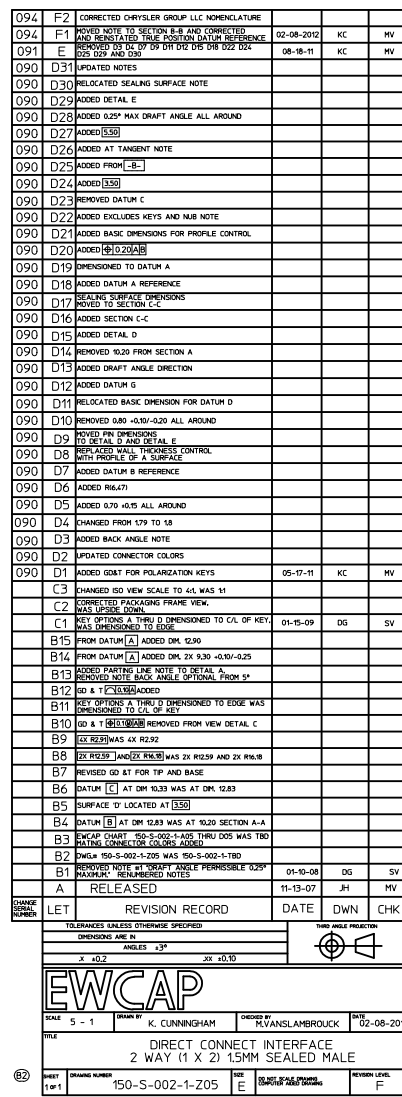


NOTICE

THIS DRAWING OR PORTIONS OF IT, ARE CONTROLLED BY THE ELECTRICAL WIRING COMPANIES APPLICATION PARTNERSHIP (EWCAP), A SUBGROUP OF THE UNITED STATES CONSORTIUM FOR AUTOMOTIVE RESEARCH (USCAR). USCAR IS A PARTNERSHIP BETWEEN CHRYSLER GROUP LLC, FORD MOTOR COMPANY AND GENERAL MOTORS CORPORATION. ANY CHANGE TO A EWCAP CONTROLLED PORTION OF THIS DRAWING, INCLUDING A "RECORD CHANGE" MUST BE APPROVED, IN WRITING, BY THE RESPONSIBLE EWCAP MEMBER FROM EACH COMPANY. THE MEMBER FROM THE COMPANY REQUESTING TO SIGN FOR HIS OR HER COMPANY IS RESPONSIBLE FOR OBTAINING ALL NECESSARY APPROVALS WITHIN THAT COMPANY PRIOR TO SIGNING FOR APPROVAL OF THE CHANGE. EWCAP EXPRESSLY DISCLAIMS ANY LIABILITY FOR CHANGING EITHER THE EWCAP CONTROLLED PORTION OF THE DRAWING OR ANY ASSOCIATED TOOLING BEFORE RECEIVING AN APPROVAL SIGNATURE BY AN AUTHORIZED REPRESENTATIVE FROM EACH EWCAP PARTNER. REFERENCE TO THE SIGNED APPROVAL FOR THIS DRAWING MUST BE ENTERED IN THIS DRAWING'S CONTROL COLUMN.

NOTES: UNLESS OTHERWISE SPECIFIED (D31)

1. ALL DIMENSIONS SHOWN IN MILLIMETERS.
2. DIMENSIONING AND TOLERANCING PER ASME Y14.5M, THE CAD MODEL.
3. 0.25 RADI ON ALL CORNERS SHOWN SHARP.
4. UNSPECIFIED RADI: 0.25 EXCEPT AS NOTED.
5. STANDARD COLORS FOR POLARIZATION SEE CHART. TOLERANCE REQUIRES APPROVAL BY AUTHORIZED PERSON.
6. REFER TO "SAE/USCAR 12 CONNECTOR GUIDELINES" FOR ADDITIONAL REQUIREMENTS.
7. EXCEPT WHERE NOTED, DRAW ON OUTSIDE SURFACES IS PERMISSIBLE WITH TOLERANCE.
8.  SYMBOL INDICATES DRAW DIRECTION.
9. FOR TERMINAL MATERIAL, DIMENSIONAL AND COATING REQUIREMENTS AND ANY BLADE TERMINAL DESIGN INFORMATION NOT SHOWN ON THIS DRAWING SEE EWCP DWG. NO. EWCP-001
10. A FULL SHROUD ON THE MATING CONNECTOR IS REQUIRED TO PROTECT THAT THE CONNECTOR FROM THE POLARIZATION FEATURES OPTIONS A THRU D WILL FUNCTION. THE FULL SHROUD IS 30 PRESENTED IN THE DRAWING. THE LEADER PINS REFERS TO "SAE/USCAR-12 CONNECTOR DESIGN" FOR ADDITIONAL NEWLY FOR ADDITIONAL REQUIREMENTS.
11. REFER TO USCAR/EWCP PART LIST AS FOUND ON WEBSITE <http://www.uscar/learnswg>
12. 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, REFER TO THE CAD MODEL.



150-S-002-1-D05	D	BLACK
150-S-002-1-C05	C	DK GRAY
150-S-002-1-B05	B	LT GRAY
150-S-002-1-A05	A	BLACK
EWCAP P/N	OPTION	MATING CONNECTOR COLOR

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

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



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-33471-000
 - UL V0 CONFIGURATION: PS-160105-0001
 - CONTAINS: PRODUCT INTRODUCTION, PRODUCT SUMMARY, RATINGS (CURRENT, TEMPERATURE, SEALING, AND FLAMMABILITY), TERMINALS, WIRE DIAMETER RANGE, PRODUCT VALIDATION, AND PRODUCT DEVIATIONS.
- c. PACKAGING SPECIFICATION PER MOLEX DRAWING: 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:

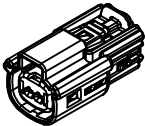
- a. FOR BILL OF MATERIALS SEE:
- STANDARD CONFIGURATION SD-33471-0002
 - UL V0 CONFIGURATION SD-160105-0002

3. DESIGN - GEOMETRY:

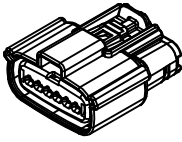
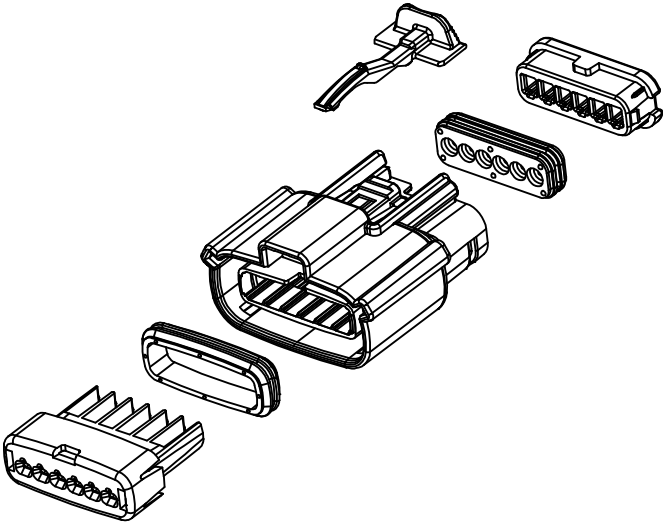
- a. THE 3-D CAD DATA IS BASIC (WITHOUT TOLERANCE) AND MASTER FOR THIS PART WITH THE EXCEPTION OF UNDERLINED DIMENSIONS, DIMENSIONAL INFORMATION NOT SHOWN ON THIS DRAWING IS DEFINED BY THE DATA FILE AT ITS LATEST REVISION.
- b. GEOMETRIC DIMENSIONS AND TOLERANCES PER ASME Y14.5M-2009
- c. EDGES AND UNDIMENSIONED DETAILS PER ISO13715
- d. CORNERS SHOWN AS SHARP TO BE R 0.2 MAX.
- e. LETTERING SHALL BE 0.15 MAX RAISED IN 0.25 MAX RECESS PAD. THIS INCLUDES RECYCLING CODE, CAVITY ID, VENDOR IDENTIFICATION, AND CUSTOMER MATERIAL NUMBER.
- f. VISUAL DEFECTS SHALL MEET COSMETIC STANDARD PS-45499-002 (Class B).
- g. LASER MARKING:
- PART NUMBER
 - DAY OF THE YEAR
 - SHIFT
 - YEAR
- FOR ADDITIONAL INFORMATION SEE SECTION 5 UNDER PROCEDURES IN ES-34735-008.

