

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                  |

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: 1 OF 1

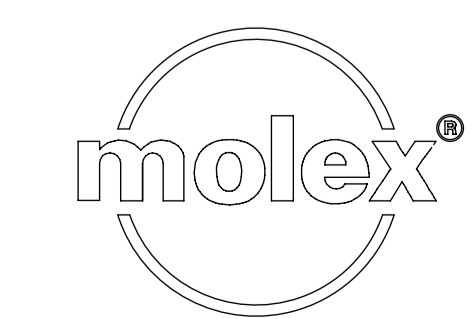
DRAWING NUMBER: 150-S-004-2-Z02

SIZE: E

DO NOT SCALE DRAWING

COMPUTER AIDED DRAWING

REVISION LEVEL: D



| TABLE OF CONTENTS |                                     |
|-------------------|-------------------------------------|
| 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

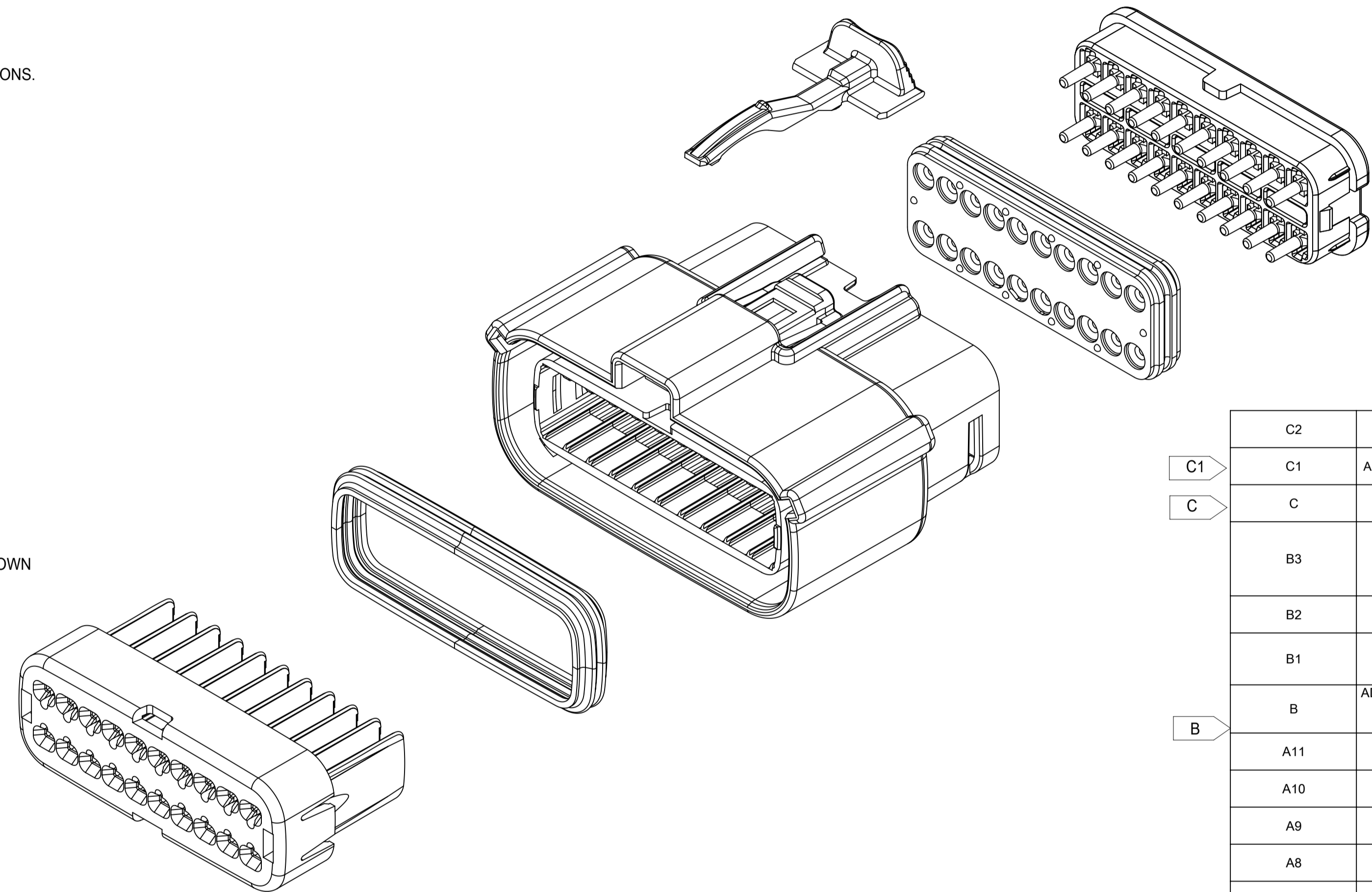
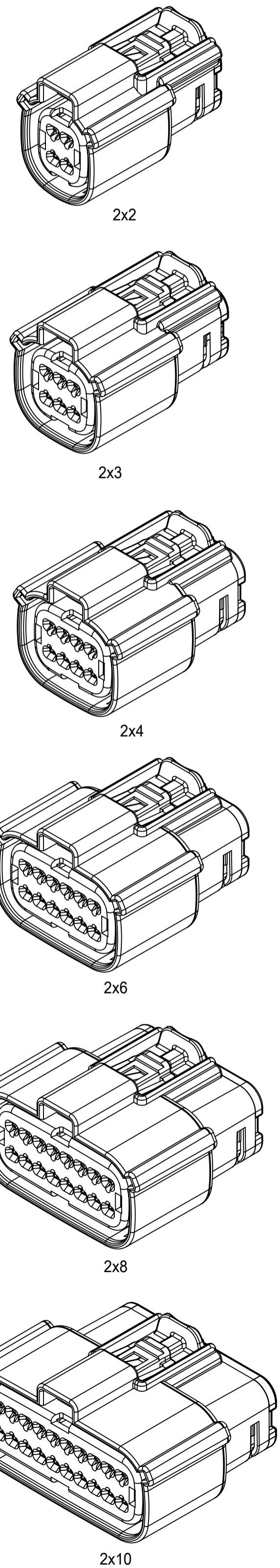
1. GENERAL:
- a. APPLICATION SPECIFICATION SEE: AS-33472-100
- CONTAINS: PRODUCT INTRODUCTION, PRODUCT SUMMARY, CONNECTOR ASSEMBLY, PACKAGING INFORMATION, CONNECTOR MATING, SERVICE INSTRUCTIONS, ELECTRICAL CONTINUITY CHECKING, CRIMPING, AND TROUBLESHOOTING.
  - DESIGNED TO MATE WITH DEVICE OR CONNECTOR 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 CONGRUATION
    - 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:
- PART NUMBER
  - DAY OF THE YEAR
  - SHIFT
  - 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 |

| MATING INTERFACE/CONNECTOR DRAWINGS |                      |               |
|-------------------------------------|----------------------|---------------|
| DESCRIPTION                         | INTERFACE DEFINITION | MOLEX INLINE  |
| 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 |



|     |   |
|-----|---|
| C2  | ADDED MOLEX BACKSHELL DETAILS   |
| C1  | ADDED 2X6-TRNS.-WITH/WITHOUT CLIPSLOT *   |
| C   | ADDED 2X10-STD.-WITH CLIPSLOT *   |
| B3  | ADD ROW FOR 2X6 V0 ON SHEET 5DIM3#<br>UPDATE TO 25.0 MAX FOR V0DIM11#<br>UPDATE TO 33.85 MAX FOR V0 |
| B2  | ADD 2X6 UL V0 CONFIGURATIONS  |
| B1  | UPDATE 2X6 W/O CLIPSLOT DIM G ON<br>TABLE OF SHEET 5  |
| B   | ADDED 2X2 - STD- WITH CLIPSLOT,<br>2X8 - STD- WITH CLIPSLOT<br>AND NOTE h                           |
| 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 2X6<br>MOLEX INLINE BLADE DRAWING                                    |
| A   | INITIAL RELEASE   |
| REV | REV DESCRIPTION   |

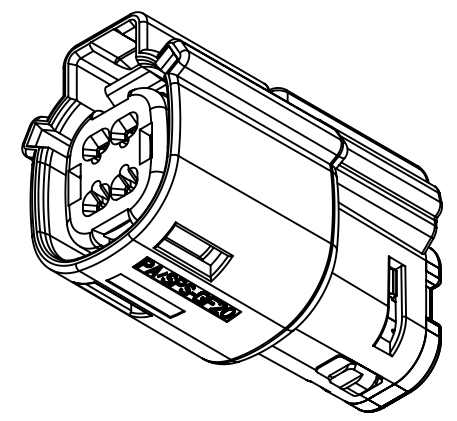
| INSPECTION NUMBER LOG |    |
|-----------------------|----|
| LAST NUMBER:          | 11 |
| ADDED:                | 11 |
| REMOVED:              |    |

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

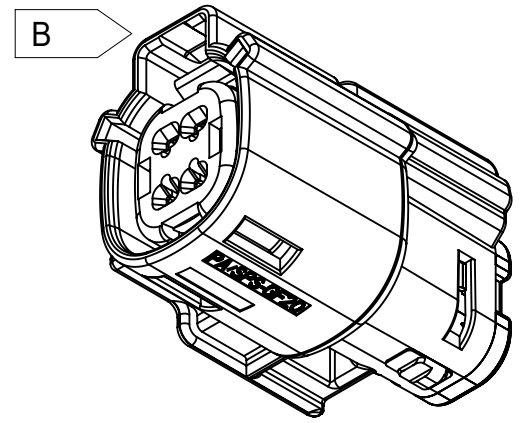
| DOCUMENT STATUS | RELEASE DATE | 2018/02/16 | 22:02:25 |
|-----------------|--------------|------------|----------|
| P1              |              |            |          |

# SHEET DESCRIPTION

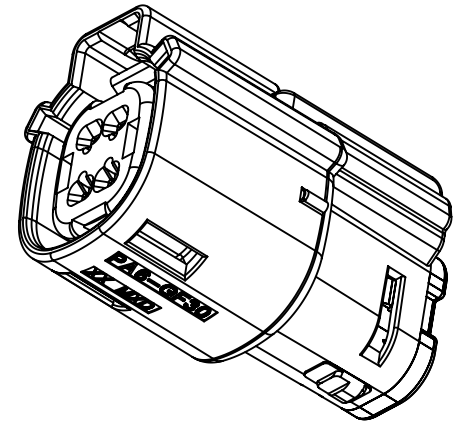
## CONFIGURATIONS



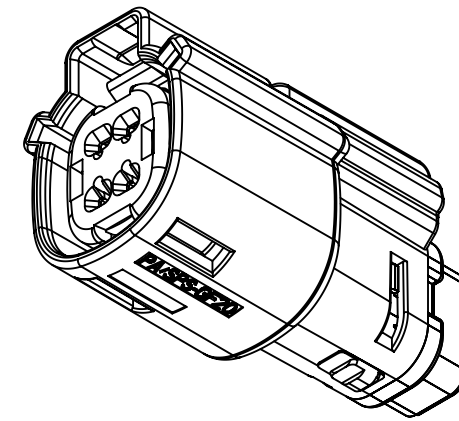
2X2 - STD.  
2X2 - TRNS. - SILICONE FREE †



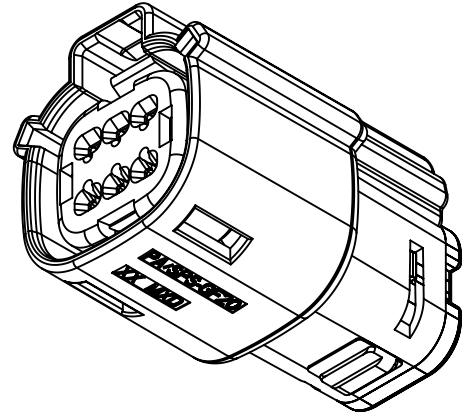
2X2 - STD. - WITH CLIPSLOT \*



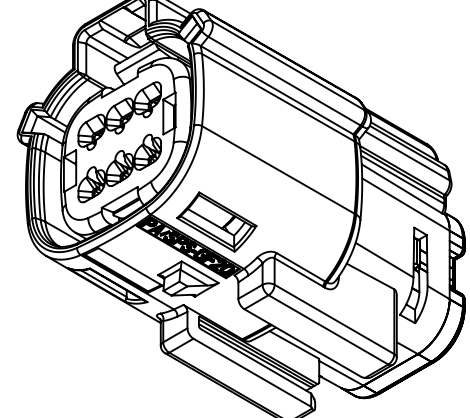
† 2X2 - UL V0



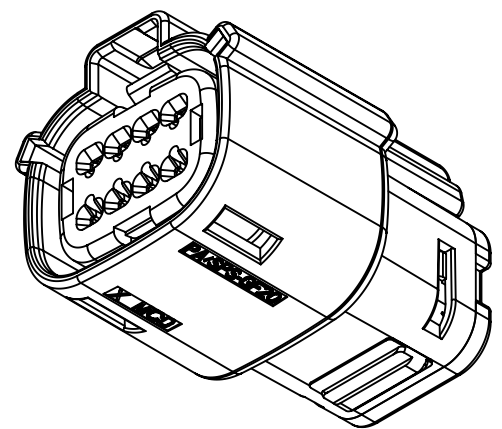
2X2 - STD. - LENGTHENED



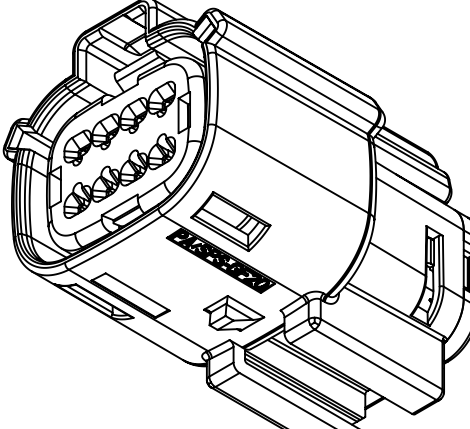
2X3 - STD.  
2X3 - TRNS. - CONTAINS SILICONE †



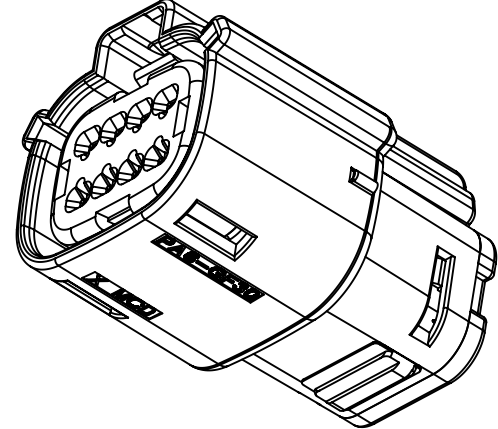
2X3 - STD. - WITH CLIPSLOT \*



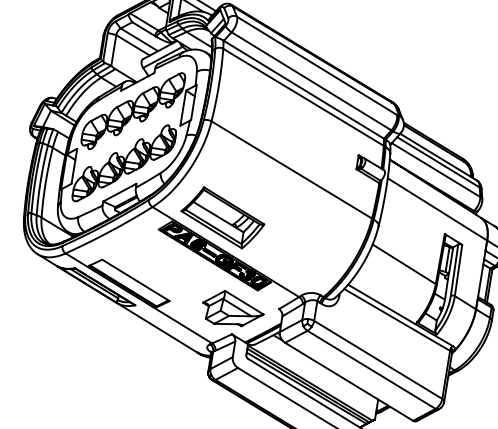
2X4 - STD.



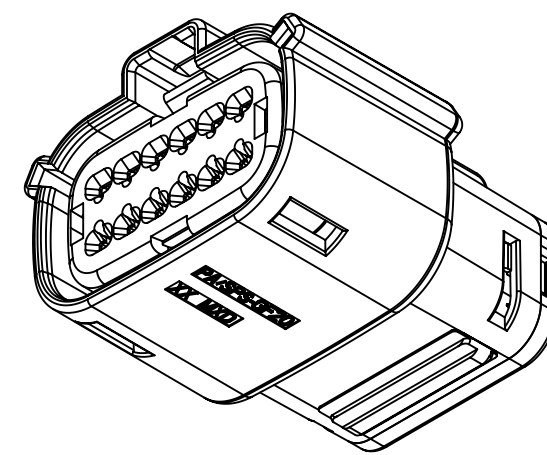
2X4 - STD. - WITH CLIPSLOT \*



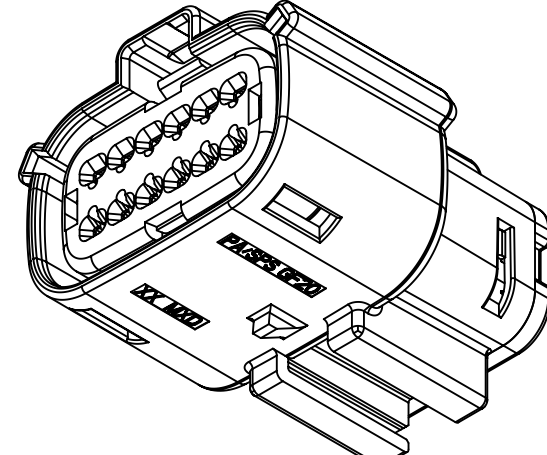
† 2X4 - UL V0



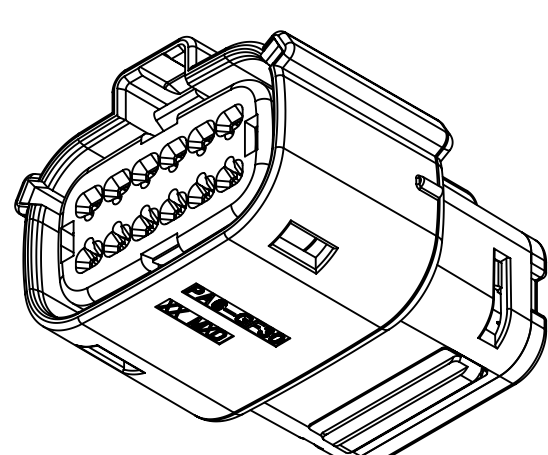
† 2X4 - UL V0-WITH CLIPSLOT\*



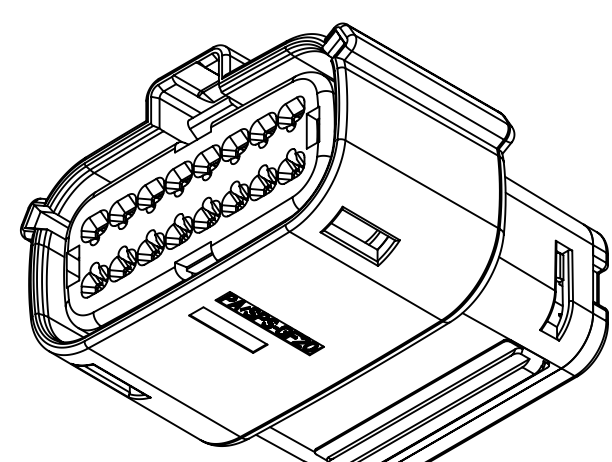
2X6 - STD.  
C1 † 2X6 - TRNS.



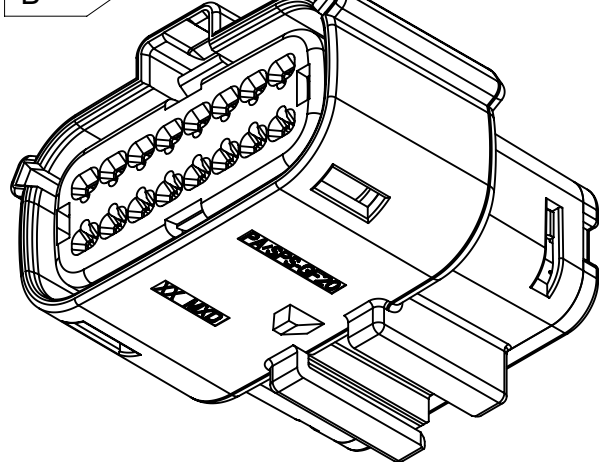
2X6 - STD. - WITH CLIPSLOT \*  
C1 † 2X6 - TRNS. - WITH CLIPSLOT \*



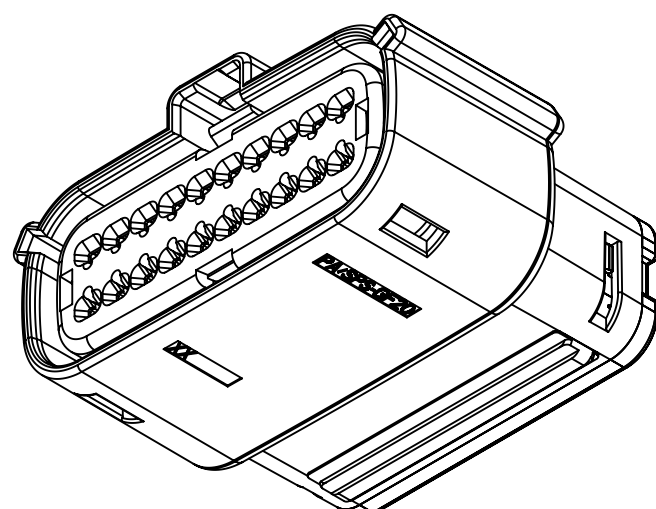
† 2X6 - UL V0



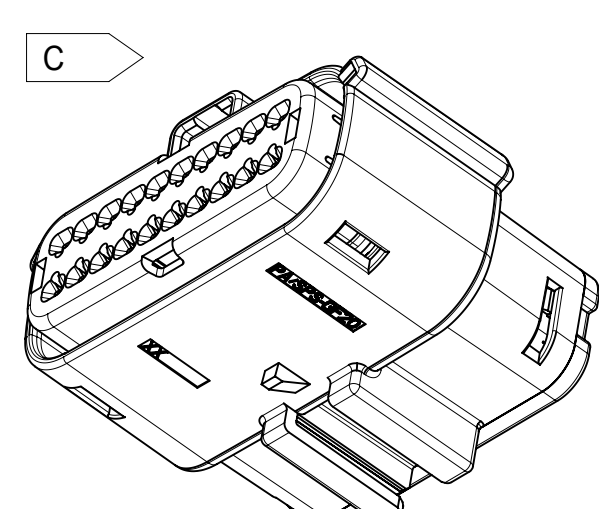
2X8 - STD.



