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

NOTES: VALID UNLESS OTHERWISE SPECIFIED

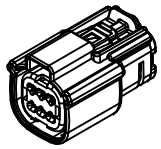
1. GENERAL:
a. APPLICATION SPECIFICATION SEE: AS-33472-100
-CONTAINS: PRODUCT INTRODUCTION, PRODUCT SUMMARY, CONNECTOR ASSEMBLY, PACKAGING INFORMATION, CONNECTOR MATING, SERVICE INSTRUCTIONS, ELECTRICAL CONTINUITY CHECKING, CRIMPING, AND TROUBLESHOOTING.
-DESIGNED TO MATE WITH DEVICE OR CONNECTOR AS 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 PS-33472-000
-TRANSMISSION CONFIGURATION TS-160038-0001
CONTAINS: PRODUCT INTRODUCTION, PRODUCT SUMMARY, RATINGS (CURRENT, TEMPERATURE, SEALING, AND FLAMMABILITY), TERMINALS, WIRE DIAMETER RANGE, PRODUCT VALIDATION, AND PRODUCT DEVIATIONS.
c. PACKAGING SPECIFICATION PER MOLEX DRAWING: 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 CONGURATION SD-160038-0002
b. TRANSMISSION CONNECTOR COMPONENTS MUST MEET THE MATERIAL REQUIREMENTS SPECIFIED IN TS-160038-0001

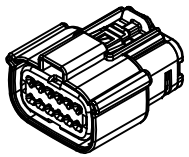
3. DESIGN - GEOMETRY:
a. THE 3-D CAD DATA IS BASIC (WITHOUT TOLERANCE) AND MASTER FOR THIS PART WITH THE EXCEPTION OF UNDERLINED DIMENSIONS. DIMENSIONAL INFORMATION NOT SHOWN ON THIS DRAWING IS DEFINED BY THE DATA FILE AT ITS LATEST REVISION.
b. GEOMETRIC DIMENSIONS AND TOLERANCES PER ASME Y14.5M-2009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

PACKAGING	
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

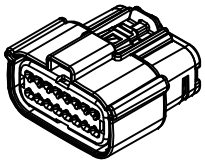
MATING INTERFACE/CONNECTOR DRAWINGS		
DESCRIPTION	INTERFACE DEFINITION	MOLEX INLINE
STANDARD 2X2	*150-S-004-2-Z02	SD-33482-041
STANDARD 2X3	*150-S-006-2-Z02	SD-33482-061
TRANSMISSION 2X3	*150-S-006-2-Z02	N/A
STANDARD 2X4	*150-S-008-2-Z02	SD-33482-081
STANDARD 2X6	*150-S-012-2-Z01	SD-33482-0001
STANDARD 2X8	*150-S-016-2-Z01	SD-33482-0001
STANDARD 2X10	SD-33472-201	SD-33482-0001