PACKAGING	
DESCRIPTION	DRAWING NO.
1X2	PK-31300-635
1X6	PK-31300-903

MATING INTERFACE/CONNECTOR DRAWINGS		
DESCRIPTION	INTERFACE DEFINITION	MOLEX INLINE
1X2	*150-S-002-1-Z05	SD-33481-0001
1X6	*150-S-006-1-Z03	SD-33481-0001



1x2



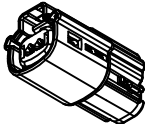
1x6

INSPECTION NUMBER LOG		A	MINOR GEOMETRY CHANGE FOR UL V0
LAST NUMBER: 11		2	UPDATE VIEWSETS
ADDED: 11		1	INITIAL RELEASE
REMOVED:		REV	REV DESCRIPTION
SCALE 1.5:1		SCALE	DESIGN UNITS METRIC
DIMENSION STYLE MM ONLY		THIRD ANGLE PROJECTION	
DRAWN BY DATE 2015/11/04		TITLE	
CHECKED BY DATE		MX150 RCPT	
APPROVED BY DATE 2016/06/14		SINGLE ROW SEALED ASSY	
MATERIAL NO.		MAT SEAL	
SEE NOTE 2a.		molex	
SIZE 1		DOCUMENT NO. SD-33471-0001	
THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION		SHEET NO. 1 OF 8	

ENTER DESCRIPTION EC NO: UAU2016-1641 DRAWN BY: DRWNBETANG CHKD: CHKD: APPR: KDEKOSKI REV	DESCRIPTION 2016/05/10 2016/06/14	QUALITY SYMBOLS ▽=0 ▽=0 ▽=0	GENERAL TOLERANCES (UNLESS SPECIFIED)	
			mm	INCH
			4 PLACES ± .--- ± .---	
			3 PLACES ± .--- ± .---	
DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS	ANGULAR ± 1 °	DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS	2 PLACES ± 0.10 ± .---	
			1 PLACE ± 0.2 ± .---	
			0 PLACE ± .--- ± .---	

SHEET DESCRIPTION

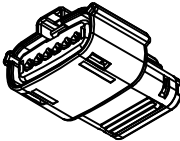
CONFIGURATIONS



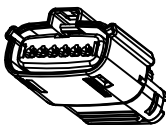
1x2 - STD



1x2 - UL V0*



1x6 - STD



1x6 - UL V0*

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

ENTER DESCRIPTION EC NO: UAU2016-1641 DRAWN BY: CHYKD CHKD: APPR:KDEKOSKI A	2016/05/10 2016/06/14 DESCRIPTION REV	QUALITY SYMBOLS ▽=0 ▽=0 ▽=0	GENERAL TOLERANCES (UNLESS SPECIFIED)			DIMENSION STYLE MM ONLY		SCALE 1.5:1	DESIGN UNITS METRIC	THIRD ANGLE PROJECTION	
				mm	INCH	DRAWN BY APPROFIT	DATE 2015/11/04	TITLE MX150 RCPT SINGLE ROW SEALED ASSY MAT SEAL molex			
			4 PLACES	± ---	± ---	CHECKED BY	DATE				
			3 PLACES	± ---	± ---	APPROVED BY KDEKOSKI					
			2 PLACES	± 0.10	± ---						
			1 PLACE	± 0.2	± ---	MATERIAL NO.		DOCUMENT NO.			
			0 PLACE	± ---	± ---	ANGULAR ± 1 °		SEE NOTE 2a.			
			DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS			SIZE A 1		SD-33471-0001			SHEET NO. 2 OF 8
			THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION								

20	19	18	17	16	15	14	13	12	11	10	9	8	7	6	5	4	3	2	1
SHEET DESCRIPTION KEY CONFIGURATIONS																			
1X2																			

ENTER DESCRIPTION
EC NO: UAU2016-1641
DRWN:BTANG 2016/05/10
CHKD: CHYKD
APPR:KDEKOSKI 2016/06/14
REV

QUALITY SYMBOLS	GENERAL TOLERANCES (UNLESS SPECIFIED)	
	mm	INCH
=0	4 PLACES ± ---	± ---
=0	3 PLACES ± ---	± ---
=0	2 PLACES ± 0.10	± ---
=0	1 PLACE ± 0.2	± ---
=0	0 PLACE ± ---	± ---
	ANGULAR ± 1 °	
	DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS	

DIMENSION STYLE	
MM ONLY	
DRAWN BY	DATE
APPROVED BY	DATE
DATE	2015/11/04
DATE	2016/06/14

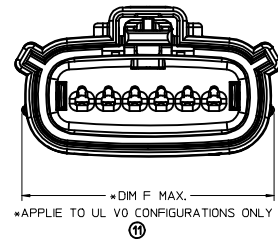
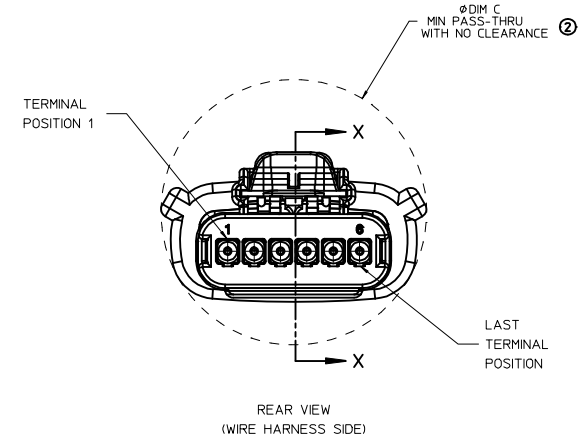
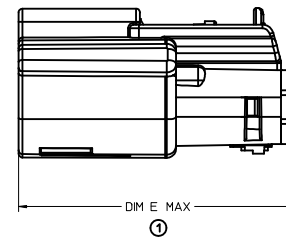
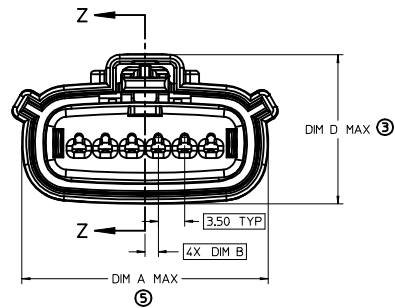
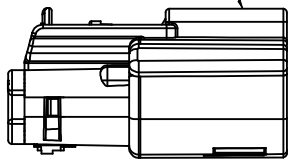
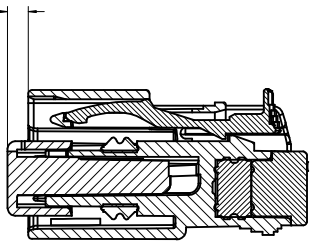
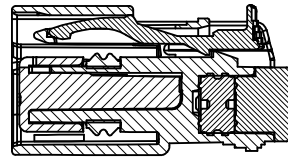
SCALE	3:1	DESIGN UNITS	METRIC		THIRD ANGLE PROJECTION
TITLE					
MX150 RCPT SINGLE ROW SEALED ASSY MAT SEAL					
molex					
DOCUMENT NO.				SHEET NO.	
SD-33471-0001				3 OF 8	
THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION					

