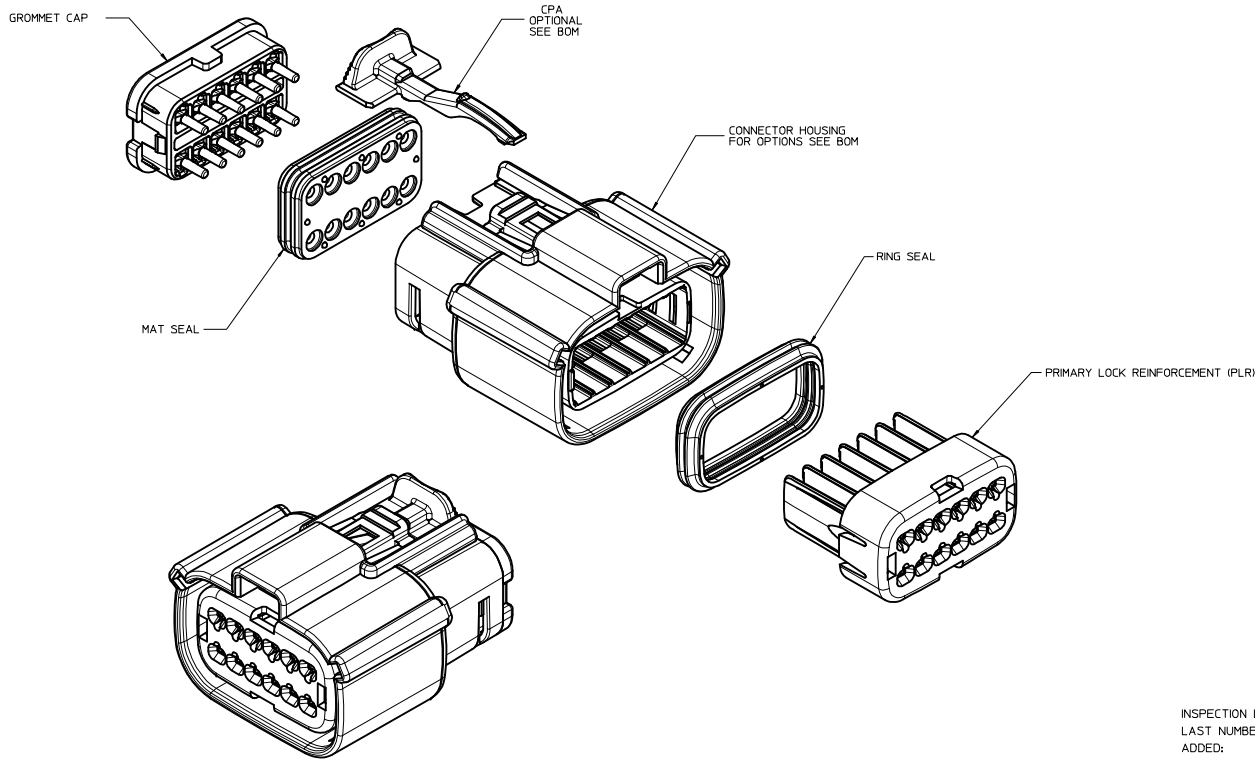


TABLE OF CONTENTS	
SHEET NO.	SHEET DESCRIPTION
1	NOTES
2	KEY CONFIGURATIONS
3	RECEPTACLE SEALED ASSEMBLY
4	BACKSHELL NOTES
5	BACKSHELL
6	BACKSHELL CONFIGURATIONS
7-9	BOM