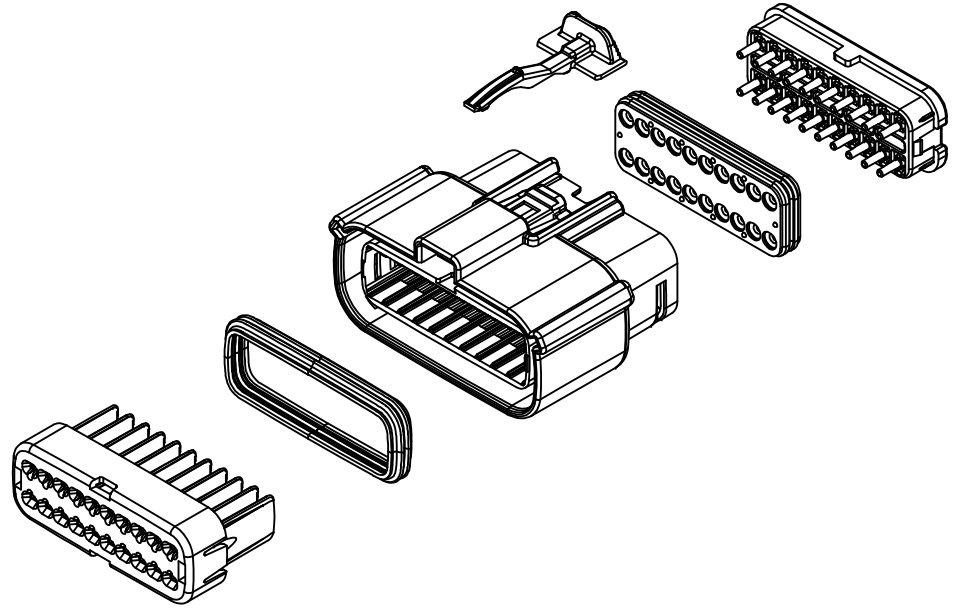
2x3



2x6



2x8



INSPECTION NUMBER LOG
LAST NUMBER: 10
ADDED:
REMOVED:

REV	REV DESCRIPTION
A3	ADDED 2X3 CONFIGURATIONS
A2	UPDATED 2X8 BLD DRAWINGS
A1	FIXED TYPO IN NOTE 1a, UPDATED 2X6 MOLEX INLINE BLADE DRAWING
A	INITIAL RELEASE

ENTER DESCRIPTION
EC NO: UAU2014-0981 2015/03/19
DRWN: ZUZELSKI 2015/04/17
CHKD:
APPR: VKOSHY
REV DESCRIPTION
A3

QUALITY SYMBOLS
=0
=0
=0

GENERAL TOLERANCES (UNLESS SPECIFIED)

	mm	INCH
4 PLACES	± ---	± ---
3 PLACES	± ---	± ---
2 PLACES	± 0.10	± ---
1 PLACE	± 0.2	± ---
0 PLACE	± ---	± ---

ANGULAR ± 1 °

DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS

DIMENSION STYLE: MM ONLY
SCALE: 1.5:1
DESIGN UNITS: METRIC
THIRD ANGLE PROJECTION

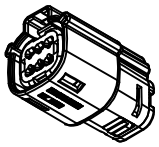
DRAWN BY: APROFFITT DATE: 2014/05/14
CHECKED BY: DATE:
APPROVED BY: VKOSHY DATE: 2014/06/27
MATERIAL NO.: SEE NOTE 2a.

TITLE: MX150 RCPT DUAL ROW SEALED ASSEMBLY MAT SEAL
molex
DOCUMENT NO.: SD-33472-0001
SHEET NO.: 1 OF 8
SIZE: A1

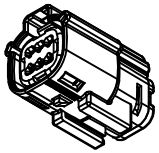
THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION

SHEET DESCRIPTION

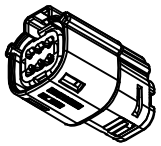
CONFIGURATIONS



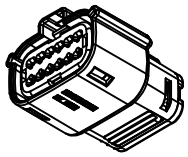
2X3 - STANDARD (STD)



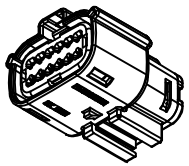
2X3 - STANDARD (STD)
WITH CLIPSLOT *



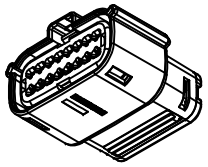
2X3 - TRANSMISSION FLUID CONFIGURATION †



2X6 - STANDARD (STD)



2X6 - STANDARD (STD)
WITH CLIPSLOT *



2X8 - STANDARD (STD)

* WITH CLIPSLOT CONFIGURATION DOES NOT
MEET THE USCAR PACKAGING FRAME REQUIREMENTS

† SAME GEOMETRY AS STANDARD CONFIGURATION.
SEE NOTES 2b-c FOR MORE INFORMATION

ENTER DESCRIPTION
EC NO: UAU2014-0981 2015/03/19
DRWN: JZUZELSKI
CHKD:
APPR: VKOSHY 2015/04/17
DESCRIPTION
REV

A3

QUALITY SYMBOLS
=0 4 PLACES
=0 3 PLACES
=0 2 PLACES
1 PLACE
=0 0 PLACE

GENERAL TOLERANCES (UNLESS SPECIFIED)

	mm	INCH
4 PLACES	± ---	± ---
3 PLACES	± ---	± ---
2 PLACES	± 0.10	± ---
1 PLACE	± 0.2	± ---
0 PLACE	± ---	± ---

ANGULAR ± 1 °

DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS

DIMENSION STYLE: MM ONLY
SCALE: 1.5:1
DESIGN UNITS: METRIC
THIRD ANGLE PROJECTION

DRAWN BY: APROFFITT DATE: 2014/05/14
CHECKED BY: DATE:
APPROVED BY: VKOSHY DATE: 2014/06/27
MATERIAL NO.: SEE NOTE 2a.