SHEET DESCRIPTION

RECEPTACLE CONNECTOR ASSEMBLY - STD

CHARTED DIMENSIONS

DESCRIPTION	DIMENSIONS					
	A	B	C	D	E	F
1X2	19.40	1.75	21.73	20.55	37.65	19.64
1X6	32.75	1.75	35.21	19.90	37.65	N/A
1X6 UL V0	N/A	1.75	35.23	19.90	37.65	33.64

LASER MARKING ON THIS SURFACE
SEE NOTE 3g.MOLD CAVITY I.D.
THIS LOCATIONMANUFACTURING LOCATION
CODE THIS LOCATIONRECYCLE CODE
THIS LOCATION2.75±0.50
⑥PRIMARY LOCK REINFORCEMENT (PLR) SHOWN
IN PRE-STAGED POSITION
SECTION Z-ZPRIMARY LOCK REINFORCEMENT (PLR) SHOWN
IN FINAL-LOCK POSITION
SECTION X-X

ENTER DESCRIPTION EC NO: UAU2016-1641 DRAWN BY: DRWNBKTBANG CHKD: CHYKD: APPR: KDEKOSKI REV: A	QUALITY SYMBOLS ▽=0 ▽=0 ▽=0	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE MM ONLY		SCALE 3:1	DESIGN UNITS METRIC	 THIRD ANGLE PROJECTION
			mm	INCH	DRAWN BY APPROFFITT	DATE 2015/11/04	TITLE MX150 RCPT SINGLE ROW SEALED ASSY MAT SEAL molex DOCUMENT NO. SD-33471-0001	
		4 PLACES	± ---	± ---	CHECKED BY	DATE		
		3 PLACES	± ---	± ---	APPROVED BY KDEKOSKI	DATE 2016/06/14		
		2 PLACES	± 0.10	± ---	SEE NOTE 2a.			
		1 PLACE	± 0.2	± ---	DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS			
		0 PLACE	± ---	± ---	ANGULAR ± 1 °			
				SIZE 1		SHEET NO. 5 OF 8		
THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION								

SHEET DESCRIPTION

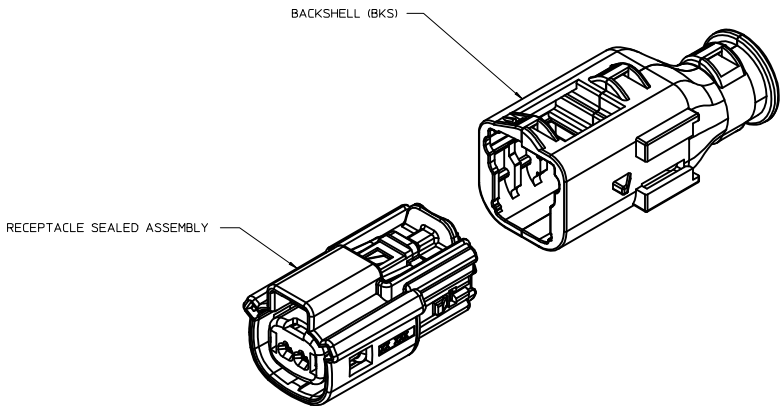
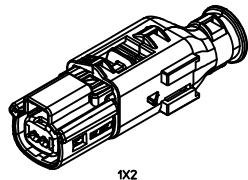
BACKSHELL NOTES

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-33471-0001.
 - 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-34949-0001.

BACKSHELL CUSTOMER
MODEL NUMBER LEGEND

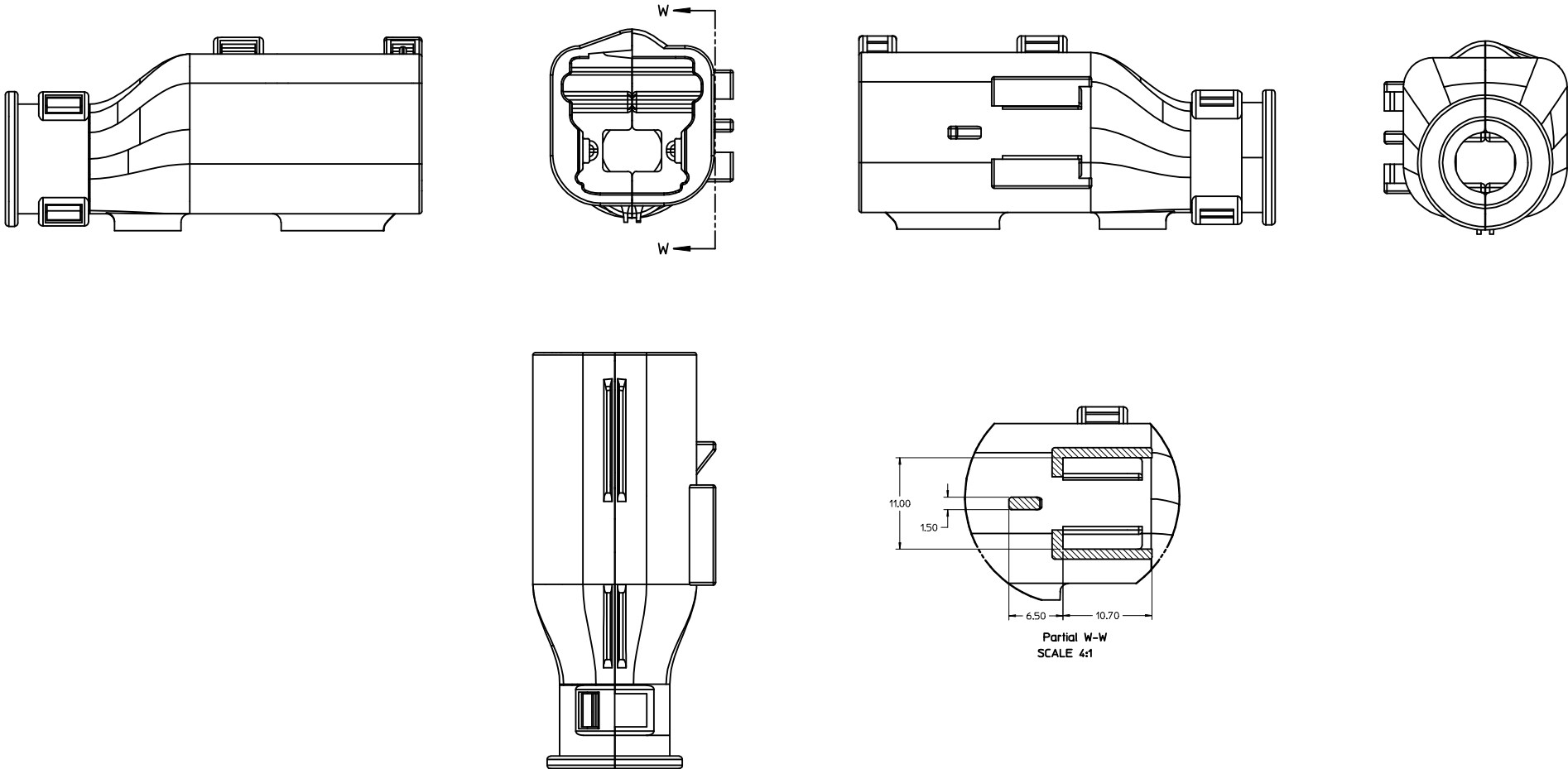
- 34949-XXXX
- CUSTOMER MODEL COMPONENTS
 - 0 - BACKSHELL ONLY
 - 1 - BACKSHELL & MX150 HOUSING KEY A ASSEMBLY
 - 2 - BACKSHELL & MX150 HOUSING KEY B ASSEMBLY
 - 3 - BACKSHELL & MX150 HOUSING KEY C ASSEMBLY
 - 4 - BACKSHELL & MX150 HOUSING KEY D ASSEMBLY
 - BACKSHELL FEATURES
 - 1 - WITH RIBS
 - 2 - WITHOUT RIBS
 - MX150 CIRCUIT SIZE 02, 03, 04, 05, 06