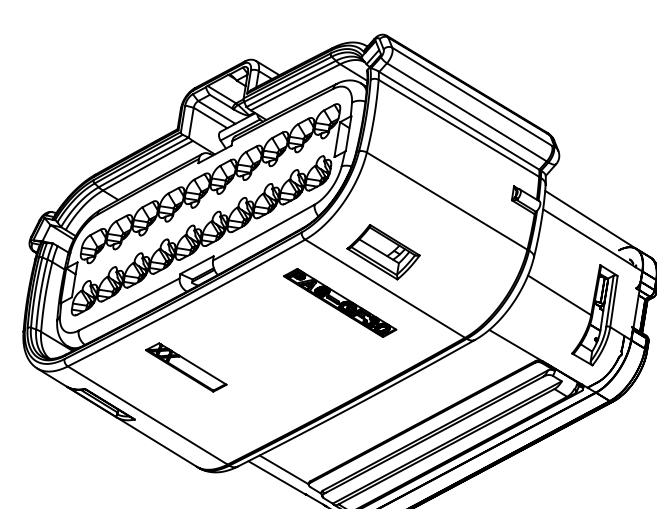
2X8 - STD. - WITH CLIPSLOT \*



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

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

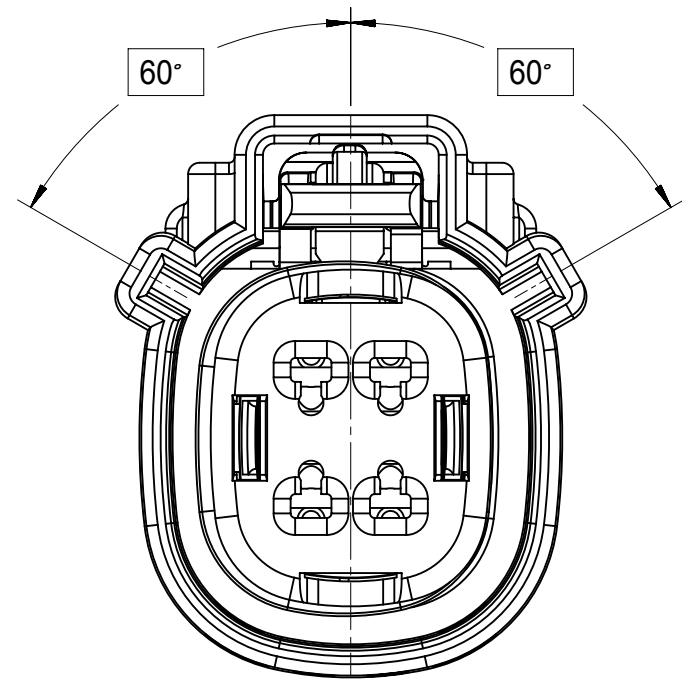
# SHEET DESCRIPTION

KEY CONFIGURATIONS

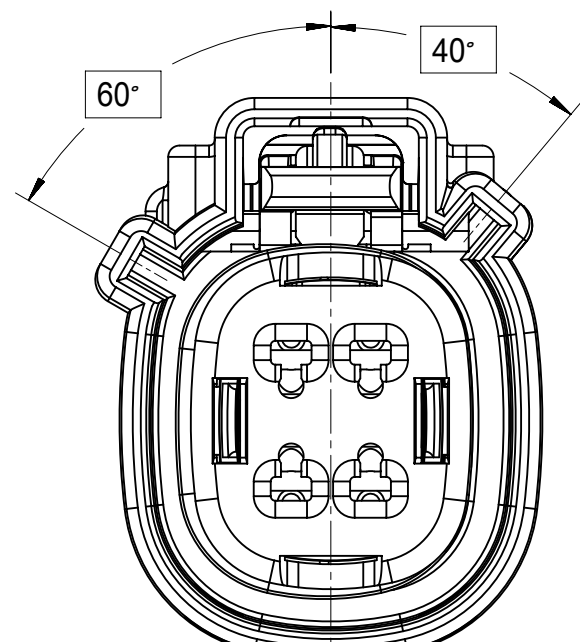
2X2

2X3

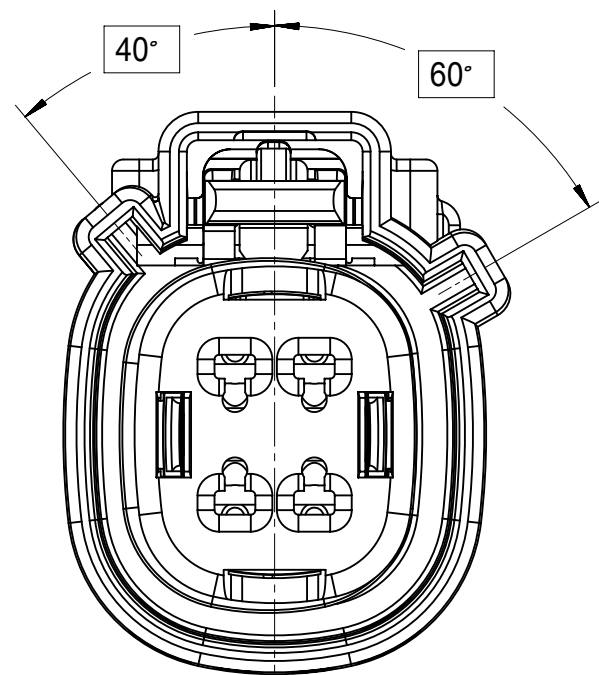
2X4



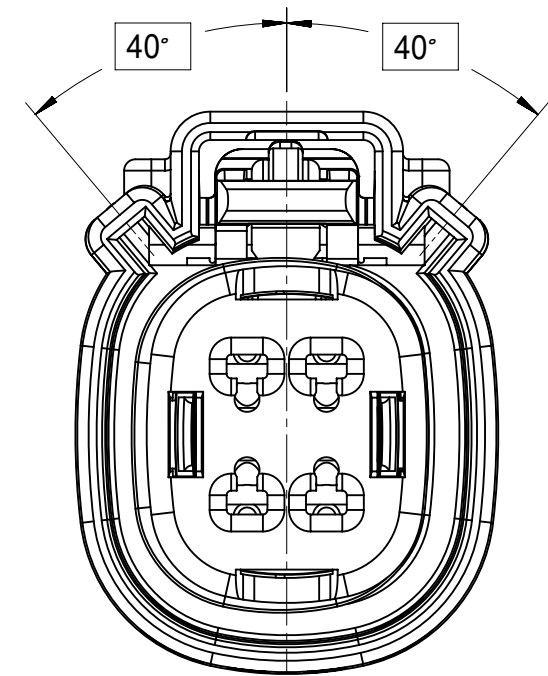
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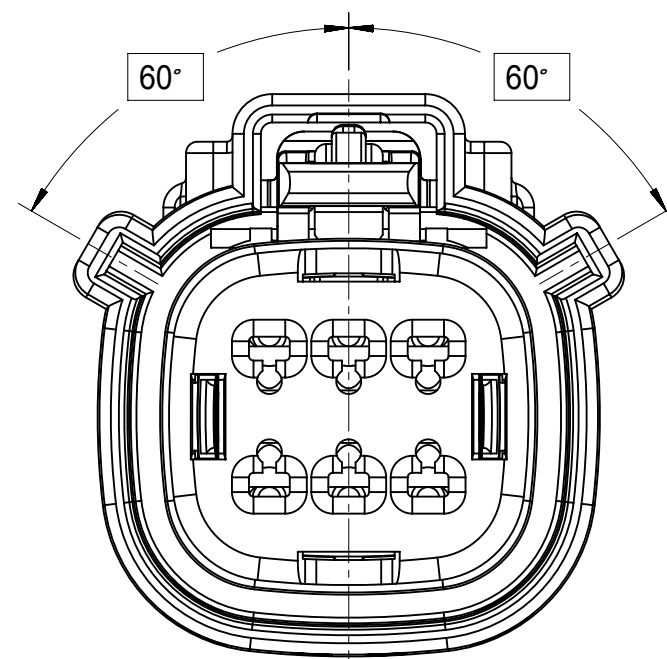
KEY B



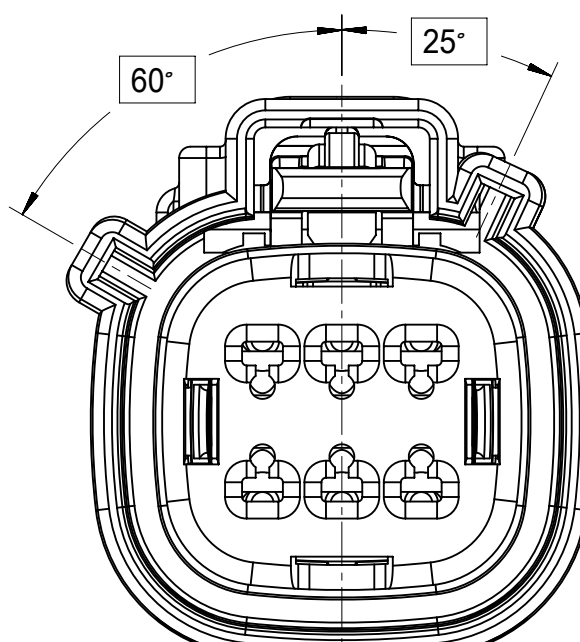
KEY C



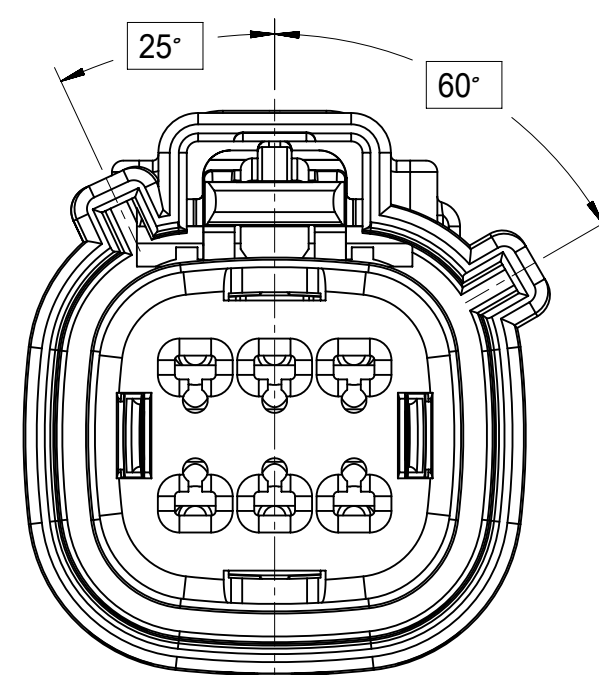
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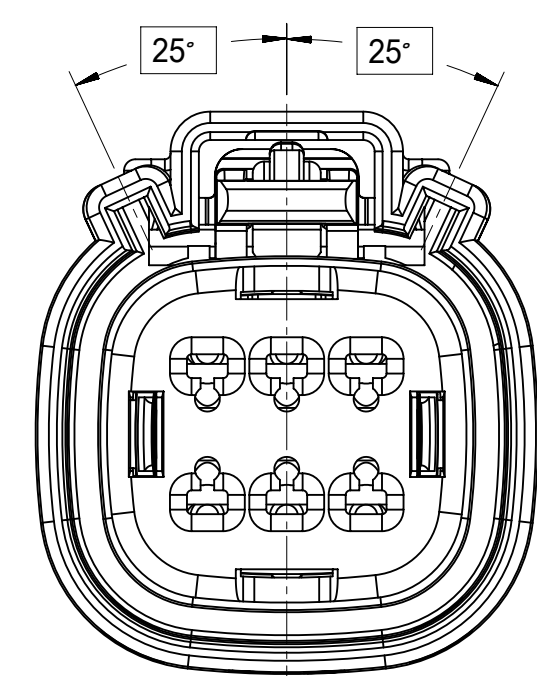
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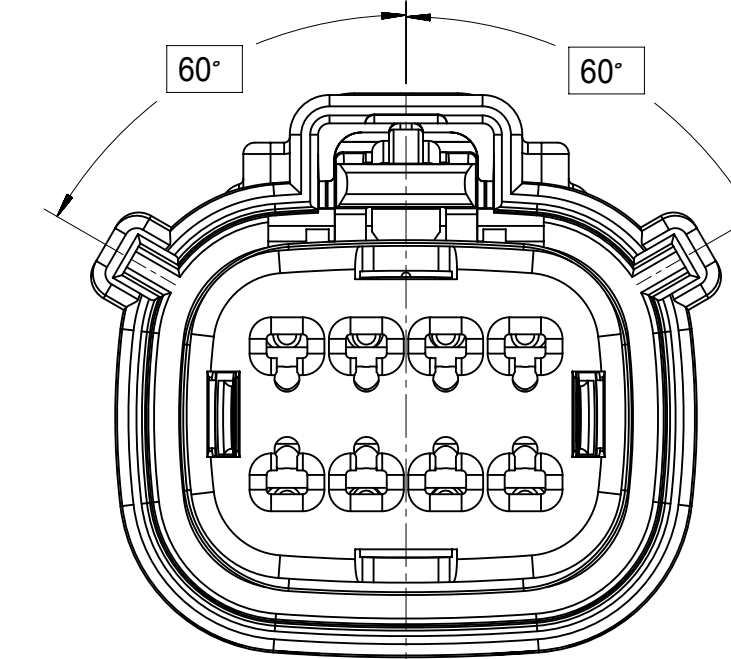
KEY B



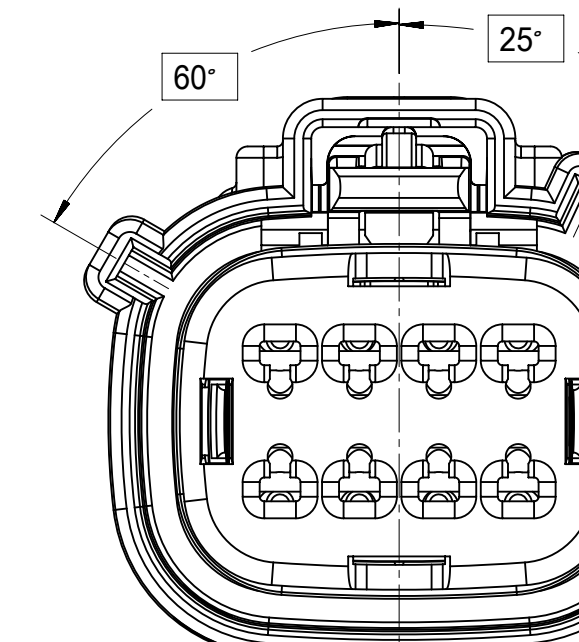
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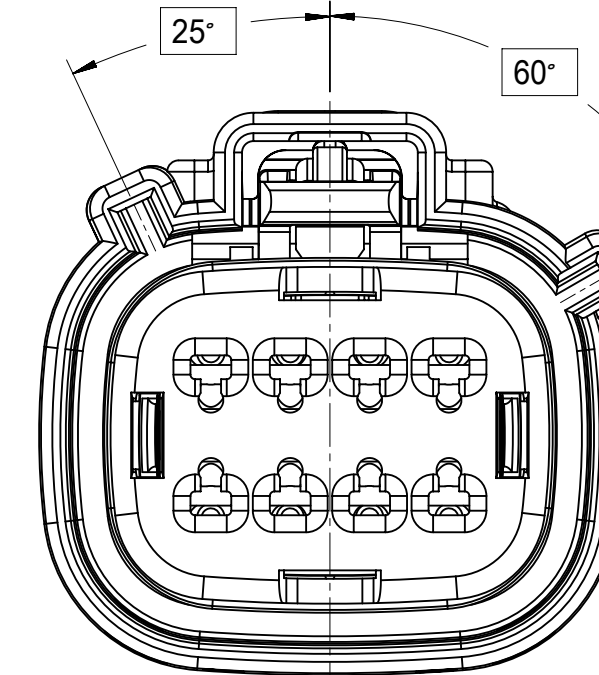
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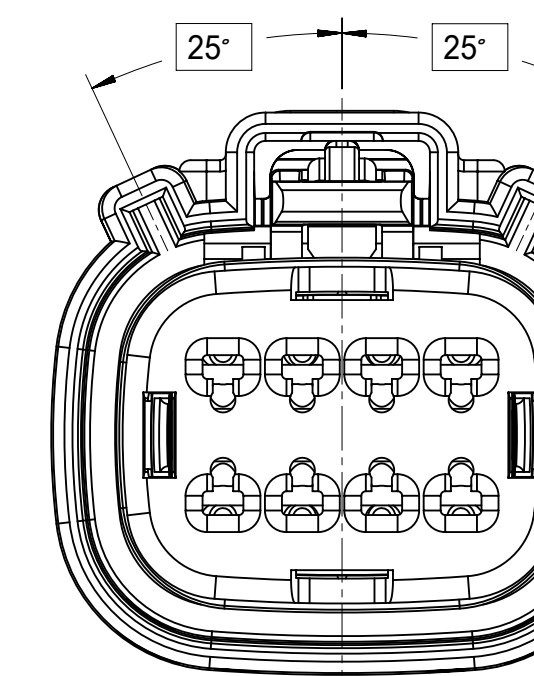
KEY A



KEY B



KEY C



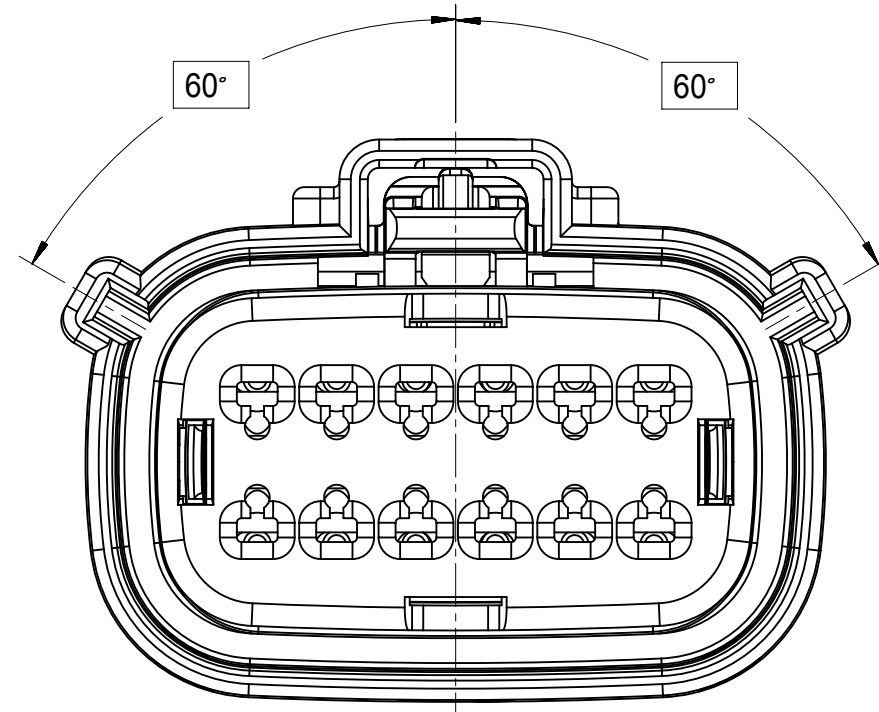
KEY D

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

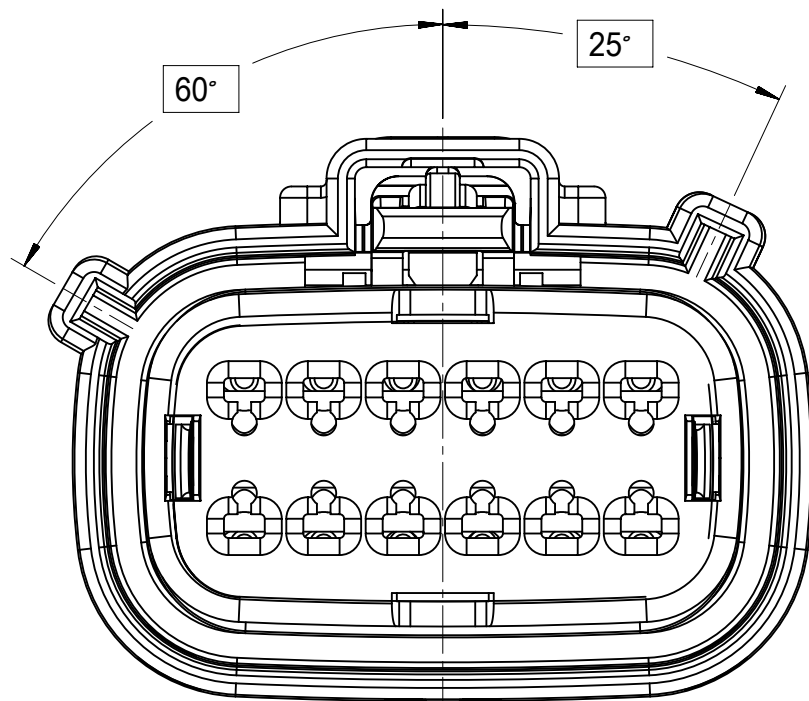
# SHEET DESCRIPTION

KEY CONFIGURATIONS CONT.