TITLE
MX150 RCPT
DUAL ROW SEALED ASSEMBLY
MAT SEAL

molex

DOCUMENT NO.: SD-33472-0001
SHEET NO.: 2 OF 8

SIZE: A1

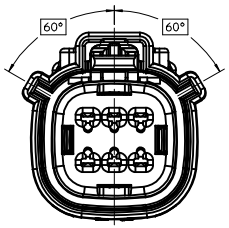
THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION

SHEET DESCRIPTION

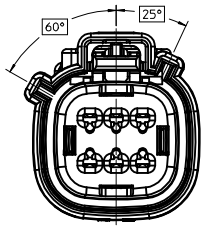
KEY CONFIGURATIONS

2X2 (SEE SD-33472-041)

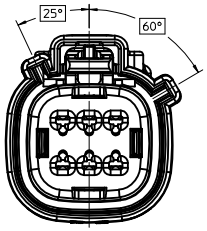
2X3



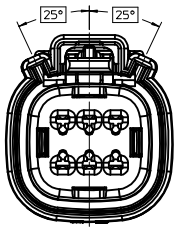
KEY A



KEY B



KEY C



KEY D

2X4 (SEE SD-33472-081)

ENTER DESCRIPTION
EC NO: UAU2014-0981 2015/03/19
DRWN: JZUZELSKI
CHKD:
APPR: VKOSHY 2015/04/17
A3
REV DESCRIPTION

QUALITY SYMBOLS
=0
=0
=0

GENERAL TOLERANCES (UNLESS SPECIFIED)

	mm	INCH
4 PLACES	± ---	± ---
3 PLACES	± ---	± ---
2 PLACES	± 0.10	± ---
1 PLACE	± 0.2	± ---
0 PLACE	± ---	± ---

ANGULAR ± 1 °

DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS

DIMENSION STYLE: MM ONLY
SCALE: 3:1
DESIGN UNITS: METRIC
THIRD ANGLE PROJECTION

DRAWN BY: APROFFITT DATE: 2014/05/14
CHECKED BY: DATE:
APPROVED BY: VKOSHY DATE: 2014/06/27
MATERIAL NO.: SEE NOTE 2a.

TITLE:
MX150 RCPT
DUAL ROW SEALED ASSEMBLY
MAT SEAL

molex

DOCUMENT NO.: SD-33472-0001
SHEET NO.: 3 OF 8

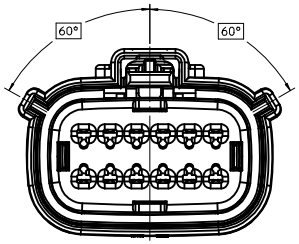
SIZE: A1

THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION

SHEET DESCRIPTION

KEY CONFIGURATIONS CONT.

2X6



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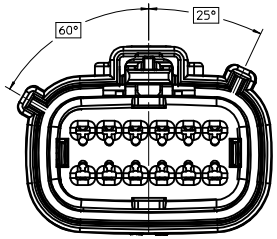

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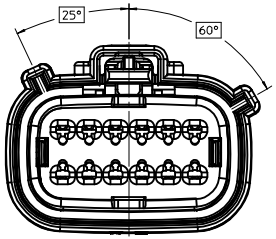

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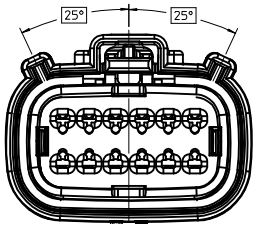
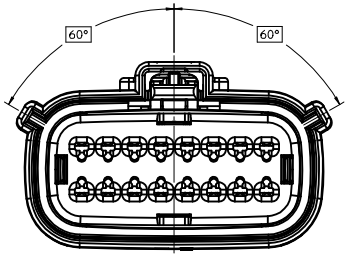
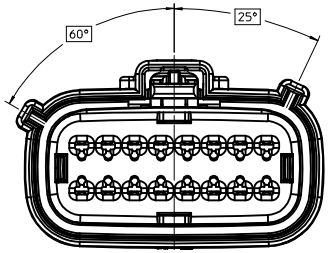