ENTER DESCRIPTION EC NO: UAU2016-1641 DRAWN BY: TANG CHKD: CHYD APPR: KDEKOSKI REV: A	DESCRIPTION 2016/06/14	QUALITY SYMBOLS ▽=0 ▽=0 ▽=0	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE MM ONLY		SCALE 4:1	DESIGN UNITS METRIC	 THIRD ANGLE PROJECTION	TITLE MX150 RCPT SINGLE ROW SEALED ASSY MAT SEAL molex	DOCUMENT NO. SD-33471-0001	SHEET NO. 6 OF 8	
				mm	INCH	DRAWN BY	DATE	APPROFIT 2015/11/04					
			4 PLACES	±---	±---	CHECKED BY	DATE	APPROVED BY					
			3 PLACES	±---	±---	KDEKOSKI		2016/06/14					
			2 PLACES	±0.10	±---	MATERIAL NO.		SEE NOTE 2a.					
			1 PLACE	±0.2	±---	DRAFT WHERE APPLICABLE		SIZE A 1					
			0 PLACE	±---	±---	ANGULAR ± 1 °							
			DRAFT WHERE APPLICABLE		MUST REMAIN WITHIN DIMENSIONS								

SHEET DESCRIPTION

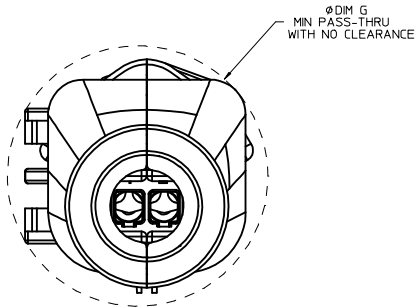
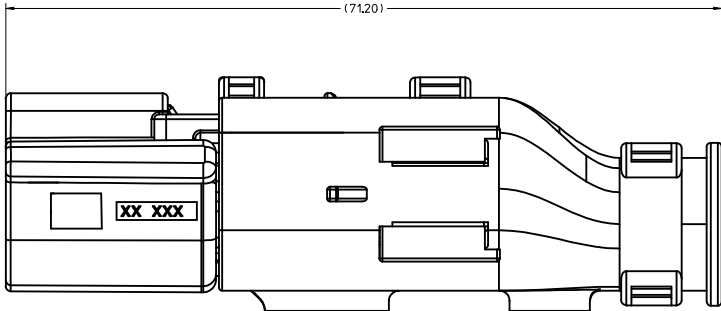
BACKSHELL



ENTER DESCRIPTION EC NO: UAU2016-1641 DRWN: BTANG CHKD: APPR: KDEKOSKI		DESCRIPTION 2016/06/14	QUALITY SYMBOLS ▽=0 ▽=0 ▽=0	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE MM ONLY		SCALE 4:1	DESIGN UNITS METRIC	 THIRD ANGLE PROJECTION
				mm	INCH	DRAWN BY APPROFIT	DATE 2015/11/04	TITLE MX150 RCPT SINGLE ROW SEALED ASSY MAT SEAL molex		
				4 PLACES ± --- ± ---	3 PLACES ± --- ± ---	CHECKED BY	DATE			
				2 PLACES ± 0.10 ± ---	1 PLACE ± 0.2 ± ---	APPROVED BY KDEKOSKI	DATE 2016/06/14			
A	REV			ANGULAR ± 1 °		MATERIAL NO.		DOCUMENT NO.		SHEET NO. 7 OF 8
				DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		SEE NOTE 2a.		SD-33471-0001		
						SIZE A 1		THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION		

SHEET DESCRIPTION
BACKSHELL CONFIGURATIONS

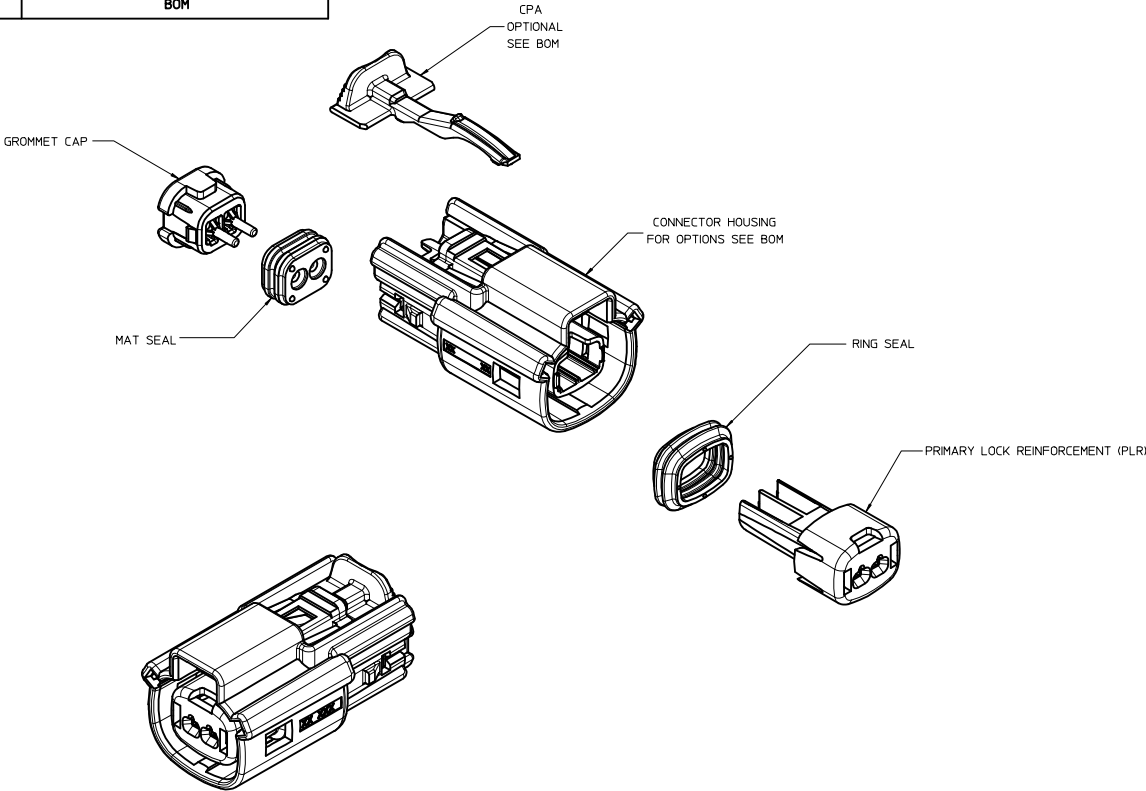
CHARTED DIMENSIONS	
DESCRIPTION	DIMENSIONS
	G
1X2	26.00



