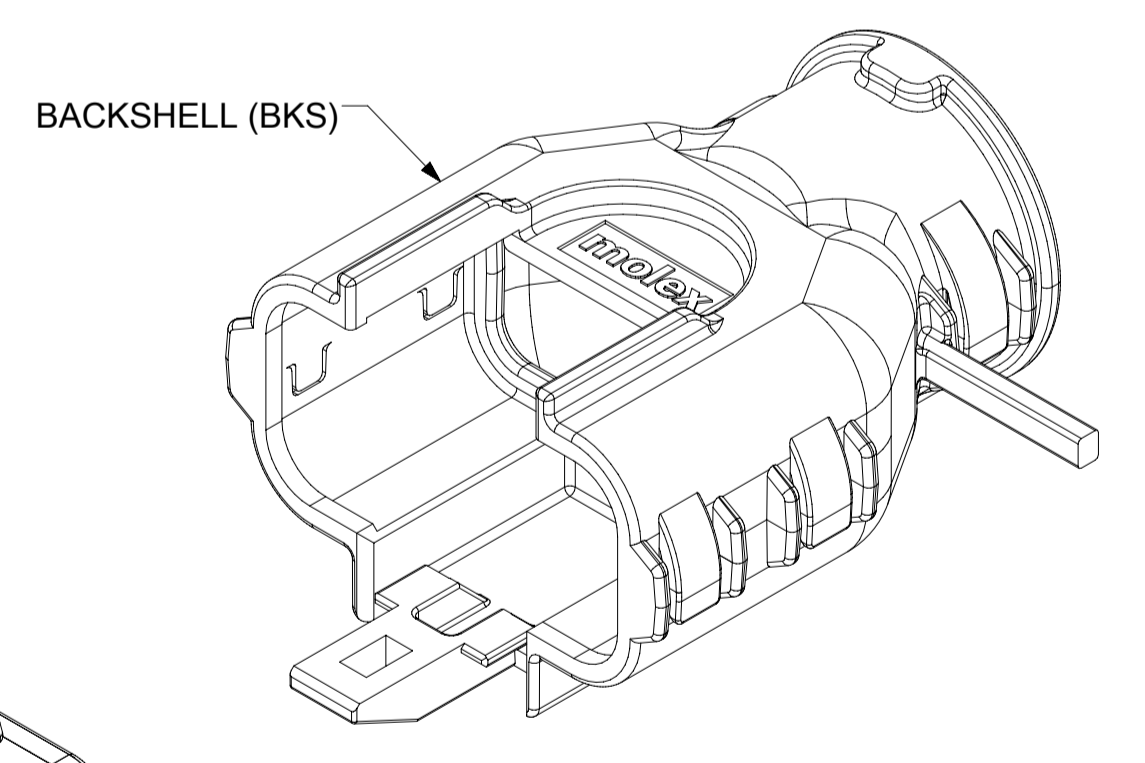
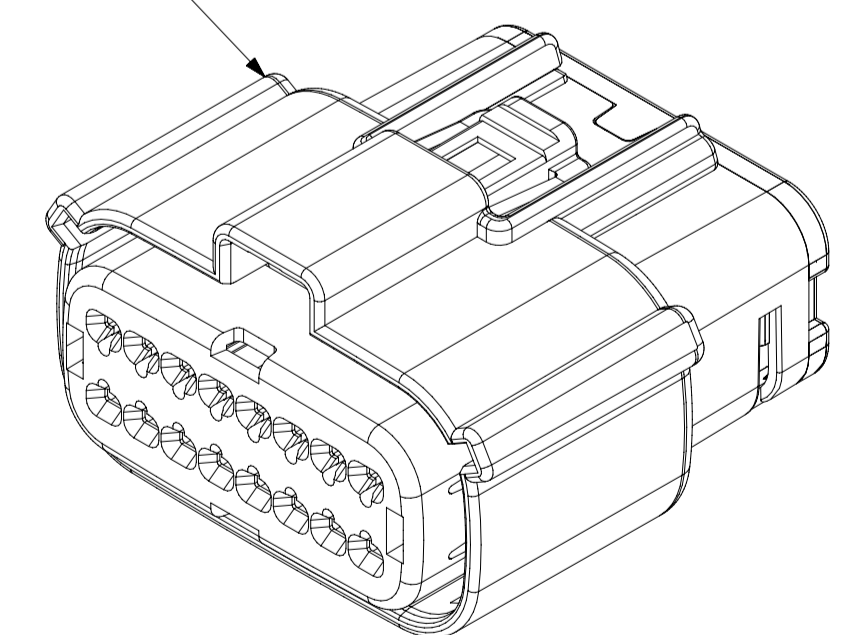
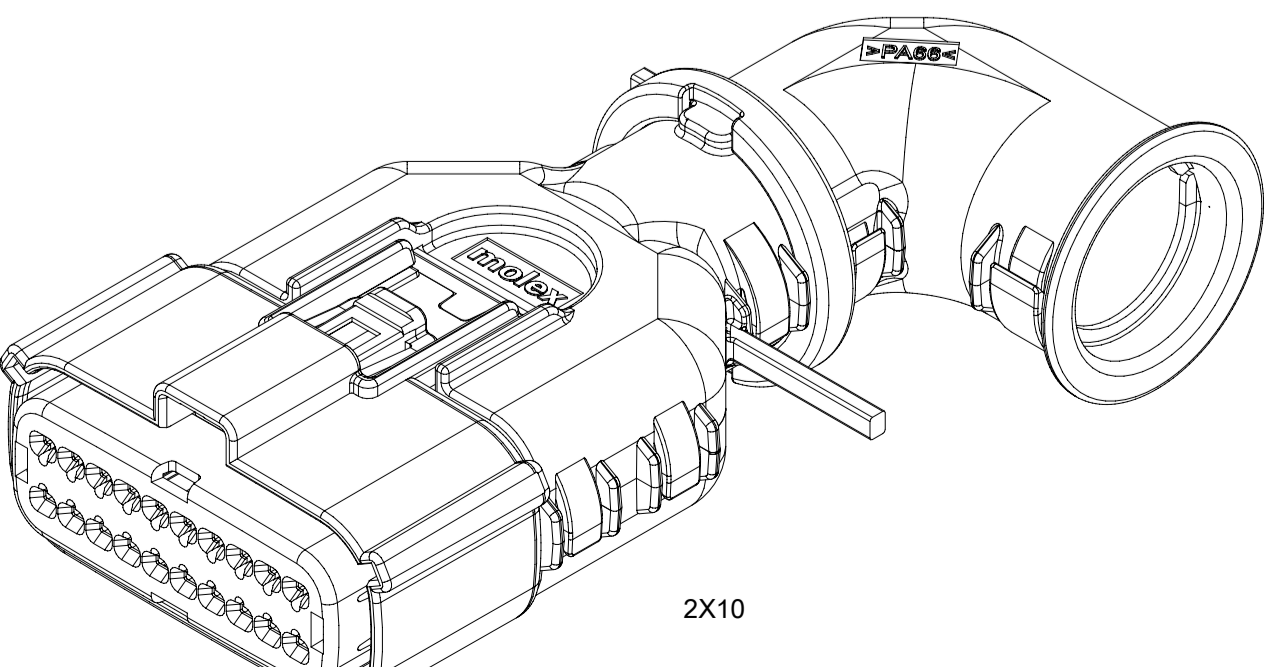
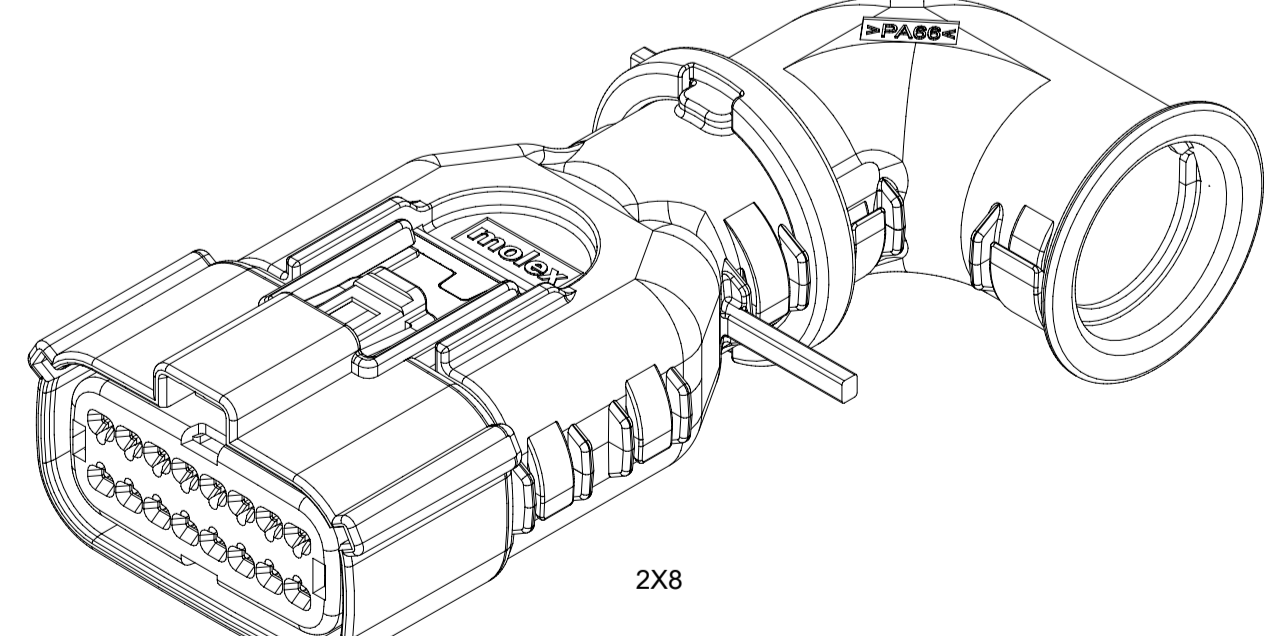
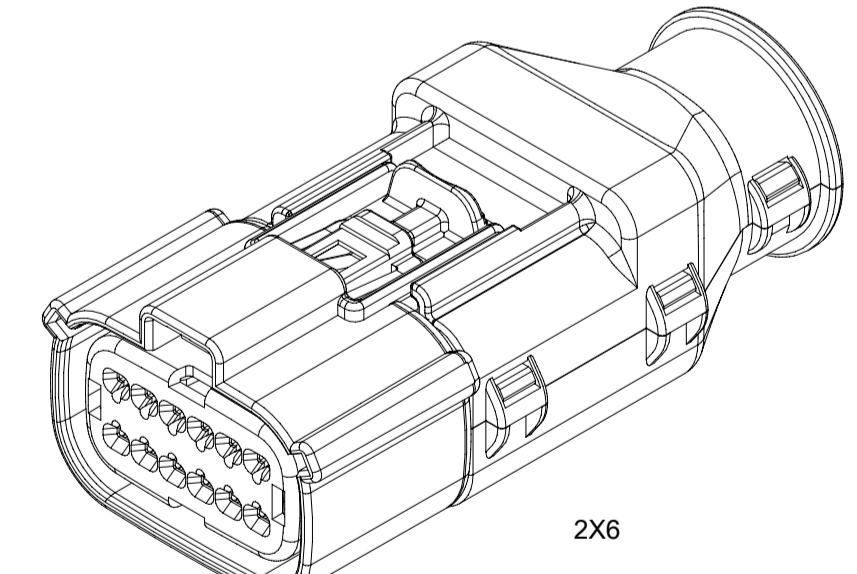
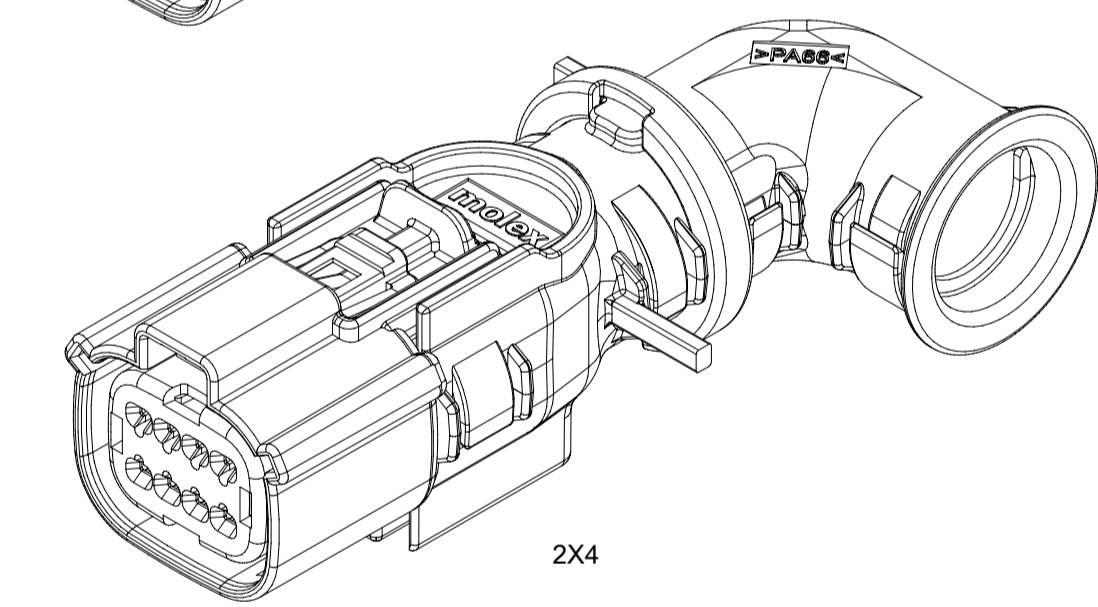
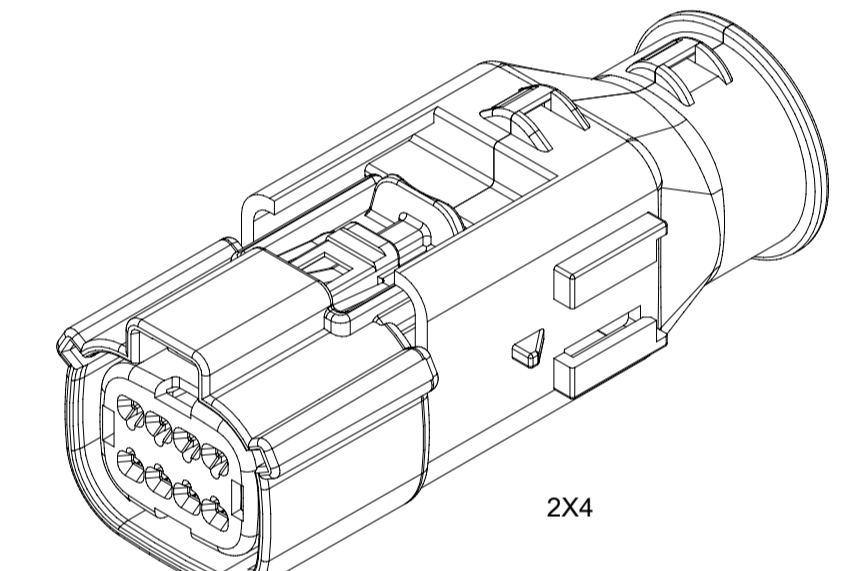
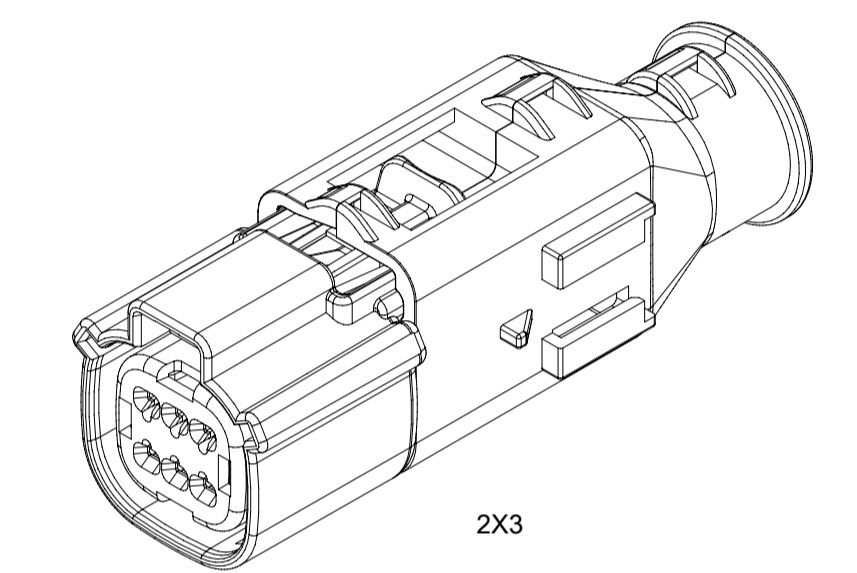
BACKSHELL CUSTOMER
MODEL NUMBER LEGEND

34951-XXXX

CUSTOMER MODEL COMPONENTS
 0 - SCHLEMMER BACKSHELL ONLY
 1 - SCHLEMMER BACKSHELL & MX150 HOUSING KEY A ASSEMBLY
 2 - SCHLEMMER BACKSHELL & MX150 HOUSING KEY B ASSEMBLY
 3 - SCHLEMMER BACKSHELL & MX150 HOUSING KEY C ASSEMBLY
 4 - SCHLEMMER BACKSHELL & MX150 HOUSING KEY D ASSEMBLY
 5 - MOLEX BACKSHELL ONLY
 6 - MOLEX BACKSHELL & MX150 HOUSING KEY A ASSEMBLY
 7 - MOLEX BACKSHELL & MX150 HOUSING KEY B ASSEMBLY
 8 - MOLEX BACKSHELL & MX150 HOUSING KEY C ASSEMBLY
 9 - MOLEX BACKSHELL & MX150 HOUSING KEY D ASSEMBLY

BACKSHELL FEATURES
 1 - WITH RIBS
 2 - WITHOUT RIBS
 3 - 90° ADAPTOR

MX150 CIRCUIT SIZE 04, 06, 08, 12, 16, 20

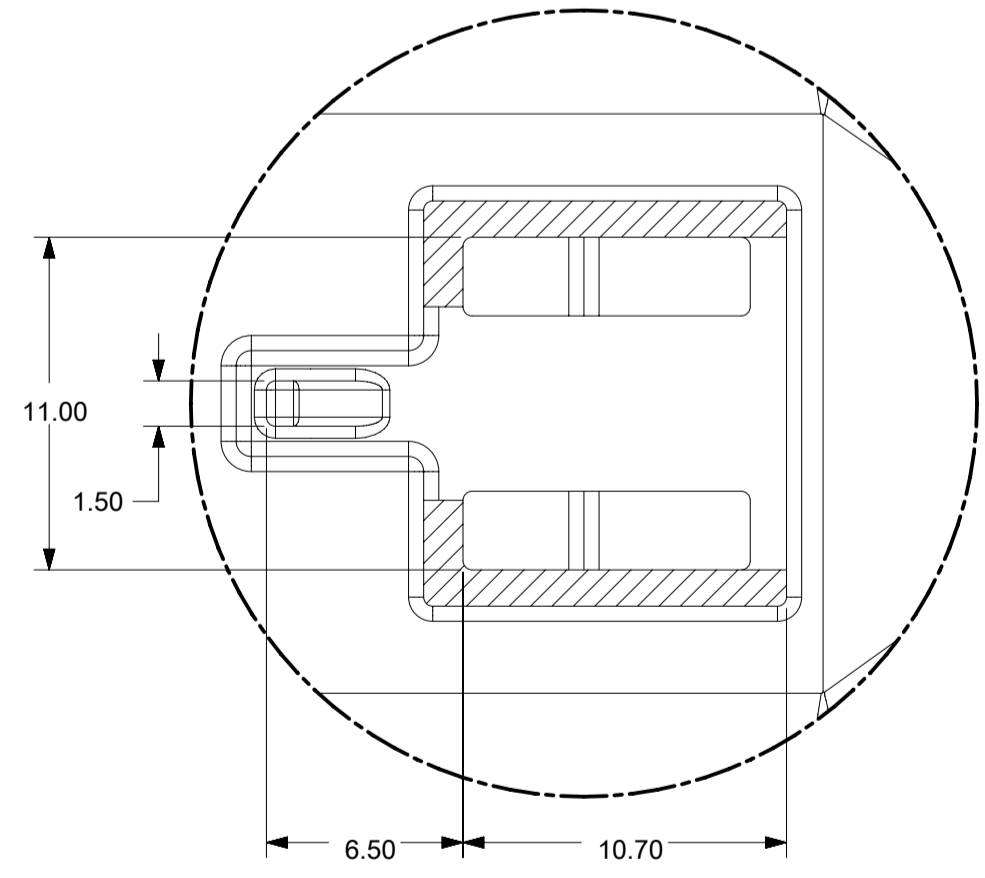
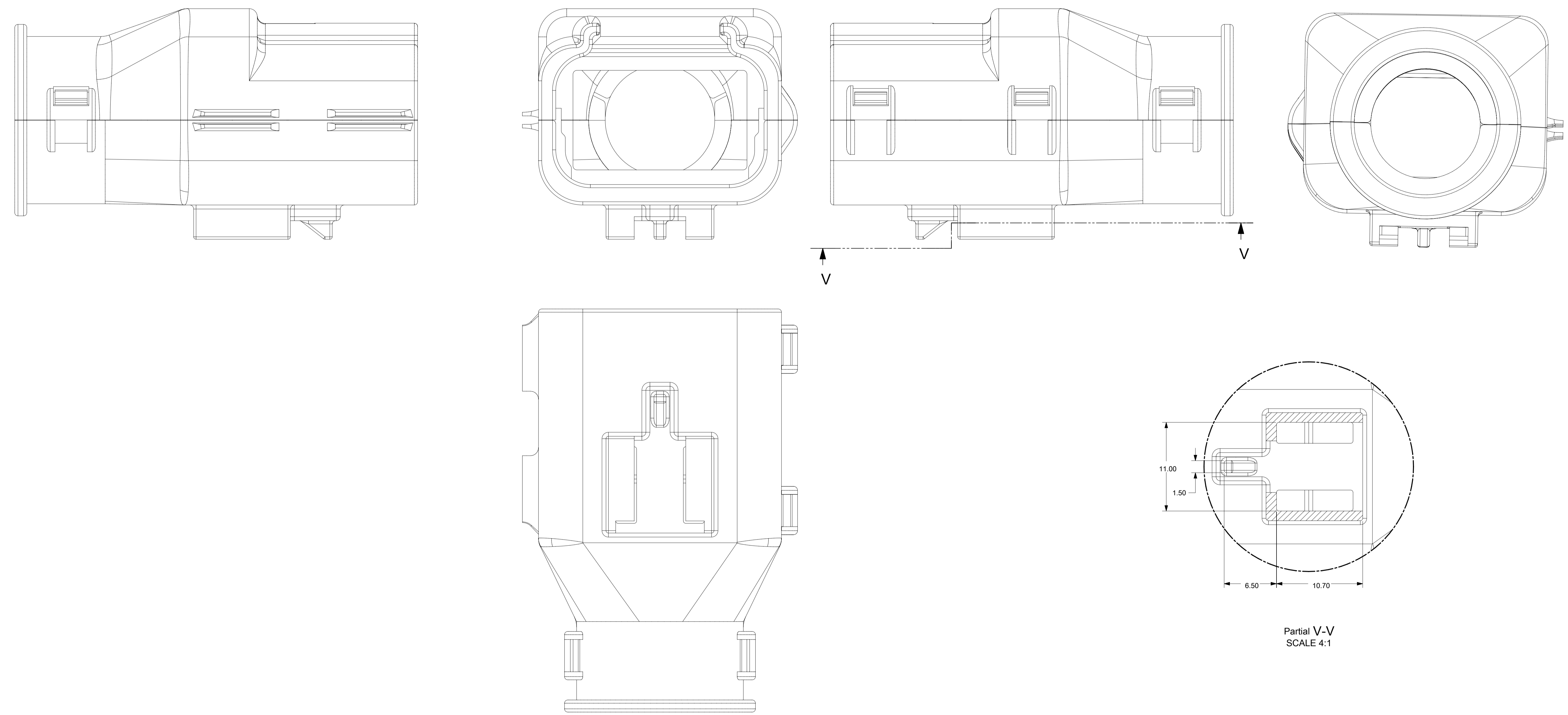


SCALE 2:1

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
▽ = 0	0 PLACES	±	
■ = 0	DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		
THIRD ANGLE PROJECTION	DRAWING	SERIES	A1-SIZE
3	5	4	33472
CURRENT REV DESC:		molex	
EC NO: 171650		MX150 RCPT	
DRWN: DDEB		DUAL ROW SEALED ASSEMBLY MAT SEAL	
CHK'D: MVANSLAMBROU		2018/01/19	
APPR: MVANSLAMBROU		2018/02/16	
INITIAL REVISION:		PRODUCT CUSTOMER DRAWING	
DRWN: APROFFITT		DOCUMENT NUMBER	
APPR: VKOSHY		SD-33472-0001	
2014/05/14		DOC TYPE	
2014/06/27		PSD	
MATERIAL NUMBER		CUSTOMER	
GENERAL MARKET		001	
SHEET NUMBER		C2	
6 OF 11		1	

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

SHEET DESCRIPTION
SCHLEMMER BACKSHELL



Partial V-V
SCALE 4:1

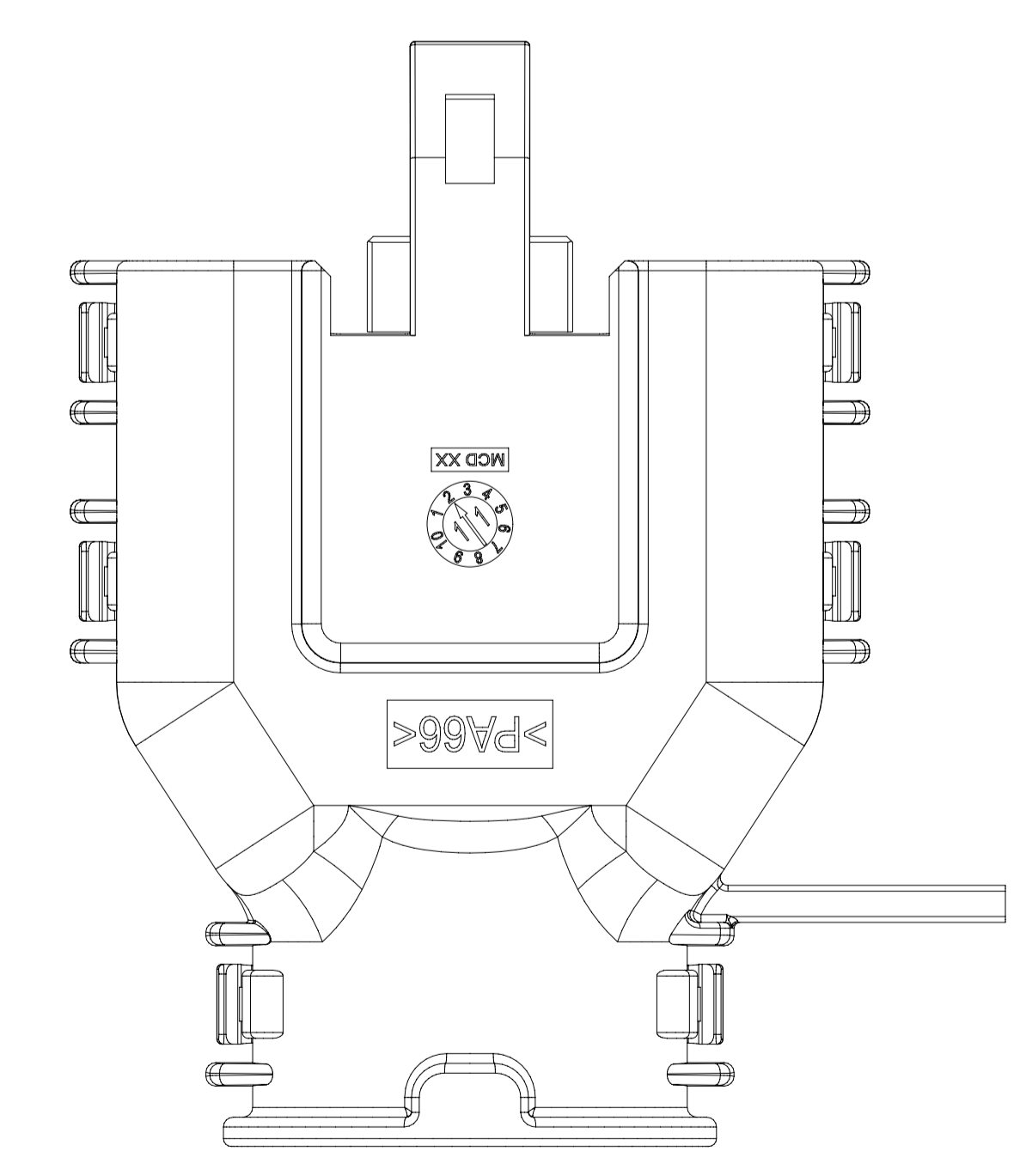
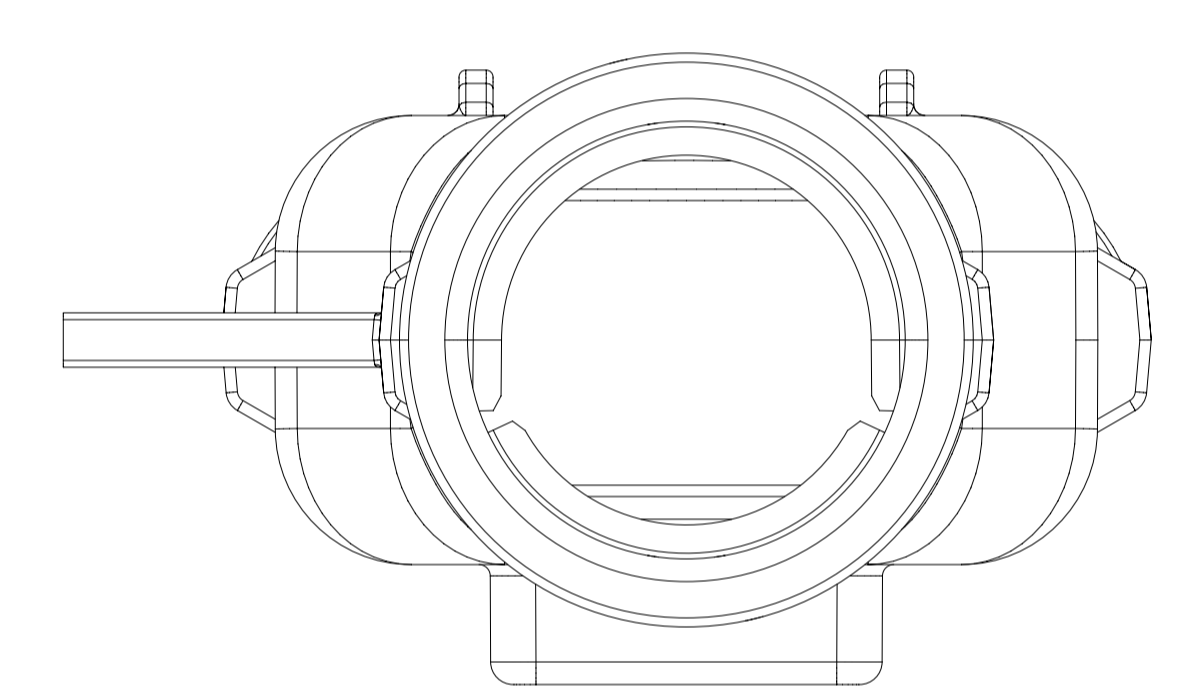
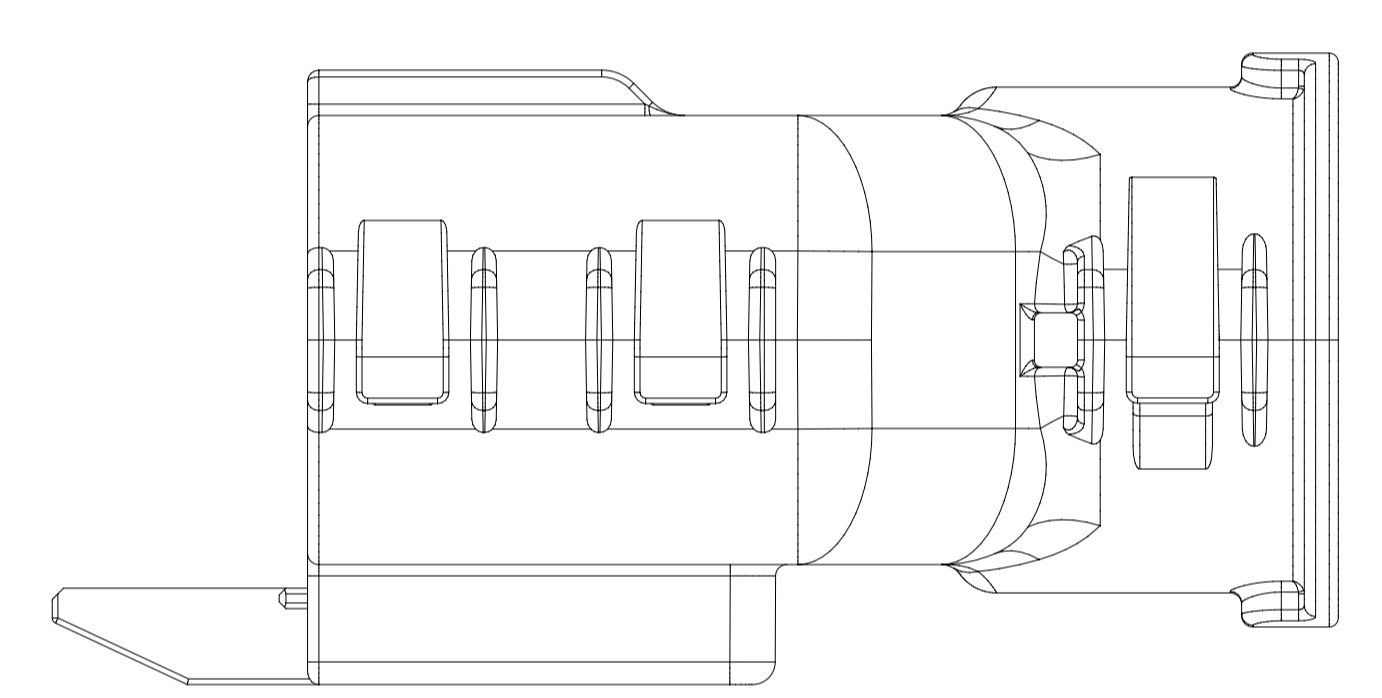
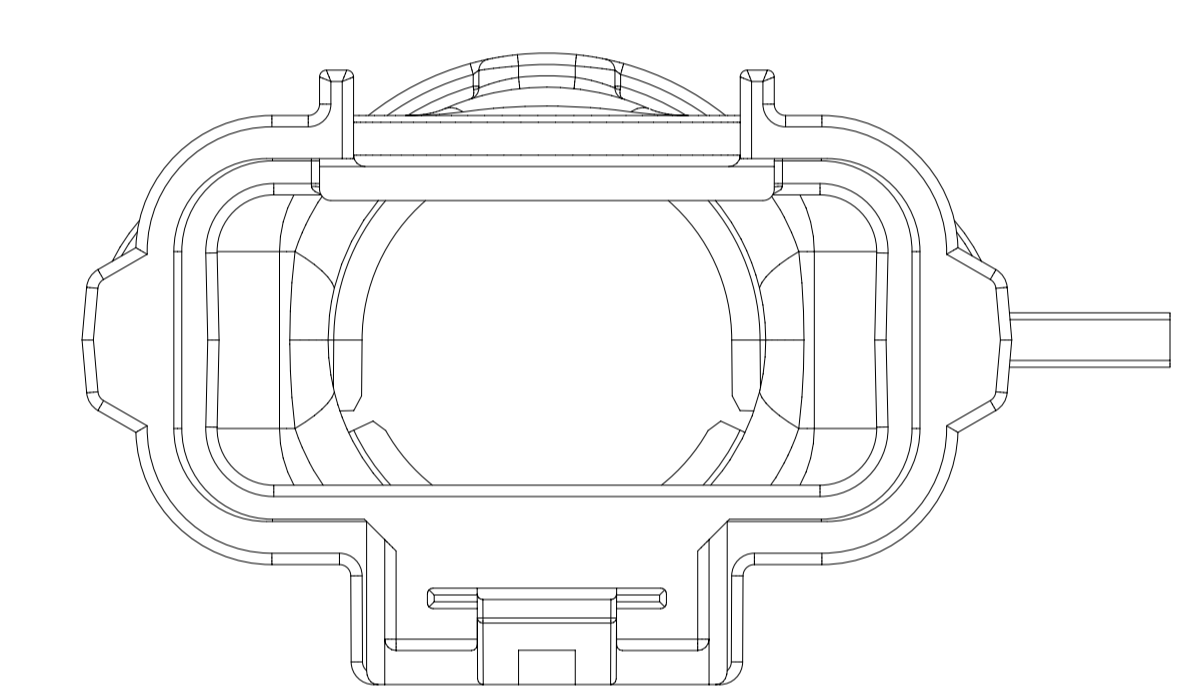
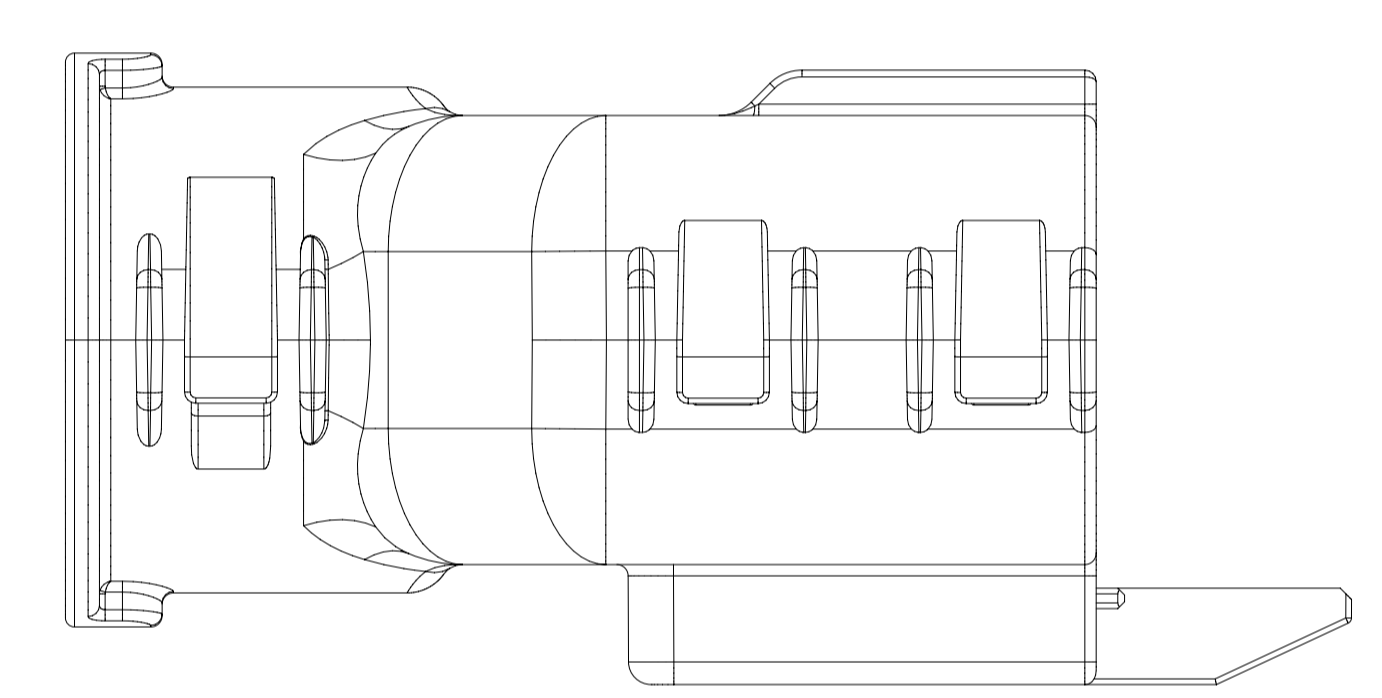
SYMBOLS: THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX ELECTRONIC TECHNOLOGIES, LLC AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION											
DIMENSION UNITS: mm SCALE: 4:1	CURRENT REV DESC:										
GENERAL TOLERANCES (UNLESS SPECIFIED): ANGULAR TOL ± 1.0°	molex MX150 RCPT DUAL ROW SEALED ASSEMBLY MAT SEAL										
EC NO: 171650 DRWN: DDEB 2018/01/19 CHK'D: MVANSLAMBROU 2018/02/16 APPR: MVANSLAMBROU 2018/02/16	PRODUCT CUSTOMER DRAWING										
INITIAL REVISION: DRWN: APROFFITT 2014/05/14 APPR: VKOSHY 2014/06/27	DOCUMENT NUMBER: SD-33472-0001	DOC TYPE: PSD	DOC PART: 001	REVISION: C2							
DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS	THIRD ANGLE PROJECTION	DRAWING: A1-SIZE	SERIES: 33472	MATERIAL NUMBER:	CUSTOMER: GENERAL MARKET	SHEET NUMBER: 7 OF 11					

DOCUMENT STATUS: P1 RELEASE DATE: 2018/02/16 22:02:25

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

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

SHEET DESCRIPTION
MOLEX BACKSHELL



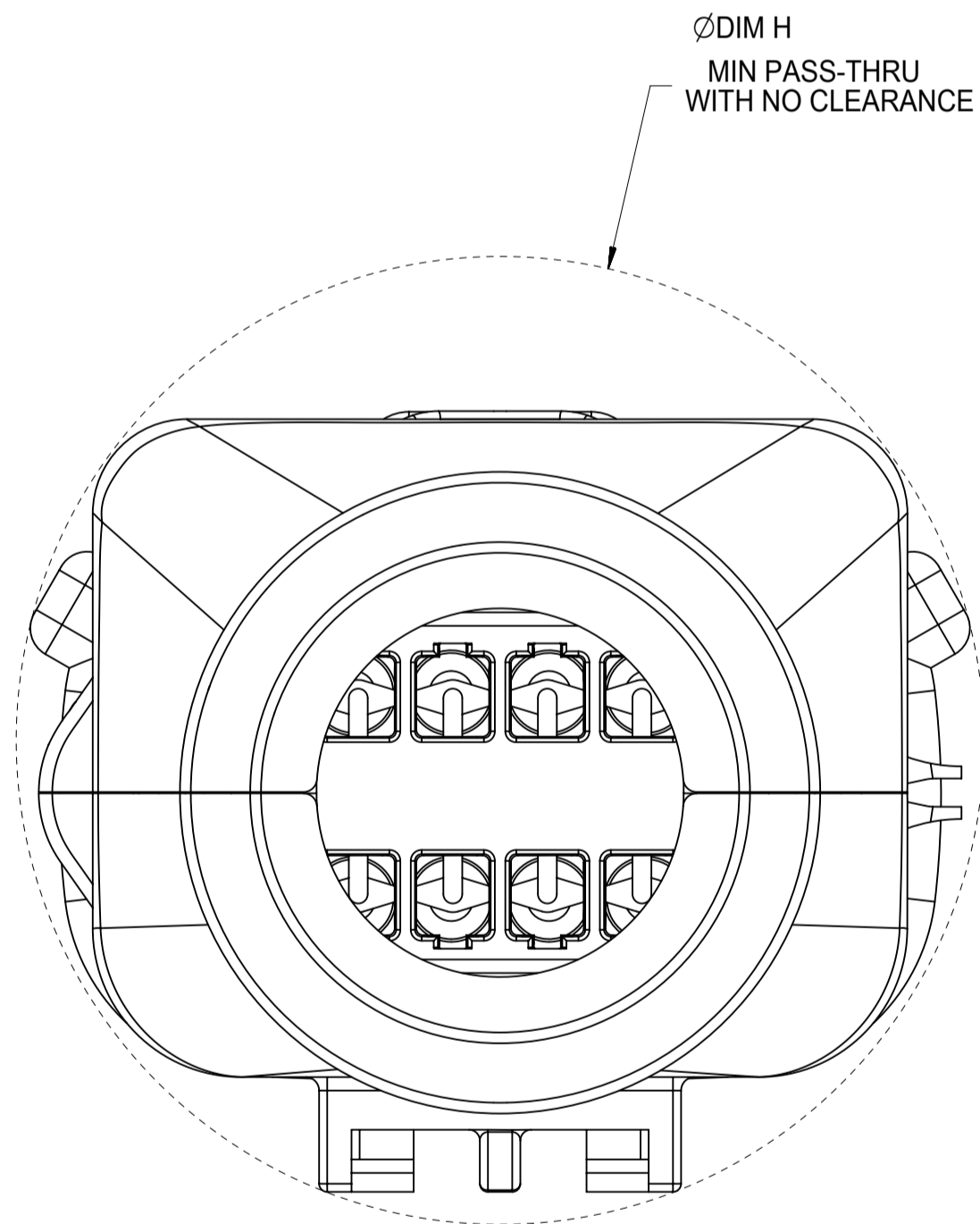
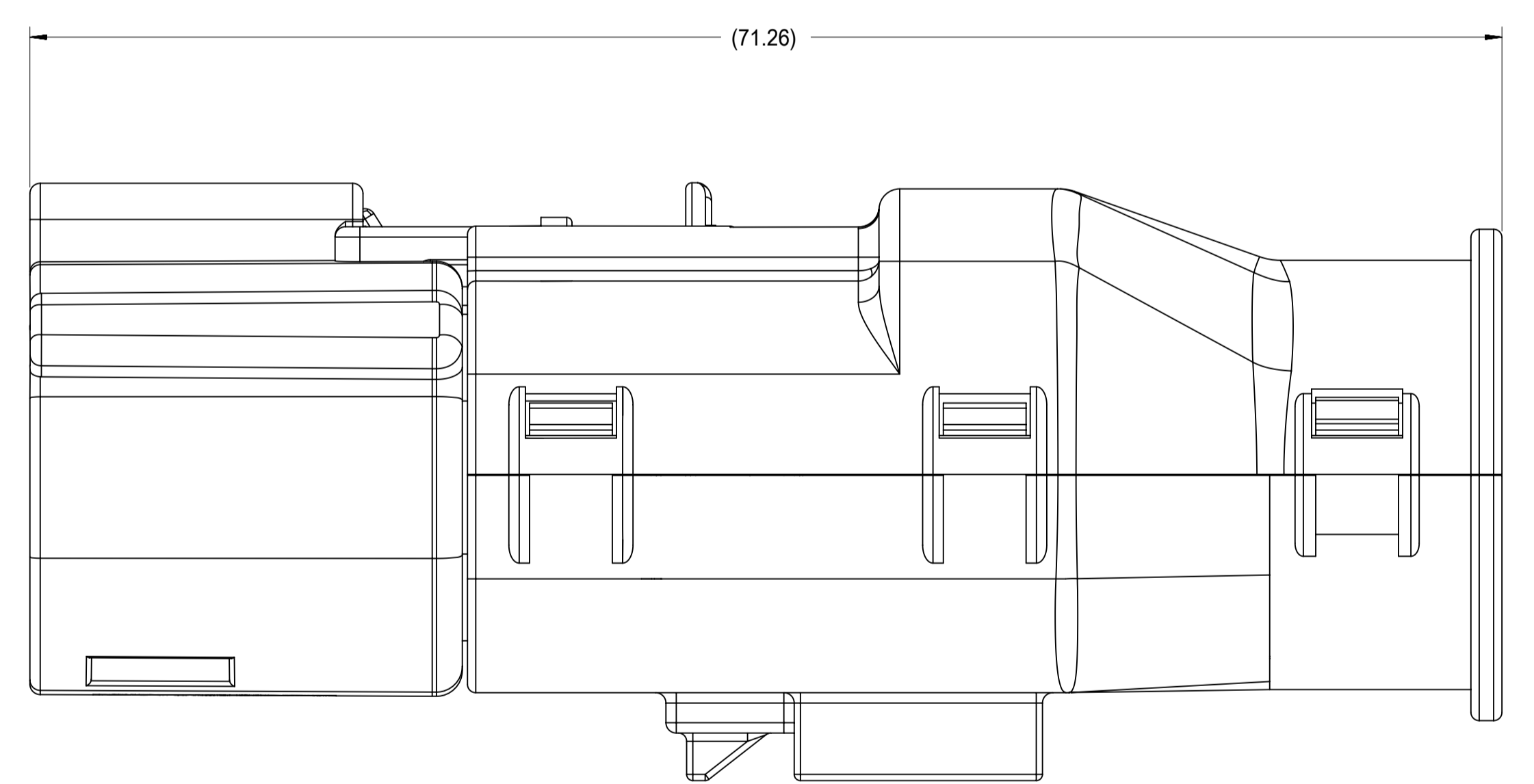
<p>SYMBOLS</p> <table border="1"> <tr> <th>DIMENSION UNITS</th> <th>SCALE</th> </tr> <tr> <td>mm</td> <td>3:1</td> </tr> </table> <p>GENERAL TOLERANCES (UNLESS SPECIFIED)</p> <table border="1"> <tr> <td>▽ = 0</td> <td>4 PLACES ±</td> </tr> <tr> <td>▽ = 0</td> <td>3 PLACES ±</td> </tr> <tr> <td>▽ = 0</td> <td>2 PLACES ± 0.1</td> </tr> <tr> <td>▽ = 0</td> <td>1 PLACE ± 0.2</td> </tr> <tr> <td>▽ = 0</td> <td>0 PLACES ±</td> </tr> </table> <p>ANGULAR TOL ± 1.0°</p> <p>DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS</p>												DIMENSION UNITS	SCALE	mm	3:1	▽ = 0	4 PLACES ±	▽ = 0	3 PLACES ±	▽ = 0	2 PLACES ± 0.1	▽ = 0	1 PLACE ± 0.2	▽ = 0	0 PLACES ±	<p>THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX ELECTRONIC TECHNOLOGIES, LLC AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION</p>			<p>CURRENT REV DESC:</p>			<p>molex</p>		
DIMENSION UNITS	SCALE																																	
mm	3:1																																	
▽ = 0	4 PLACES ±																																	
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▽ = 0	2 PLACES ± 0.1																																	
▽ = 0	1 PLACE ± 0.2																																	
▽ = 0	0 PLACES ±																																	
<p>EC NO: 171650 DRWN: DDEB 2018/01/19 CHK'D: MVANSLAMBROU 2018/02/16 APPR: MVANSLAMBROU 2018/02/16</p>						<p>MX150 RCPT DUAL ROW SEALED ASSEMBLY MAT SEAL</p>			<p>PRODUCT CUSTOMER DRAWING</p>																									
<p>INITIAL REVISION: DRWN: APROFFITT 2014/05/14 APPR: VKOSHY 2014/06/27</p>						<p>DOCUMENT NUMBER SD-33472-0001</p>		<p>DOC TYPE PSD</p>	<p>DOC PART 001</p>	<p>REVISION C2</p>																								
<p>THIRD ANGLE PROJECTION</p>				<p>DRAWING A1-SIZE</p>	<p>SERIES 33472</p>	<p>MATERIAL NUMBER</p>	<p>CUSTOMER GENERAL MARKET</p>		<p>SHEET NUMBER 8 OF 11</p>																									

DOCUMENT STATUS P1 RELEASE DATE 2018/02/16 22:02:25

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

SHEET DESCRIPTION
SCHLEMMER BACKSHELL CONFIGURATIONS

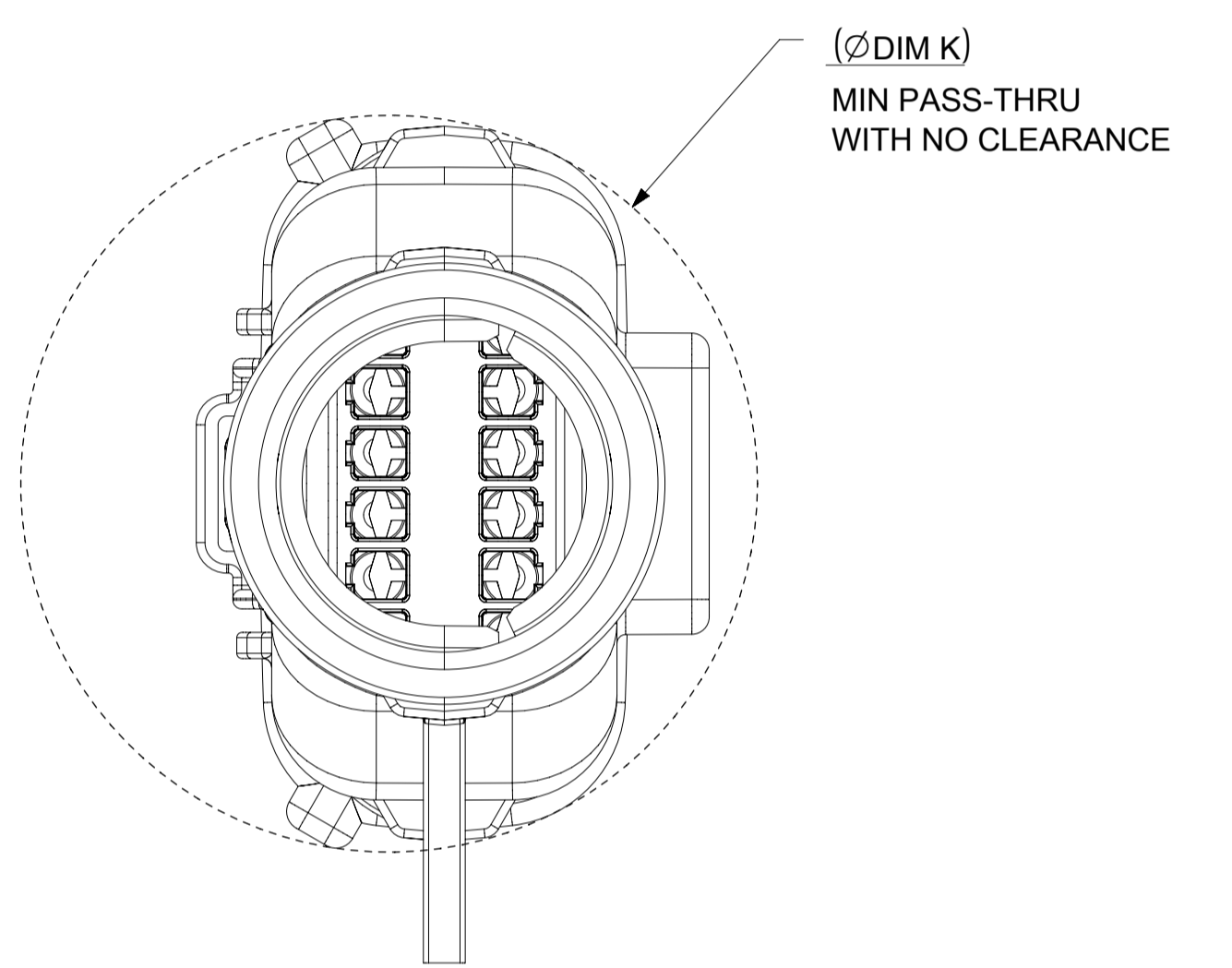
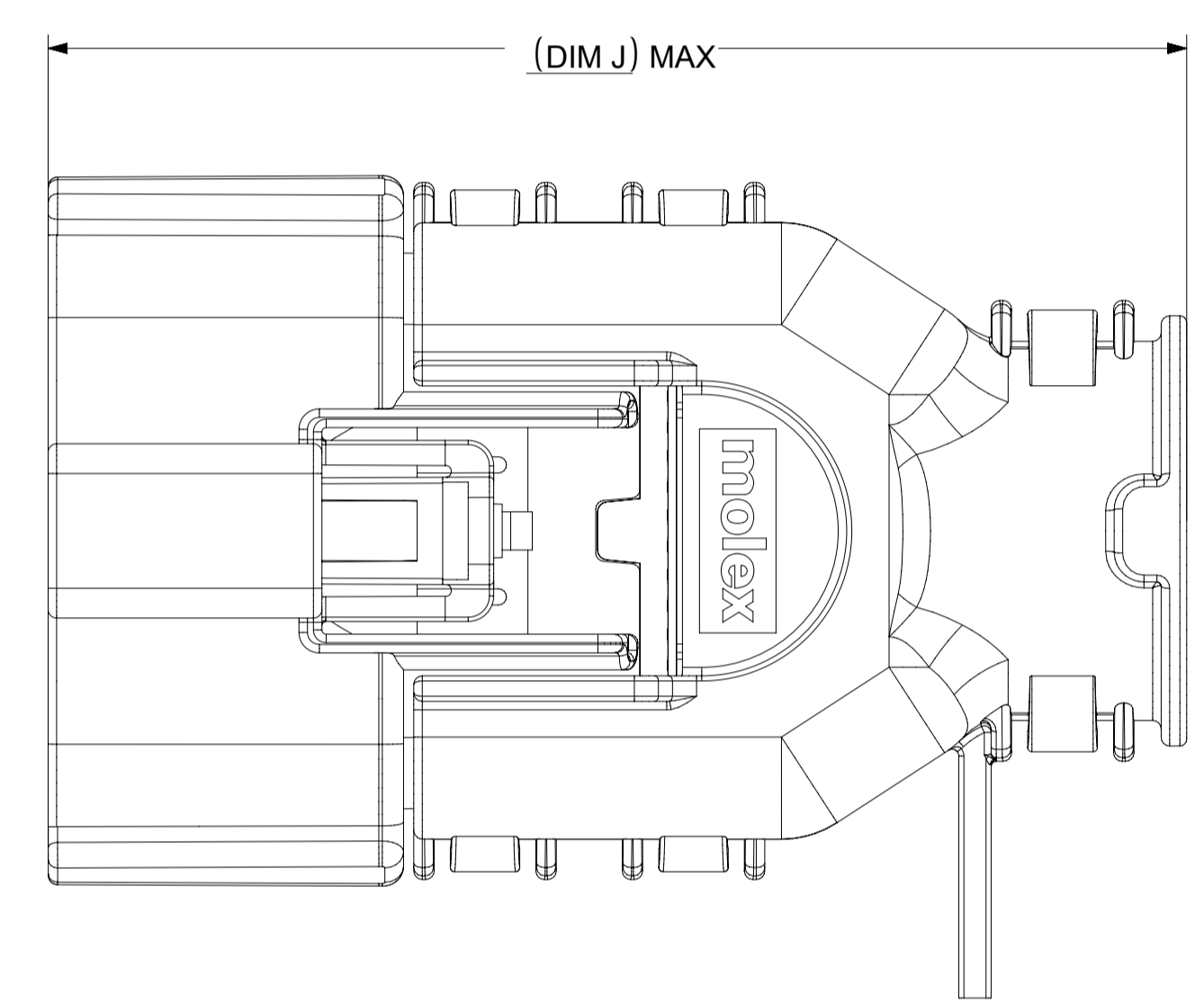
CHARTED DIMENSIONS	
DESCRIPTION	DIMENSIONS
2X3 W/ CLIPSLOT	N/A
2X3 W/O CLIPSLOT	28.50
2X4 W/ CLIPSLOT	N/A
2X4 W/O CLIPSLOT	30.75
2X6 W/ CLIPSLOT	N/A
2X6 W/O CLIPSLOT	35.83