KEY D

2X8



KEY A



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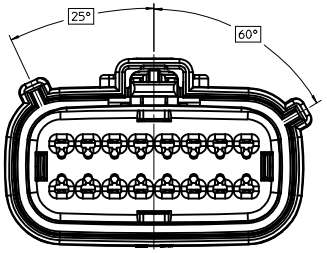
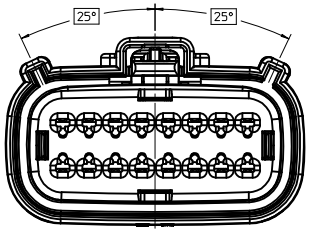


KEY C



KEY D

2X10 (SEE SD-33472-201)

ENTER DESCRIPTION
EC NO: UAU2014-0961 2015/03/19
DRWN: JZUZELSKI 2015/04/17
CHKD:
APPR: VKOSHY
DESCRIPTION
REV

A3

QUALITY SYMBOLS

GENERAL TOLERANCES (UNLESS SPECIFIED)

	mm	INCH
4 PLACES	± ---	± ---
3 PLACES	± ---	± ---
2 PLACES	± 0.10	± ---
1 PLACE	± 0.2	± ---
0 PLACE	± ---	± ---

ANGULAR ± 1 °

DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS

DIMENSION STYLE: MM ONLY
SCALE: 3:1
DESIGN UNITS: METRIC
THIRD ANGLE PROJECTION

DRAWN BY: APROFFITT DATE: 2014/05/14
CHECKED BY: DATE:
APPROVED BY: VKOSHY DATE: 2014/06/27
MATERIAL NO.: SEE NOTE 2a.

TITLE
MX150 RCPT
DUAL ROW SEALED ASSEMBLY
MAT SEAL

molex

DOCUMENT NO.: SD-33472-0001
SHEET NO.: 4 OF 8

SIZE A1

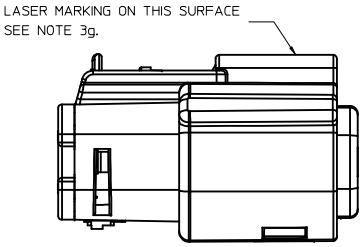
THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION

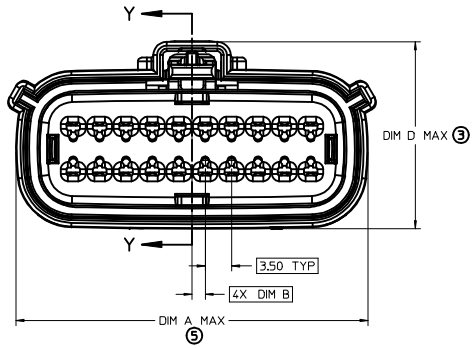
SHEET DESCRIPTION

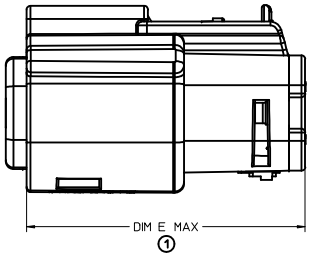
RECEPTACLE CONNECTOR ASSEMBLY

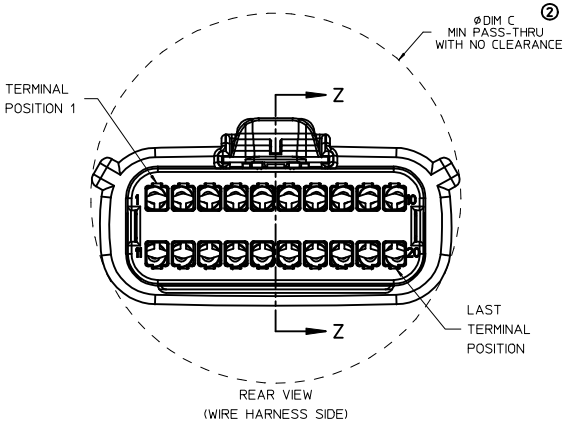
CHARTED DIMENSIONS

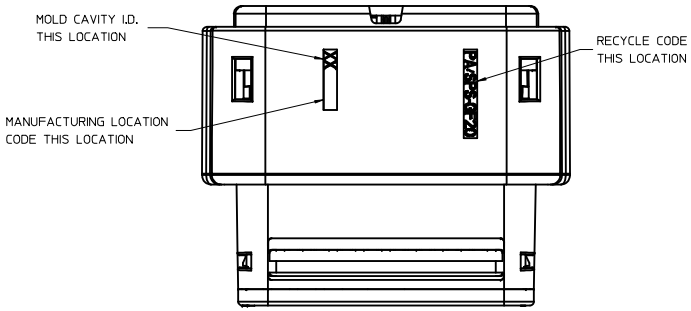
DESCRIPTION	DIMENSIONS						
	A	B	C	D	E	F	G
2X3 W/ CLIPSLOT	22.25	3.50	30.50	N/A	37.65	27.96	4.0±0.4
2X3 W/O CLIPSLOT	22.25	3.50	26.24	24.90	37.65	N/A	4.0±0.4
2X6 W/ CLIPSLOT	32.75	1.75	35.58	N/A	37.65	27.76	2.75±0.50
2X6 W/O CLIPSLOT	32.75	1.75	35.58	24.90	37.65	N/A	2.75±0.40
2X8 W/O CLIPSLOT	39.80	1.75	42.25	24.90	37.65	N/A	4.0±0.4

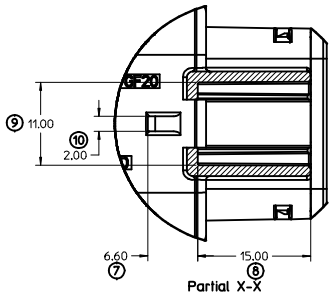


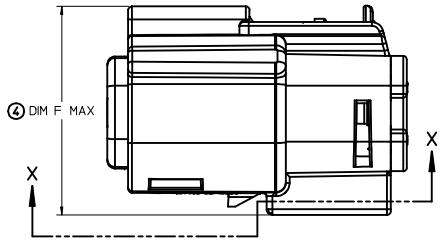


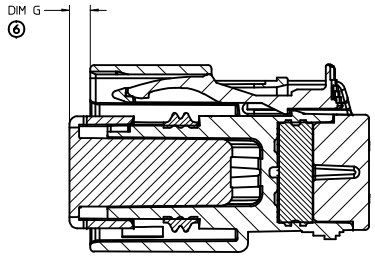






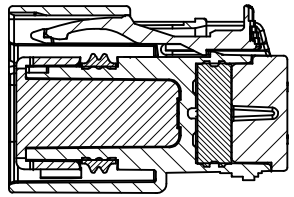






PRIMARY LOCK REINFORCEMENT (PLR) SHOWN
IN PRE-STAGED POSITION

SECTION Y-Y



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

SECTION Z-Z

ENTER DESCRIPTION
EC NO: UAU2014-0981 2015/03/19
DRWN: JZUZELSKI
CHKD:
APPR: VKOSHY 2015/04/17
REV DESCRIPTION

A3

QUALITY SYMBOLS

GENERAL TOLERANCES (UNLESS SPECIFIED)

	mm	INCH
4 PLACES	± ---	± ---
3 PLACES	± ---	± ---
2 PLACES	± 0.10	± ---
1 PLACE	± 0.2	± ---
0 PLACE	± ---	± ---

ANGULAR ± 1 °

DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS

DIMENSION STYLE: MM ONLY

SCALE: 3:1

DESIGN UNITS: METRIC

THIRD ANGLE PROJECTION

DRAWN BY: APROFFITT DATE: 2014/05/14

CHECKED BY: DATE:

APPROVED BY: VKOSHY DATE: 2014/06/27

MATERIAL NO.: SEE NOTE 2a.

TITLE: MX150 RCPT
DUAL ROW SEALED ASSEMBLY
MAT SEAL

molex

DOCUMENT NO.: SD-33472-0001

SHEET NO.: 5 OF 8

SIZE: A1

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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.

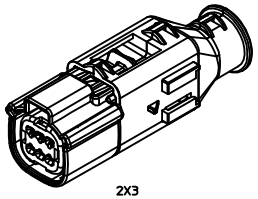
-BACKSHELL DESIGN IS OWNED BY SCHLEMMER.