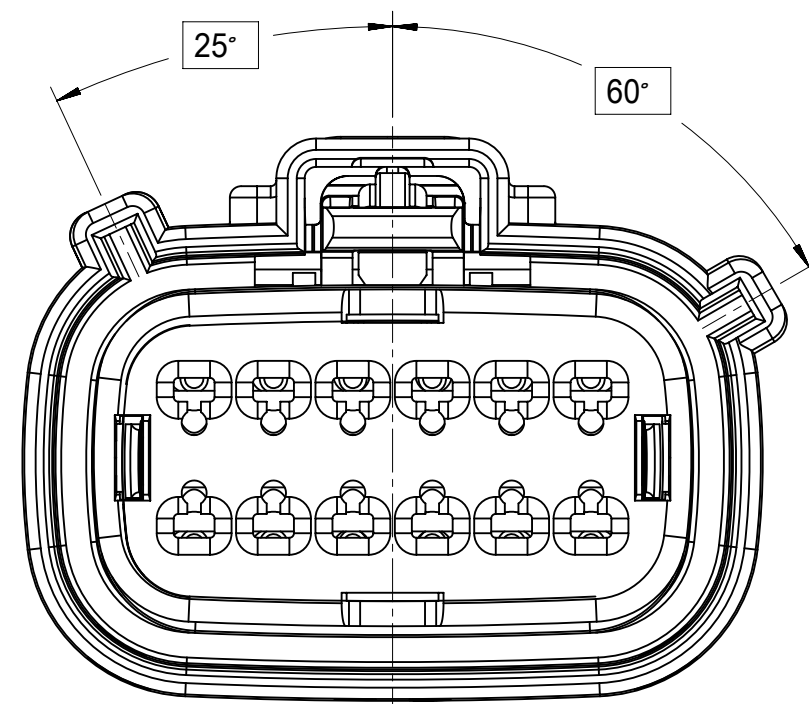
## 2X6



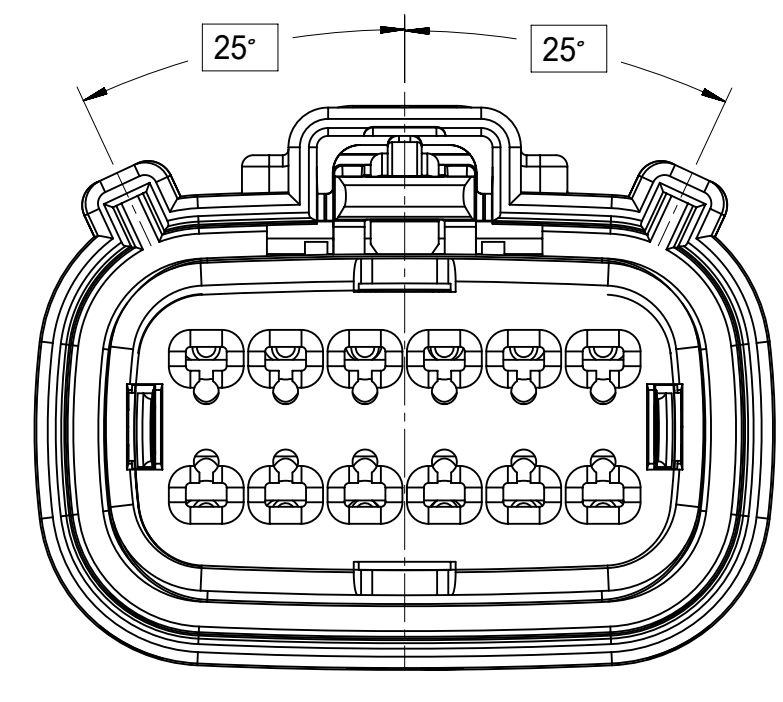
KEY A



KEY B

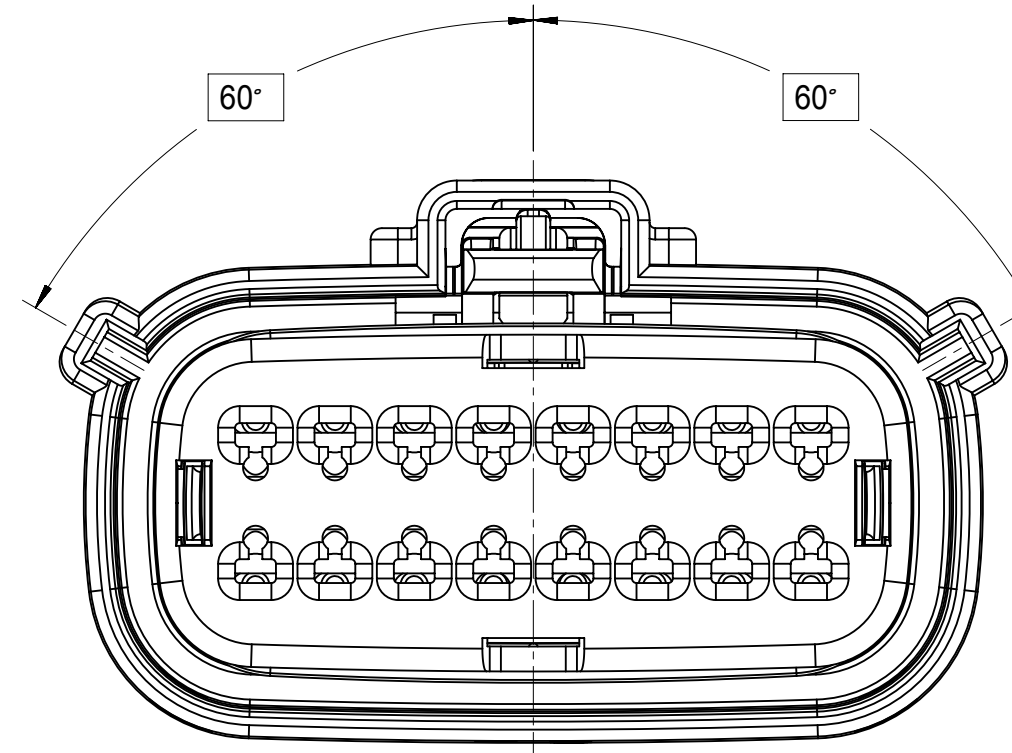


KEY C

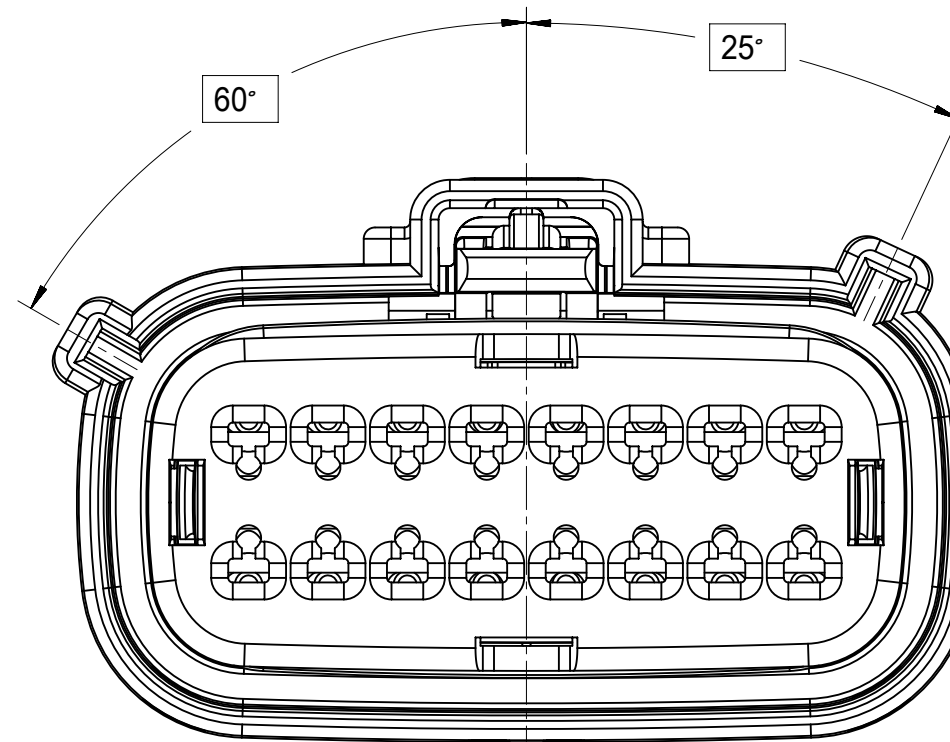


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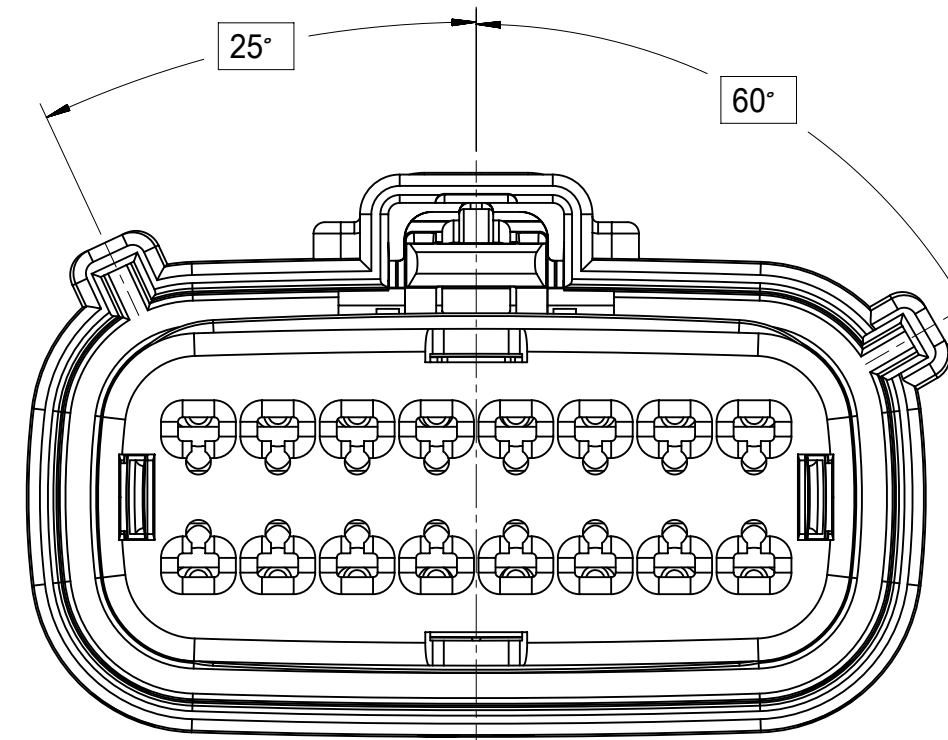
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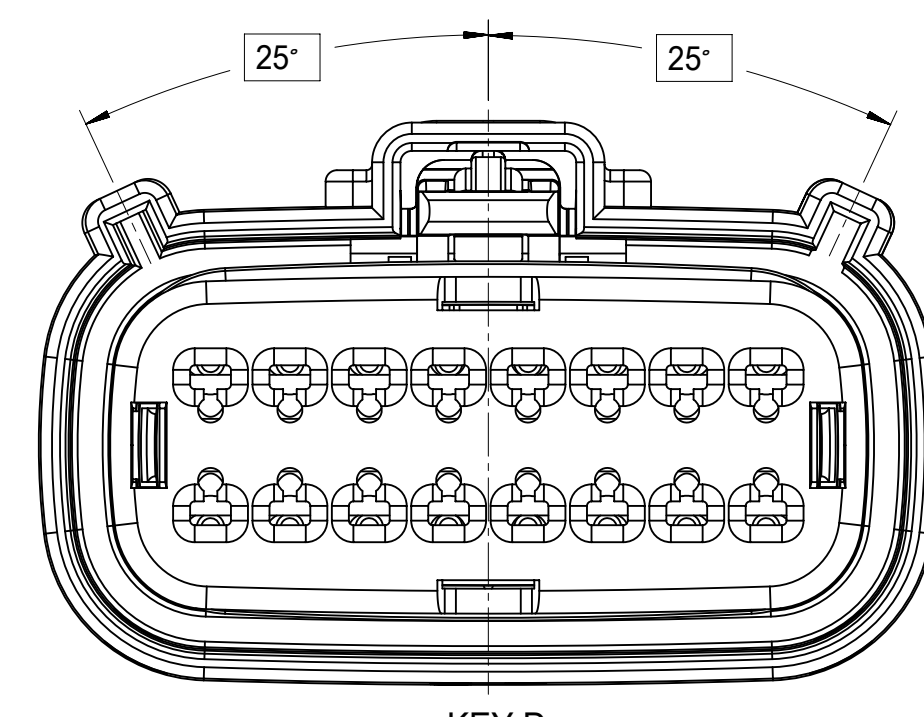
KEY A



KEY B

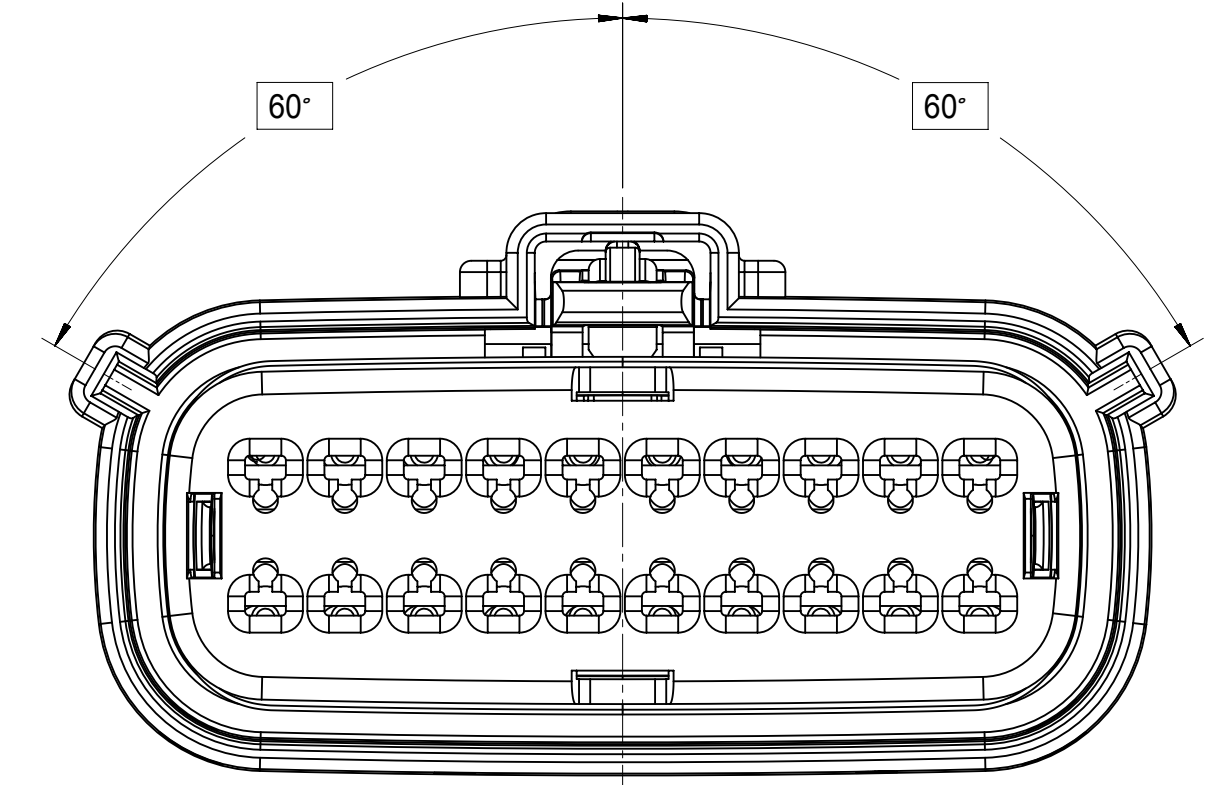


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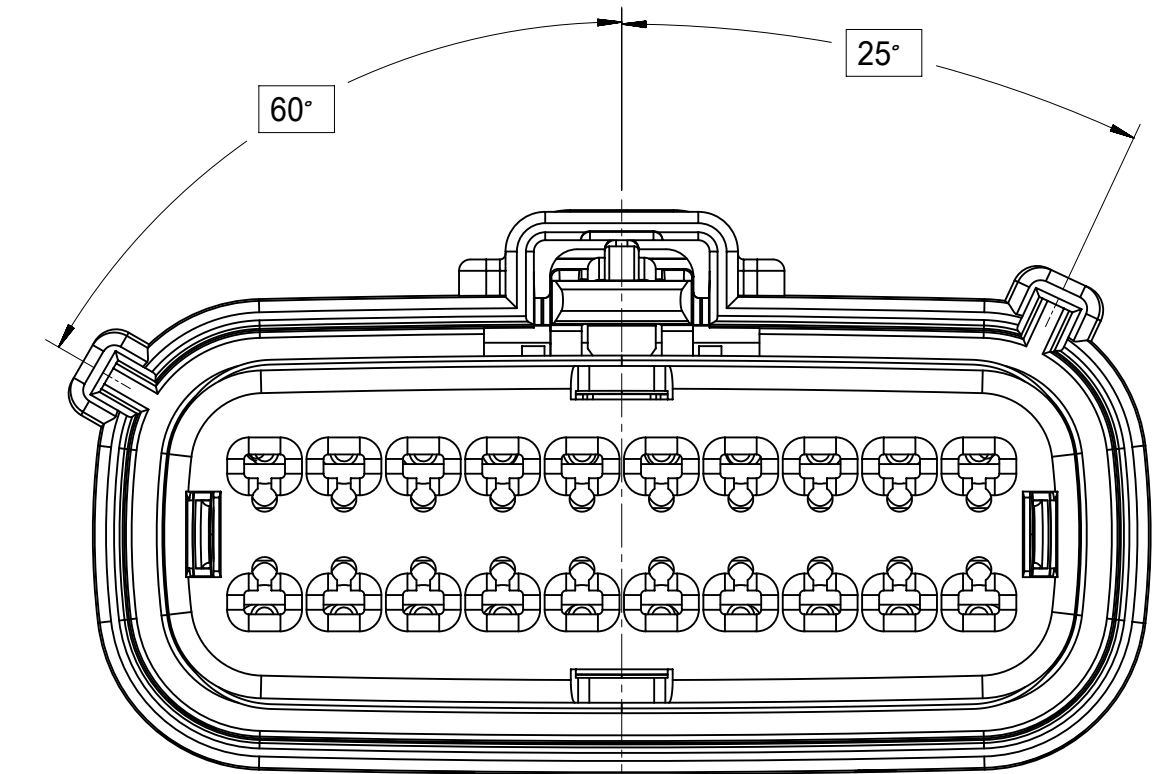


KEY D

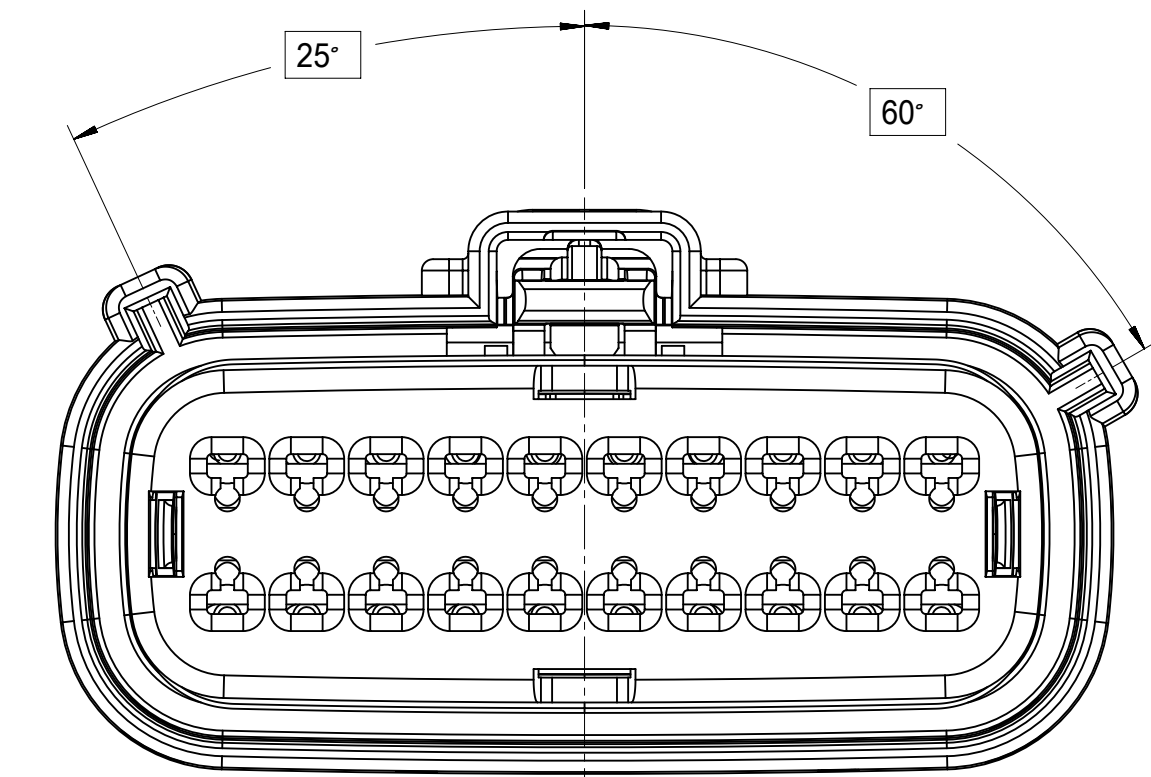
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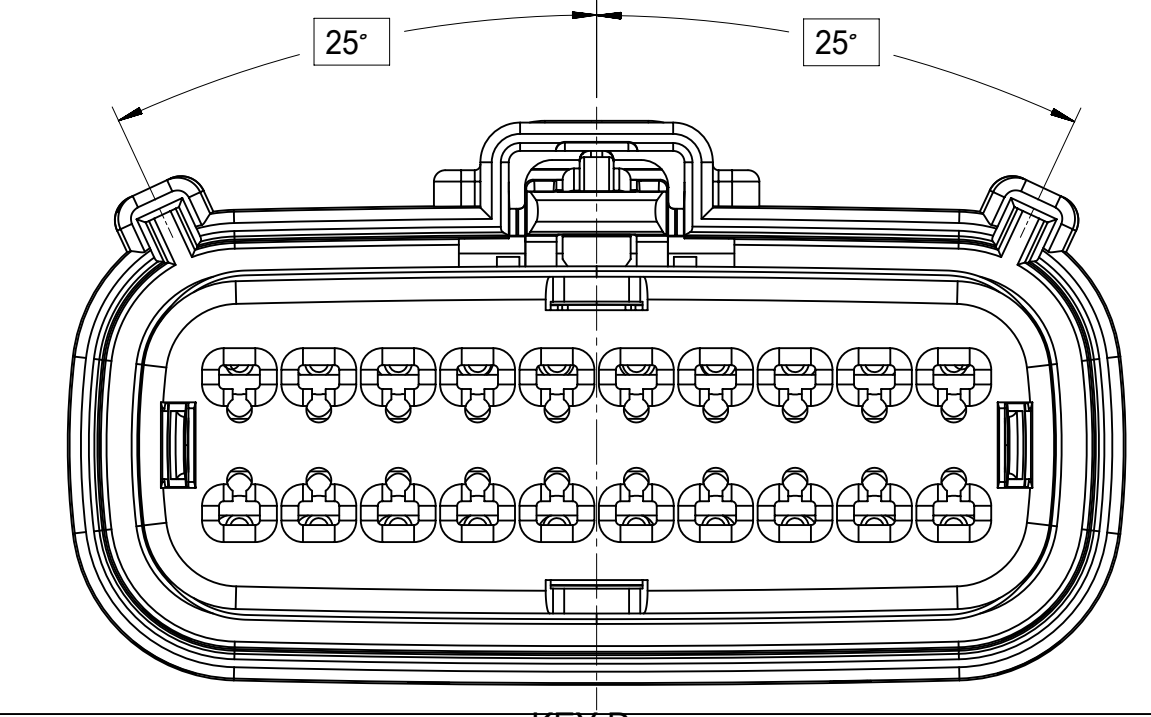
KEY A



KEY B



KEY C



KEY D

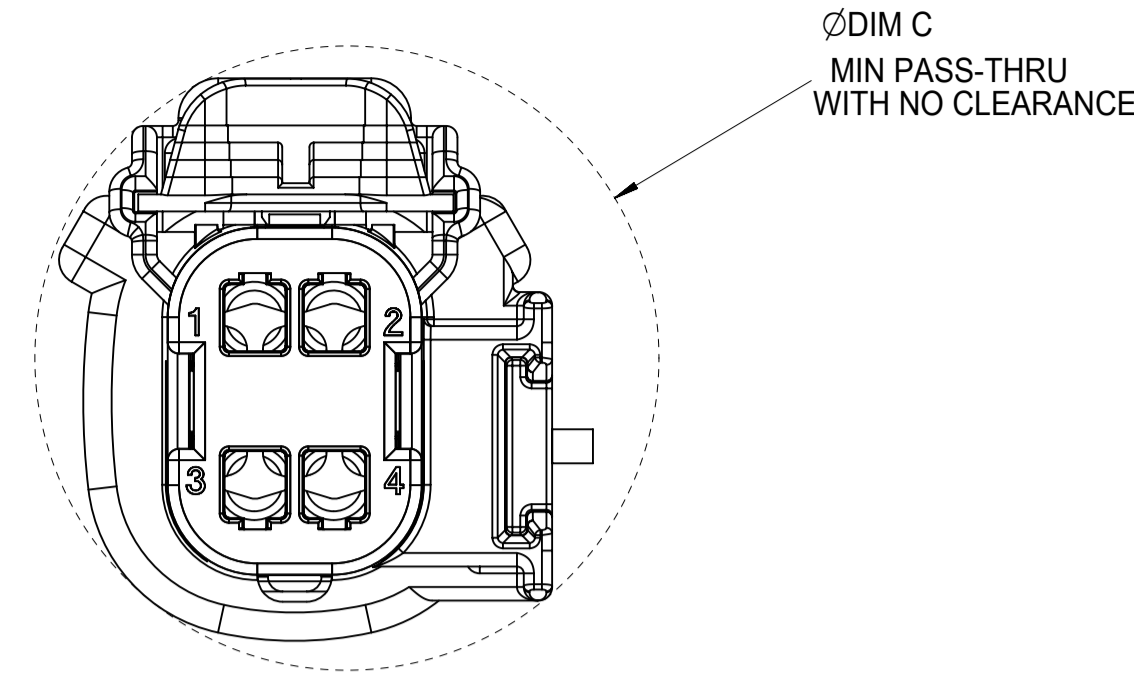
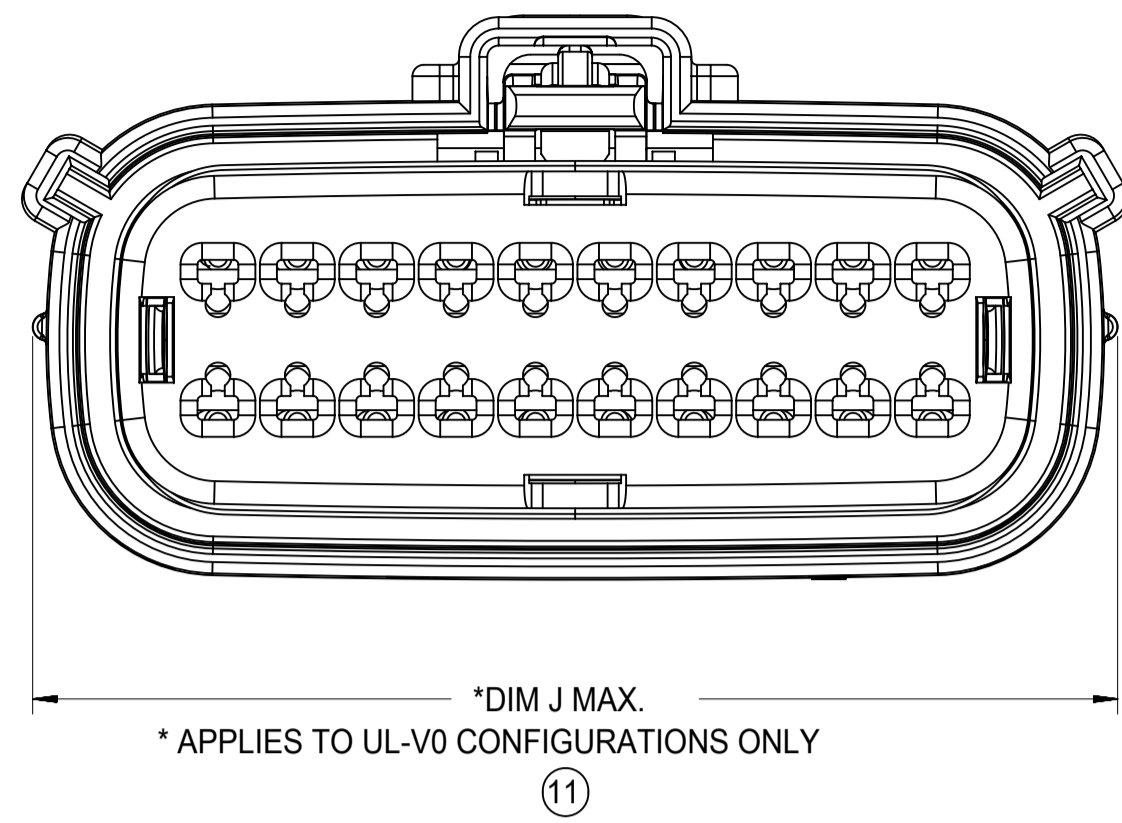
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|--|---|--|
| <b>SYMBOLS</b><br>= 0<br>= 0<br>= 0<br>= 0<br>= 0<br>= 0<br>= 0<br>= 0<br>= 0<br>= 0   | THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX ELECTRONIC TECHNOLOGIES, LLC AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION | 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