RECEPTACLE SEALED ASSEMBLY WITH RECEPTACLE BACKSHELL

ENTER DESCRIPTION EC NO: UAU2016-1641 DRAWN BY: DRW:XBTAG CHKD: CHYKD: APPR:KDEKOSKI 2016/06/14	QUALITY SYMBOLS ▽=0 ▽=0 ▽=0	DESCRIPTION	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE MM ONLY		SCALE 4:1	DESIGN UNITS METRIC	THIRD ANGLE PROJECTION			
					DRAWN BY DATE		TITLE					
			4 PLACES ± --- ± ---		APPROFIT 2015/11/04		MX150 RCPT SINGLE ROW SEALED ASSY MAT SEAL					
			3 PLACES ± --- ± ---		CHECKED BY DATE							
			2 PLACES ± 0.10 ± ---		APPROVED BY DATE							
			1 PLACE ± 0.2 ± ---		KDEKOSKI 2016/06/14		molex					
			0 PLACE ± --- ± ---		MATERIAL NO.						DOCUMENT NO.	
			ANGULAR ± 1 °		SEE NOTE 2a.						SD-33471-0001	
			DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		SIZE A1		THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION					
			REV									SHEET NO. 8 OF 8

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3	RECEPTACLE SEALED ASSEMBLY
4	BACKSHELL NOTES
5	BACKSHELL
6	BACKSHELL CONFIGURATIONS
7	BOM



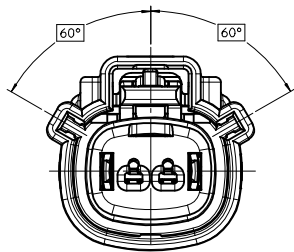
NOTES: VALID UNLESS OTHERWISE SPECIFIED

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-002-1-Z05, AVAILABLE AT <<http://ewcap.uscarteams.org/>>.
-DESIGNED TO MATE WITH BLADE SEALED ASSEMBLY AS SPECIFIED IN DRAWING SD-33481-021
-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 12 mm TO 2.69 mm.
-ASSEMBLY SHIPPED WITH PLR AND CPA IN PRE-LOCK POSITION (SEE SECTION Z-Z 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.
b. PRODUCT SPECIFICATION SEE: PS-33471-000
CONTAINS: PRODUCT INTRODUCTION, PRODUCT SUMMARY, RATINGS (CURRENT, TEMPERATURE, SEALING, AND FLAMMABILITY), AND PRODUCT VALIDATION.
c. PACKAGING SPECIFICATION PER MOLEX DRAWING: PK-31300-635
d. PARTS MUST BE IN COMPLIANCE TO MOLEX CHEMICAL SUBSTANCES FOR PRODUCTS AND PACKAGING SPECIFICATION: ES-40000-5016
e. DATA MUST BE SUBMITTED UNDER THE MOLEX PART NUMBER TO IMDS (COMPANY ID#13255)
2. DESIGN - MATERIALS:
a. SEE BOM TABLE
3. DESIGN - GEOMETRY:
a. THIS IS A 100% CAD GENERATED PART. THE CAD MATHEMATICAL DATA IS THE MASTER FOR THIS PART. FOR DIMENSIONAL OR ANY INFORMATION NOT SHOWN ON THIS DRAWING, ANALYZE THE CAD MODEL.
b. GEOMETRIC DIMENSIONS AND TOLERANCES PER ASME Y14.5M - 1994
c. EDGES AND UNDIMENSIONED DETAILS PER ISO13715
d. CORNERS SHOWN AS SHARP TO BE R 0.2 MAX.
e. LETTERING SHALL BE 0.15 MAX RAISED IN 0.25 MAX RECESS PAD. THIS INCLUDES RECYCLING CODE, CAVITY ID, VENDOR IDENTIFICATION, AND CUSTOMER MATERIAL NUMBER.
f. VISUAL DEFECTS SHALL MEET COSMETIC STANDARD PS-45499-002 (Class B)
g. LASER MARKING: TBD

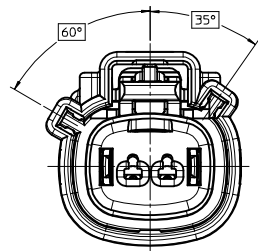
INSPECTION NUMBER LOG
LAST NUMBER USED: 5
ADDED:
REMOVED:

C11	ADD NEW P/N 33471-0224
C10	ADD NEW P/N 33471-0223
C9	UPDATED VIEWSET & NOTES
C8	RENAMED BACKSHELLS
C7	UPDATED CONFIGURATIONS SHEET 3
C6	UPDATED PACKAGING SPECIFICATION
C5	UPDATED GROMMET CAP CALLOUT
C4	REDRAWN, ADDED BACKSHELL
REV	DESCRIPTION

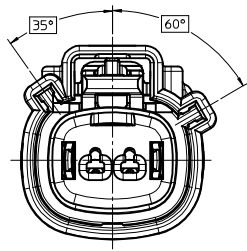
ENTER DESCRIPTION EC NO: UAU2014-1876 DRAWN BY: 2014/06/06 CHKD: 2014/06/19 APPR: VKOSHY	QUALITY SYMBOLS ▽=0 ▽=0 ▽=0	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE MM ONLY		TITLE MX150 1X2 RECEPTACLE SEALED ASSEMBLY MAT SEAL molex	DOCUMENT NO. SD-33471-021	SHEET NO. 1 OF 7
		mm	INCH	DRAWN BY	DATE			
		4 PLACES ± ---	± ---	SVERZYL	06/17/08			
		3 PLACES ± ---	± ---	CHECKED BY	DATE			
2 PLACES ± 0.10	± ---	DGRIFITHS	06/18/08					
1 PLACE ± 0.2	± ---	APPROVED BY	DATE					
0 PLACE ± ---	± ---	VKOSHY	2010/11/04					
ANGULAR ± 3 °		MATERIAL NO.		SEE BOM				
DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		SIZE D		THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION				



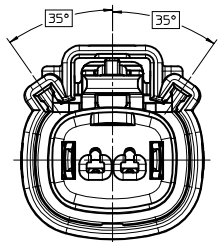
KEY A



KEY B



KEY C

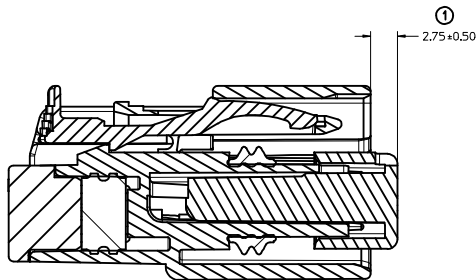
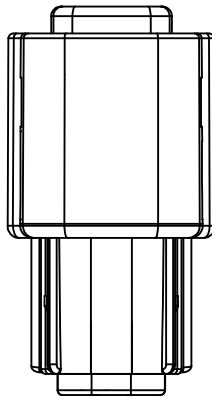
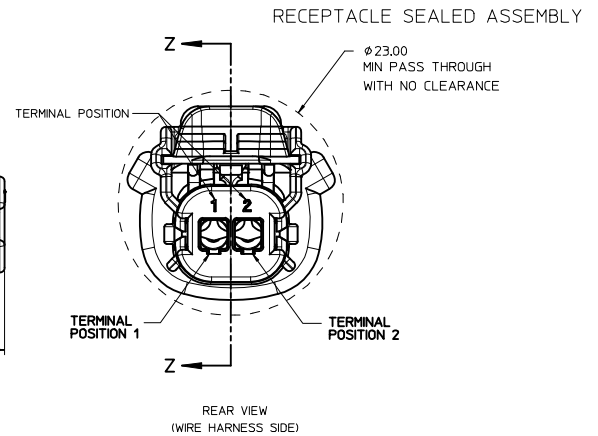
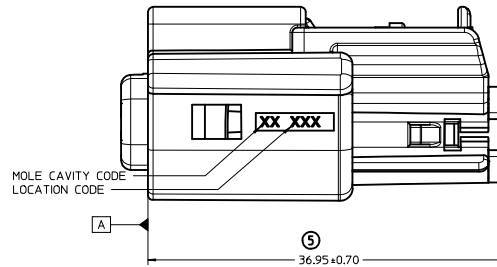
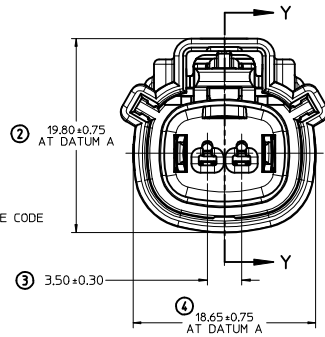
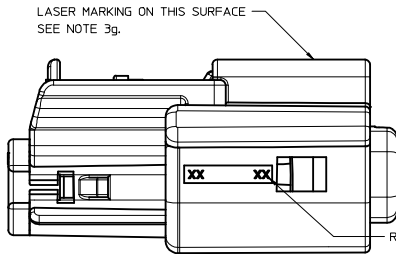