-FOR ADDITIONAL INFORMATION SEE THE BACKSHELL COMPONENT DRAWING SD-34951-0001.

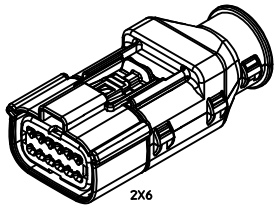
BACKSHELL CUSTOMER
MODEL NUMBER LEGEND

34951-XXXX

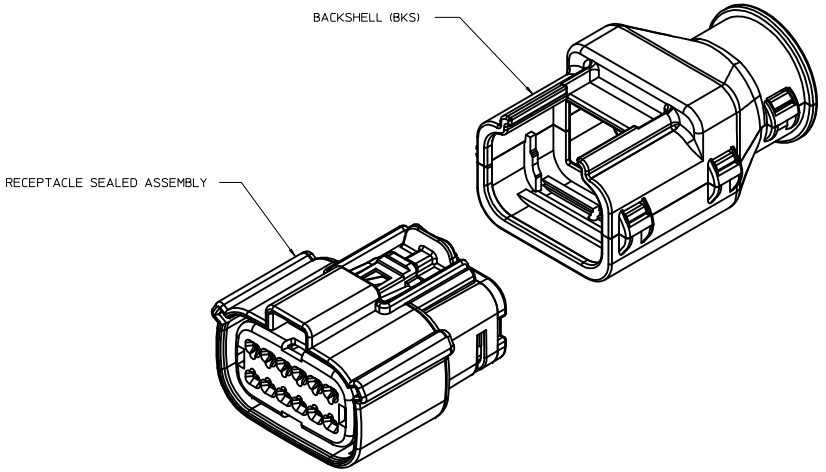
- CUSTOMER MODEL COMPONENTS
  - 0 - BACKSHELL ONLY
  - 1 - BACKSHELL & MX150 HOUSING KEY A ASSEMBLY
  - 2 - BACKSHELL & MX150 HOUSING KEY B ASSEMBLY
  - 3 - BACKSHELL & MX150 HOUSING KEY C ASSEMBLY
  - 4 - BACKSHELL & MX150 HOUSING KEY D ASSEMBLY
- BACKSHELL FEATURES
  - 1 - WITH RIBS
  - 2 - WITHOUT RIBS
- MX150 CIRCUIT SIZE 04, 06, 08, 12, 16, 20