# SHEET DESCRIPTION

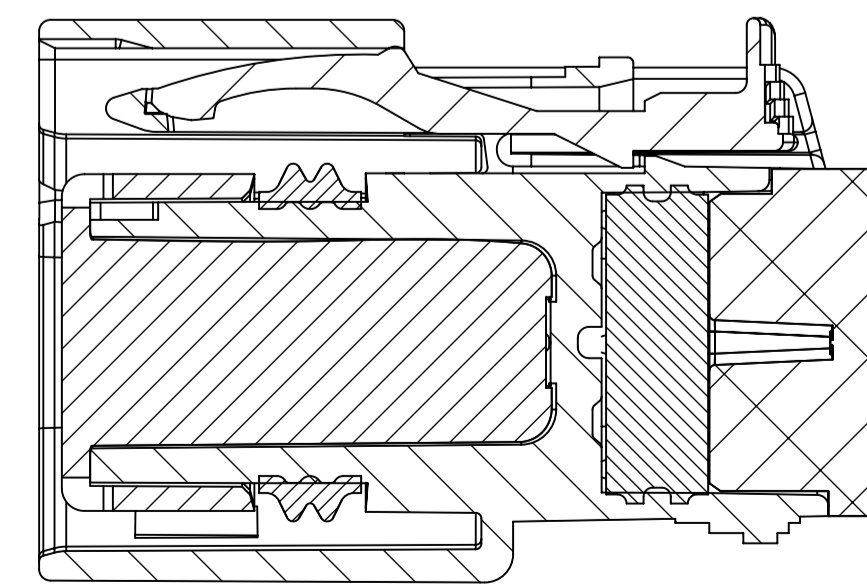
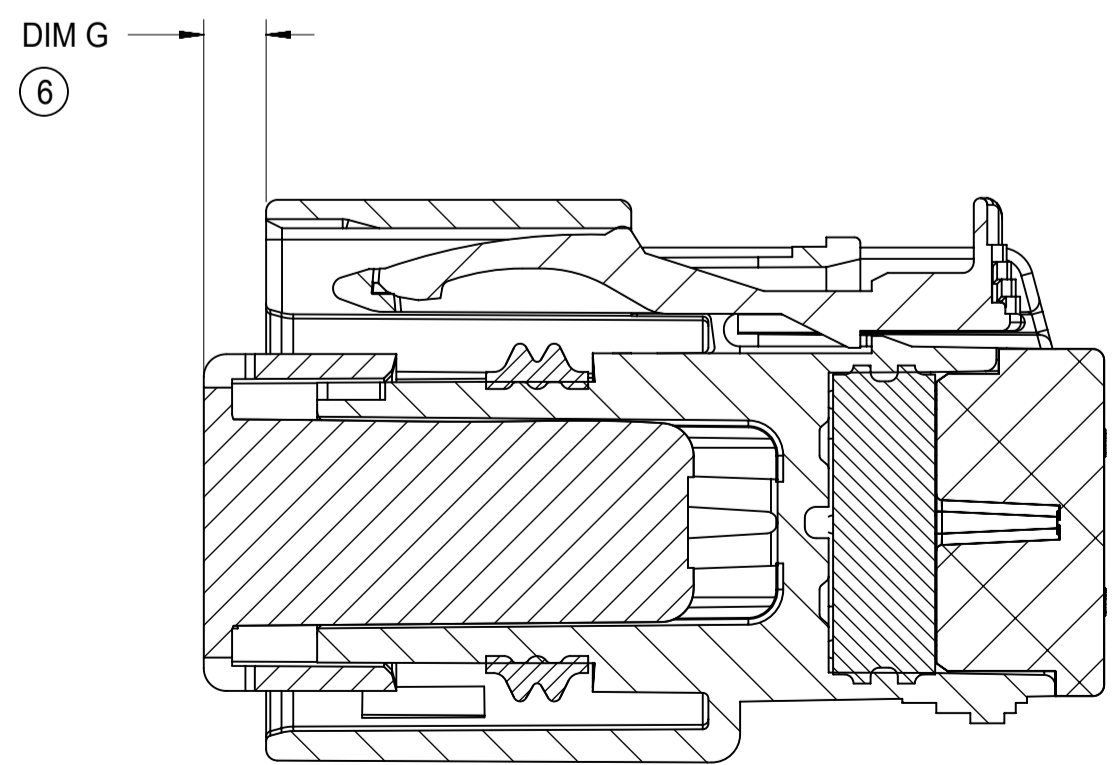
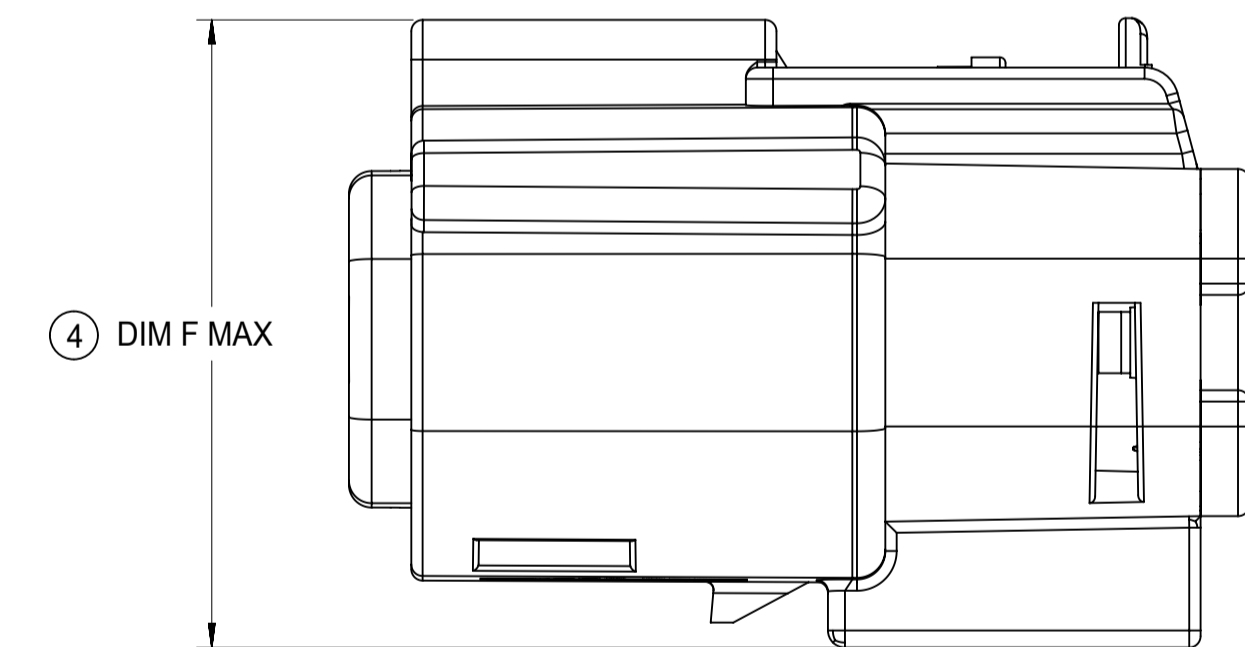
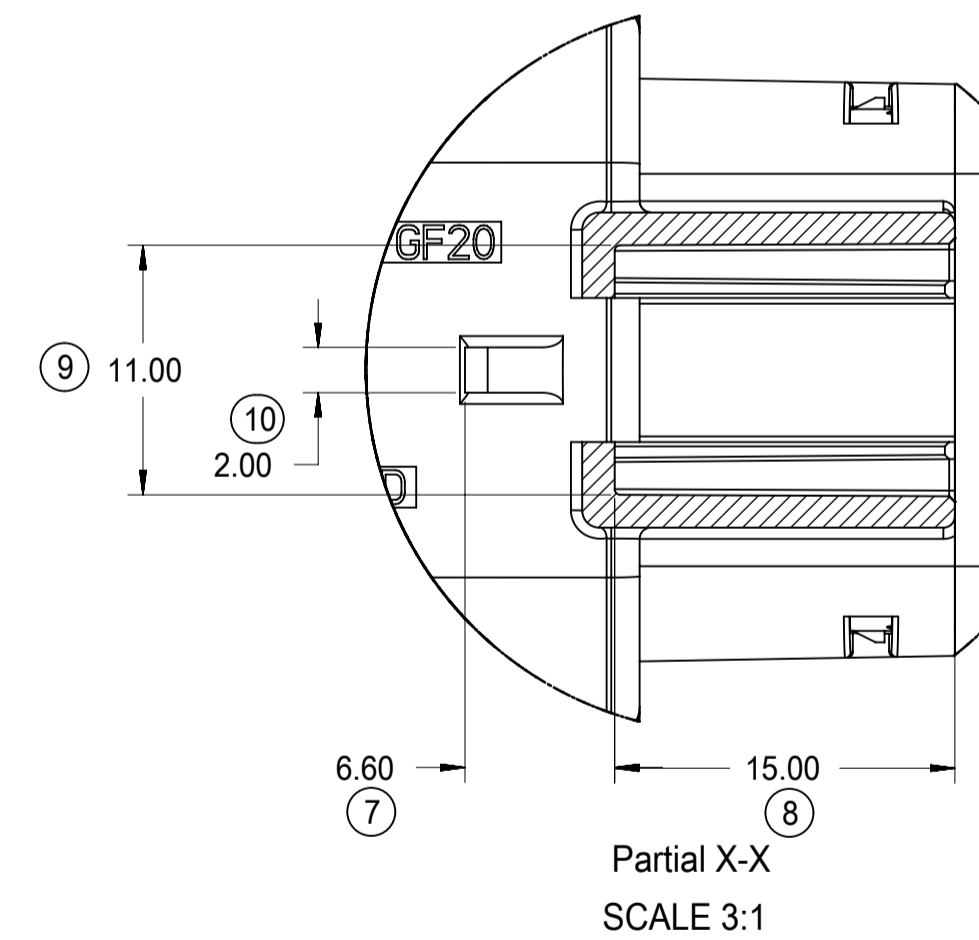
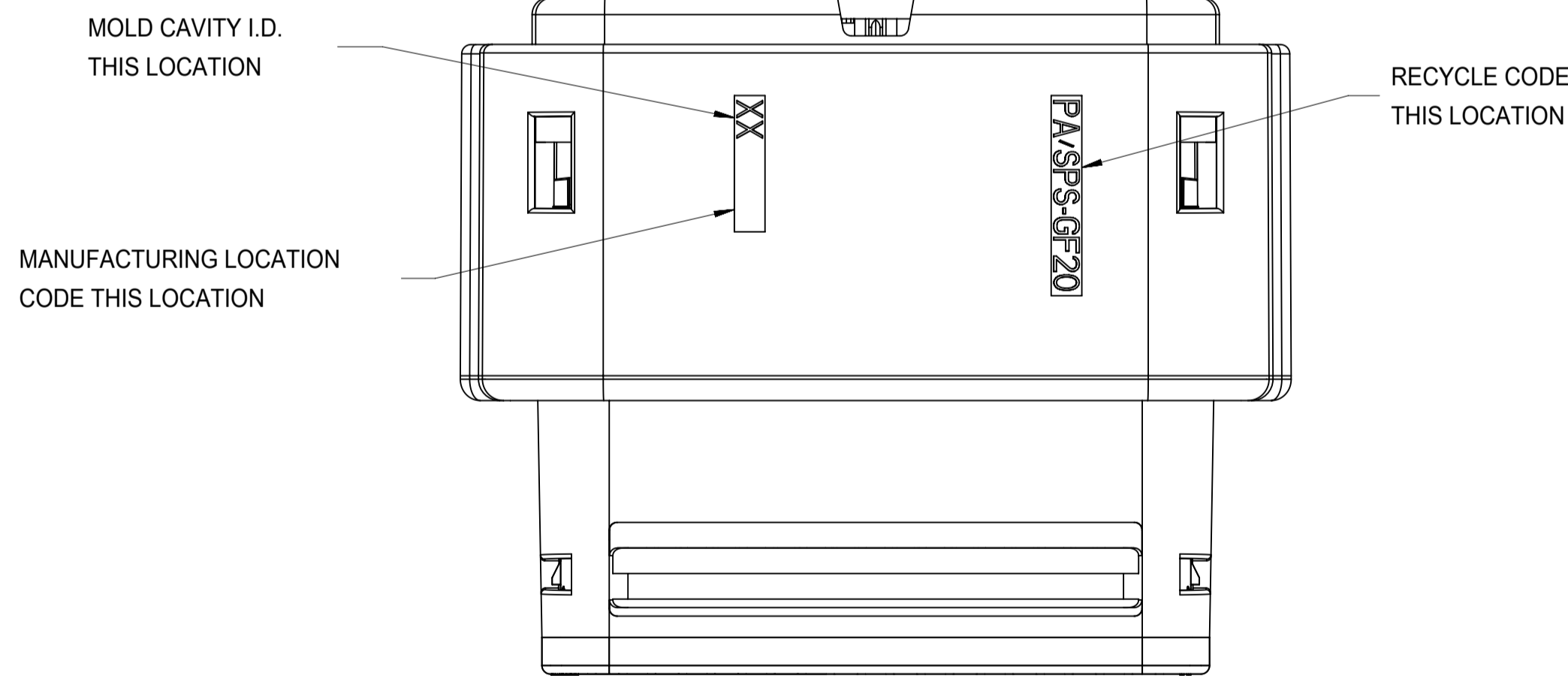
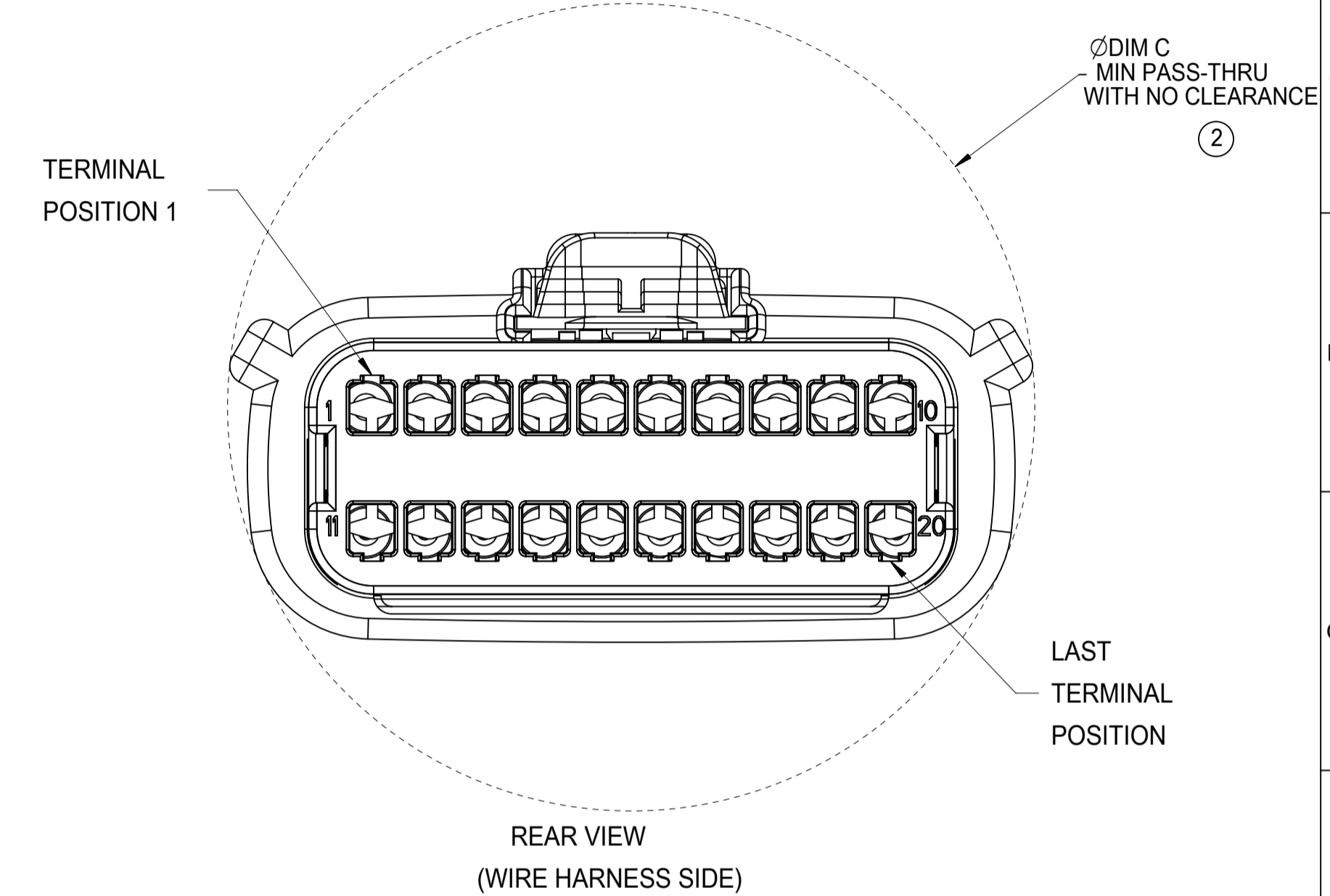
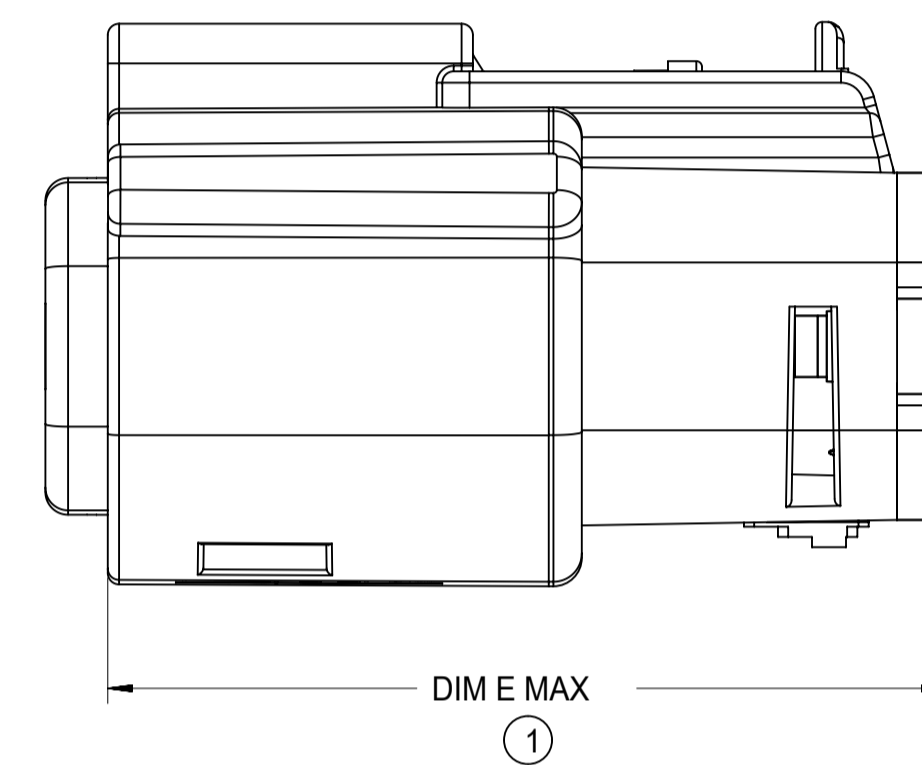
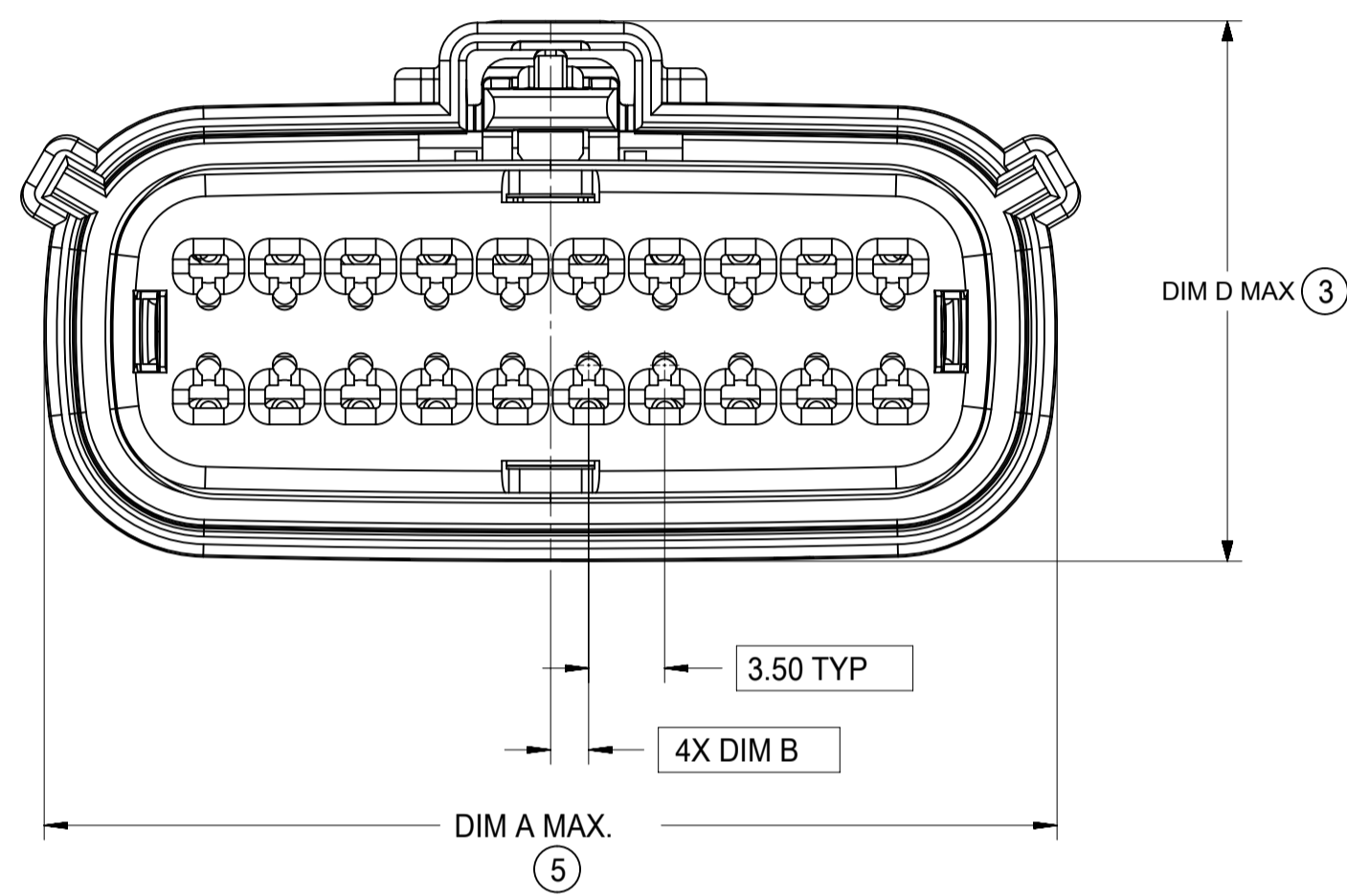
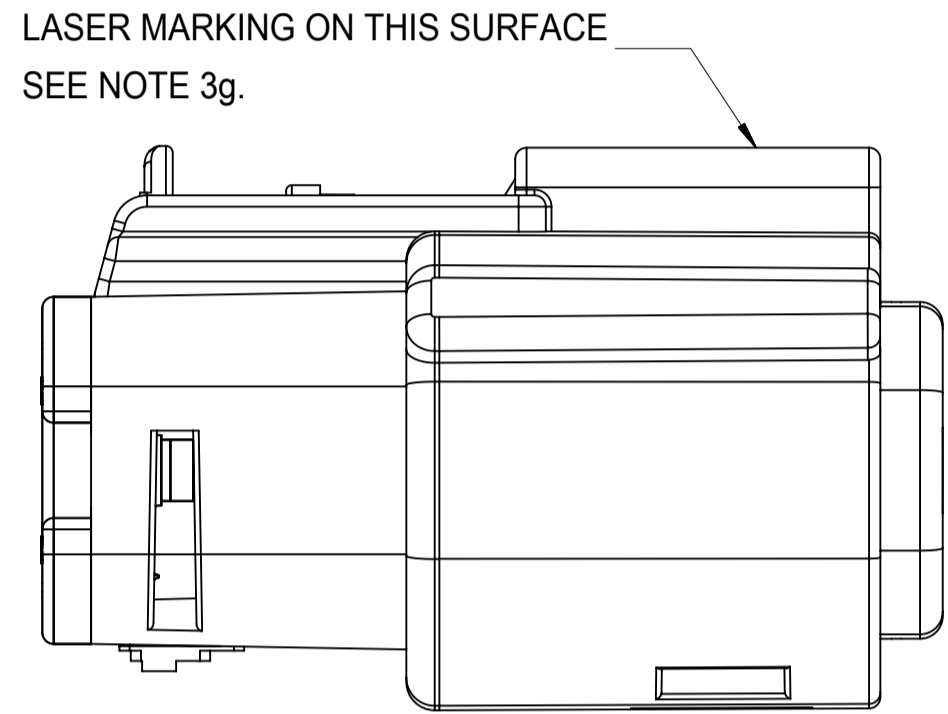
RECEPTACLE CONNECTOR ASSEMBLY

# CHARTED DIMENSIONS

| DESCRIPTION         | DIMENSIONS |      |       |       |       |       |           |
|---------------------|------------|------|-------|-------|-------|-------|-----------|
|                     | A          | B    | C     | D     | E     | F     | 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 |
| 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 |
| 2X4 W/O CLIPSLOT    | 25.75      | 1.75 | 29.19 | 24.81 | 37.65 | N/A   | 2.75±0.50 |
| 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 |
| 2X6 W/O CLIPSLOT V0 | 32.75      | 1.75 | 35.58 | 25.0  | 37.65 | N/A   | 2.75±0.50 |
| 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 |
| 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