KEY D

KEY CONFIGURATIONS

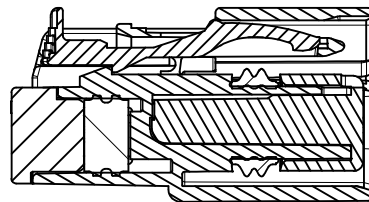
ENTER DESCRIPTION EC NO: UAU2014-1876 DRAWN BY CHKD: APPR: VKOSHY C11	QUALITY SYMBOLS ▽=0 ▽=0 ▽=0	DESCRIPTION 2011/06/06 2011/06/19	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE MM ONLY		SCALE 4:1	DESIGN UNITS METRIC	 THIRD ANGLE PROJECTION			
				mm	INCH	DRAWN BY SVERZYL	DATE 06/17/08	TITLE MX150 1X2 RECEPTACLE SEALED ASSEMBLY MAT SEAL				
			4 PLACES	± ---	± ---	CHECKED BY	DATE					
			3 PLACES	± ---	± ---	DGRIFITHS	06/18/08					
			1 PLACE	± 0.10	± ---	APPROVED BY	DATE					
			0 PLACE	± 0.2	± ---	VKOSHY	2010/11/04					
			ANGULAR ± 3 °		MATERIAL NO.		DOCUMENT NO.					
			DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		SEE BOM		SD-33471-021		SHEET NO. 2 OF 7			
					SIZE D		THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION					

20 19 18 17 16 15 14 13 12 11 10 9 8 7 6 5 4 3 2 1



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

SECTION Z-Z



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

SECTION Y-Y

ENTER DESCRIPTION IEC NO: UAU2014-1876 DRAWN BY: 2014/06/06 CHKD: 2014/06/19 APPR: WKSHY REV: C11	QUALITY SYMBOLS ▽=0 ▽=0 ▽=0	GENERAL TOLERANCES (UNLESS SPECIFIED)			DIMENSION STYLE MM ONLY		SCALE 4:1	DESIGN UNITS METRIC	 THIRD ANGLE PROJECTION	
		mm		INCH		DRAWN BY	DATE	TITLE		
		4 PLACES ±		±		SVERZYL	06/17/08	MX150 1X2 RECEPTACLE SEALED ASSEMBLY MAT SEAL molex SD-33471-021		
		3 PLACES ±		±		CHECKED BY				DATE
		2 PLACES ±		±0.10		DGRIFTHS				06/18/08
		1 PLACE ±		±0.2		APPROVED BY				DATE
0 PLACE ±		±		VKOSHY		2010/11/04				
ANGULAR ± 3 °		MATERIAL NO.		DOCUMENT NO.		SHEET NO.				
DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		SEE BOM		SD-33471-021		3 OF 7				
SIZE		THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION								

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

BACKSHELL NOTES

BACKSHELL NOTES: VALID UNLESS OTHERWISE SPECIFIED

1. GENERAL:

a. APPLICATION SPECIFICATION SEE: AS-34951-001

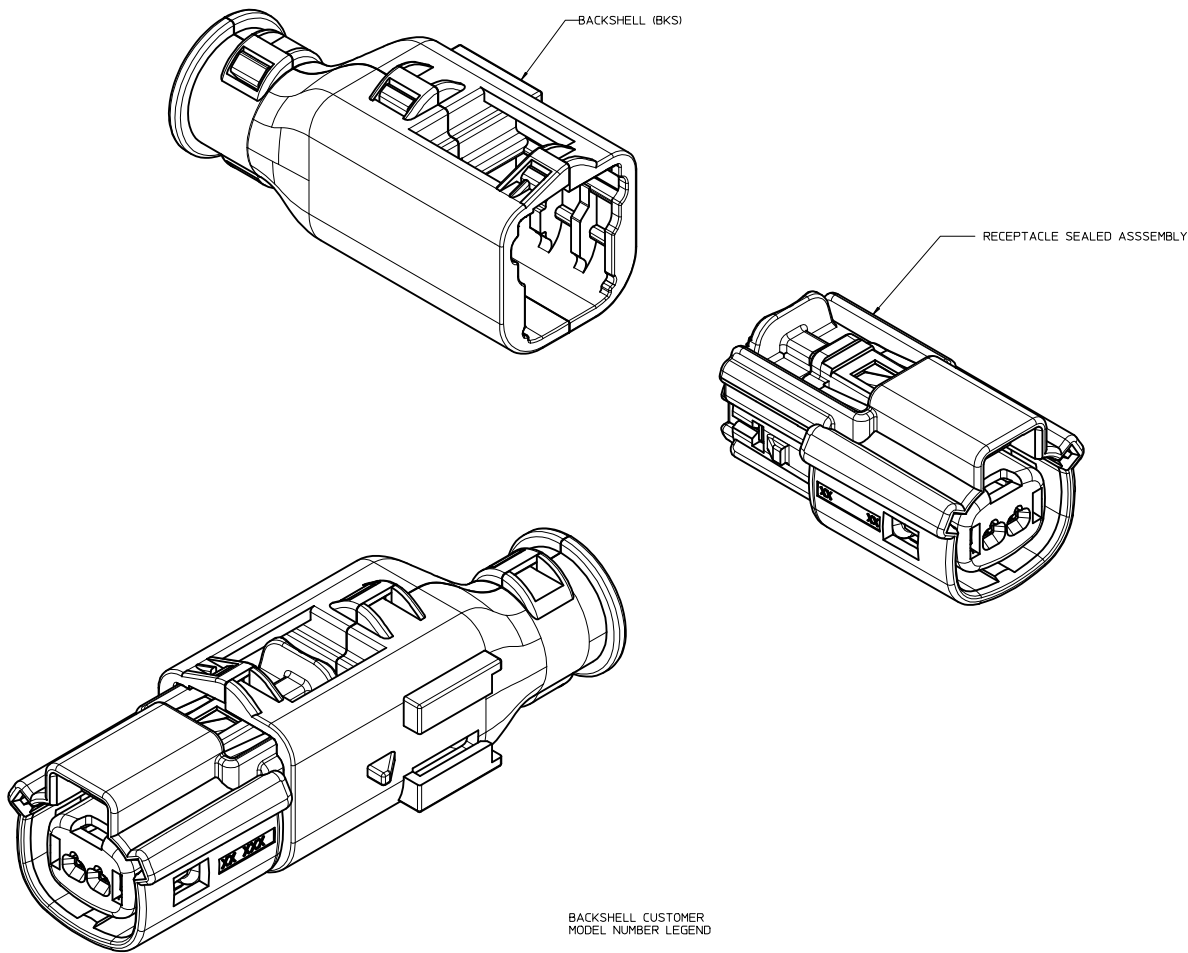
-DESIGNED TO MATE WITH RECEPTACLE SEALED ASSEMBLY SPECIFIED IN MOLEX DRAWING SD-33471-021.