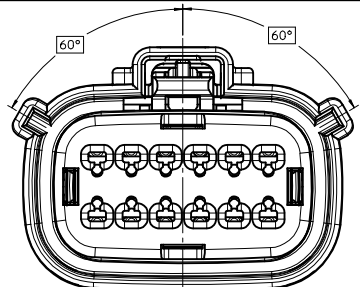
NOTES: VALID UNLESS OTHERWISE SPECIFIED

1. GENERAL:
- a. APPLICATION SPECIFICATION SEE: AS-33472-100
- CONTAINS: PRODUCT INTRODUCTION, PRODUCT SUMMARY, CONNECTOR ASSEMBLY, PACKAGING INFORMATION, CONNECTOR MATING, SERVICE INSTRUCTIONS, ELECTRICAL CONTINUITY CHECKING, CRIMPING, AND TROUBLESHOOTING.
 - DESIGNED TO MATE WITH DEVICE CONNECTION AS SPECIFIED IN DRAWING EW/CAP 150-S-012-2-Z01, AVAILABLE AT <<http://ewcap.uscarteam.org/>>.
 - DESIGNED TO MATE WITH BLADE SEALED ASSEMBLY AS SPECIFIED IN DRAWING SD-33482-121
 - 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 2-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-33472-000
- CONTAINS: PRODUCT INTRODUCTION, PRODUCT SUMMARY, RATINGS (CURRENT, TEMPERATURE, SEALING, AND FLAMMABILITY), AND PRODUCT VALIDATION.
- c. PACKAGING SPECIFICATION PER MOLEX DRAWING: PK-31300-903
- d. PARTS MUST BE IN COMPLIANCE TO MOLEX CHEMICAL SUBSTANCES FOR PRODUCTS AND PACKAGING SPECIFICATION ES-40000-506
- e. DATA MUST BE SUBMITTED UNDER THE MOLEX PART NUMBER TO IMDS (COMPANY ID#13255)
- f. FOR INFORMATION ON 2X6 RECEPTACLE SEALED ASSEMBLY WITH CLIP/SLOT SEE SD-33472-131
2. DESIGN - MATERIALS:
- a. SEE BOM TABLE
3. DESIGN - GEOMETRY:
- a. THIS IS A 100% CAD GENERATED PART. THE CAD MATHEMATICAL DATA IS THE MASTER FOR THIS PART. FOR DIMENSIONAL OR ANY INFORMATION NOT SHOWN ON THIS DRAWING, ANALYZE THE CAD MODEL
- b. GEOMETRIC DIMENSIONS AND TOLERANCES PER ASME Y14.5M - 1994
- c. EDGES AND UNDIMENSIONED DETAILS PER ISO13715
- d. CORNERS SHOWN AS SHARP TO BE R 0.2 MAX.
- e. LETTERING SHALL BE 0.15 MAX RAISED IN 0.25 MAX RECESS PAD. THIS INCLUDES RECYCLING CODE, CAVITY ID, VENDOR IDENTIFICATION, AND CUSTOMER MATERIAL NUMBER.
- f. VISUAL DEFECTS SHALL MEET COSMETIC STANDARD PS-45499-002 (Class B).
- g. LASER MARKING: TBD

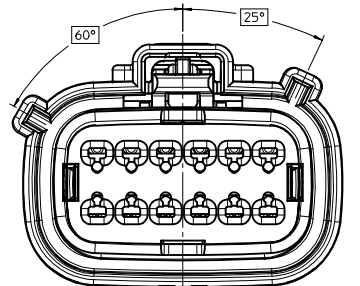
INSPECTION LOG
LAST NUMBER USED:
ADDED:
REMOVED:

T9	ADD NEW P/N 33472-1287
T8	ADD NEW P/N 33472-1286
T7	UPDATED BACKSHELL INFORMATION
T6	UPDATED VIEWSETS & NOTES
T5	RENAMED BACKSHELLS
T4	ADD NEW P/N 33472-1283 33472-1284 33472-1285
T3	ADDED CPA CALL OUT TO P/N 33472-1282
T2	ADD NEW P/N 33472-1282
T1	ADDED BACKSHELLS
T	ADD NEW P/N 33472-1281
S	ADD NEW P/N 33472-1279 33472-1280
R	ADD NEW P/N 33472-1278
Q	REDRAWN
REV	DESCRIPTION

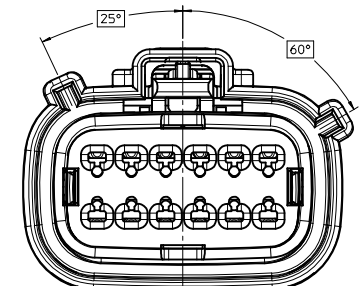
ENTER DESCRIPTION DEC NO: UAU2014-0138 DRAWN BY: 2013/07/26 CHKD: 19 APPR: WOSHY REV	QUALITY SYMBOLS ▽=0 ▽=0 ▽=0	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE MM ONLY		SCALE: 3:1	DESIGN UNITS METRIC	THIRD ANGLE PROJECTION
				DRAWN BY DATE	TITLE			
		4 PLACES ± ± ± ±		D. MARCOUX	06-13-02	MX150 2X6 RECEPTACLE		
		3 PLACES ± ± ± ±		CHECKED BY DATE	SEALED ASSEMBLY			
		2 PLACES ± ± ± ±		D. GRIFFITHS	06-13-02	MAT SEAL		
		1 PLACE ± ± ± ±		APPROVED BY DATE	molex			
0 PLACE ± ± ± ±		F. HOLUB	06-13-02					
		ANGULAR ± 3 °		MATERIAL NO.		DOCUMENT NO.		
		DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		SEE BOM		SD-33472-121		SHEET NO. 1 OF 9
				SIZE D	THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION			