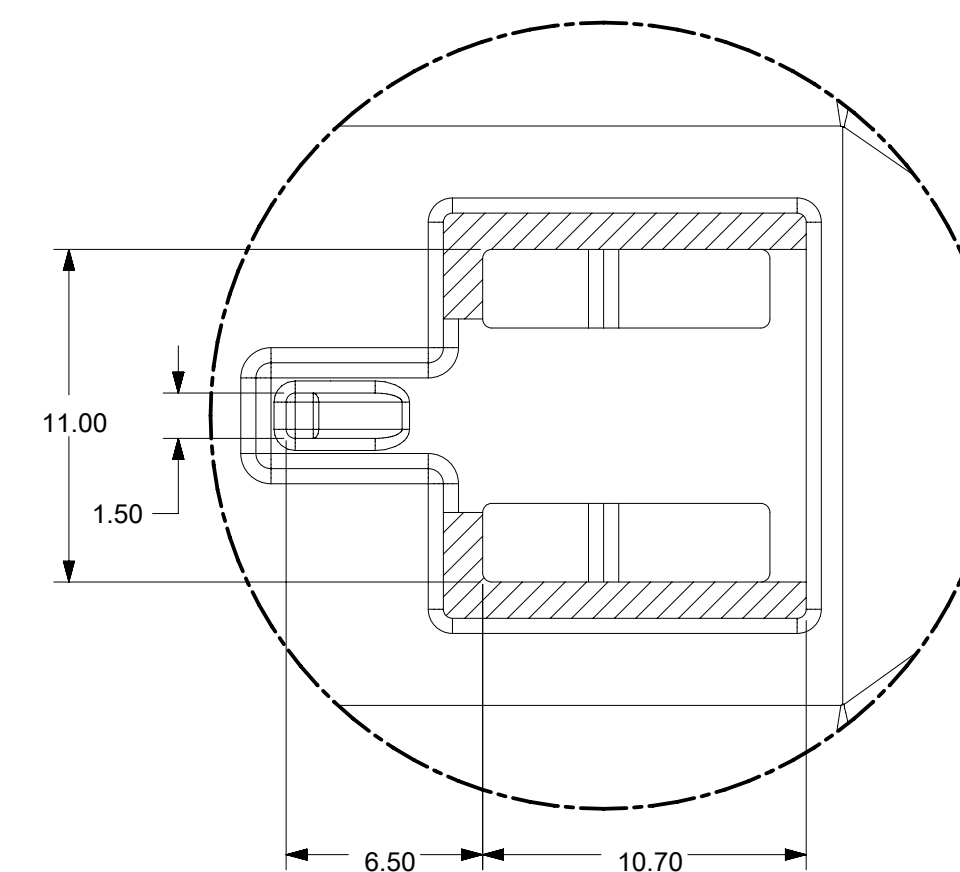
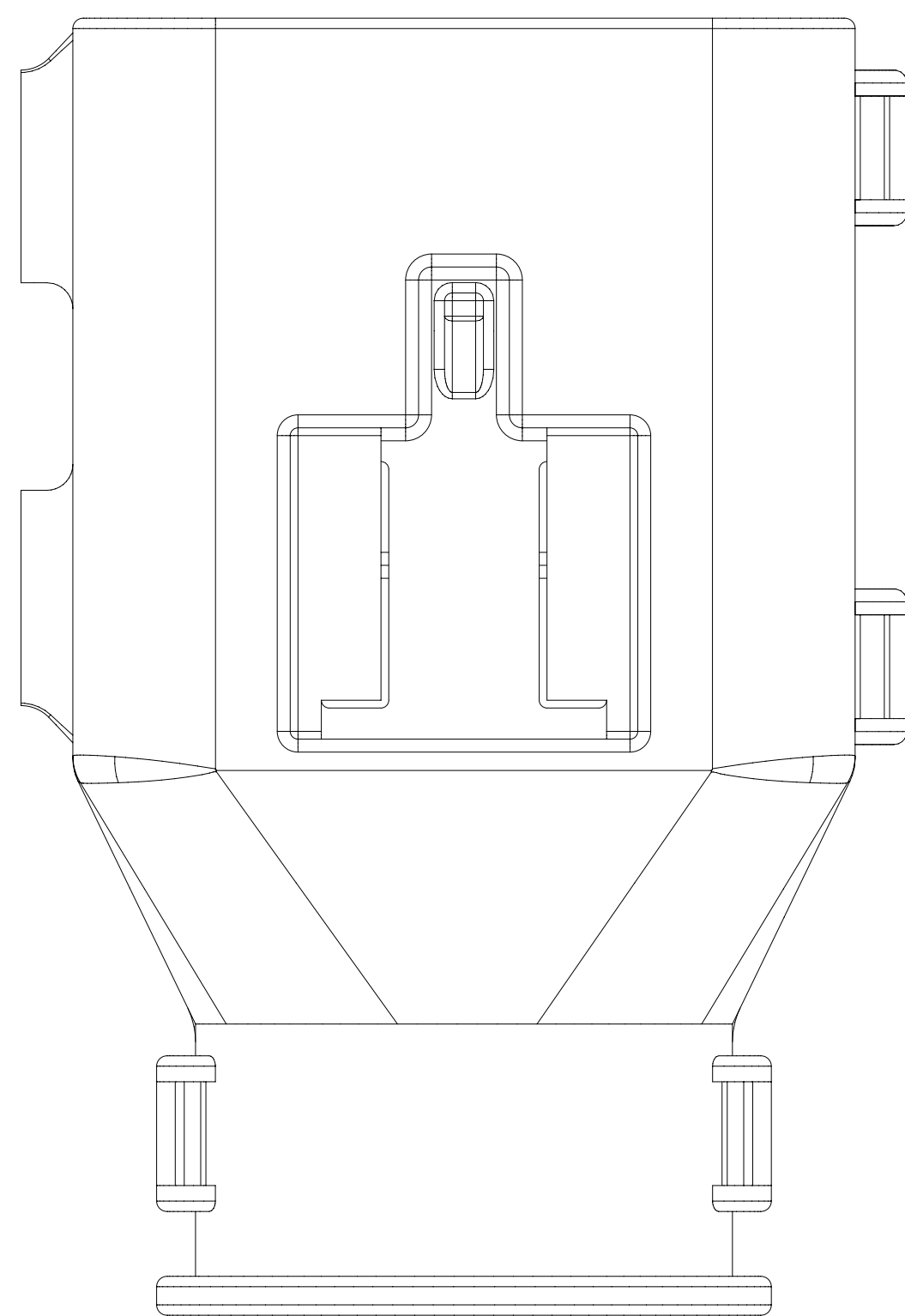
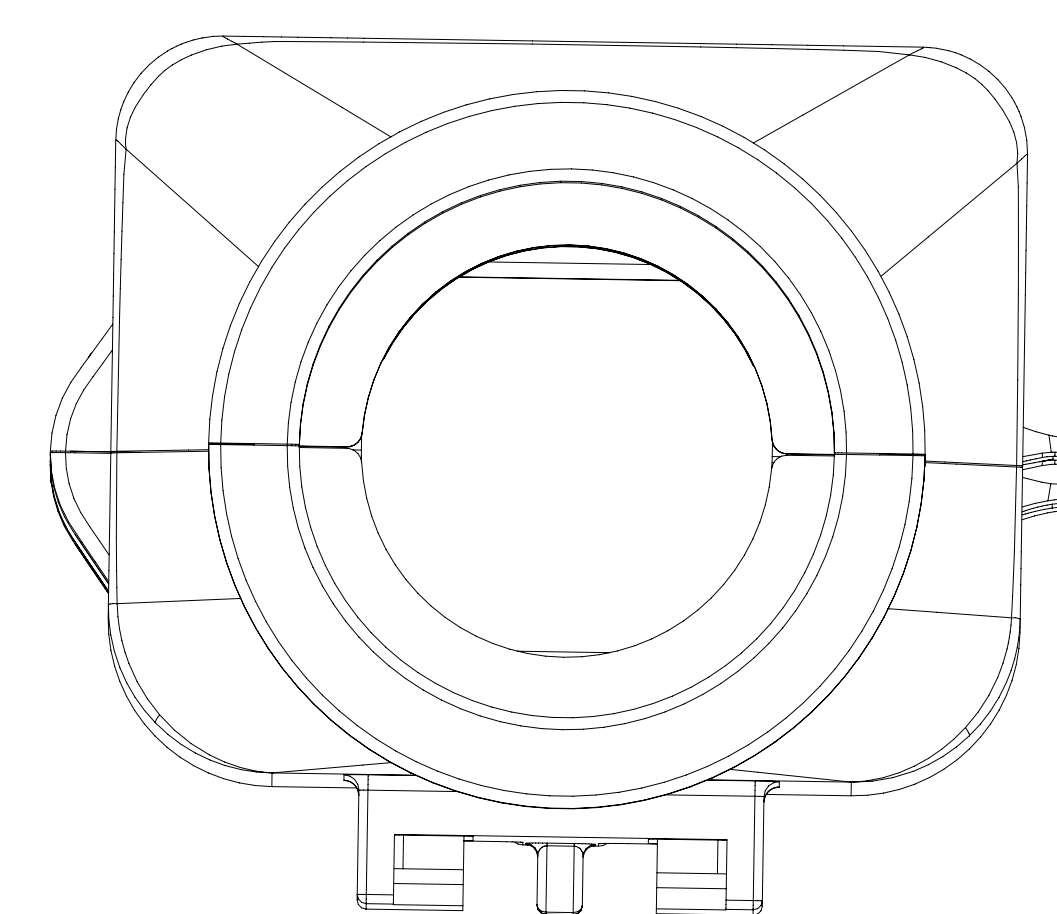
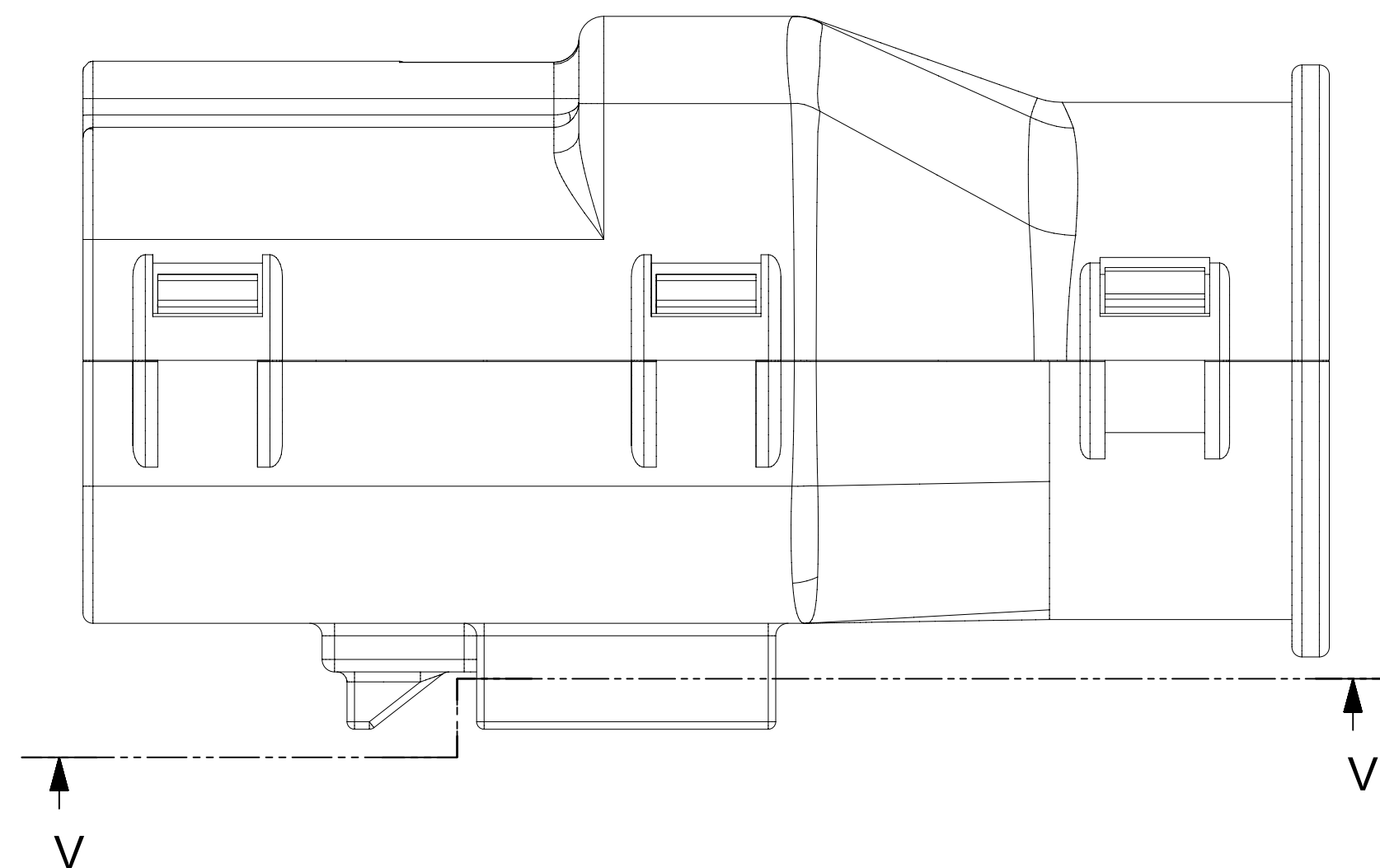
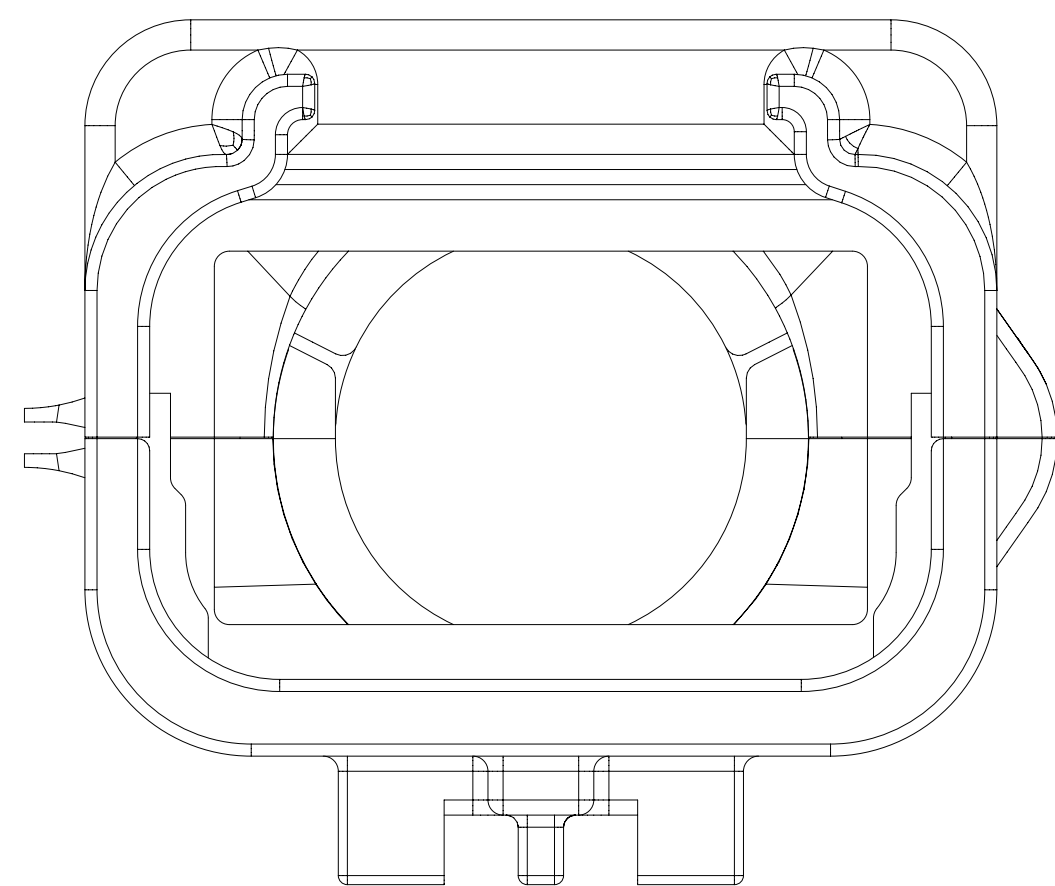
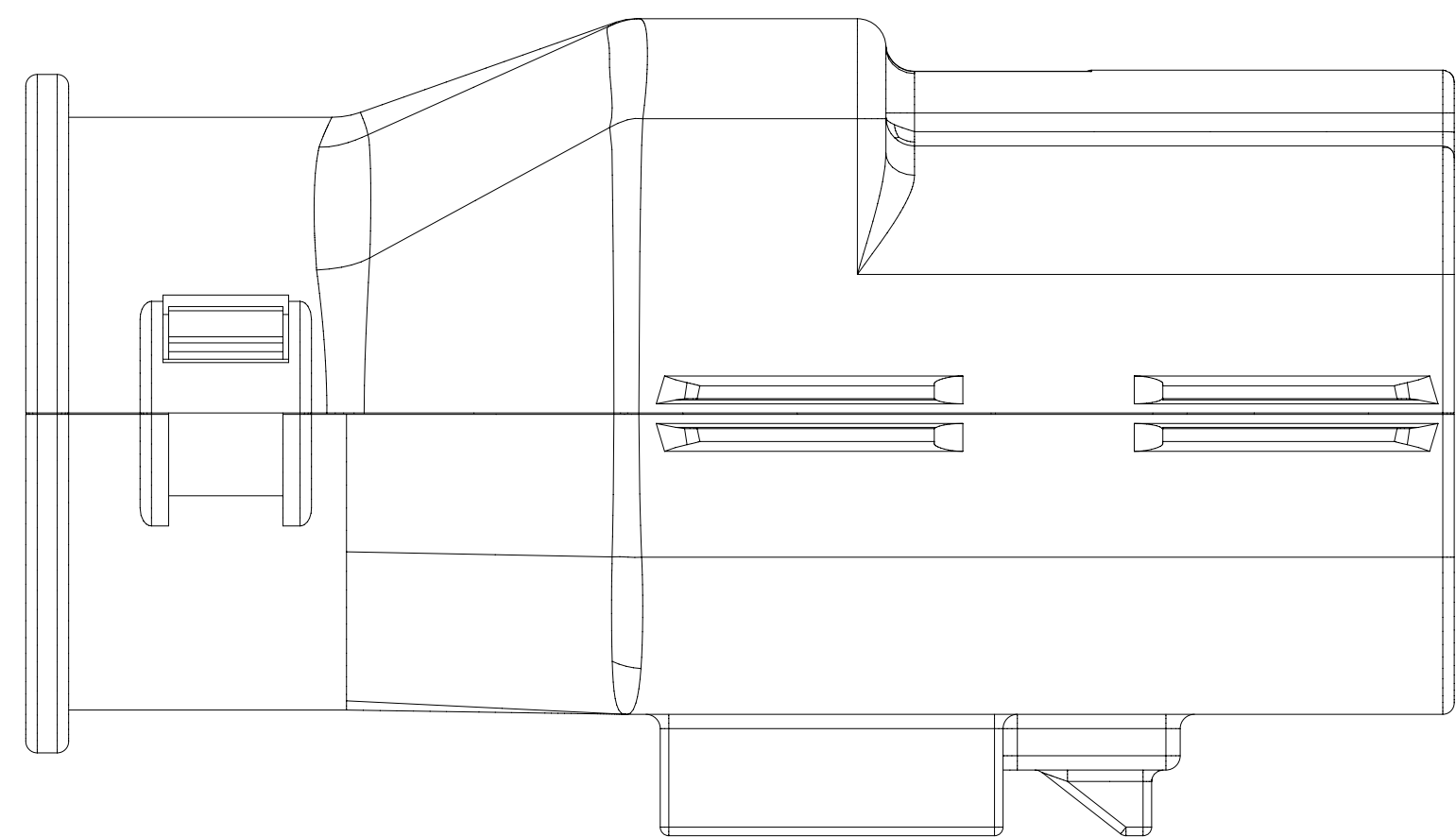
SECTION Y-Y