2X3



2X6



ENTER DESCRIPTION EC NO: UAU2014-0981 2015/03/19 DRWN: ZUZELSKI 2015/04/17 CHKD: APPR: VKOSHY DESCRIPTION REV A3	QUALITY SYMBOLS =0 =0 =0	GENERAL TOLERANCES (UNLESS SPECIFIED) mm / INCH 4 PLACES ± --- / ± --- 3 PLACES ± --- / ± --- 2 PLACES ± 0.10 / ± --- 1 PLACE ± 0.2 / ± --- 0 PLACE ± --- / ± --- ANGULAR ± 1 ° DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS	DIMENSION STYLE: MM ONLY DRAWN BY: APROFFITT DATE: 2014/05/14 CHECKED BY: DATE: APPROVED BY: VKOSHY DATE: 2014/06/27 MATERIAL NO.: SEE NOTE 2a.	SCALE: 4:1 DESIGN UNITS: METRIC THIRD ANGLE PROJECTION TITLE: MX150 RCPT DUAL ROW SEALED ASSEMBLY MAT SEAL molex DOCUMENT NO.: SD-33472-0001 SHEET NO.: 6 OF 8 SIZE: A1	THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION
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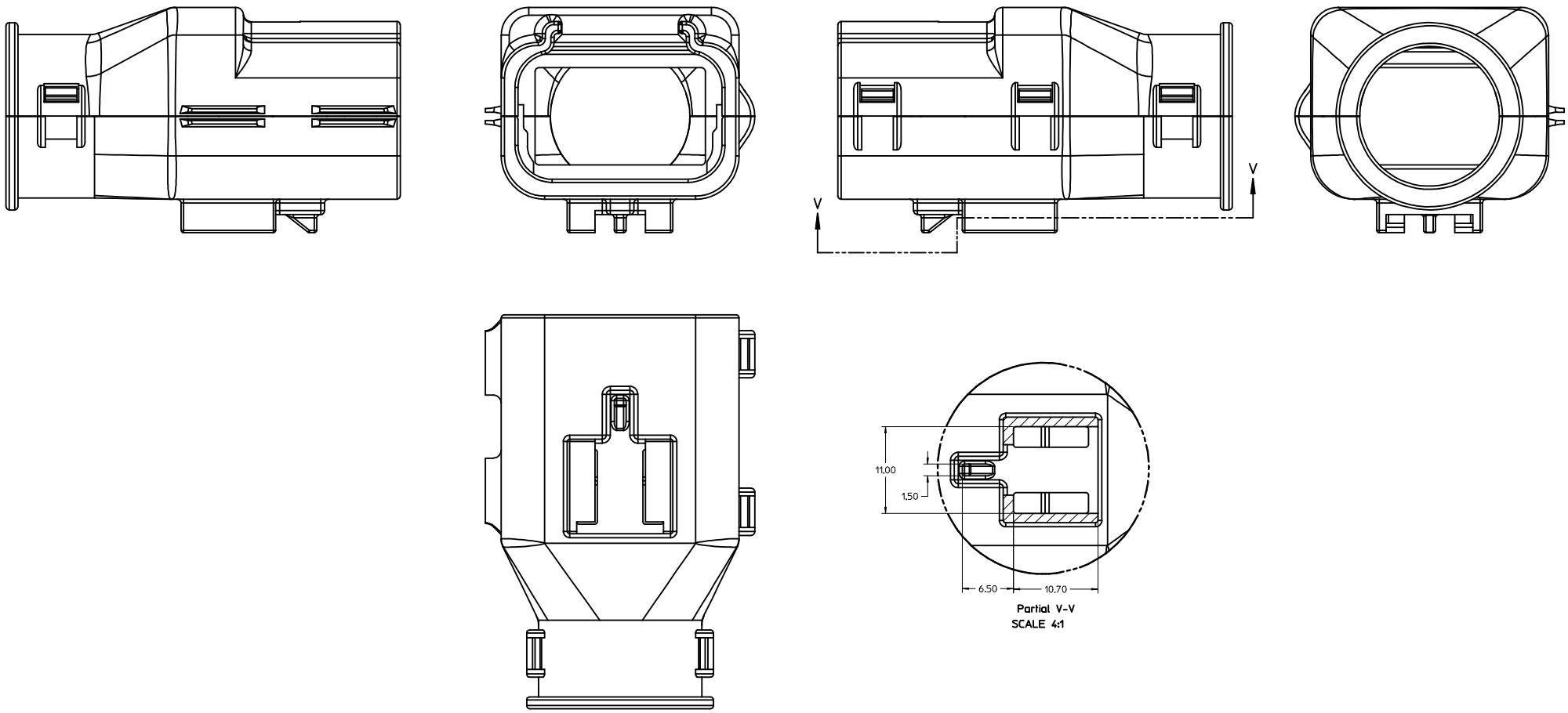
SHEET DESCRIPTION
BACKSHELL



Partial V-V
SCALE 4:1

ENTER DESCRIPTION EC NO: UAU2014-0981 DRWN: JZUZELSKI 2015/03/19 CH'KD: APPR: VKOSHY 2015/04/17 REV DESCRIPTION A3	QUALITY SYMBOLS $\sqrt{E_A}$ =0 $\sqrt{E_C}$ =0 $\sqrt{E_B}$ =0	GENERAL TOLERANCES (UNLESS SPECIFIED) mm / INCH 4 PLACES ± --- ± --- 3 PLACES ± --- ± --- 2 PLACES ± 0.10 ± --- 1 PLACE ± 0.2 ± --- 0 PLACE ± --- ± --- ANGULAR ± 1 ° DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS	DIMENSION STYLE MM ONLY DRAWN BY APROFFITT DATE 2014/05/14 CHECKED BY DATE APPROVED BY VKOSHY DATE 2014/06/27 MATERIAL NO. SEE NOTE 2a. SIZE A1	SCALE 4:1 DESIGN UNITS METRIC THIRD ANGLE PROJECTION TITLE MX150 RCPT DUAL ROW SEALED ASSEMBLY MAT SEAL molex DOCUMENT NO. SD-33472-0001 SHEET NO. 7 OF 8		