-SYSTEM TO BE USED WITH WIRE WITHIN DIAMETER RANGE OF 1.2mm TO 2.69mm.

-COMPONENTS ARE OPTIONAL AND MUST BE PURCHASED SEPARATELY.

-BACKSHELL DESIGN IS OWNED BY SCHLEMMER.

-FOR ADDITIONAL INFORMATION SEE THE BACKSHELL COMPONENT DRAWING SD-34949-0001.



BACKSHELL CUSTOMER
MODEL NUMBER LEGEND

34949-XXXX

CUSTOMER MODEL COMPONENTS

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

BACKSHELL FEATURES

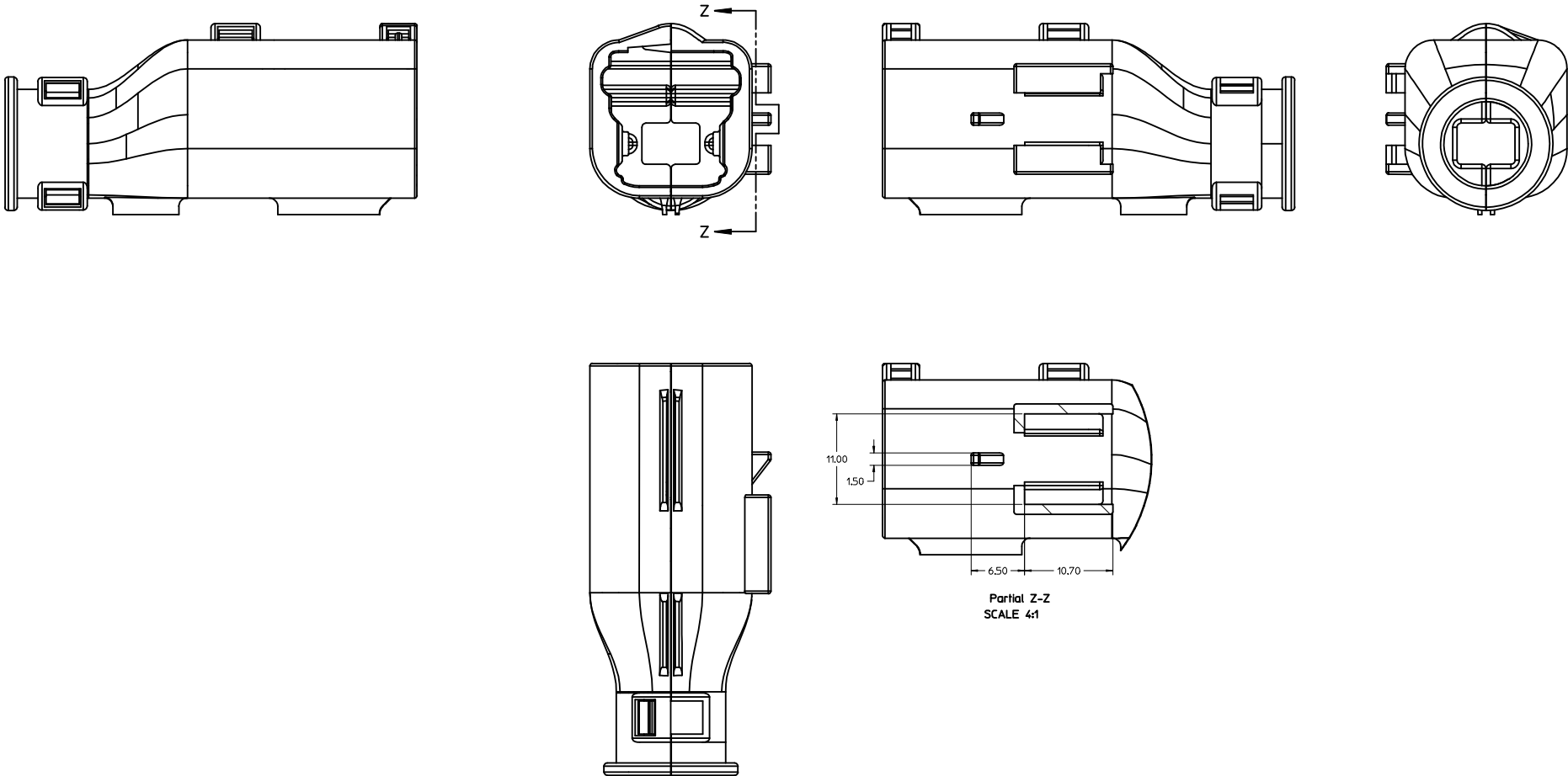
- 1 - WITH RIBS
- 2 - WITHOUT RIBS

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

ENTER DESCRIPTION		QUALITY SYMBOLS		GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE		SCALE	DESIGN UNITS	THIRD ANGLE PROJECTION	
IEC NO: UAU2014-1876		DRAWN BY: 2014/06/06		CHECKED BY: 2014/06/19		APPROVED BY: VKOSHY		4:1	METRIC	MM ONLY	
C11		DESCRIPTION		DATE		DATE		DATE		DATE	
		4 PLACES ±---		mm		INCH		SYERZYL		06/17/08	
		3 PLACES ±---		±---		±---		CHECKED BY: DGRIFITHS		06/18/08	
		2 PLACES ±0.10		±---		±---		APPROVED BY: VKOSHY		2010/11/04	
		1 PLACE ±0.2		±---		±---		MATERIAL NO.		SEE BOM	
		0 PLACE ±---		±---		±---		DOCUMENT NO.		SD-33471-021	
		ANGULAR ± 3°		DRAFT WHERE APPLICABLE		MUST REMAIN WITHIN DIMENSIONS		SIZE D		THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION	
										SHEET NO. 4 OF 7	

20 19 18 17 16 15 14 13 12 11 10 9 8 7 6 5 4 3 2 1

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

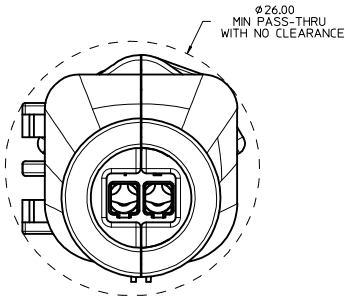
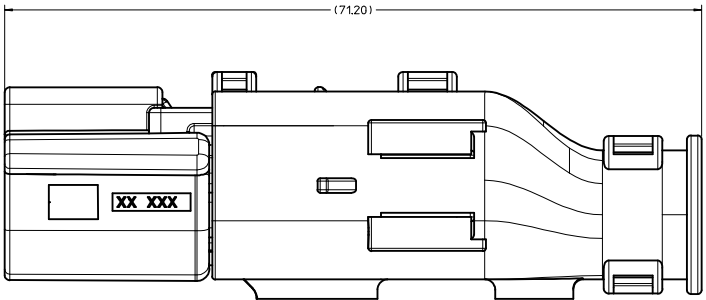