SECTION Z-Z

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



**SHEET DESCRIPTION**  
SCHLEMMER BACKSHELL



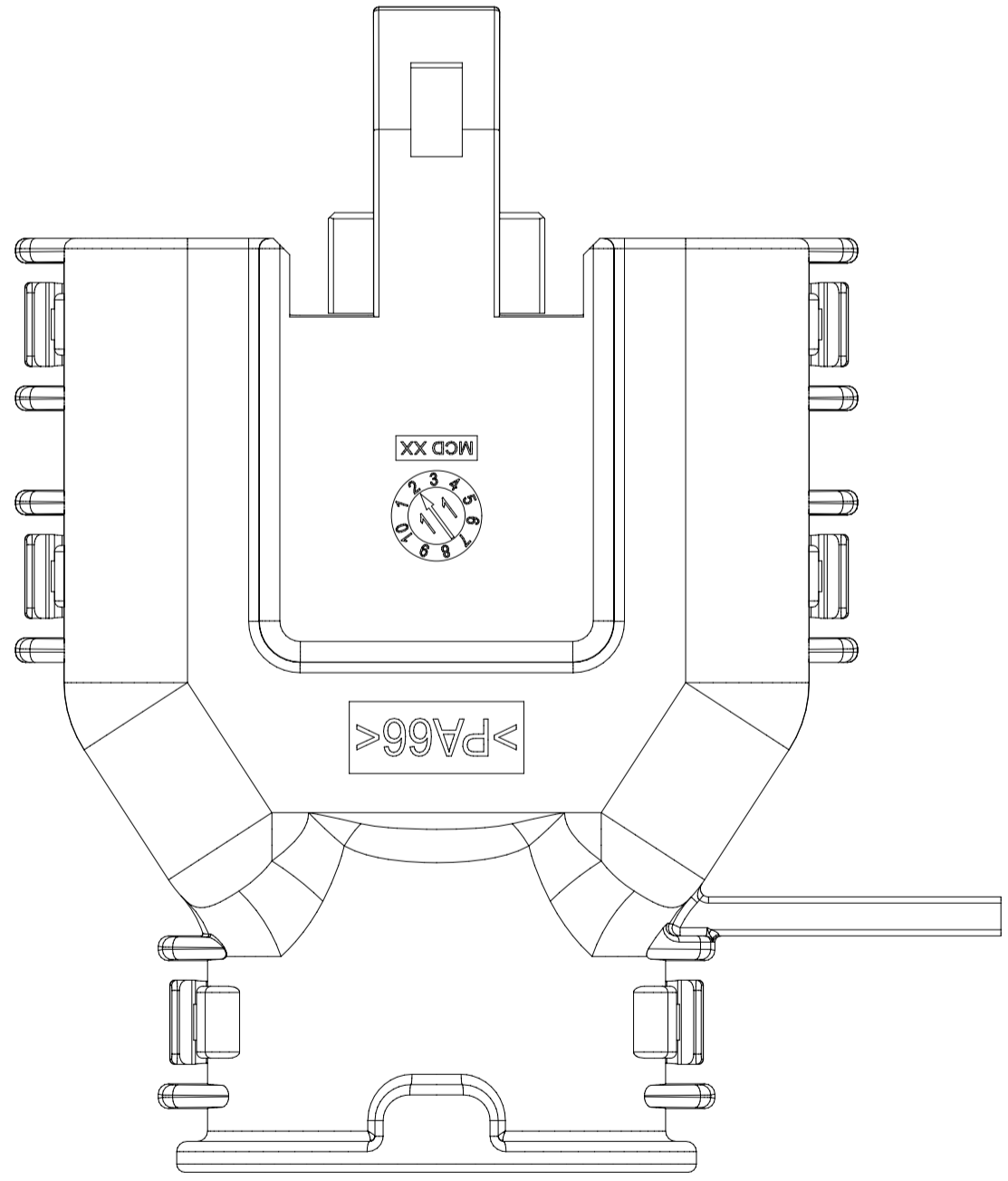
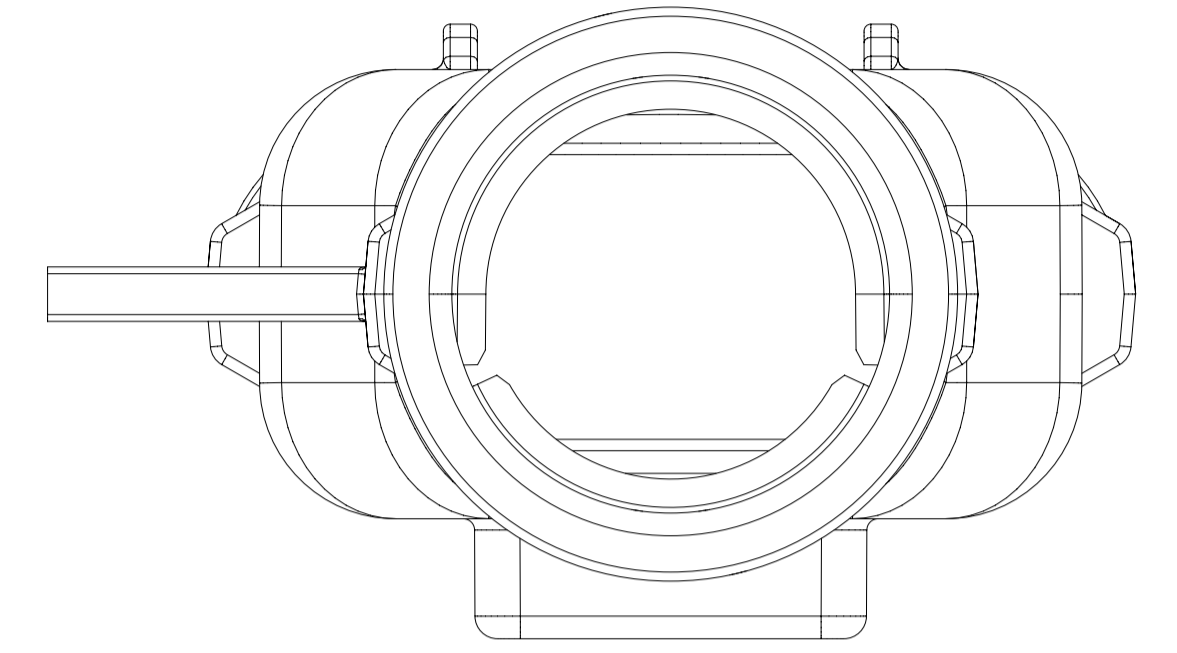
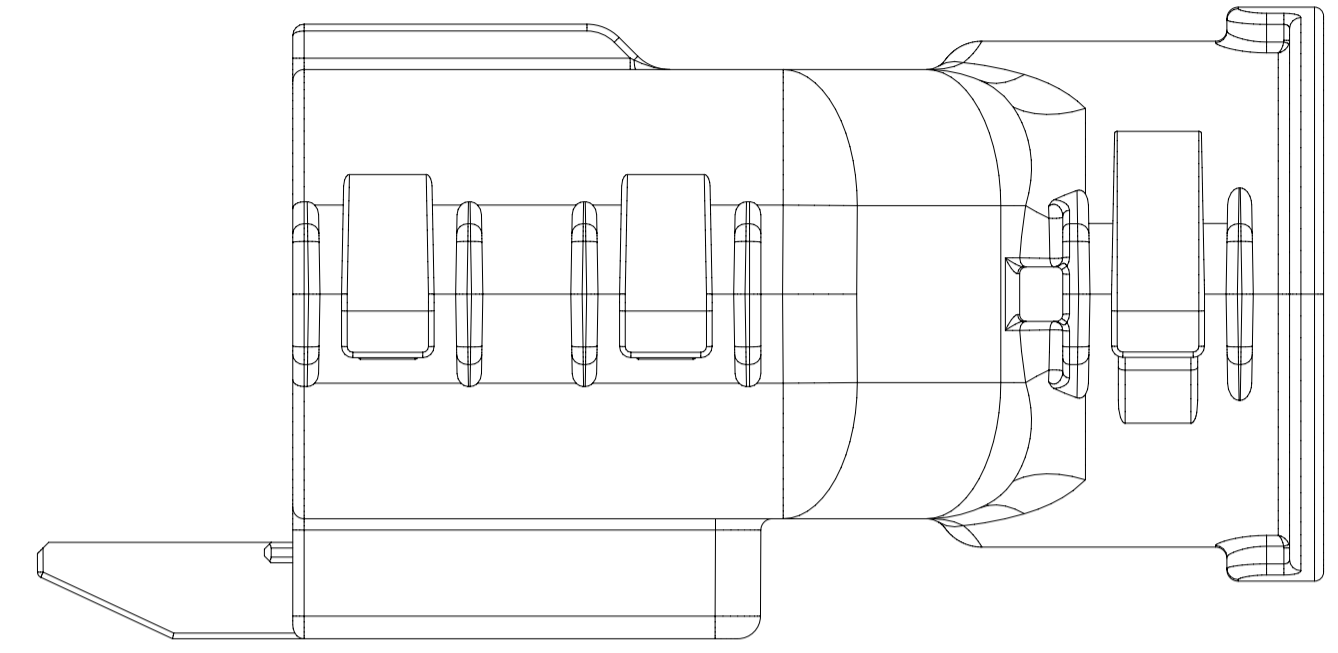
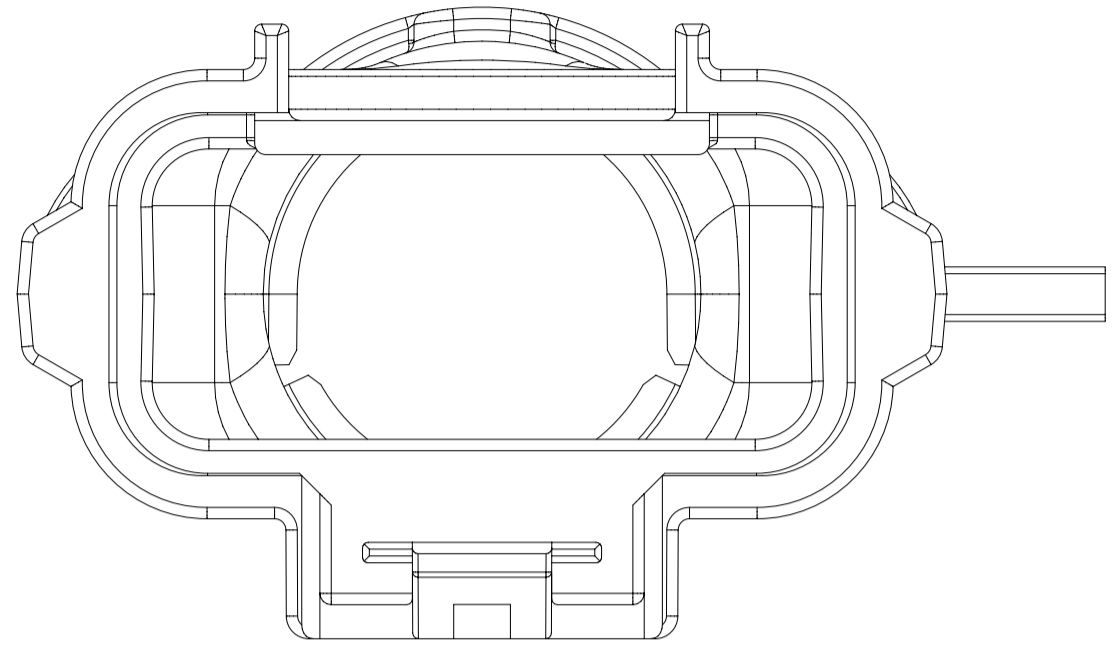
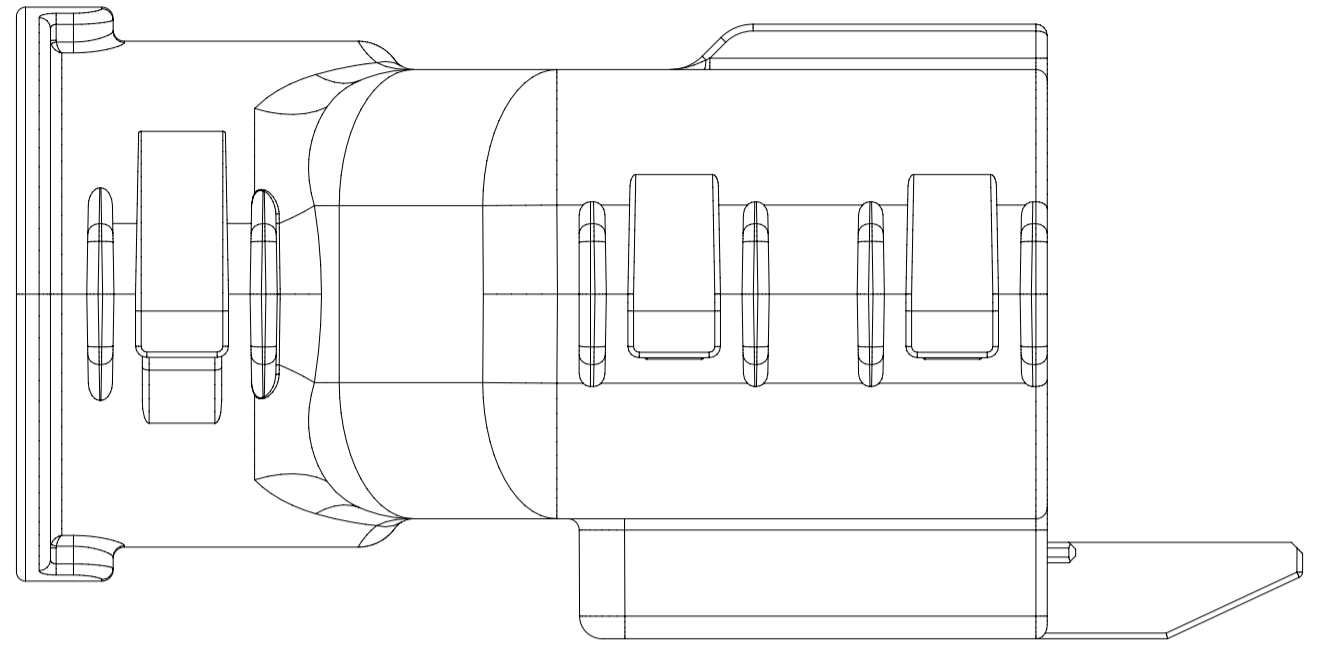
Partial V-V  
SCALE 4:1

|   |  |  |   |  |  |
|---|--|--|---|--|--|
| <b>SYMBOLS</b><br>= 0<br>= 0<br>= 0<br>= 0<br>= 0<br>= 0<br>= 0<br>= 0<br>= 0<br>= 0<br>= 0 | THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX ELECTRONIC TECHNOLOGIES, LLC AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION<br>DIMENSION UNITS: <b>mm</b><br>SCALE: <b>4:1</b><br>GENERAL TOLERANCES (UNLESS SPECIFIED)<br>ANGULAR TOL ± 1.0°<br>4 PLACES ±<br>3 PLACES ±<br>2 PLACES ± 0.1<br>1 PLACE ± 0.2<br>0 PLACES ±<br>DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS | CURRENT REV DESC:<br>EC NO: 171650<br>DRWN: DDEB 2018/01/19<br>CHK'D: MVANSLAMBROU 2018/02/16<br>APPR: MVANSLAMBROU 2018/02/16<br>INITIAL REVISION:<br>DRWN: APROFFITT 2014/05/14<br>APPR: VKOSHY 2014/06/27 | <br>MX150 RCPT<br>DUAL ROW SEALED ASSEMBLY MAT SEAL |  |  |
|   | PRODUCT CUSTOMER DRAWING<br>DOCUMENT NUMBER: <b>SD-33472-0001</b><br>DOC TYPE: PSD<br>DOC PART: 001<br>REVISION: C2  |  |   | MATERIAL NUMBER: <b>33472</b><br>CUSTOMER: <b>GENERAL MARKET</b><br>SHEET NUMBER: <b>7 OF 11</b> |  |



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

**SHEET DESCRIPTION**  
MOLEX BACKSHELL



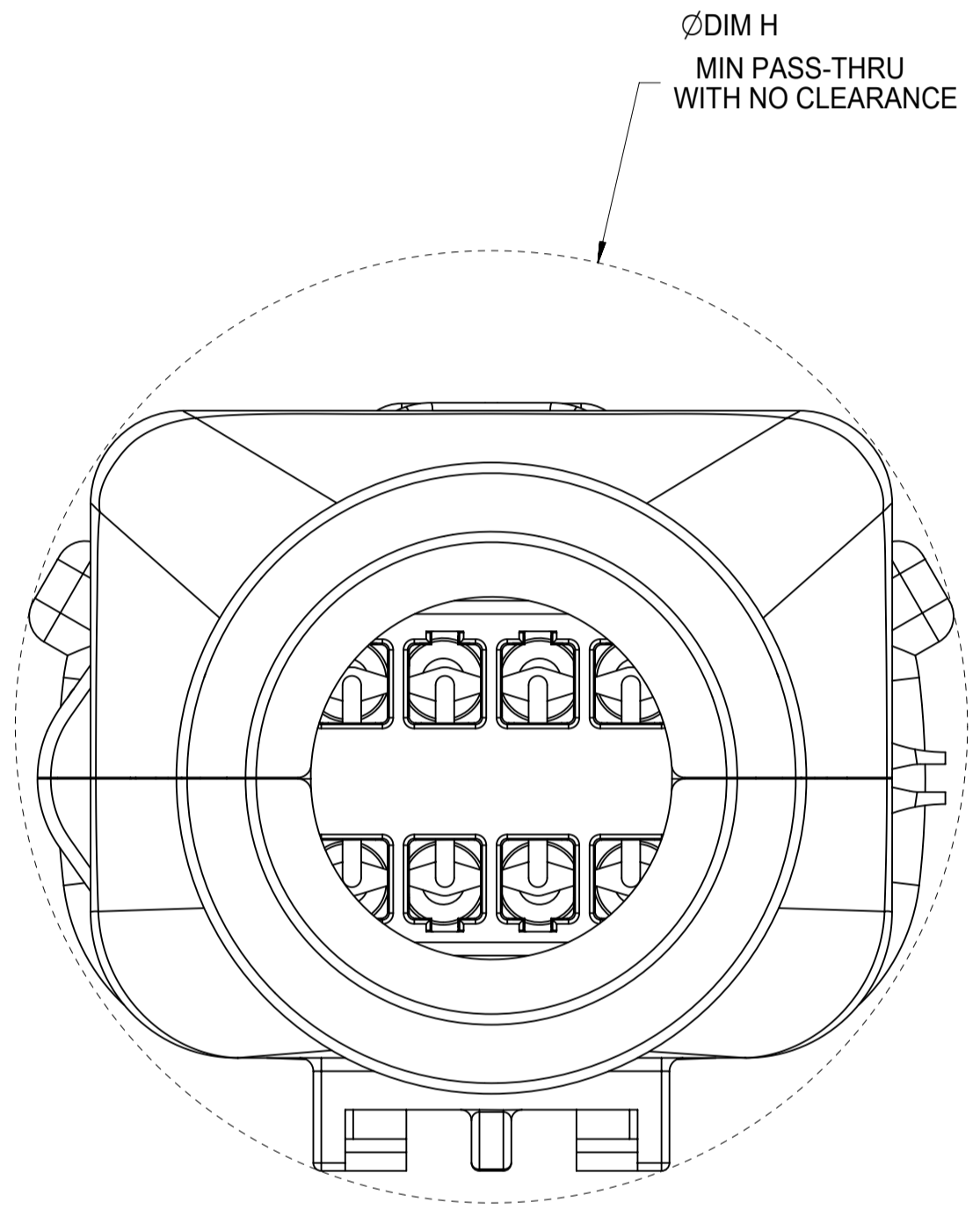
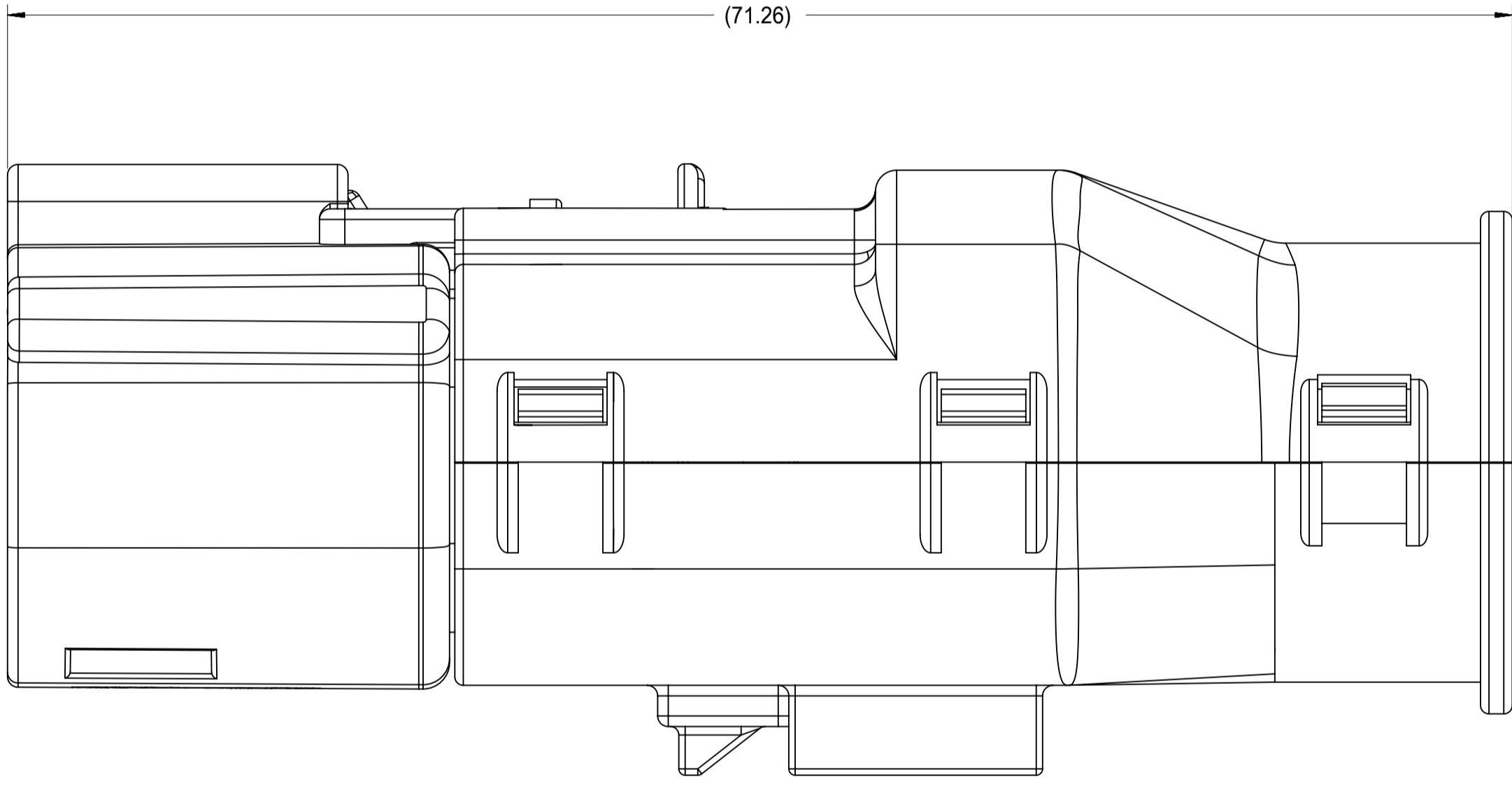
|  |   |   |  |  |   |                  |                                 |                                       |               |
|--|---|---|--|--|---|------------------|---------------------------------|---------------------------------------|---------------|
| <b>SYMBOLS</b><br>= 0<br>= 0<br>= 0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

|                 |    |              |            |          |
|-----------------|----|--------------|------------|----------|
| 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 |  |  |  |