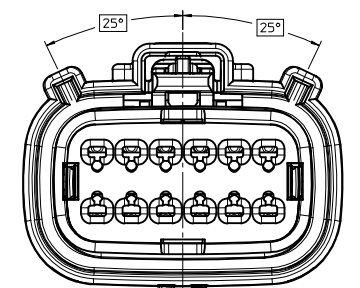
KEY A



KEY B



KEY C

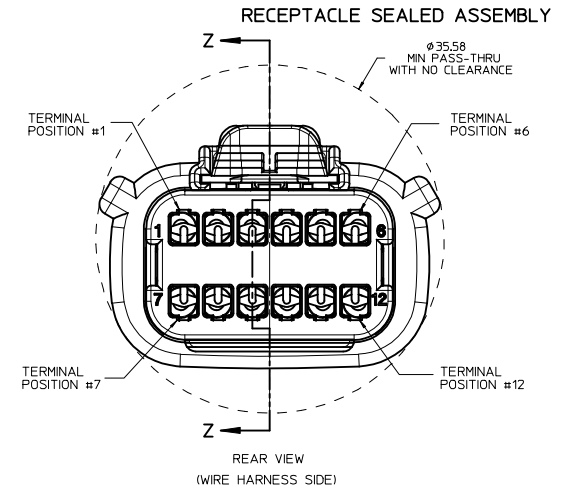
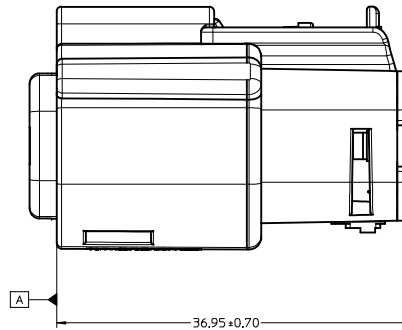
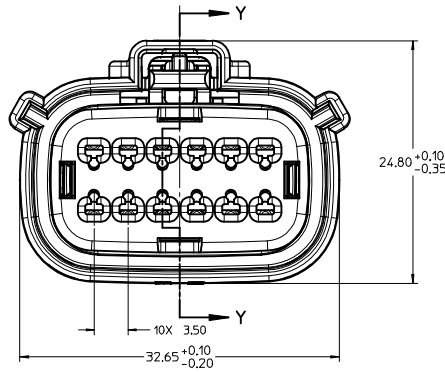
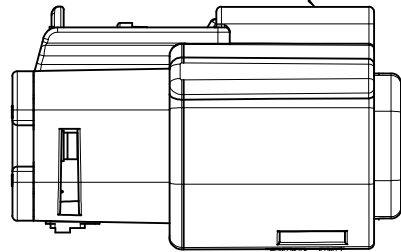


KEY D

KEY CONFIGURATIONS

ENTER DESCRIPTION EC NO: UAU2014-0138 DRAWN BY: 2013/07/26 CHKD: 19 APPR: VKOSHY REV	QUALITY SYMBOLS ▽=0 ▽=0 ▽=0	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE MM ONLY		SCALE 4:1	DESIGN UNITS METRIC	 THIRD ANGLE PROJECTION	
				DRAWN BY D. MARCOUX		DATE 06-13-02	TITLE MX150 2X6 RECEPTACLE SEALED ASSEMBLY MAT SEAL		
				CHECKED BY D. GRIFFITHS		DATE 06-13-02	APPROVED BY F. HOLUB		
				MATERIAL NO. SEE BOM		DOCUMENT NO. SD-33472-121	SHEET NO. 2 OF 9		
		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					