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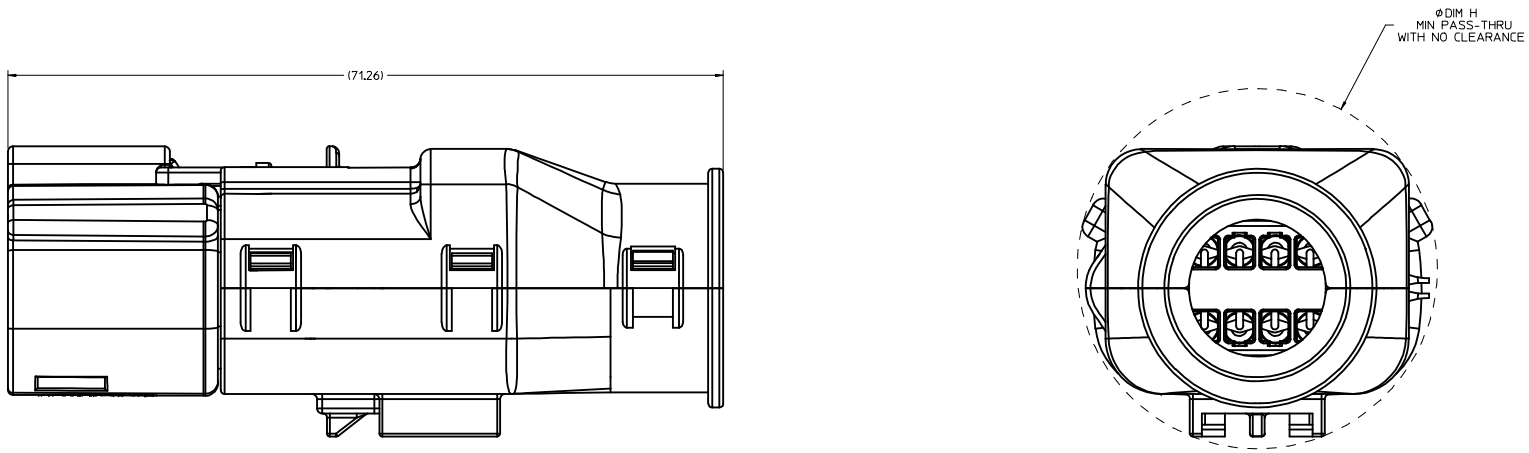
tb_frame_A1_P_AM_T
Rev. G 2012/01/11

SHEET DESCRIPTION
BACKSHELL CONFIGURATIONS

CHARTED DIMENSIONS	
DESCRIPTION	DIMENSIONS
	H
2X3 W/ CLIPSLOT	TBD
2X3 W/O CLIPSLOT	28.50
2X6 W/O CLIPSLOT	35.83



RECEPTACLE SEALED ASSEMBLY WITH RECEPTACLE BACKSHELL

ENTER DESCRIPTION EC NO: UAU2014-0981 DRWN: JZUZELSKI 2015/03/19 CH'KD: APPR: VKOSHY 2015/04/17 REV DESCRIPTION A3	QUALITY SYMBOLS $\sqrt{E_A}$ =0 $\sqrt{E_C}$ =0 $\sqrt{E_B}$ =0	GENERAL TOLERANCES (UNLESS SPECIFIED) mm / INCH 4 PLACES ± --- ± --- 3 PLACES ± --- ± --- 2 PLACES ± 0.10 ± --- 1 PLACE ± 0.2 ± --- 0 PLACE ± --- ± --- ANGULAR ± 1 ° DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS	DIMENSION STYLE MM ONLY DRAWN BY APROFFITT DATE 2014/05/14 CHECKED BY DATE APPROVED BY VKOSHY DATE 2014/06/27 MATERIAL NO. SEE NOTE 2a. SIZE A1	SCALE 4:1 DESIGN UNITS METRIC THIRD ANGLE PROJECTION TITLE MX150 RCPT DUAL ROW SEALED ASSEMBLY MAT SEAL molex DOCUMENT NO. SD-33472-0001 SHEET NO. 8 OF 8		

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