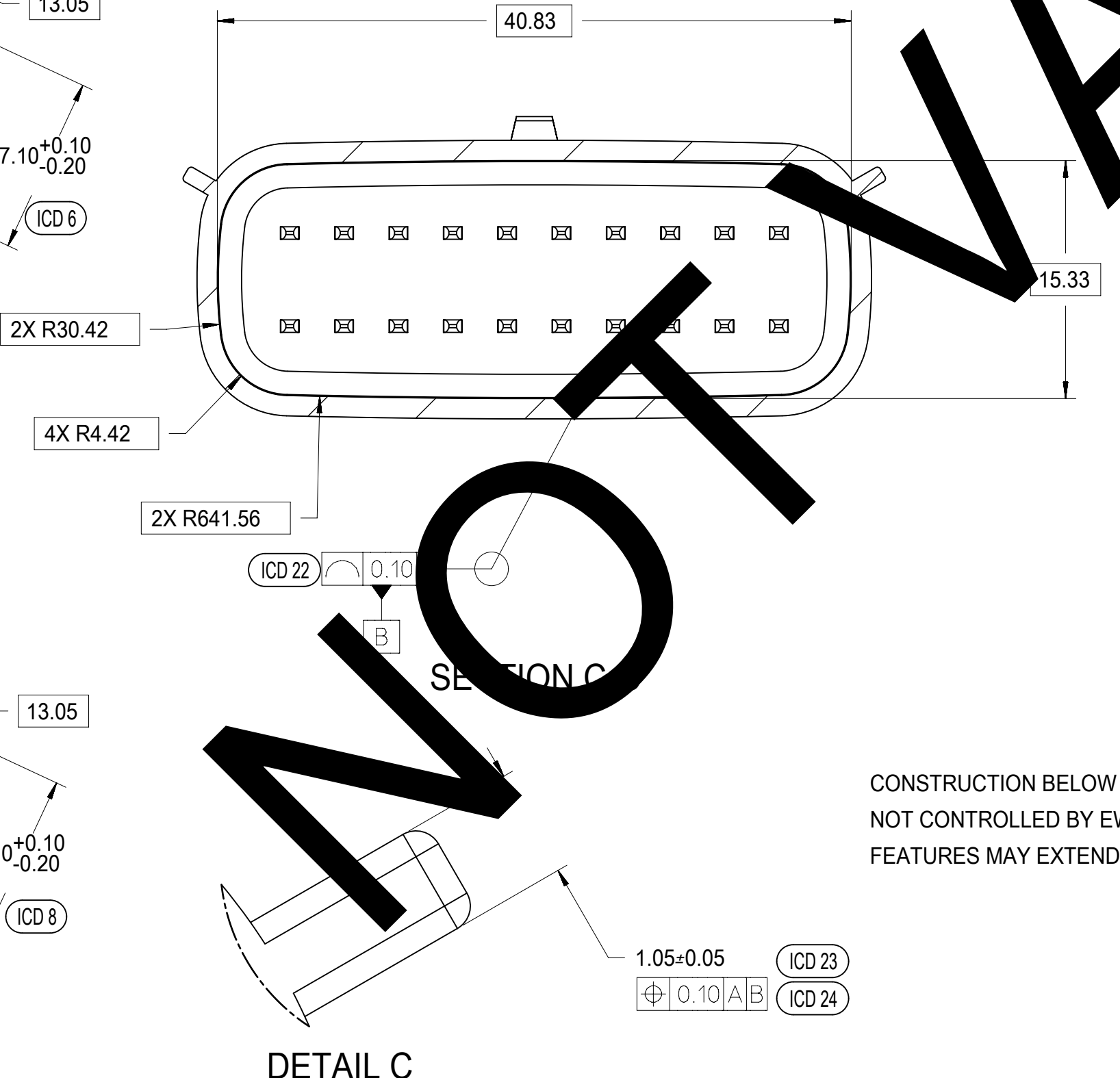
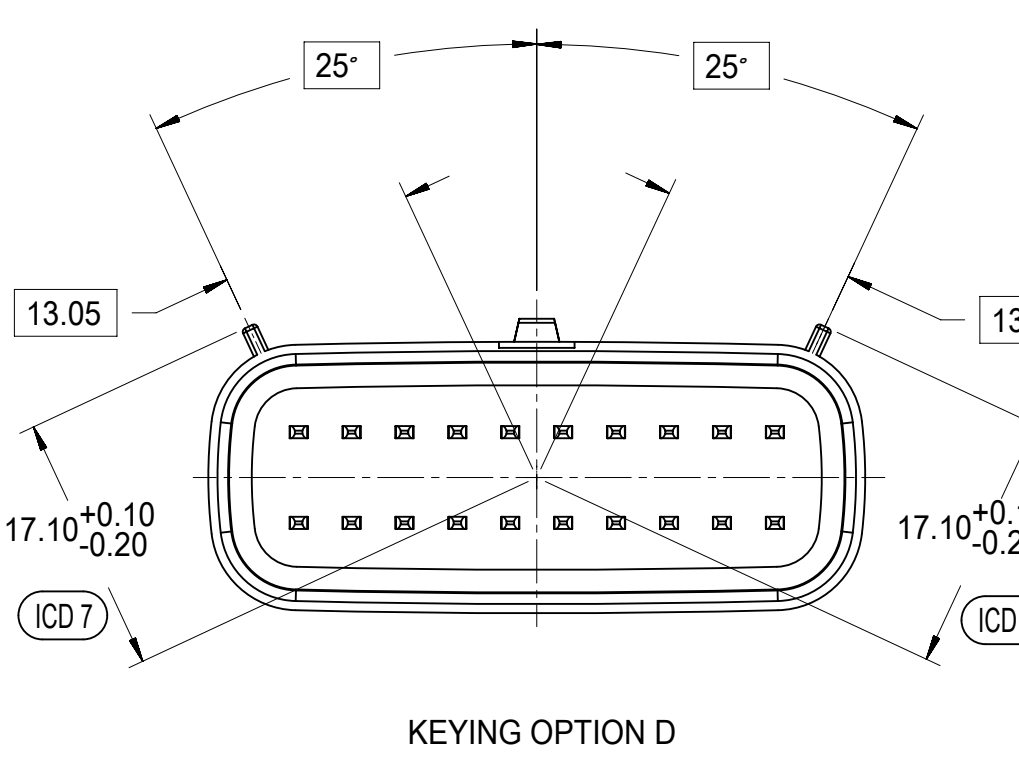
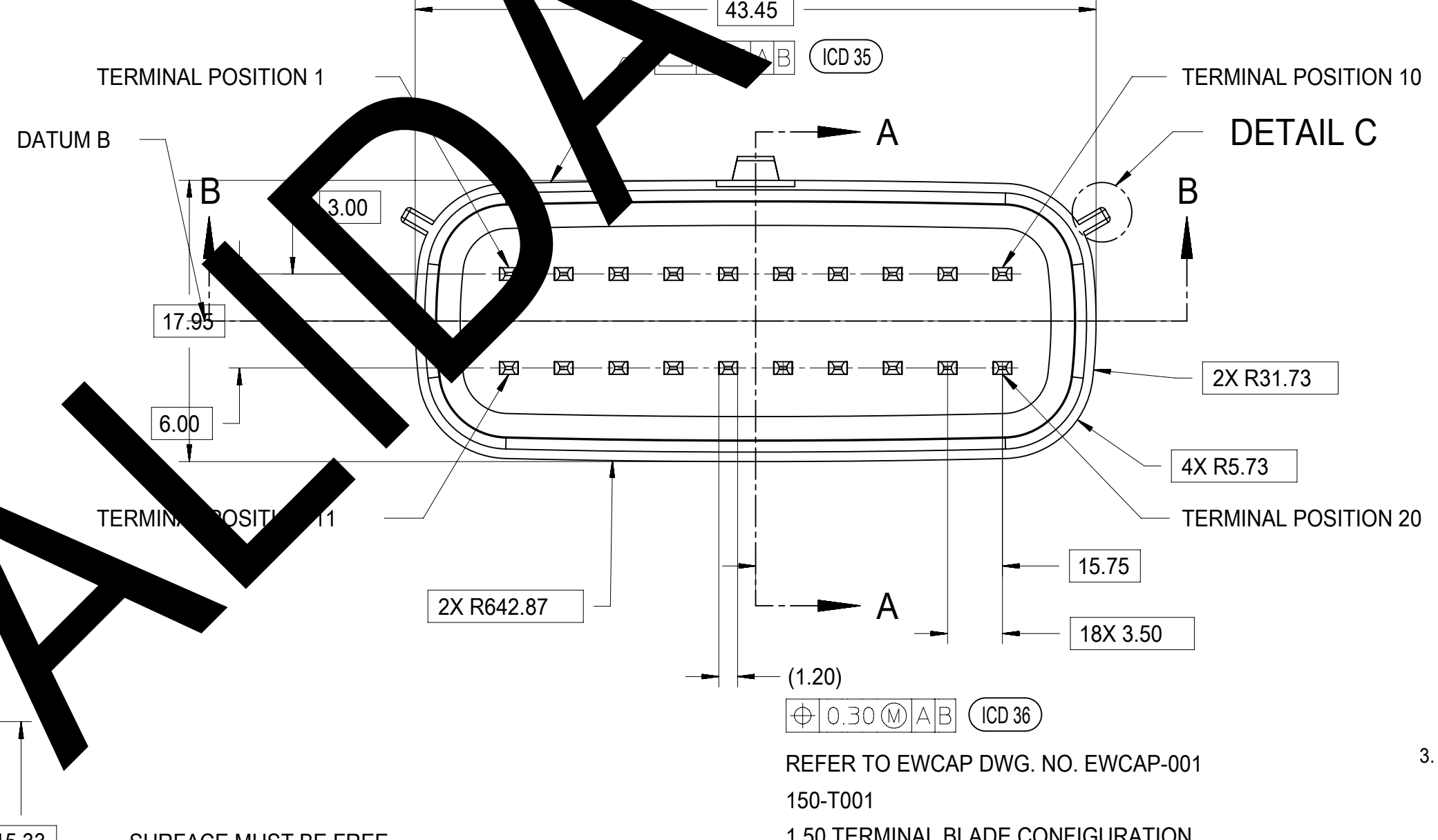
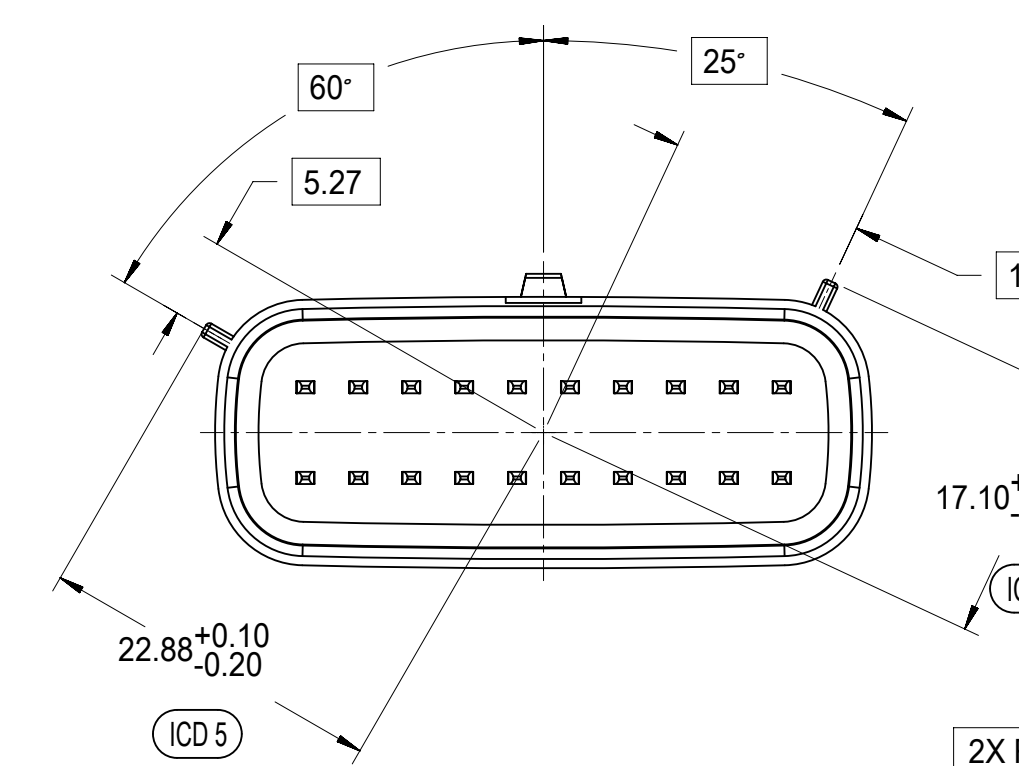
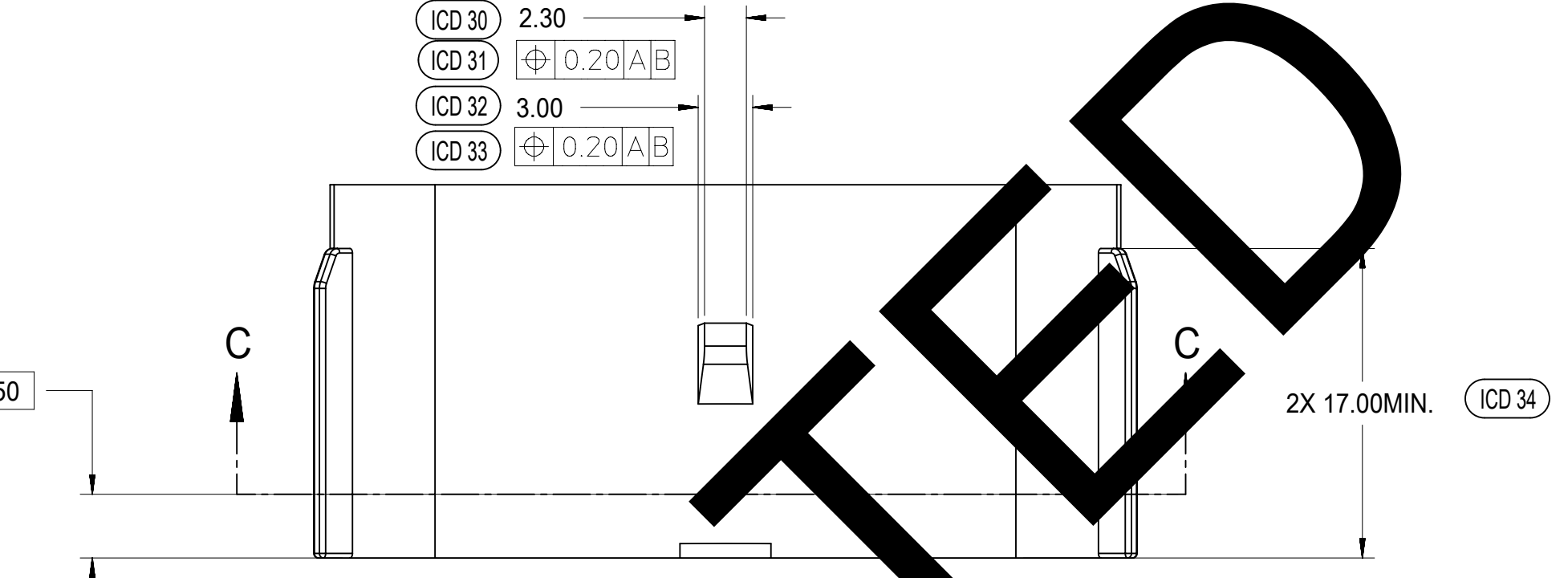
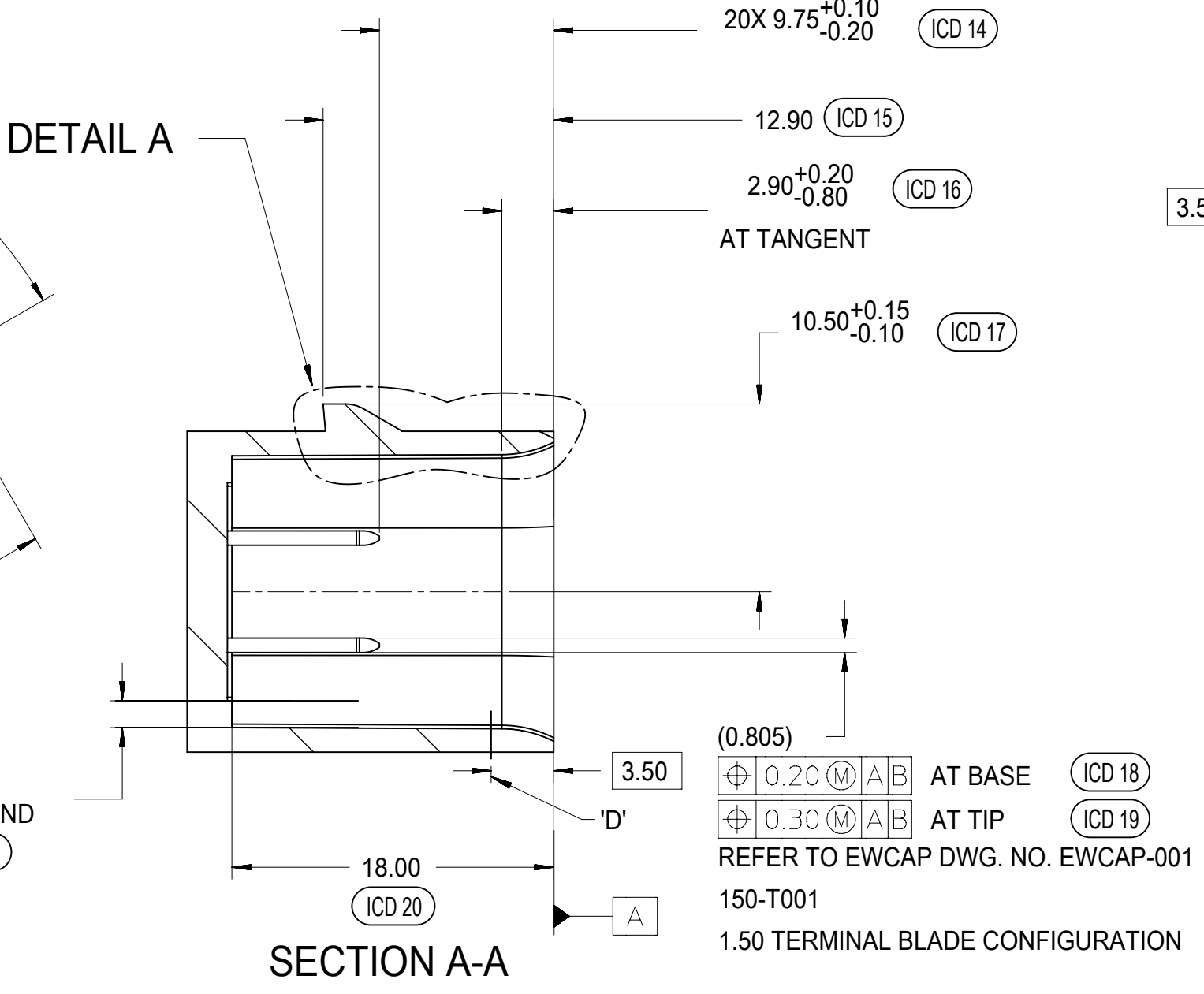
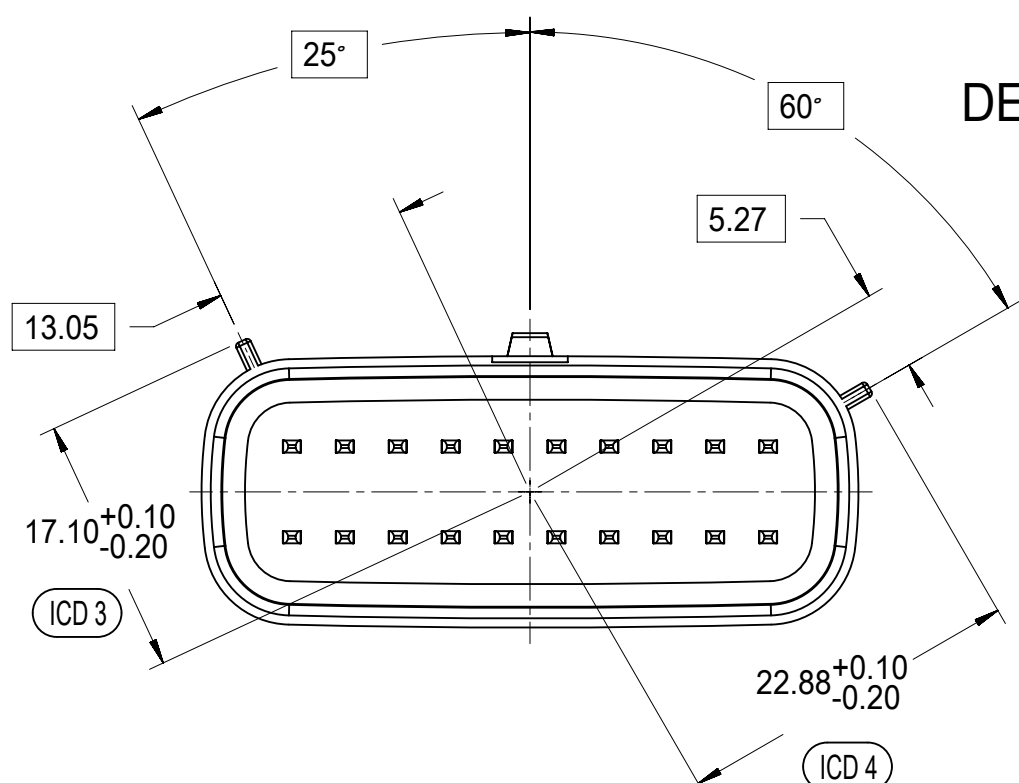
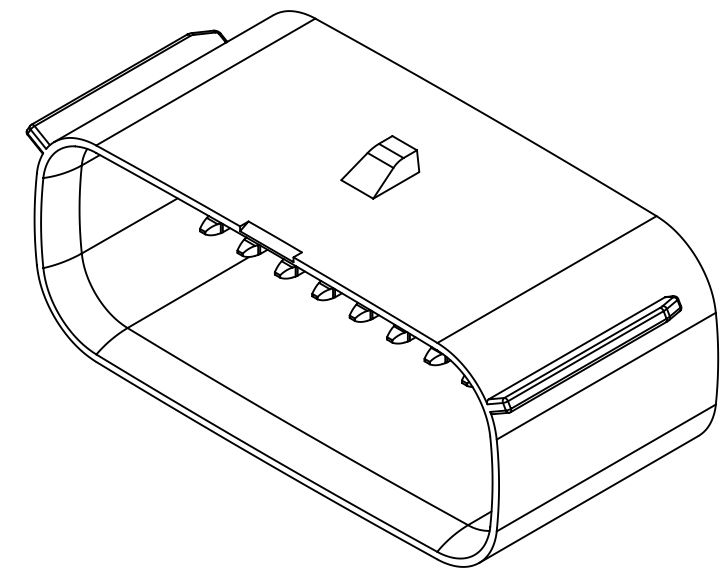
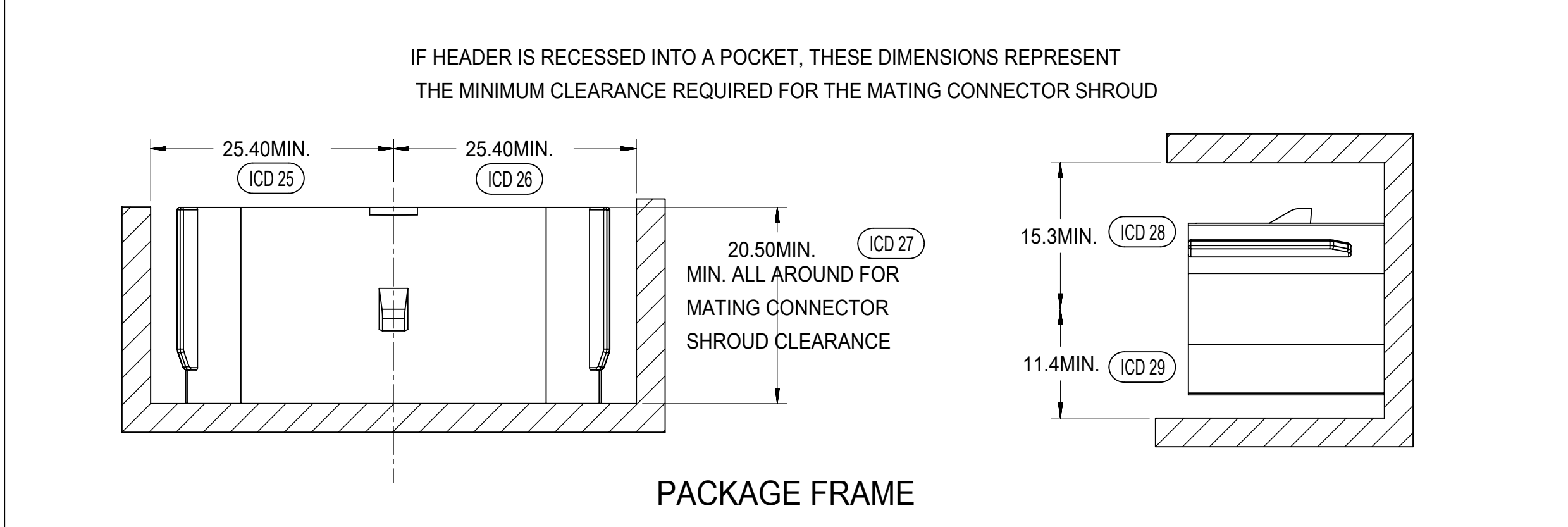
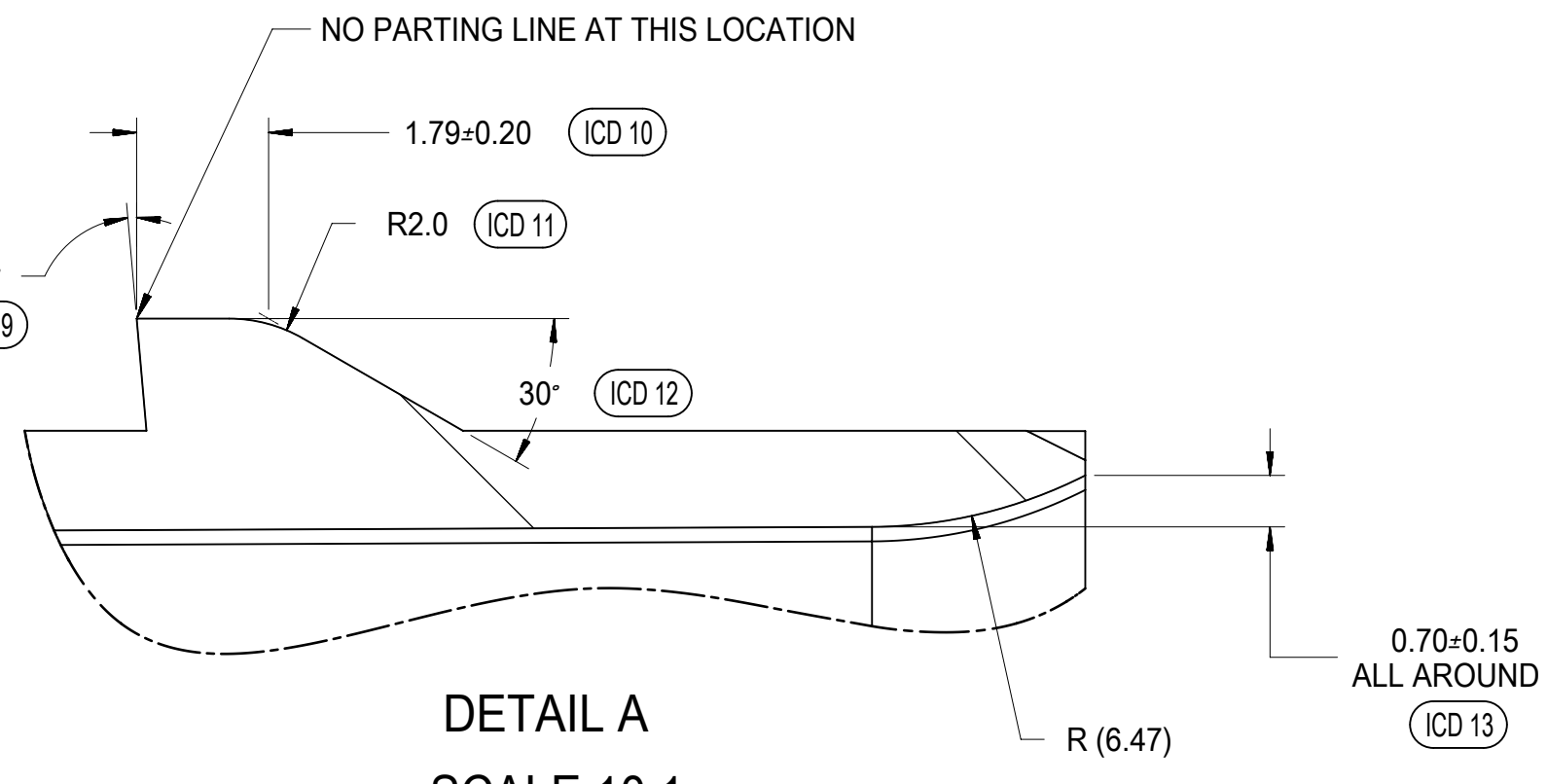
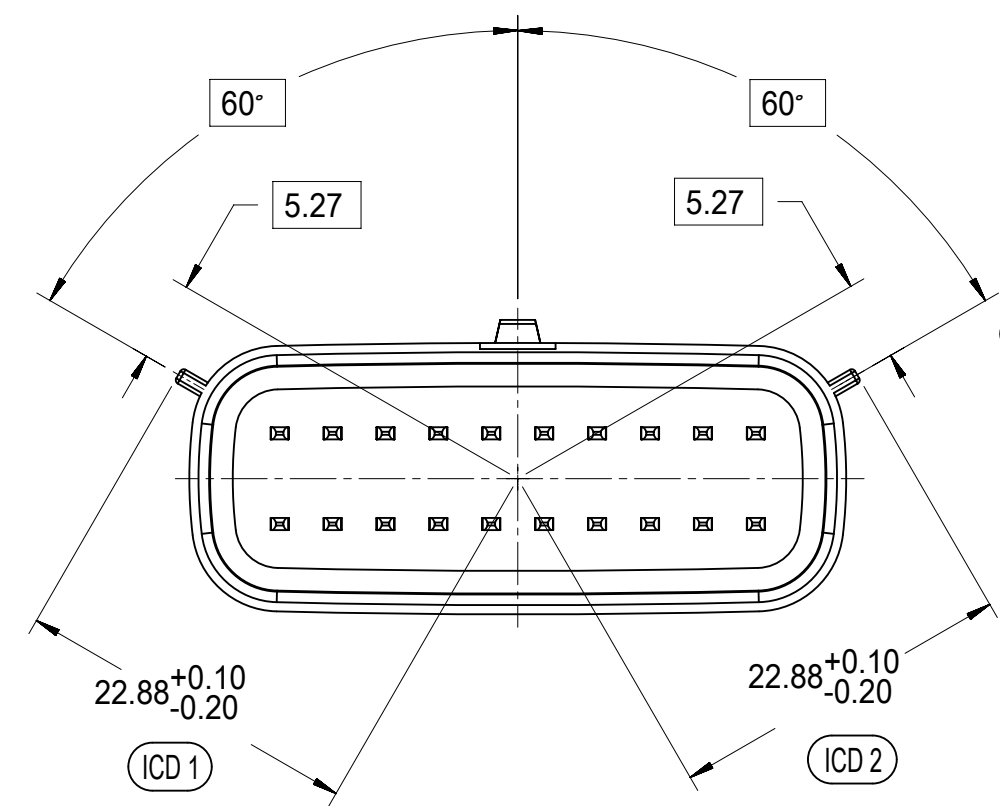
| CHARTED DIMENSIONS |            |
|--------------------|------------|
| DESCRIPTION        | DIMENSIONS |
|                    | H          |
| 2X3 W/ CLIPSLOT    | N/A        |
| 2X3 W/O CLIPSLOT   | 28.50      |
| 2X4 W/ CLIPSLOT    | N/A        |
| 2X4 W/O CLIPSLOT   | 30.75      |
| 2X6 W/ CLIPSLOT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



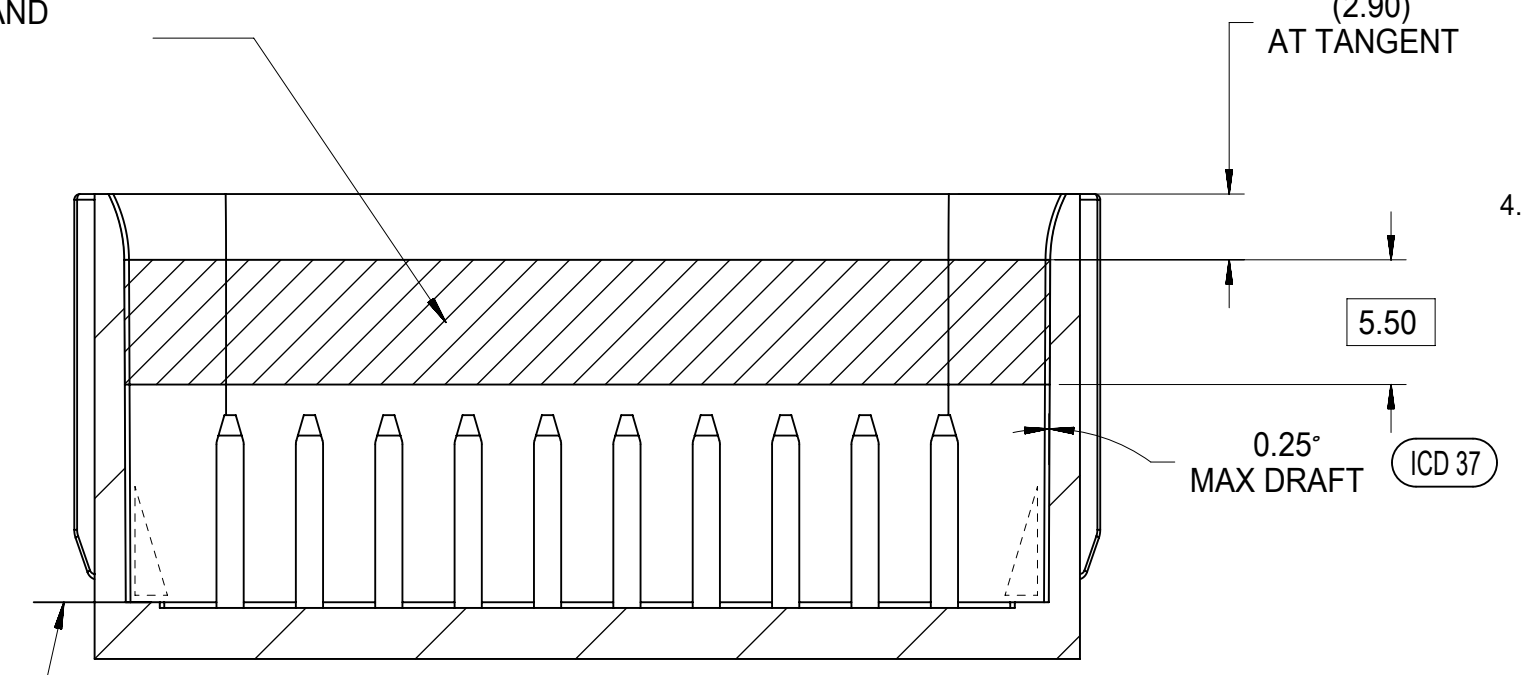
RECEPTACLE SEALED ASSEMBLY WITH RECEPTACLE BACKSHELL

|   |   |  |              |                        |   |                 |                |              |  |  |
|---|---|--|--------------|------------------------|---|-----------------|----------------|--------------|--|--|
| <b>QUALITY SYMBOLS</b><br>FA = 0<br>FE = 0<br>FE = 0<br>▼ = 0<br>C = 0<br>☒ = 0<br>■ = 0<br>∇ = 0 | THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX ELECTRONIC TECHNOLOGIES, LLC AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION |  |              |                        |   |                 |                |              |  |  |
|   | 2018/01/19  | GENERAL TOLERANCES (UNLESS SPECIFIED)                |              | DIMENSION UNITS        | SCALE   |                 |                |              |  |  |
|   | 2018/02/16  | ANGULAR TOL ± 1.0 °                                  |              | mm                     | 4:1   |                 |                |              |  |  |
|   | 2018/02/16  | 4 PLACES ±   | APROFFITT    | DATE                   | <b>MX150 RCPT<br/>DUAL ROW SEALED ASSEMBLY MAT SEAL</b> |                 |                |              |  |  |
|   |   | 3 PLACES ±   | CHK'D BY     | DATE                   |   |                 |                |              |  |  |
|   |   | 2 PLACES ± 0.1                                       | KBORUSZEWSKI | 2014/06/16             | <b>PRODUCT CUSTOMER DRAWING</b>                         |                 |                |              |  |  |
|   |   | 1 PLACE ± 0.2  | VKOSHY       | 2014/06/27             |   |                 |                |              |  |  |
|   |   | 0 PLACES ±   | APPR BY      | DATE                   | SERIES  | MATERIAL NUMBER | CUSTOMER       |              |  |  |
|   |   | DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS | DRAWING SIZE | THIRD ANGLE PROJECTION | 33472   |                 | GENERAL MARKET |              |  |  |
|   |   |  | A1           |                        | DOCUMENT NUMBER   | DOC TYPE        | DOC PART       | SHEET NUMBER |  |  |
|   |   |  |              | SD-33472-0001          | PSD   | 001             | 9 OF 11        |              |  |  |





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



SECTION B-B

CONSTRUCTION BELOW THIS SURFACE IS NOT CONTROLLED BY EWCAP. NO PLASTIC FEATURES MAY EXTEND ABOVE THIS SURFACE.

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 'SAE/USCAR-12 CONNECTOR DESIGN GUIDE LINES' 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: SPS/NYLON 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/mm<sup>2</sup> P - BARRIER MATERIAL: NICKEL DEPOSIT FROM NICKEL SULFAMATE PLATING SOLUTION W/O 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 SEMI-BRIGHT PURE SILVER (0.5% MAX IMPURITIES) OVER NICKEL ANTI-TARNISH TREATMENT EVERBRIGHT WS 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 IT'S 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 TO SURFACE FINISH OF NITRA #700 PAPER MINIMUM.

|                 |        |                        |
|-----------------|--------|------------------------|
| 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 |

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

| SYMBOLS | DIMENSION UNITS                                      | SCALE |
|---------|--|-------|
| ▽ = 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 |       |

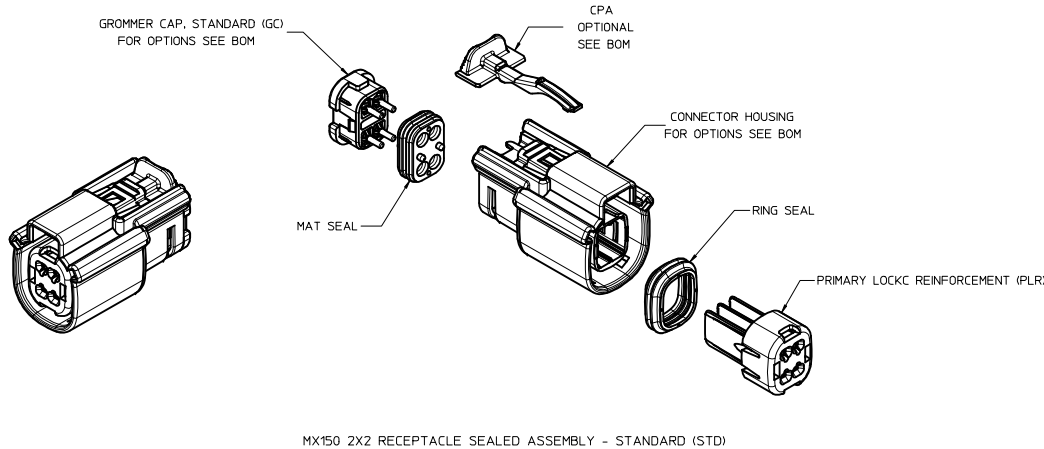
|   |            |
|---|------------|
| THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX ELECTRONIC TECHNOLOGIES, LLC AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION |            |
| CURRENT REV DESC:   |            |
| EC NO: 171650   | 2018/01/19 |
| DRWN: DDEB  | 2018/02/16 |
| CHK'D: MVANSLAMBROU   | 2018/02/16 |
| APPR: MVANSLAMBROU  | 2018/02/16 |
| INITIAL REVISION:   |            |
| DRWN: APROFFITT   | 2014/05/14 |
| APPR: VKOSHY  | 2014/06/27 |
| THIRD ANGLE PROJECTION  | DRAWING    |
|   | A1-SIZE    |
| SERIES  | 33472      |

|   |                |              |          |
|---|----------------|--------------|----------|
| <b>molex</b>                                    |                |              |          |
| MX150 RCPT<br>DUAL ROW SEALED ASSEMBLY MAT SEAL |                |              |          |
| PRODUCT CUSTOMER DRAWING                        |                |              |          |
| DOCUMENT NUMBER                                 | DOC TYPE       | DOC PART     | REVISION |
| SD-33472-0001                                   | PSD            | 001          | C2       |
| MATERIAL NUMBER                                 | CUSTOMER       | SHEET NUMBER |          |
|   | GENERAL MARKET | 11 OF 11     |          |

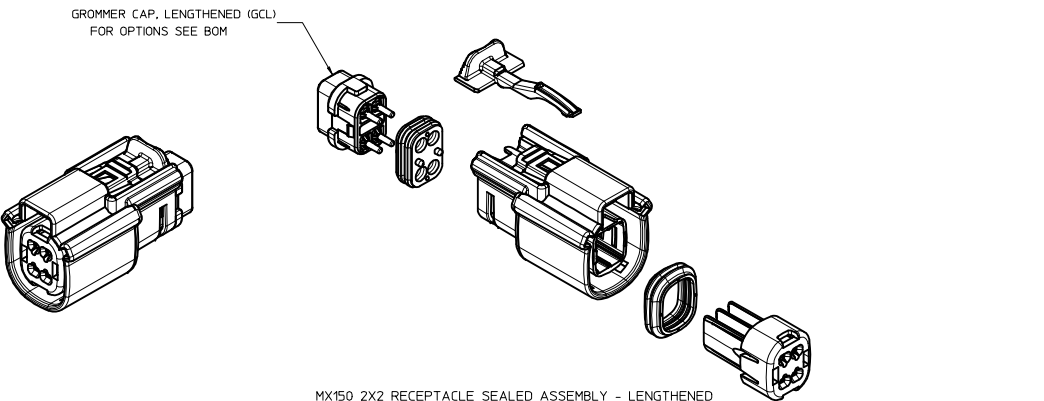
| TABLE OF CONTENTS |                            |
|-------------------|----------------------------|
| SHEET NO.         | SHEET DESCRIPTION          |
| 1                 | NOTES                      |
| 2                 | KEY CONFIGURATIONS         |
| 3                 | RECEPTACLE SEALED ASSEMBLY |
| 4                 | 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 DEVICE CONNECTION AS SPECIFIED IN DRAWING EWCAP 150-S-004-2-202, AVAILABLE AT <http://ewcap.uscorteam.org/>  
 -DESIGNED TO MATE WITH BLADE SEALED ASSEMBLY AS SPECIFIED IN DRAWING SD-33482-041  
 -FOR 15mm RECEPTACLE TERMINALS TO BE USED WITH THIS ASSEMBLY. SEE MOLEX DRAWING SD-33012-002.  
 -SYSTEM TO BE USED WITH WIRE WITHIN DIAMETER RANGE OF 1.4 mm TO 2.69 mm.  
 -ASSEMBLY SHIPPED WITH PLR AND CPA IN PRE-LOCK POSITION (SEE SECTION 2-2, PRE-LOCK).  
 -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:  
 ENGAGEMENT FORCE TO MOVE CPA FROM PRE-LOCK TO FINAL LOCK POSITION WHEN UNMATED: 40N MIN.  
 DISENGAGEMENT FORCE TO MOVE CPA FROM FINAL LOCK TO PRE-LOCK POSITION: 3N MIN. 40N MAX.  
 TERMINAL INSERTION FORCE FOR WIRE DIAMETER ABOVE 2.5mm NOT EXCEEDING 2.69mm SHALL NOT EXCEED 40 NEWTONS.  
 PLR INSERTION FROM PRE-LOCK TO FINAL LOCK WITH TERMINALS SHALL NOT EXCEED 90N.  
 PLR REMOVAL FROM FINAL LOCK TO PRE-LOCK POSITION SHALL NOT EXCEED 90N.
- b. PRODUCT SPECIFICATION SEE: PS-33472-000  
 -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. HOUSING, GROMMET CAP, PLR: SPS/NYLON BLEND, 20% GLASS FILLED  
 b. RING SEAL, MAT SEAL: INHERENTLY LUBRICATED SILICONE  
 c. CPA: PBT, 20% GLASS FILLED
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



MX150 2X2 RECEPTACLE SEALED ASSEMBLY - STANDARD (STD)



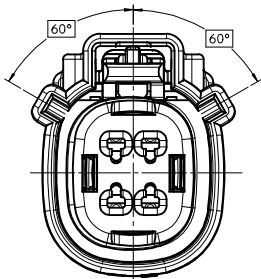
MX150 2X2 RECEPTACLE SEALED ASSEMBLY - LENGTHENED  
 UNLESS COMPONENT NOTED, SEE STANDARD ASSEMBLY

INSPECTION NUMBER LOG  
 LAST NUMBER USED:  
 ADDED:  
 REMOVED:

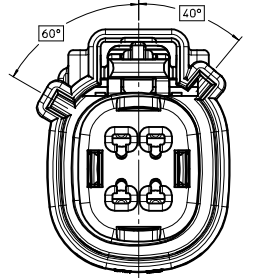
| REV | DESCRIPTION                           |
|-----|---------------------------------------|
| U   | UPDATED STATUS AND COMMENTS COLUMNS   |
| T7  | FIX TYPO ON RING SEAL COLOR           |
| T6  | UPDATE 33472-4405 THRU 33472-4412 CAP |
| T5  | ADD NEW P/N 33472-0455 33472-0456     |
| T4  | UPDATE THE BOM TO THE LATEST TEMPLATE |
| T3  | ADD NEW P/N 33472-0454                |
| T2  | ADD NEW P/N 33472-0453                |
| T1  | UPDATED NOTES                         |
| T   | REDRAWN                               |

|  |   |   |  |  |  |   |   |
|--|---|---|--|--|--|---|---|
| <b>ENTER DESCRIPTION</b><br>EC NO: UAU2016-0465<br>DRAWN BY: DRWINAPROFFITT 2015/10/06<br>CHECKED BY: CHYKOKBORUSZENSK 2015/10/06<br>APPR: VIOSHY 2015/10/07 | <b>QUALITY SYMBOLS</b><br>∇=0<br>∇=0<br>∇=0 | <b>GENERAL TOLERANCES (UNLESS SPECIFIED)</b><br>4 PLACES ±.004<br>3 PLACES ±.005<br>2 PLACES ±.010<br>1 PLACE ±.03<br>0 PLACE ± | <b>DIMENSION STYLE</b><br>MM ONLY<br>DRAWN BY: DATE<br>MVANSLAMBROU 05-03-06<br>CHECKED BY: DATE<br>DGRIFFFITHS 06-22-06<br>APPROVED BY: DATE<br>SMARCEAU 06-22-06 | SCALE<br>2:1<br>DESIGN UNITS<br>METRIC<br>THIRD ANGLE PROJECTION | TITLE<br>MX150 2X2 RECEPTACLE SEALED ASSEMBLY MAT SEAL<br><b>molex</b> | DOCUMENT NO.<br>SD-33472-041<br>SHEET NO.<br>1 OF 5 |   |
|  |   |   |  |  |  |   | ANGULAR ± 3 °   |
|  |   |   |  |  |  |   | DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS  |
|  |   |   |  |  |  |   | THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION |

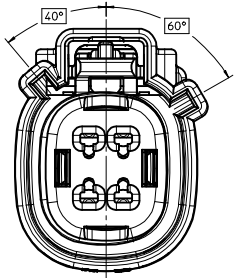
KEY CONFIGURATIONS



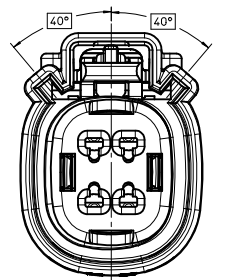
KEY A



KEY B



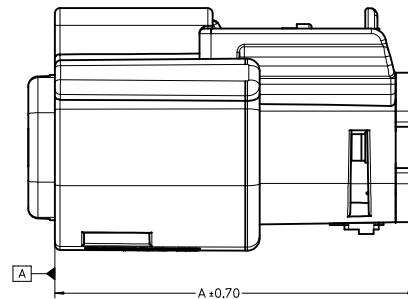
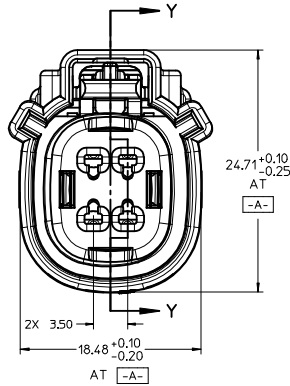
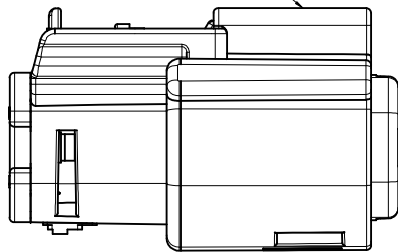
KEY C



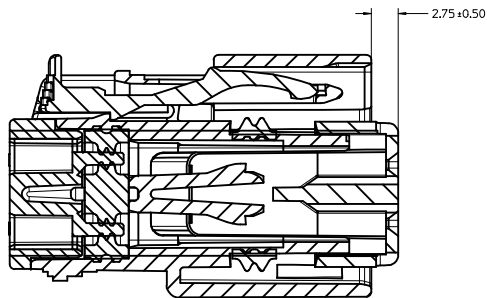
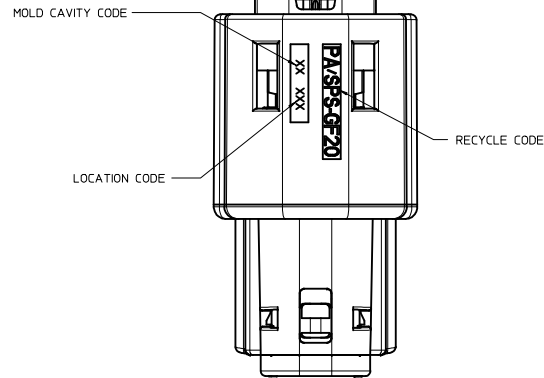
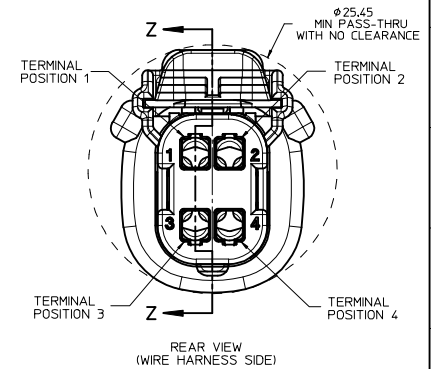
KEY D

|   |   |  |      |   |                          |                               |  |  |                     |
|---|---|--|------|---|--------------------------|-------------------------------|--|--|---------------------|
| <b>ENTER DESCRIPTION</b><br>IEC NO: UAU2016-0465<br>DRAWN: PROFFITT 2015/10/06<br>CHKD: BORUSZENSKI 2015/10/06<br>APPR: IKOSHY 2015/10/07 | <b>QUALITY SYMBOLS</b><br>∇=0<br>∇=0<br>∇=0 | <b>GENERAL TOLERANCES (UNLESS SPECIFIED)</b> |      | <b>DIMENSION STYLE</b><br>MM ONLY   | <b>SCALE</b><br>4:1      | <b>DESIGN UNITS</b><br>METRIC | THIRD ANGLE PROJECTION                                 |  |                     |
|   |   |  | mm   | INCH  | DRAWN BY<br>MYANSLAMBROU | DATE<br>05-03-06              | TITLE<br>MX150 2X2 RECEPTACLE SEALED ASSEMBLY MAT SEAL |  |                     |
|   |   | 4 PLACES                                     | ±--- | ±---  | CHECKED BY<br>DGRIFITHS  | DATE<br>06-22-06              | MATERIAL NO.<br>SEE BOM                                |  | SHEET NO.<br>2 OF 5 |
|   |   | 3 PLACES                                     | ±--- | ±---  | APPROVED BY<br>SMARCEAU  | DATE<br>06-22-06              | DOCUMENT NO.<br>SD-33472-041                           |  |                     |
| DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS  |   | ANGULAR ± 3 °                                |      | THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION |                          |                               |  |  |                     |

LASER MARKING ON THIS SURFACE  
SEE NOTE 3g.

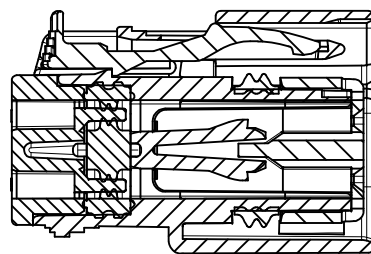


RECEPTACLE SEALED ASSEMBLY



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

SECTION Z-Z



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

SECTION Y-Y

| CHARTED DIMENSIONS         |  |       |
|----------------------------|--|-------|
| PART NUMBERS               | CONFIGURATION                          | A     |
| 33472-0401 THRU 33472-0452 | MX150 2X2 RECEPTACLE CONN - STANDARD   | 36.95 |
| 33472-4401 THRU 33472-4412 | MX150 2X2 RECEPTACLE CONN - LENGTHENED | 41.55 |

|  |   |  |                              |                     |              |   |  |
|--|---|--|------------------------------|---------------------|--------------|---|--|
| <b>ENTER DESCRIPTION</b><br>IEC NO. UAU2016-0465<br>DRAWN BY: CHYKDOBUSZENSKI 2015/10/06<br>CHECKED BY: APPR: WKOJSHY 2015/10/07 | QUALITY SYMBOLS   | GENERAL TOLERANCES (UNLESS SPECIFIED)  | DIMENSION STYLE              | SCALE               | DESIGN UNITS | THIRD ANGLE PROJECTION  |  |
|  | ∇=0<br>∇=0<br>∇=0   | mm INCH<br>4 PLACES ± --- ± ---<br>3 PLACES ± --- ± ---<br>2 PLACES ± 0.10 ± ---<br>1 PLACE ± 0.3 ± ---<br>0 PLACE ± ± | MM ONLY                      | 4:1                 | METRIC       | DATE<br>MYANSLAMBROU 05-03-06<br>DATE<br>DGRIFITHS 06-22-06<br>DATE<br>APPROVED BY<br>SMARCEAU 06-22-06 | TITLE<br>MX150 2X2 RECEPTACLE SEALED ASSEMBLY MAT SEAL |
|  | ANGULAR ± 3 °<br>DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS   | MATERIAL NO.<br>SEE BOM  | DOCUMENT NO.<br>SD-33472-041 | SHEET NO.<br>3 OF 5 |              |   |  |
|  | THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION |  |                              |                     |              |   |  |