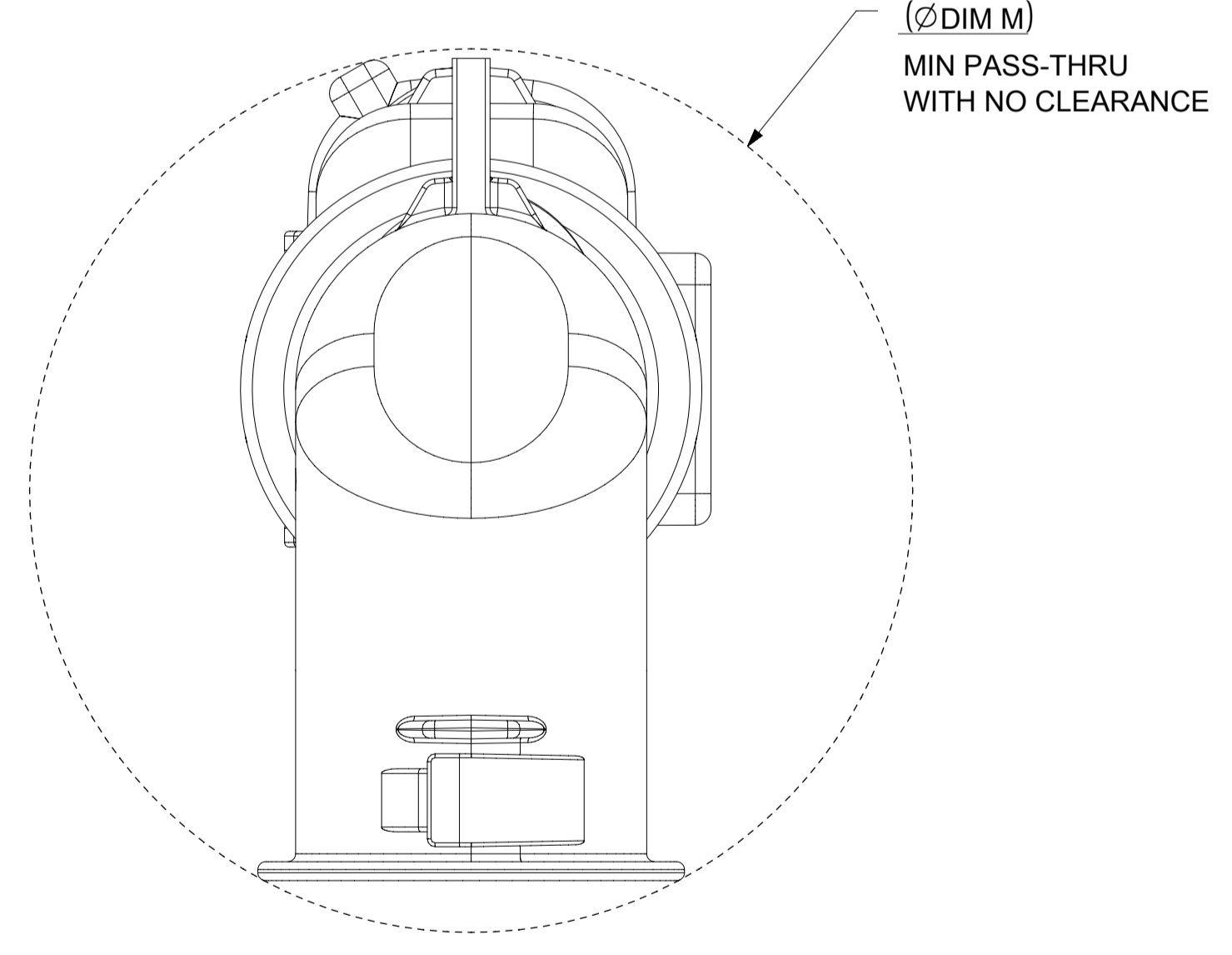
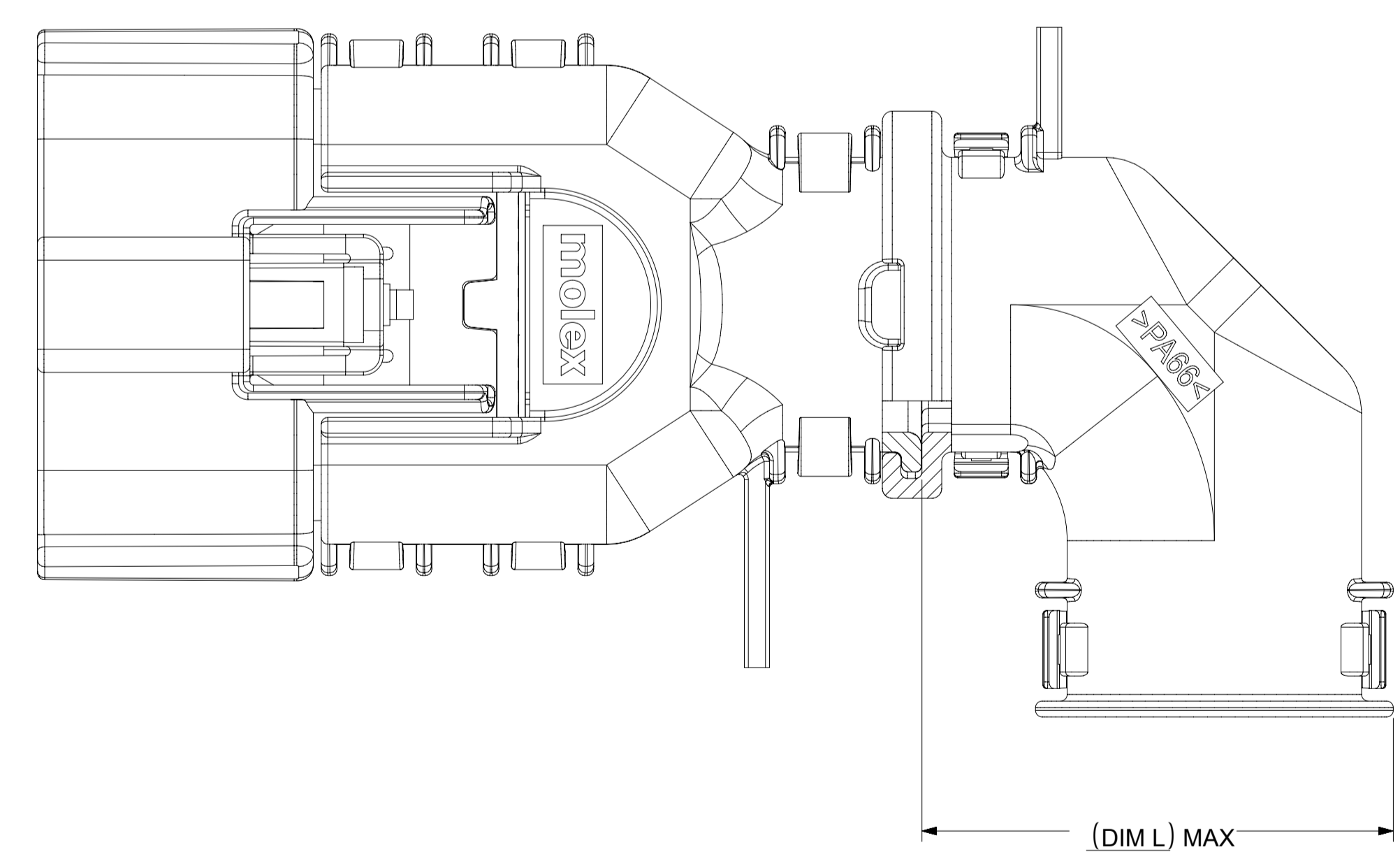
RECEPTACLE SEALED ASSEMBLY WITH RECEPTACLE BACKSHELL

QUALITY SYMBOLS ▽ = 0 ▽ = 0 ▽ = 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: mm SCALE: 4:1		
	EC NO: 171650 DRWN: DDEB CHKD: MWANSLAMBROU REV: APFR: MWANSLAMBROU 2018/02/16 2018/02/16 2018/02/16	GENERAL TOLERANCES (UNLESS SPECIFIED) mm SCALE: 4:1	DRWN BY: APROFFITT DATE: 2014/05/14	MX150 RCPT DUAL ROW SEALED ASSEMBLY MAT SEAL		
	4 PLACES ± 3 PLACES ± 2 PLACES ± 0.1 1 PLACE ± 0.2	ANGULAR TOL ± 1.0 ° APROFFITT 2014/05/14	CHKD BY: KBORUSZEWSKI DATE: 2014/06/16	PRODUCT CUSTOMER DRAWING		
	DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS	APFR BY: VKOSHY DATE: 2014/06/27	DRAWING SIZE: A1 THRD ANGLE PROJECTION:	SERIES: 33472 MATERIAL NUMBER: SD-33472-0001 DOCUMENT NUMBER: PSD 001	CUSTOMER: GENERAL MARKET SHEET NUMBER: 9 OF 11	

SHEET DESCRIPTION
MOLEX BACKSHELL CONFIGURATIONS



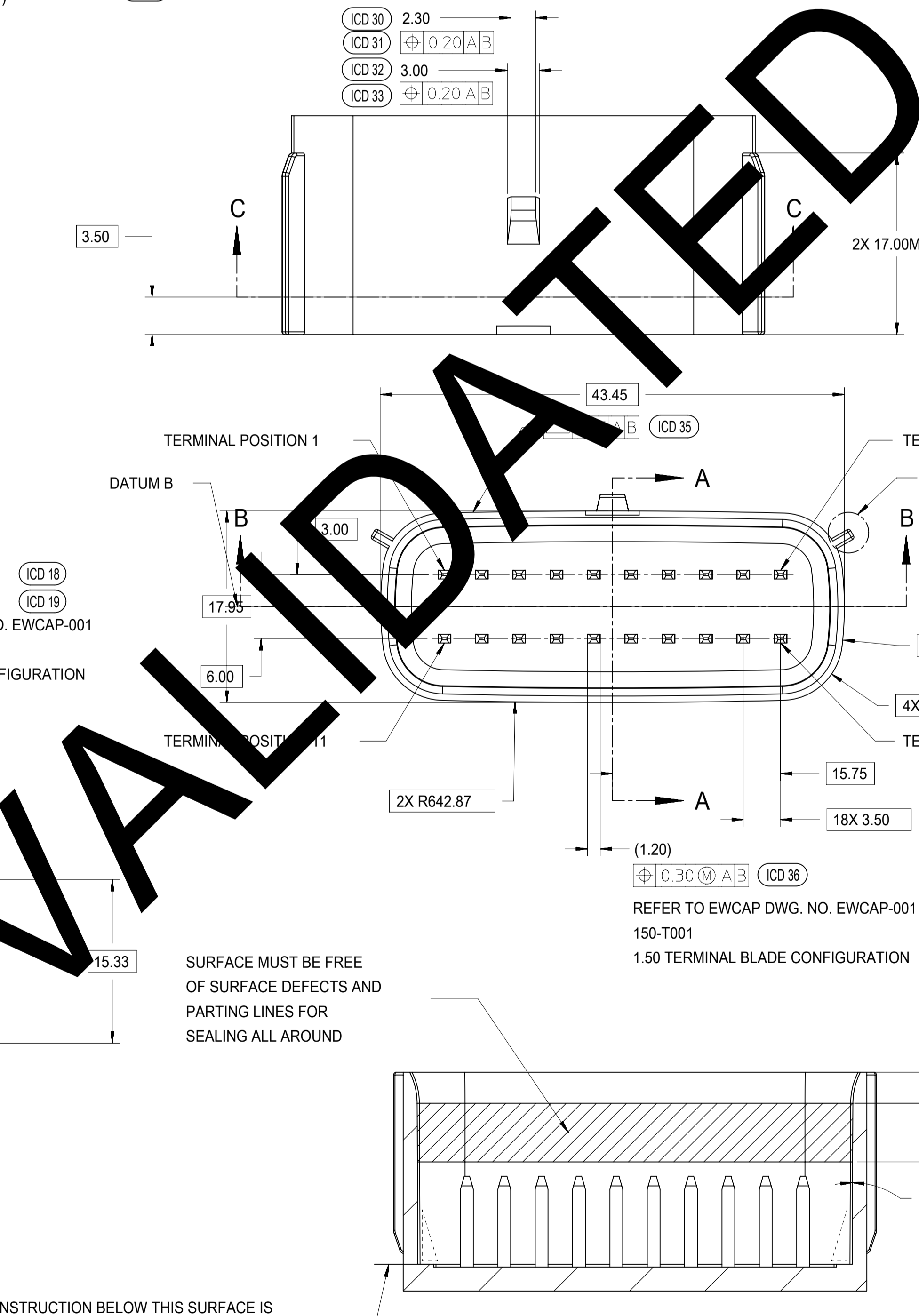
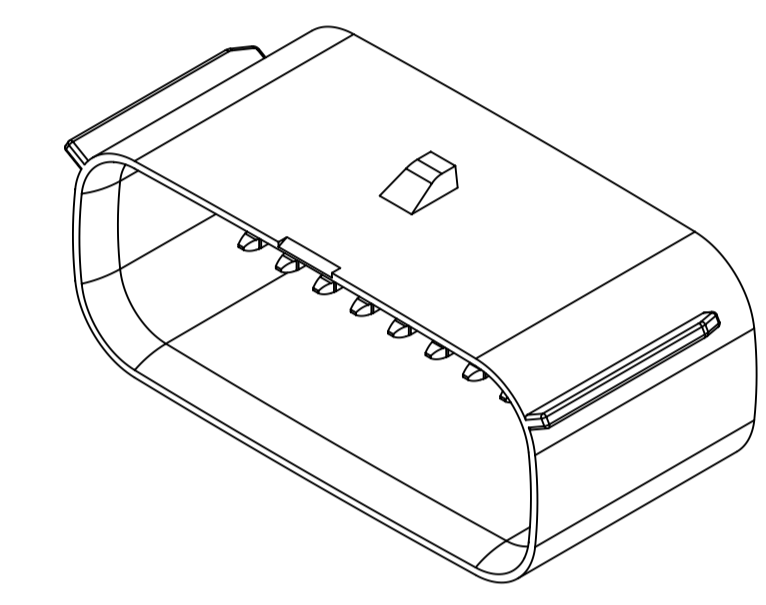
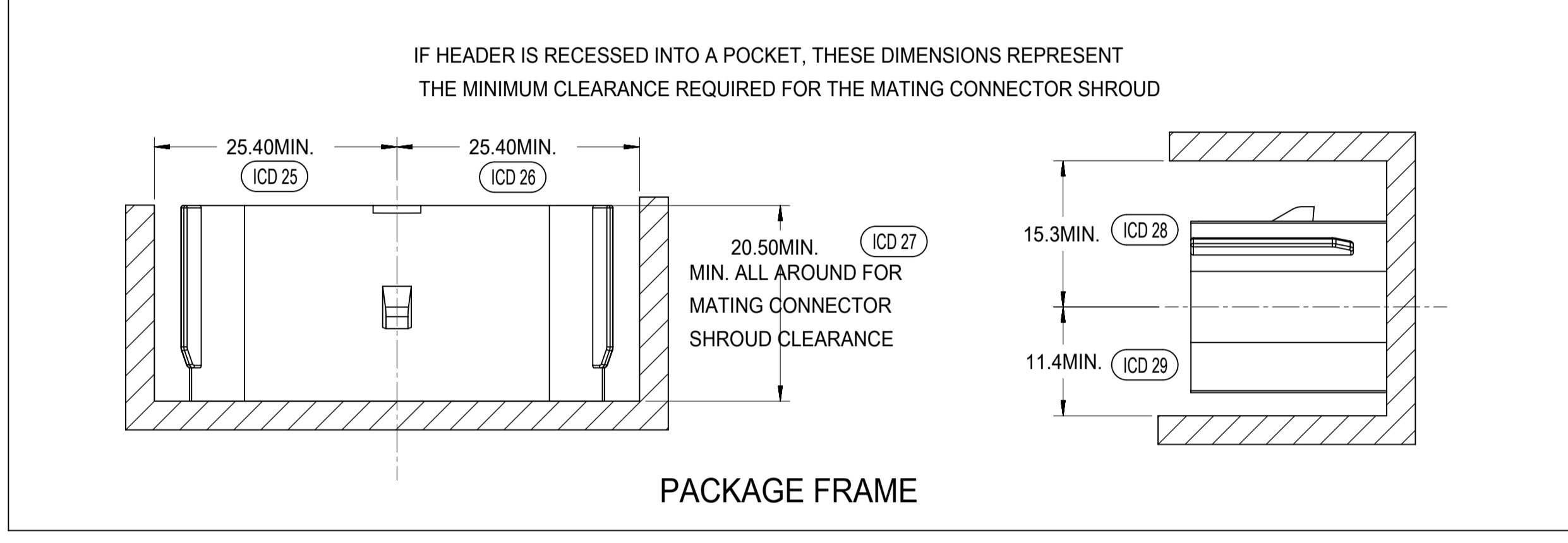
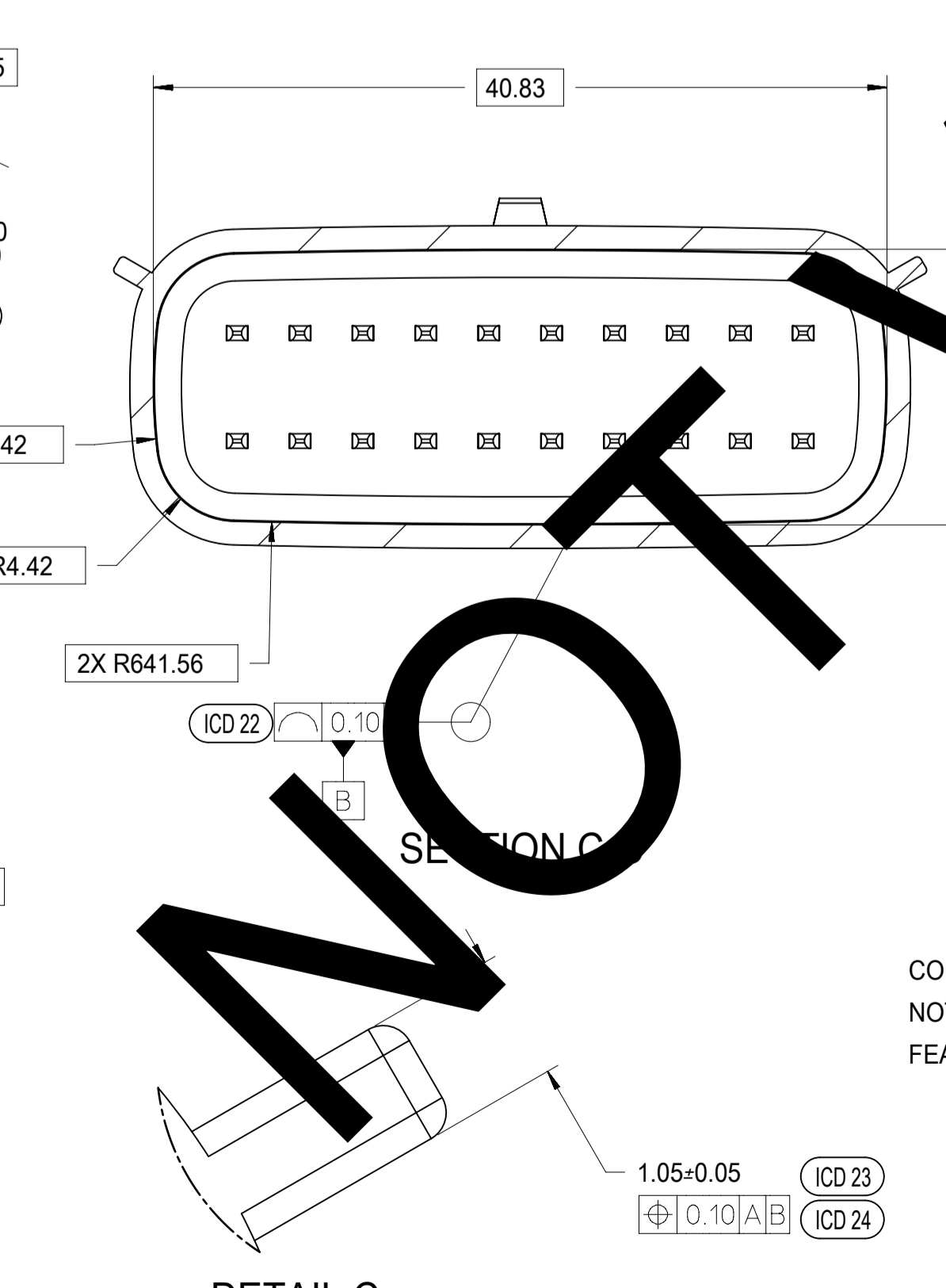
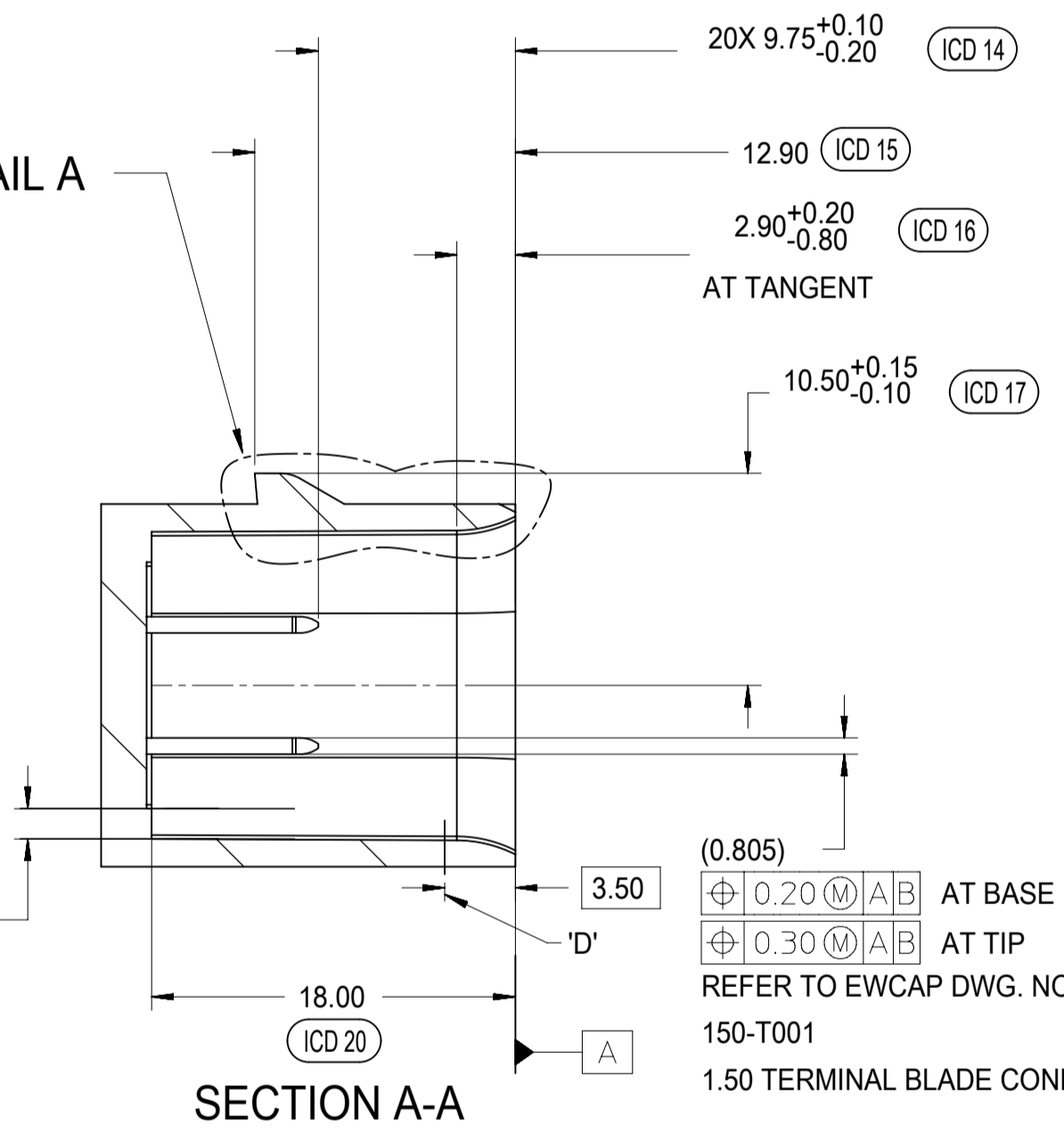
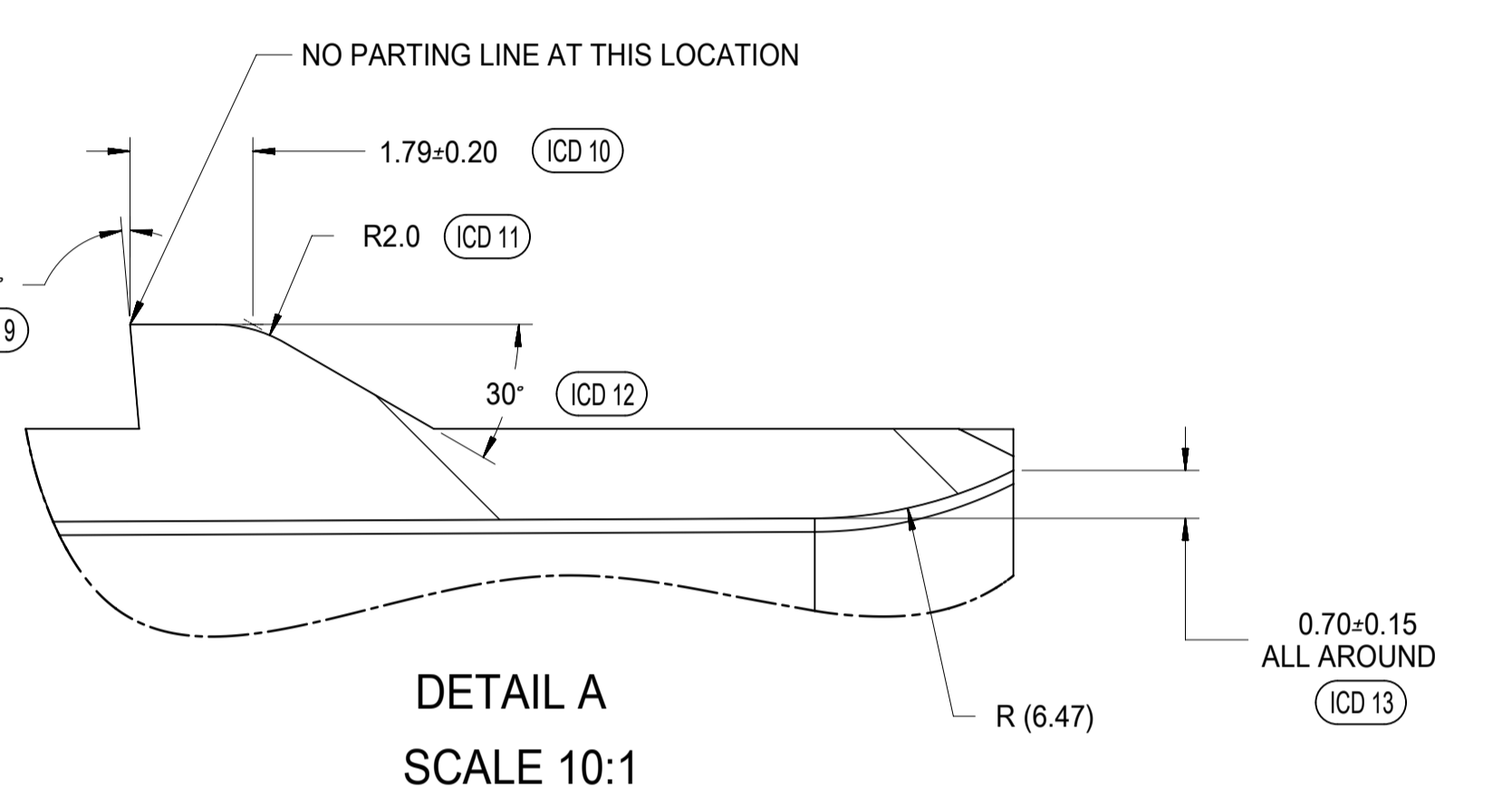
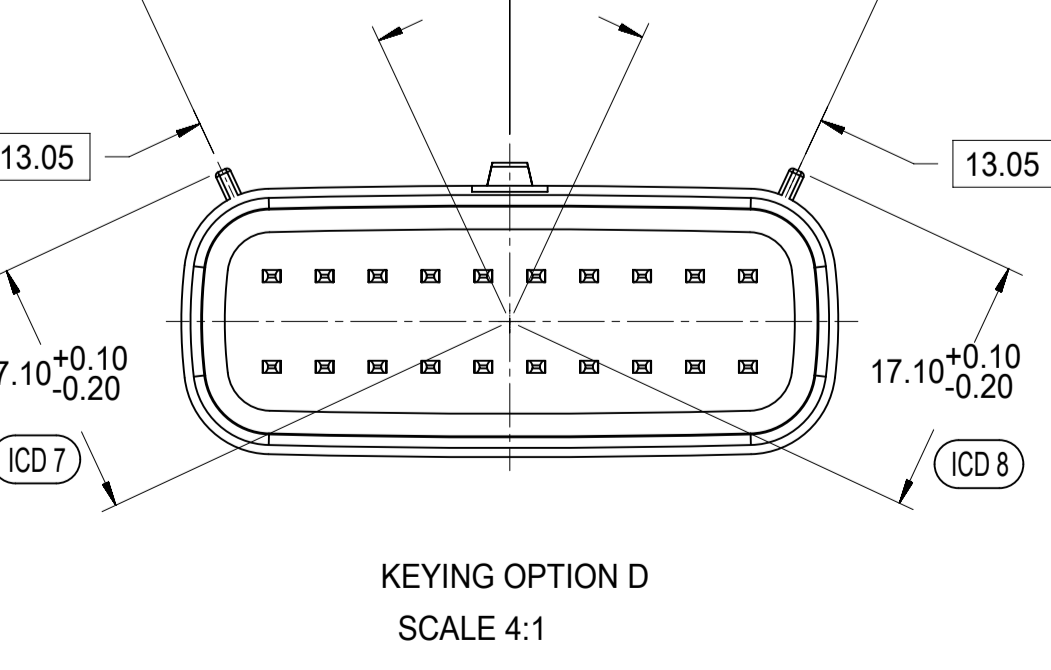
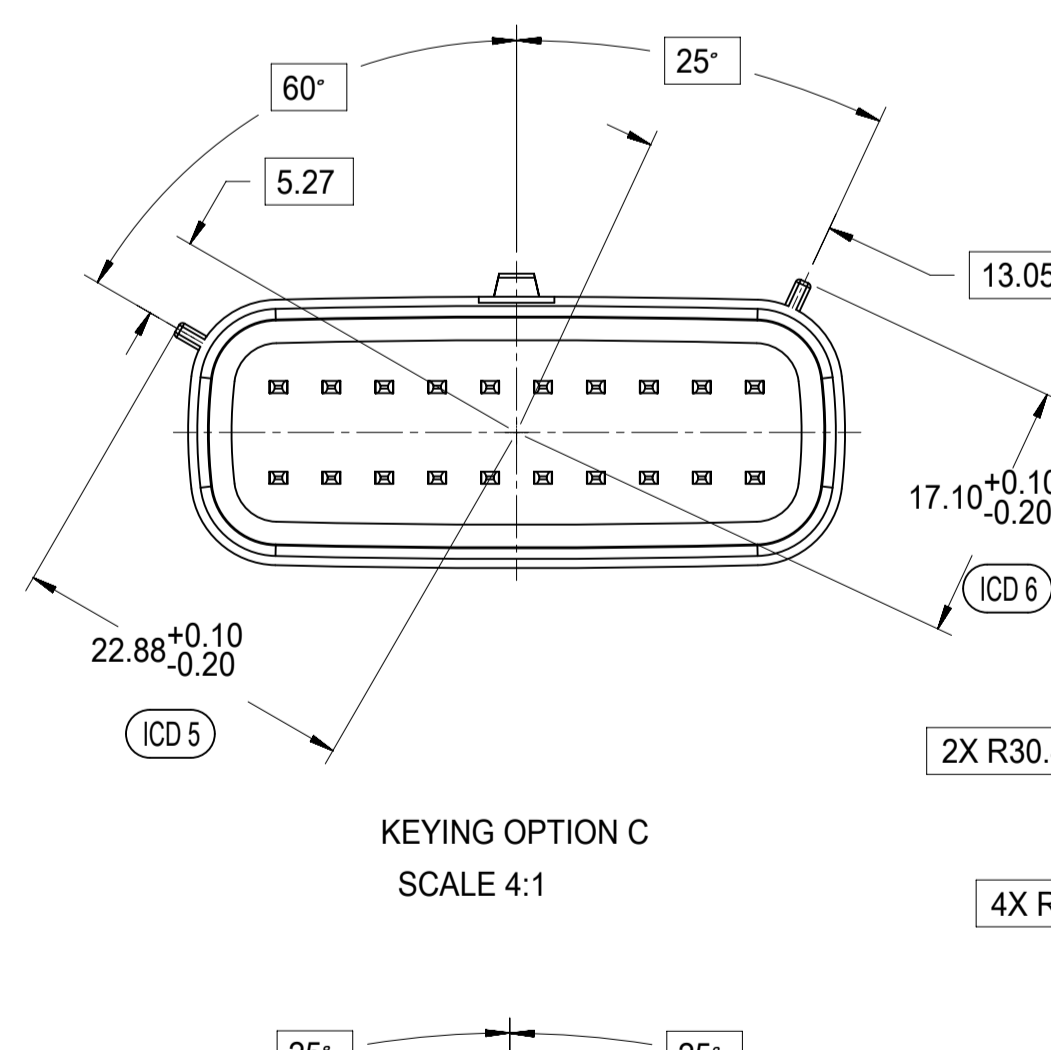
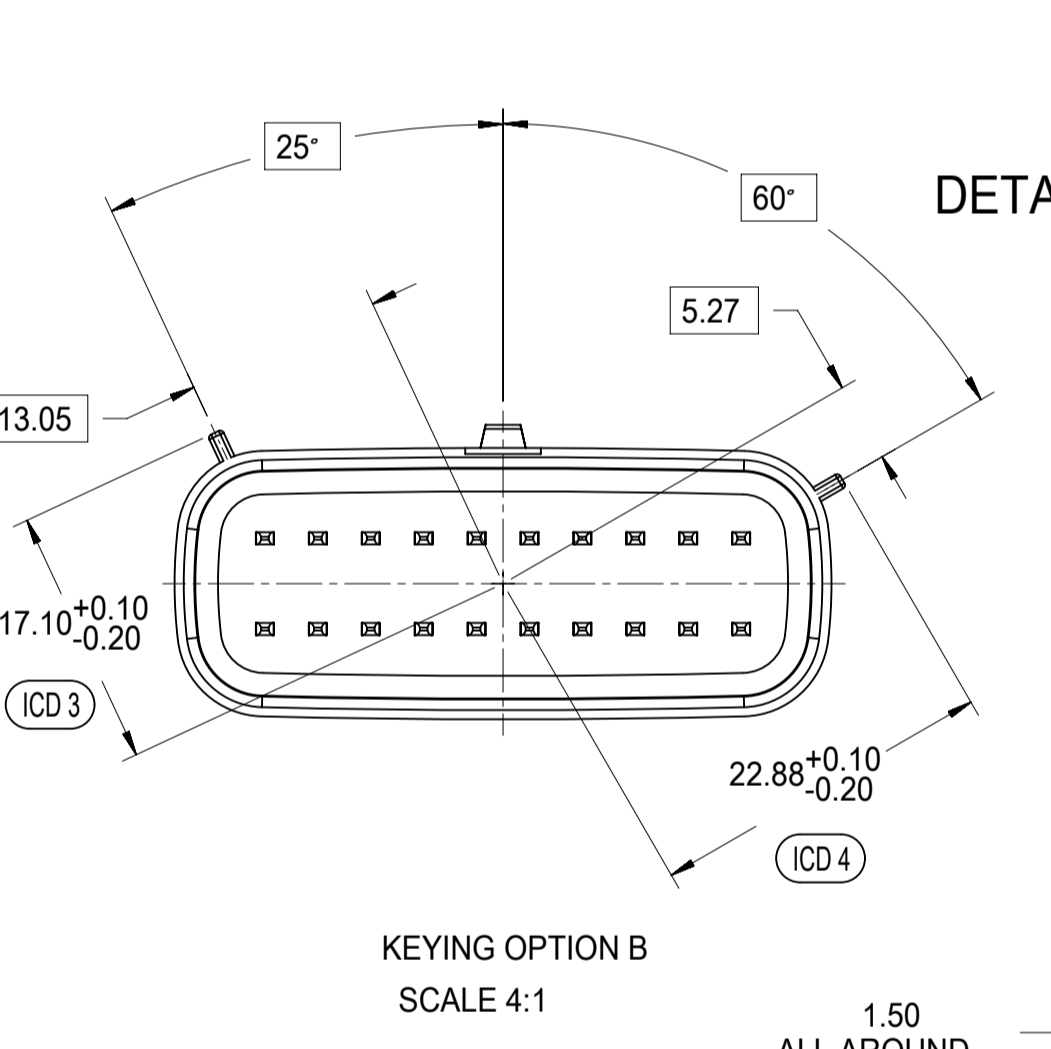
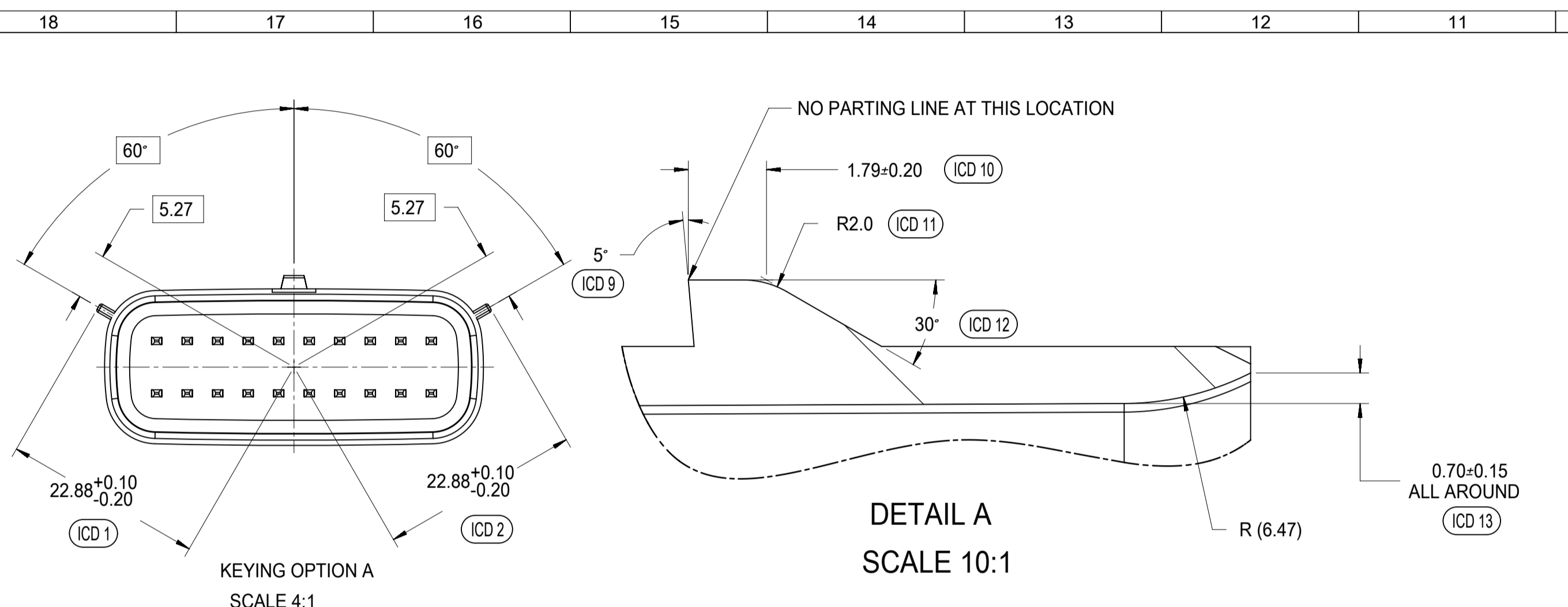
RECEPTACLE SEALED ASSEMBLY WITH RECEPTACLE BACKSHELL



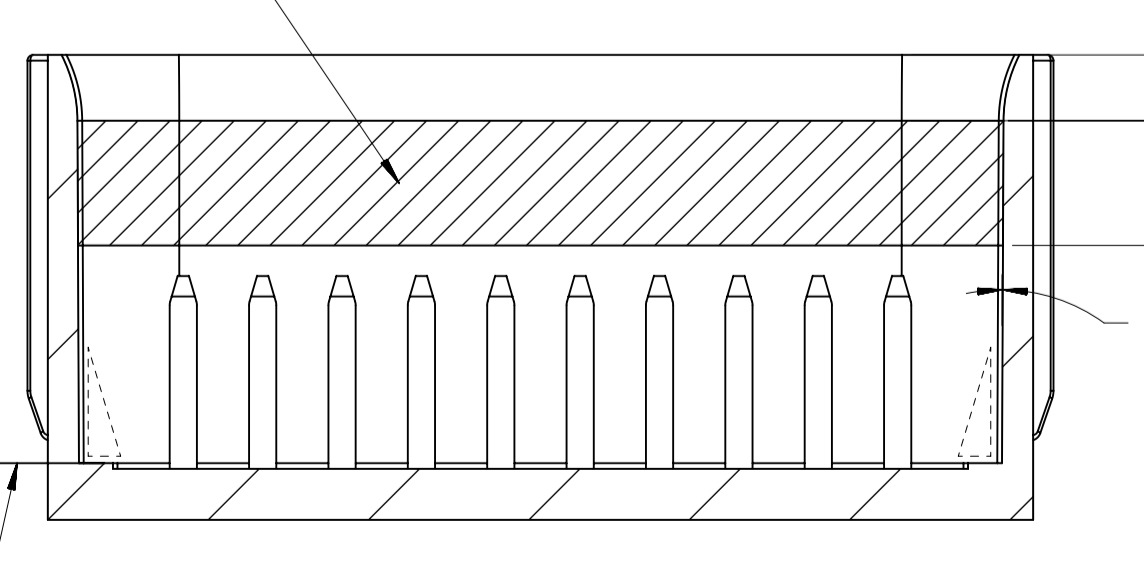
ADD THE VALUE OF 'L' TO THE TOTAL DIMENSION WHENEVER ADAPTOR IS USED

DESCRIPTION	DIMENSIONS			
	J	K	L	M
2X2 W/O CLIPSLOT	TBD	TBD	TBD	TBD
2X2 W/ CLIP SLOT	TBD	TBD	TBD	TBD
2X2 LENGTHENED	TBD	TBD	TBD	TBD
2X4 W/ CLIPSLOT	58.39	32.85	32.10	44.26
2X4 W/O CLIPSLOT	N/A	N/A	N/A	N/A
2X8 W/ CLIPSLOT	67.19	42.65	36.10	56.49
2X8 W/O CLIPSLOT	N/A	N/A	N/A	N/A
2X10 W/ CLIPSLOT	67.19	42.65	36.10	56.49
2X10 W/O CLIPSLOT	N/A	N/A	N/A	N/A

SYMBOLS DIMENSION UNITS: mm SCALE: 2.5:1 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		THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX ELECTRONIC TECHNOLOGIES, LLC AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION CURRENT REV DESC: EC NO: 171650 DRWN: DDEB 2018/01/19 CHK'D: MVANSLAMBROU 2018/02/16 APPR: MVANSLAMBROU 2018/02/16 INITIAL REVISION: DRWN: APROFFITT 2014/05/14 APPR: VKOSHY 2014/06/27		 MX150 RCPT DUAL ROW SEALED ASSEMBLY MAT SEAL PRODUCT CUSTOMER DRAWING	
DOCUMENT STATUS: P1 RELEASE DATE: 2018/02/16 22:02:25		DOCUMENT NUMBER: SD-33472-0001 DOC TYPE: PSD DOC PART: 001 REVISION: C2		MATERIAL NUMBER: A1-SIZE 33472 CUSTOMER: GENERAL MARKET SHEET NUMBER: 10 OF 11	



SURFACE MUST BE FREE OF SURFACE DEFECTS AND PARTING LINES FOR SEALING ALL AROUND



- MATING INTERFACE NOTES: VALID UNLESS OTHERWISE SPECIFIED
- GENERAL:
 - DESIGNED TO MATE WITH MOLEX CONNECTOR 33472-2XXX & 160008-0XXX & 160074-0XXX. A FULL SHROUD ON THE MATING CONNECTOR IS REQUIRED TO INSURE THAT THE CONNECTOR-HEADER POLARIZATION FEATURES (OPTIONS A THRU D) WILL FUNCTION. THE FULL SHROUD ALSO PREVENTS SCOOP DAMAGE TO THE HEADER PINS. REFER TO 'SAEUSCAR-12 CONNECTOR DESIGN GUIDELINES' FOR ADDITIONAL INFORMATION.
 - PARTS MUST BE IN COMPLIANCE TO MOLEX CHEMICAL SUBSTANCES FOR PRODUCTS AND PACKAGING SPECIFICATION: ES-40000-5016
 - FLAMMABILITY REQUIREMENT: PER ISO3795 OR GM3191
 - BURN RATE: 100mm/MIN MAXIMUM
 - MATERIAL MUST BE SELF EXTINGUISHING
 - MATERIALS:
 - MATERIAL: SPSNYLON GF20, REGRIND 20% MAX BY WEIGHT
 - STANDARD COLORS FOR POLARIZATION (SEE KEYING OPTIONS TABLE). DEVIATION REQUIRES APPROVAL OF AUTHORIZED PERSON
 - FOR BLADE BASE MATERIAL, PLATING AND PROCESS LUBRICANT:
 - TIN: - BASE MATERIAL: COPPER ALLOY, CONDUCTIVITY >=60% IACS AT 20°C; TENSILE STRENGTH >= 410 N/mm²MP - BARRIER MATERIAL: NICKEL DEPOSIT FROM NICKEL SULFAMATE PLATING SOLUTION W/0 ANY ADDITIVES THICKNESS: 1.25 - 2.25 MICROMETERS
 - TOP LAYER: 100% ELECTRO-DEPOSITED TIN, MATTE FINISH THICKNESS: 2.5 - 4.0 MICROMETERS
 - SILVER: - BARRIER MATERIAL: ELECTRO-DEPOSITED DUCTILE SULPHAMATE NICKEL THICKNESS: 1.25 - 2.25 MICROMETERS
 - TOP LAYER: ELECTRO-DEPOSITED SEM-BRIGHT PURE SILVER (0.5% MAX IMPURITIES) OVER NICKEL ANTI-TARNISH TREATMENT EVERBRIGHT HW THICKNESS: 1.9 - 3.3 MICROMETERS
 - BLADES MUST CONFORM TO ES-40000-5007, EXCEPT FOR SPECULAR REFLECTIVITY - SECTION 6.0
 - ANY PROCESS LUBRICANT REMAINING ON THE TERMINAL MUST NOT VARNISH OR DEGRADE ITS ELECTRICAL PERFORMANCE UP TO A MAXIMUM CLASS AMBIENT TEMPERATURE PER SAE USCAR-2 FOR 1008 HOURS. PROCESS LUBRICANTS SHOULD BE APPROVED BY THE RESPONSIBLE ENGINEER.
 - INFORMATION FOR BLADE DESIGN WAS DEVELOPED FROM EWCAP DWG: EWCAP-001
- GEOMETRY:
 - 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.
 - GEOMETRIC DIMENSIONS AND TOLERANCES PER ASME Y14.5M - 1994
 - GENERAL TOLERANCES: SEE TITLE BLOCK
 - EDGES AND UNDIMENSIONED DETAILS PER ISO13715
 - MANUFACTURING:
 - DRAFT TO BE WITHIN TOLERANCE. PLUS DRAFT - INDICATES A DIMENSION REPRESENTS THE SMALLEST SIZE OF A FEATURE. DRAFT WILL ADD MATERIAL. MINUS DRAFT - INDICATES A DIMENSION REPRESENTS THE LARGEST SIZE OF A FEATURE. DRAFT WILL REMOVE MATERIAL.
 - ALLOWABLE FLASH MAX 0.20 HIGH BY MAX 0.13 THICK.
 - ALLOWABLE SPLIT/PARTING LINE MISMATCH 0.2 MAX.
 - VISUAL DEFECTS SHALL MEET COSMETIC STANDARD PS-45499-002 (Class B)
 - NO EXTERNAL MOLD RELEASE AGENT ALLOWED DURING MANUFACTURING
 - NO PARTING LINES, NO DRAFT, MISMATCHES OR EJECTOR MARKS PERMISSIBLE WITHIN SEALING SURFACE. SEALING SURFACE TOOLING TO BE PROCESSED.

SYMBOLS		THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX ELECTRONIC TECHNOLOGIES, LLC AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION OF MOLEX ELECTRONIC TECHNOLOGIES, LLC	
▽ = 0	mm	SCALE	1:1
▽ = 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		
EC NO: 171650		DRAWING SERIES	
DRWN: DDEB		2018/01/19	
CHK'D: MVANSLAMBROU		2018/02/16	
APPR: MVANSLAMBROU		2018/02/16	
INITIAL REVISION:		DRAWING SERIES	
DRWN: APROFFITT		2014/05/14	
APPR: VKOSHY		2014/06/27	
CURRENT REV DESC:		MATERIAL NUMBER	
		A1-SIZE 33472	
		CUSTOMER	
		GENERAL MARKET	
		SHEET NUMBER	
		11 OF 11	

150-S-020-2-D02	D	STONE GRAY
150-S-020-2-C02	C	DK GRAY
150-S-020-2-B02	B	LT GRAY
150-S-020-2-A02	A	BLACK
PIN	OPTION	MATING CONNECTOR COLOR
DOCUMENT STATUS	P1	RELEASE DATE
		2018/02/16 22:02:25

DETAIL C SCALE 20:1 APPLIES 2X SEE KEYING OPTION VIEWS FOR POSITIONS

molex

MX150 RCPT
DUAL ROW SEALED ASSEMBLY MAT SEAL

PRODUCT CUSTOMER DRAWING

DOCUMENT NUMBER: SD-33472-0001
DOC TYPE: PSD
DOC PART: 001
REVISION: C2

GENERAL MARKET

TABLE OF CONTENTS	
SHEET NO.	SHEET DESCRIPTION
1	COVER
2	KEY OPERATIONS
3	RECEPTACLE ASSEMBLY
4	BOX

DRIVER CAP, STANDARD CAP
DRIVER CAP, INCHWORM CELL

O-RING
O-RING SEAL
PRIMARY LEVEL REINFORCEMENT PLUG

NOTE: SEE RECEPTACLE SCALE ASSEMBLY - STANDARD STD.

NOTE: SEE RECEPTACLE SCALE ASSEMBLY - INCHWORMS
(UNLESS OTHERWISE NOTED, SEE STANDARD ASSEMBLY)

INFORMATION NUMBER LIST
LAST NUMBER USED
REVISIONS

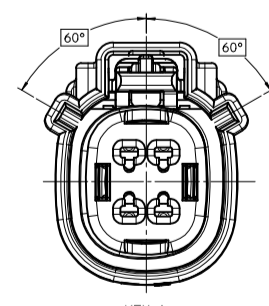
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3	10/10/00	ISSUED FOR CONSTRUCTION
4	10/10/00	ISSUED FOR CONSTRUCTION
5	10/10/00	ISSUED FOR CONSTRUCTION
6	10/10/00	ISSUED FOR CONSTRUCTION
7	10/10/00	ISSUED FOR CONSTRUCTION
8	10/10/00	ISSUED FOR CONSTRUCTION
9	10/10/00	ISSUED FOR CONSTRUCTION
10	10/10/00	ISSUED FOR CONSTRUCTION

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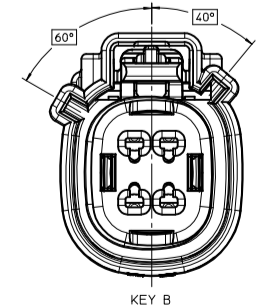
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4	10/10/00	ISSUED FOR CONSTRUCTION
5	10/10/00	ISSUED FOR CONSTRUCTION
6	10/10/00	ISSUED FOR CONSTRUCTION
7	10/10/00	ISSUED FOR CONSTRUCTION
8	10/10/00	ISSUED FOR CONSTRUCTION
9	10/10/00	ISSUED FOR CONSTRUCTION
10	10/10/00	ISSUED FOR CONSTRUCTION

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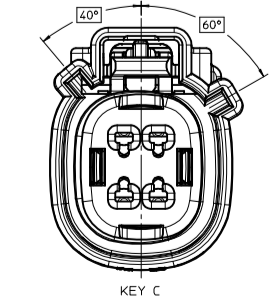
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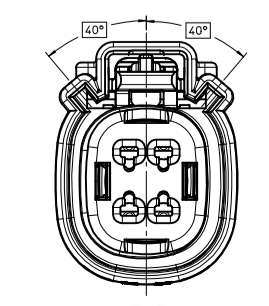
KEY A



KEY B



KEY C

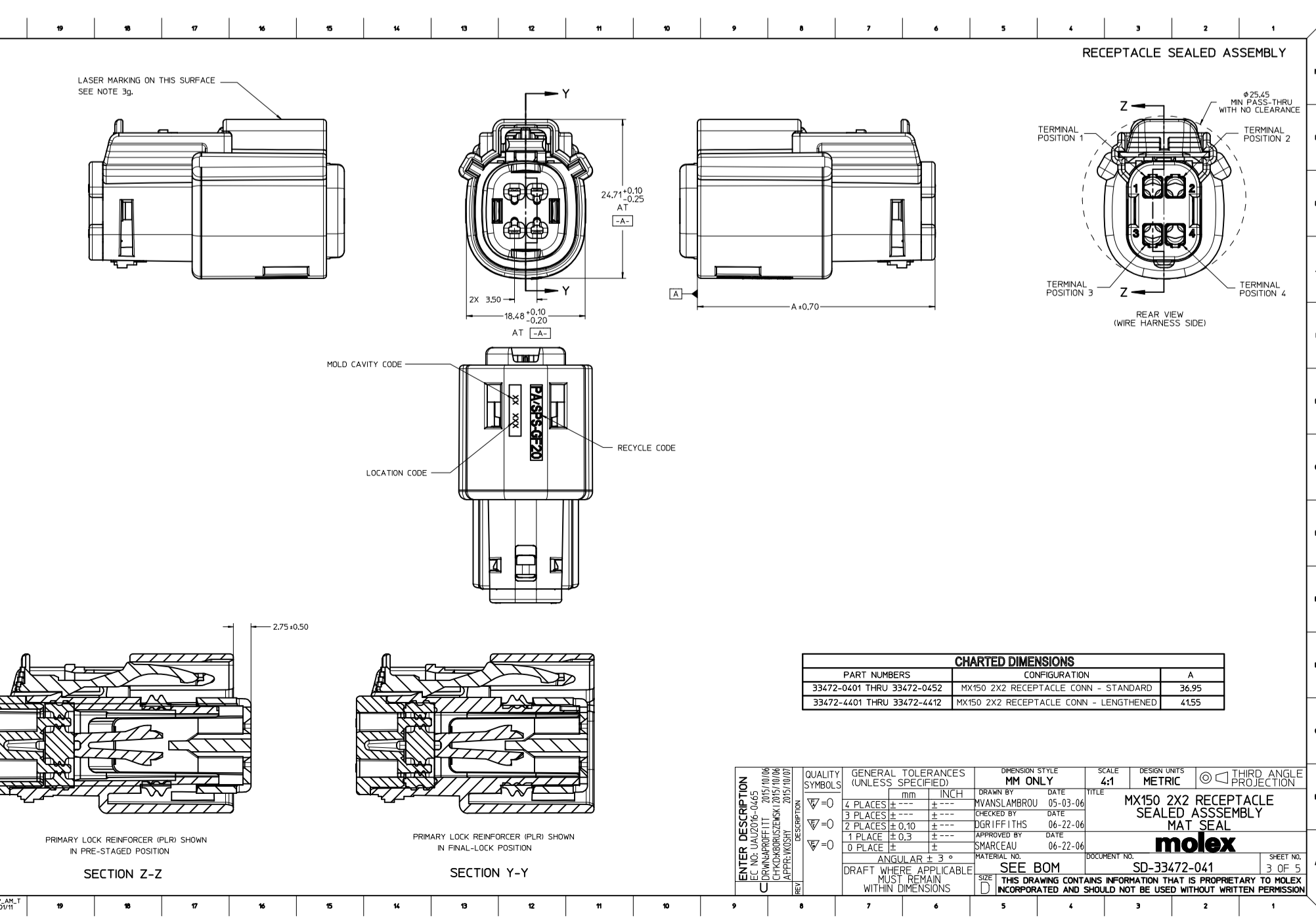


KEY D

KEY CONFIGURATIONS

KEY	HANDLE	LOCK BODY	KEY TYPE	KEY CODE	KEY NUMBER
A	1	1	1	1	1
B	1	1	1	1	1
C	1	1	1	1	1
D	1	1	1	1	1

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UNITED DIMENSIONS	
UNIT SYSTEM	SI
UNIT CONVERSION	1 INCH = 25.4 MM
UNIT TOLERANCE	± 0.005 INCH
UNIT DIMENSION	± 0.005 INCH

DESIGNER	DATE	SCALE	PROJECT
DRAWN			
CHECKED			
APPROVED			

TRONEX
 SECTION 1-1
 SECTION 2-2
 PARTIAL USE
 PARTIAL USE

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