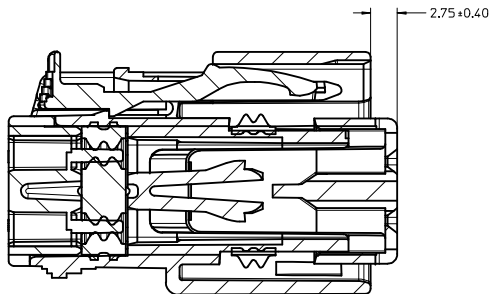
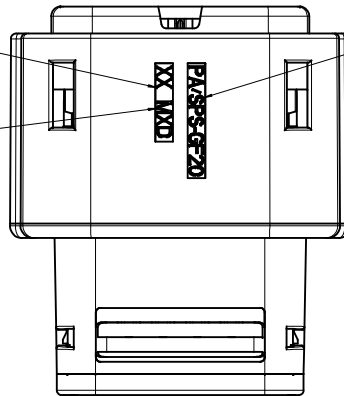
LASER MARKING ON THIS SURFACE
SEE NOTE 3g.



MOLD CAVITY CODE

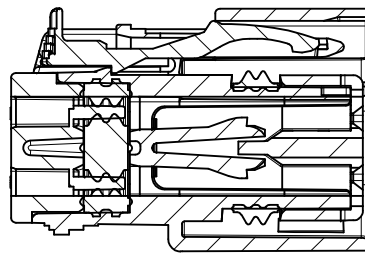
LOCATION CODE

RECYCLE CODE



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

SECTION Z-Z



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

SECTION Y-Y

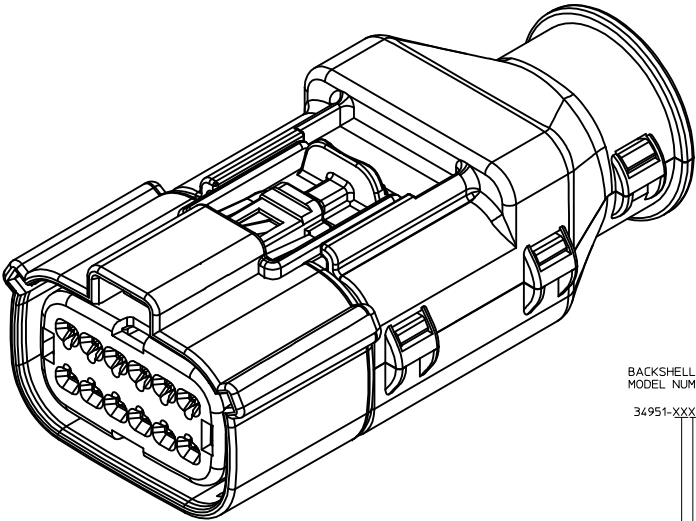
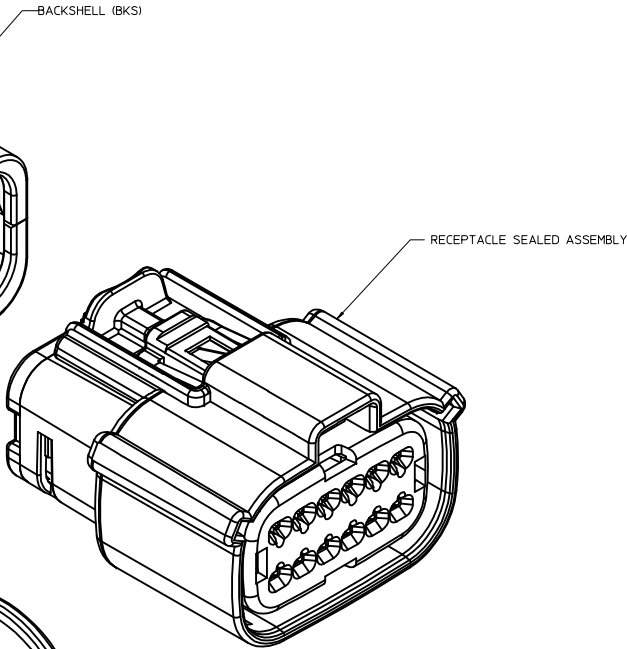
ENTER DESCRIPTION EC NO: UAU2014-0138 DRAWN BY: 2013/07/26 CHKD: 19 APPR: WOSHY REV: 1	QUALITY SYMBOLS ▽=0 ▽=0 ▽=0	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE MM ONLY		SCALE 4:1	DESIGN UNITS METRIC	THIRD ANGLE PROJECTION	
				DRAWN BY D. MARCOUX		DATE 06-13-02		TITLE MX150 2X6 RECEPTACLE SEALED ASSEMBLY MAT SEAL molex DOCUMENT NO. SD-33472-121	
				CHECKED BY D. GRIFFITHS		DATE 06-13-02			
				APPROVED BY F. HOLUB		DATE 06-13-02			
				MATERIAL NO. SEE BOM		SHEET NO. 3 OF 9			
				THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION					

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-33472-121.
 - 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.



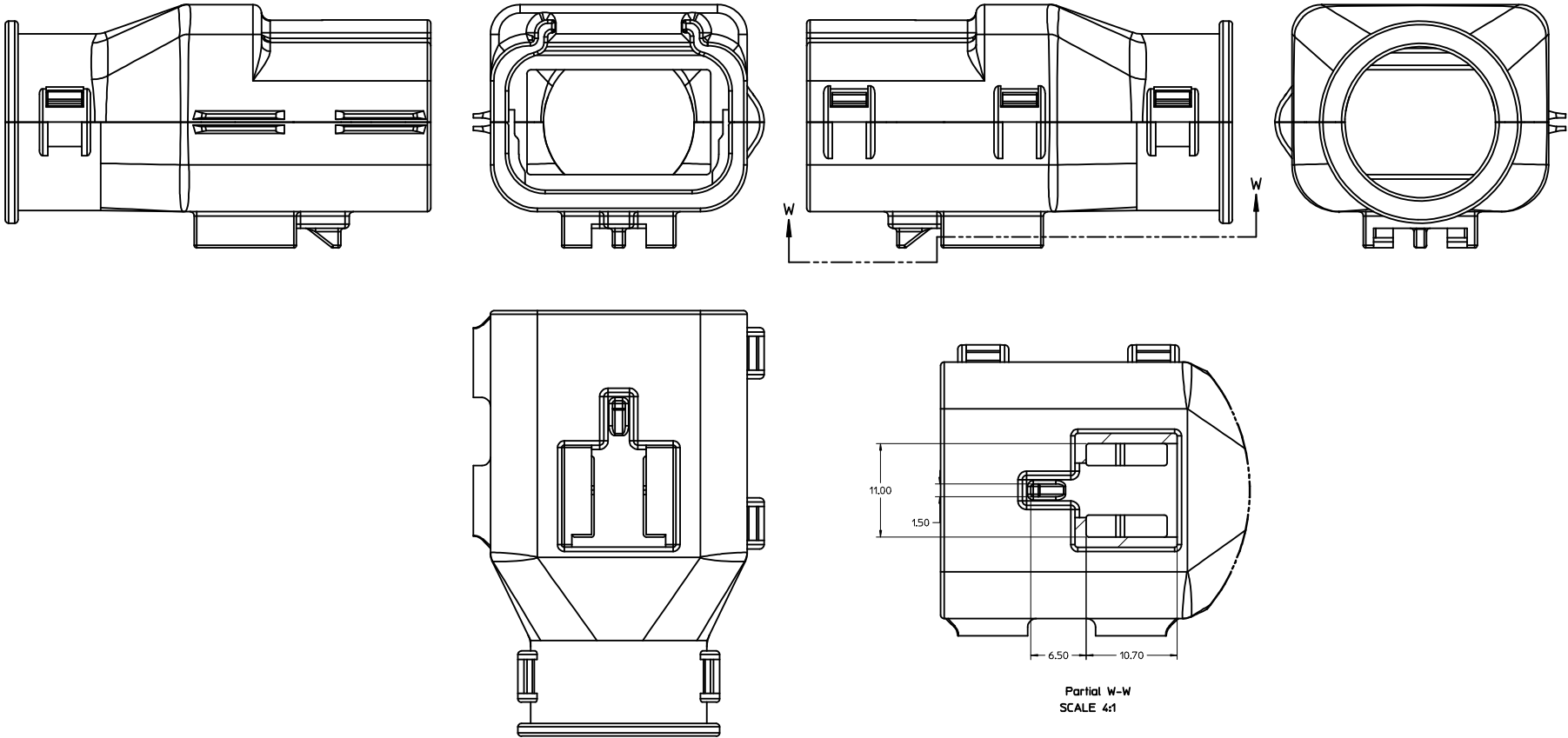
BACKSHELL CUSTOMER
MODEL NUMBER LEGEND

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

ENTER DESCRIPTION IEC NO: UAU2014-0138 DRAWN BY: 2013/07/26 CHKD: 19 APPR: W05HY 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 2X6 RECEPTACLE SEALED ASSEMBLY MAT SEAL molex	DOCUMENT NO. SD-33472-121	SHEET NO. 4 OF 9
				DRAWN BY DATE D. MARCOUX 06-13-02		CHECKED BY DATE D. GRIFFITHS 06-13-02					
				APPROVED BY DATE F. HOLUB 06-13-02		MATERIAL NO. SEE BOM					
		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					
		mm INCH									
		4 PLACES ± --- ± ---									
		3 PLACES ± --- ± ---									
		2 PLACES ± 0.10 ± ---									
		1 PLACE ± 0.3 ± ---									
0 PLACE ± ±											

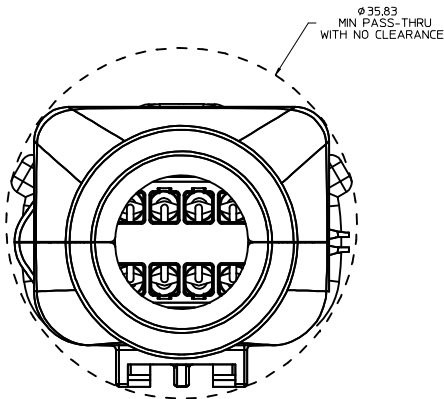
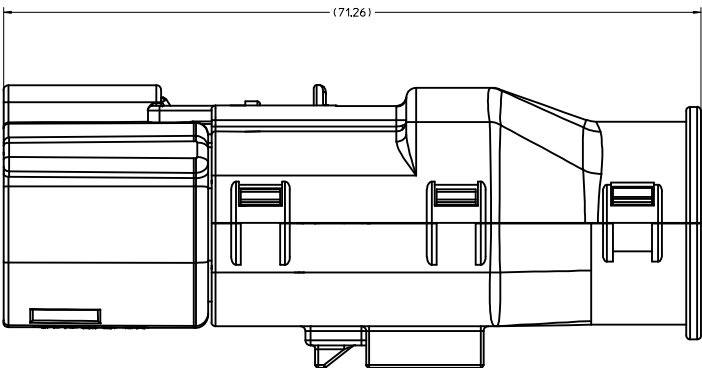
BACKSHELL
THE VIEWS ON THIS SHEET ARE
IN THE CLOSED UN-ASSEMBLED POSITION



ENTER DESCRIPTION EC NO: UAU2014-0138 DRAWN BY: 10 CHKD: 10 APPR: WOSHY 2013/07/26	QUALITY SYMBOLS	GENERAL TOLERANCES (UNLESS SPECIFIED)	DIMENSION STYLE		SCALE	DESIGN UNITS	 THIRD ANGLE PROJECTION
			MM ONLY		4:1	METRIC	
			DRAWN BY DATE		TITLE		
			D. MARCOUX 06-13-02		MX150 2X6 RECEPTACLE		
			CHECKED BY DATE		SEALED ASSEMBLY		
			D. GRIFFITHS 06-13-02		MAT SEAL		
			APPROVED BY DATE		molex		
			F. HOLUB 06-13-02				
			MATERIAL NO.				
			DOCUMENT NO.		SHEET NO.		
SD-33472-121		5 OF 9					
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

BACKSHELL CONFIGURATIONS



RECEPTACLE SEALED ASSEMBLY WITH RECEPTACLE BACKSHELL

ENTER DESCRIPTION DEC NO: UAU2014-0138 DRAWN BY CHKD: APPR: W05HY REV 19	QUALITY SYMBOLS ▽=0 ▽=0 ▽=0	GENERAL TOLERANCES (UNLESS SPECIFIED)	DIMENSION STYLE		SCALE	DESIGN UNITS	THIRD ANGLE PROJECTION
			MM ONLY		4:1	METRIC	
			DRAWN BY DATE		TITLE		
			D. MARCOUX 06-13-02		MX150 2X6 RECEPTACLE		
			CHECKED BY DATE		SEALED ASSEMBLY		
			D. GRIFFITHS 06-13-02		MAT SEAL		
			APPROVED BY DATE		molex		
			F. HOLUB 06-13-02				
		ANGULAR ± 3 °	MATERIAL NO.		DOCUMENT NO.		
		DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS	SEE BOM		SD-33472-121		
			SIZE D THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION		SHEET NO. 6 OF 9		

ABBREVIATION	COMPONENT
A	HOUSING KEY A
B	HOUSING KEY B
C	HOUSING KEY C
D	HOUSING KEY D
GC	GROMMET CAP
M	MAT SEAL
R	RING SEAL
P	PLR
CPA	CPA
BKS	BACKSHELL

ENTER DESCRIPTION EC NO: UAU2014-0138 DRAWN BY 10 CHECKD: APPROV: WOSHY 2013/07/26 2013/08/09	QUALITY SYMBOLS ▽=0 ▽=0 ▽=0	GENERAL TOLERANCES (UNLESS SPECIFIED):		DIMENSION STYLE MM ONLY		SCALE	DESIGN UNITS METRIC	THIRD ANGLE PROJECTION
		mm INCH	DRAWN BY D. MARCOUX	DATE 06-13-02	TITLE MX150 2X6 RECEPTACLE SEALED ASSEMBLY MAT SEAL molex	DOCUMENT NO. SD-33472-121	SHEET NO. 7 OF 9	
		4 PLACES ± + ---	CHECKED BY D. GRIFFITHS	DATE 06-13-02				
		3 PLACES ± + ---	APPROVED BY F. HOLUB	DATE 06-13-02				
		2 PLACES ± 0.10 ---	MATERIAL NO.					
		1 PLACE ± 0.3 ---	ANGULAR ± 3°		SEE BOM			
		0 PLACE ± ---	DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		SIZE D 0			

BOM SHEET 2

KEY A, BLACK	33472-1281	A							1			4				7			9			12		SALEABLE		34951-1210	34951-1220
KEY A, BLACK	33472-1280	A								2						7								SALEABLE		34951-1210	34951-1220
KEY A, BLACK	33472-1279	A														7					11			SALEABLE		34951-1210	34951-1220
KEY B W/CPA, LIGHT GRAY	33472-1278	A	B					CPA												10	11			SALEABLE		34951-1210	34951-1220
KEY A, BLACK	33472-1277	A							1							7						12		SALEABLE		34951-1210	34951-1220
KEY A, BLACK	33472-1276	A							1															SALEABLE		34951-1210	34951-1220
KEY A, BLACK	33472-1275	A							1	2	3	4	5	6		8								SALEABLE		34951-1210	34951-1220
KEY A W/CPA, BLACK	33472-1274	A						CPA						6							11	12		SALEABLE		34951-1210	34951-1220
KEY A, BLACK	33472-1273	A												6				9		10	11	12		SALEABLE		34951-1210	34951-1220
KEY A W/CPA, BLACK	33472-1272	A						CPA						6				9		10	11	12		SALEABLE		34951-1210	34951-1220
KEY A W/CPA, BLACK	33472-1271	A						CPA				4		6						10	11	12		SALEABLE		34951-1210	34951-1220
KEY A W/CPA, BLACK	33472-1270	A						CPA							7			9			11	12		SALEABLE		34951-1210	34951-1220
KEY A W/CPA, BLACK	33472-1269	A						CPA	1	2		4		6	7	8			10	11	12		SALEABLE		34951-1210	34951-1220	
KEY A W/CPA, BLACK	33472-1268	A						CPA	1						7									SALEABLE		34951-1210	34951-1220
KEY D W/CPA, STONE GRAY	33472-1267						D	CPA	1					6	7									SALEABLE		34951-1210	34951-1220
KEY A W/CPA, BLACK	33472-1266	A						CPA													11	12		SALEABLE		34951-1210	34951-1220
KEY D W/CPA, STONE GRAY	33472-1265						D	CPA														12		SALEABLE		34951-1210	34951-1220
KEY C W/CPA, DARK GRAY	33472-1264						C	CPA													11	12		SALEABLE		34951-1210	34951-1220
KEY B W/CPA, LIGHT GRAY	33472-1263	B						CPA														12		SALEABLE		34951-1210	34951-1220
KEY A W/CPA, BLACK	33472-1262	A						CPA								8	9	10	11	12			SALEABLE		34951-1210	34951-1220	
KEY A, BLACK	33472-1261	A															9	10			12		SALEABLE		34951-1210	34951-1220	
KEY D W/CPA, STONE GRAY	33472-1260						D	CPA																SALEABLE		34951-1210	34951-1220
KEY C W/CPA, DARK GRAY	33472-1259						C	CPA																SALEABLE		34951-1210	34951-1220
KEY A, BLACK	33472-1258	A							1	2	3	4	5	6	7	8	9	10	11	12			SALEABLE		34951-1210	34951-1220	
KEY A, BLACK	33472-1257	A														8		10			12		SALEABLE		34951-1210	34951-1220	
KEY A W/CPA, BLACK	33472-1256	A						CPA									9	10	11	12			SALEABLE		34951-1210	34951-1220	
KEY A W/CPA, BLACK	33472-1255	A						CPA												11			SALEABLE		34951-1210	34951-1220	
KEY D, STONE GRAY	33472-1254						D																SALEABLE		34951-1210	34951-1220	
KEY C, DARK GRAY	33472-1253						C																SALEABLE		34951-1210	34951-1220	
KEY A W/CPA, BLACK	33472-1252	A						CPA									9	10					SALEABLE		34951-1210	34951-1220	
KEY A, BLACK	33472-1251	A												6							12		SALEABLE		34951-1210	34951-1220	
VOID KEY	33472-1250																										
KEY D W/CPA, GREEN	33472-1249						D	CPA	1					6	7						12		NOT RECOMMENDED		34951-1210	34951-1220	
KEY C W/CPA, BROWN	33472-1248						C	CPA	1					6	7						12		NOT RECOMMENDED		34951-1210	34951-1220	
KEY B W/CPA, LIGHT GRAY	33472-1247	B						CPA	1					6	7						12		SALEABLE		34951-1210	34951-1220	
KEY A W/CPA, BLACK	33472-1246	A						CPA	1					6	7						12		SALEABLE		34951-1210	34951-1220	
VOID KEY	33472-1245																										
KEY D, GREEN	33472-1244						D		1					6	7						12		NOT RECOMMENDED		34951-1210	34951-1220	
KEY C, BROWN	33472-1243						C		1					6	7						12		NOT RECOMMENDED		34951-1210	34951-1220	
KEY B, LIGHT GRAY	33472-1242	B							1					6	7						12		SALEABLE		34951-1210	34951-1220	
KEY A, BLACK	33472-1241	A							1					6	7						12		SALEABLE		34951-1210	34951-1220	

ASSEMBLY DESCRIPTION	ASSEMBLY PART NUMBER	A	B	C	D	C	D	CPA	1	2	3	4	5	6	7	8	9	10	11	12	STATUS	COMMENTS	BACKSHELL WITH RIBS	BACKSHELL WITHOUT RIBS
BLOCKED TERMINAL																								
Cavity with a number indicates blocked terminal position																								
Cavity without a number indicates open terminal position																								
OPTIONAL ATTACHMENTS SOLD SEPARATELY																								

MAT SEAL	LIGHT BLUE	INHERENTLY LUBRICATED SILICONE
RING SEAL	GREEN	INHERENTLY LUBRICATED SILICONE
PLR	NATURAL	SPS/NYLON GF20
GROMMET CAP	BLACK	SPS/NYLON GF20
CPA	RED	PBT GF20
HOUSING KEYING OPTION D	STONE GRAY	SPS/NYLON GF20
HOUSING KEYING OPTION C	DARK GRAY	SPS/NYLON GF20
HOUSING KEYING OPTION D	GREEN	SPS/NYLON GF20
HOUSING KEYING OPTION C	BROWN	SPS/NYLON GF20
HOUSING KEYING OPTION B	LIGHT GRAY	SPS/NYLON GF20
HOUSING KEYING OPTION A	BLACK	SPS/NYLON GF20
DESCRIPTION	COLOR	MATERIAL
BOM/APPLICABLE COMPONENTS TABLE		

LEGEND TABLE	
ABBREVIATION	COMPONENT
A	HOUSING KEY A
B	HOUSING KEY B
C	HOUSING KEY C
D	HOUSING KEY D
GC	GROMMET CAP
M	MAT SEAL
R	RING SEAL
P	PLR
CPA	CPA
BKS	BACKSHELL

ENTER DESCRIPTION IEC NO: UAU2014-0138 DRAWN BY: CHYK CHECKED BY: APPR: WDSHY 2013/07/26 19	QUALITY SYMBOLS		GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE		SCALE		DESIGN UNITS		THIRD ANGLE PROJECTION					
	▽=0		mm		MM ONLY		DATE		METRIC							
	▽=0		INCH		DRAWN BY		DATE		TITLE							
	▽=0		DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		CHECKED BY		DATE		MX150 2X6 RECEPTACLE SEALED ASSEMBLY MAT SEAL							
					APPROVED BY		DATE		molex							
					MATERIAL NO.		SEE BOM		DOCUMENT NO.		SD-33472-121					
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BOM/APPLICABLE COMPONENTS TABLE	
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LEGEND TABLE

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QUALITY SYMBOLS	
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