ENTER DESCRIPTION EC NO: UAU2014-1876 DRAWN BY: 2014/06/06 CHKD: APPR: VKOSHY C11	QUALITY SYMBOLS ▽=0 ▽=0 ▽=0	GENERAL TOLERANCES (UNLESS SPECIFIED)	DIMENSION STYLE MM ONLY		SCALE 4:1	DESIGN UNITS METRIC	 THIRD ANGLE PROJECTION
			DRAWN BY DATE		TITLE		
			SVERZYL 06/17/08		MX150 1X2 RECEPTACLE		
			CHECKED BY DATE		SEALED ASSEMBLY		
			DGRIFTHS 06/18/08		MAT SEAL		
APPROVED BY DATE		VKOSHY 2010/11/04		DOCUMENT NO.		SHEET NO. 5 OF 7	
ANGULAR ± 3 °		MATERIAL NO.		SD-33471-021			
DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		SEE BOM					
		SIZE D THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION					

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

20 19 18 17 16 15 14 13 12 11 10 9 8 7 6 5 4 3 2 1

BACKSHELL CONFIGURATIONS



RECEPTACLE SEALED ASSEMBLY WITH RECEPTACLE BACKSHELL

ENTER DESCRIPTION EC NO: UAU2014-1876 DRAWN BY: 2014/06/06 CHKD: APPR: VKOSHY C11	REVISION DESCRIPTION REV	QUALITY SYMBOLS ▽=0 ▽=0 ▽=0	GENERAL TOLERANCES (UNLESS SPECIFIED)				DIMENSION STYLE MM ONLY		SCALE 4:1	DESIGN UNITS METRIC	 THIRD ANGLE PROJECTION	TITLE MX150 1X2 RECEPTACLE SEALED ASSEMBLY MAT SEAL molex
			mm		INCH		DRAWN BY	DATE				
			4 PLACES		± ---		SVERZYL		06/17/08			
			3 PLACES		± ---		CHECKED BY		DATE			
			2 PLACES		± 0.10		DGR IFF ITHS		06/18/08			
			1 PLACE		± 0.2		APPROVED BY		DATE			
			0 PLACE		± ---		VKOSHY		2010/11/04			
			ANGULAR ± 3 °				MATERIAL NO.		DOCUMENT NO.			
			DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS				SEE BOM		SD-33471-021			
			SIZE D		THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION							

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

C11	KEY A W/CPA, BLACK	33471-0224	A						GCP	CPA		2	SALEABLE		34949-0210	34949-0220
	KEY A W/CPA, YELLOW	33471-0223						A	GCO	CPA			SALEABLE		34949-0210	34949-0220
	KEY A, BLACK	33471-0222	A						GCP			2	SALEABLE		34949-0210	34949-0220
	KEY A, BLACK	33471-0221	A						GCP		1	2	SALEABLE		34949-0210	34949-0220
	KEY D W/CPA, STONE GRAY	33471-0217				D			GCP	CPA	1		SALEABLE		34949-0210	34949-0220
	KEY C W/CPA, DARK GRAY	33471-0216				C			GCP	CPA	1		SALEABLE		34949-0210	34949-0220
	KEY B W/CPA, LIGHT GRAY	33471-0215				B			GCP	CPA	1		SALEABLE		34949-0210	34949-0220
	KEY A W/CPA, BLACK	33471-0214	A						GCP	CPA	1		SALEABLE		34949-0210	34949-0220
	KEY D, STONE GRAY	33471-0213				D			GCP		1		SALEABLE		34949-0210	34949-0220
	KEY C, DARK GRAY	33471-0212				C			GCP		1		SALEABLE		34949-0210	34949-0220
	KEY B, LIGHT GRAY	33471-0211				B			GCP		1		SALEABLE		34949-0210	34949-0220
	KEY A, BLACK	33471-0210	A						GCP		1		SALEABLE		34949-0210	34949-0220
	KEY D W/CPA, STONE GRAY	33471-0209				D			GCO	CPA			SALEABLE		34949-0210	34949-0220
	KEY C W/CPA, DARK GRAY	33471-0208				C			GCO	CPA			SALEABLE		34949-0210	34949-0220
	KEY B W/CPA, LIGHT GRAY	33471-0207				B			GCO	CPA			SALEABLE		34949-0210	34949-0220
	KEY A W/CPA, BLACK	33471-0206	A						GCO	CPA			SALEABLE		34949-0210	34949-0220
	KEY D, STONE GRAY	33471-0204				D			GCO				SALEABLE		34949-0210	34949-0220
	KEY C, DARK GRAY	33471-0203				C			GCO				SALEABLE		34949-0210	34949-0220
	KEY B, LIGHT GRAY	33471-0202				B			GCO				SALEABLE		34949-0210	34949-0220
	KEY A, BLACK	33471-0201	A						GCO				SALEABLE		34949-0210	34949-0220
	ASSEMBLY DESCRIPTION	ASSEMBLY PART NUMBER	A	B	C	D	A	GCO	GCP	CPA	1	2	STATUS	COMMENTS	BACKSHELL WITH RIBS	BACKSHELL WITHOUT RIBS
BLOCKED TERMINAL													OPTIONAL ATTACHMENTS SOLD SEPARATELY			
CAVITY WITH A NUMBER INDICATES BLOCKED TERMINAL POSITION																
CAVITY WITHOUT A NUMBER INDICATES OPEN TERMINAL POSITION																

MAT SEAL	ROYAL BLUE	INHERENTLY LUBRICATED SILICONE
RING SEAL	LIGHT BLUE	INHERENTLY LUBRICATED SILICONE
PLR	NATURAL	SPS/NYLON GF20
CPA	RED	PBT GF20
GROMMET CAP (PLUGGED)	BLACK	SPS/NYLON GF20
GROMMET CAP (OPEN)	BLACK	SPS/NYLON GF20
HOUSING KEYING OPTION A	YELLOW	SPS/NYLON GF20
HOUSING KEYING OPTION D	STONE GRAY	SPS/NYLON GF20
HOUSING KEYING OPTION C	DARK GRAY	SPS/NYLON GF20
HOUSING KEYING OPTION B	LIGHT GRAY	SPS/NYLON GF20
HOUSING KEYING OPTION A	BLACK	SPS/NYLON GF20

DESCRIPTION	COLOR	MATERIAL
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BOM/APPLICABLE COMPONENTS TABLE

LEGEND TABLE

ABREVIATION	COMPONENT
A	HOUSING KEY A
B	HOUSING KEY B
C	HOUSING KEY C
D	HOUSING KEY D
GCO	GROMMET CAP, OPEN
GCP	GROMMET CAP, CLOSED
M	MAT SEAL
R	RING SEAL
P	PLR, STANDARD
CPA	CPA
BKS	BACKSHELL

ENTER DESCRIPTION EC NO: UAU2014-1876 DRAWN BY: 2014/06/06 CHKD: 2014/06/19 APPR: VKOSHY REV: C11	QUALITY SYMBOLS ▽=0 ▽=0 ▽=0	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE MM ONLY		SCALE	DESIGN UNITS METRIC	 THIRD ANGLE PROJECTION	TITLE MX150 1X2 RECEPTACLE SEALED ASSEMBLY MAT SEAL molex SD-33471-021	
		4 PLACES ± ---	mm	INCH	DRAWN BY SVERZYL	DATE 06/17/08	DOCUMENT NO. SD-33471-021			
		3 PLACES ± ---	mm	INCH	CHECKED BY DGRIFTHS	DATE 06/18/08				
		2 PLACES ± 0.10	mm	INCH	APPROVED BY VKOSHY	DATE 2010/11/04				
		1 PLACE ± 0.2	mm	INCH	MATERIAL NO. SEE BOM					SHEET NO. 7 OF 7
ANGULAR ± 3 °		DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		SIZE D THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION						