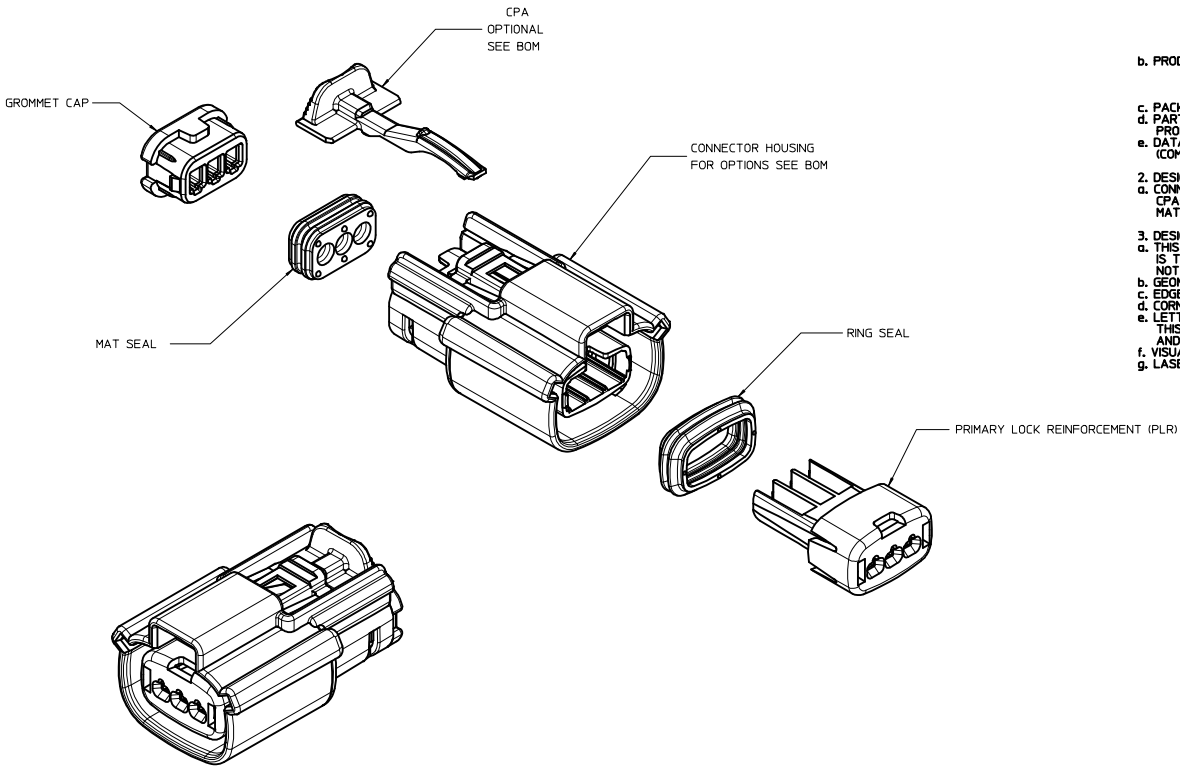


TABLE OF CONTENTS	
SHEET NO.	SHEET DESCRIPTION
1	NOTES
2	KEY CONFIGURATIONS
3	RECEPTACLE SEALED ASSEMBLY
4	BOM



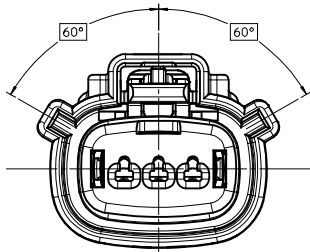
NOTES: VALID UNLESS OTHERWISE SPECIFIED

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-003-1-Z05, AVAILABLE AT <<http://ewcap.uscorteam.org/>>.
 - DESIGNED TO MATE WITH BLADE SEALED ASSEMBLY AS SPECIFIED IN DRAWING SD-33481-031
 - 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 1.2 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. CONNECTOR HOUSING, GROMMET CAP, PLR: SPS/NYLON BLEND 20% GLASS FILLED
- CPA: PBT 20% GLASS FILLED
- MAT SEAL, RING SEAL: INHERENTLY LUBRICATED SILICONE
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 ISO1975
- 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

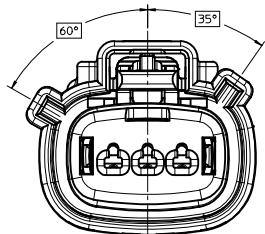
INSPECTION NUMBER LOG
LAST NUMBER USED: 5
ADDED:
REMOVED:

ENTER DESCRIPTION EC NO: UAU2013-0423 DRAWN BY: DRYNKKUMINGHAM CHKD: CHYD APPR: WOSHY 2012/09/17 REV	QUALITY SYMBOLS ▽=0 ▽=0 ▽=0	GENERAL TOLERANCES (UNLESS SPECIFIED) mm INCH 4 PLACES ±.000 ±.000 3 PLACES ±.000 ±.000 2 PLACES ±0.1 ±.000 1 PLACE ±0.30 ±.000 0 PLACE ± ± ANGULAR ± 3 ° DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS	DIMENSION STYLE MM ONLY DRAWN BY: DMARCOUX CHECKED BY: DGRIFITHS APPROVED BY: FHOLUB DATE: 06/18/2002 DATE: 6/18/2002 DATE: 06/18/2002	MATERIAL NO. SEE BOM SIZE D	TITLE MX150 1X3 RECEPTACLE SEALED ASSEMBLY MAT SEAL molex SD-33471-031	DOCUMENT NO.	SHEET NO. 1 OF 4			
								SCALE 3:1	DESIGN UNITS METRIC	THIRD ANGLE PROJECTION
								REV		
								O1 UPDATED NOTES O REDRAWN		

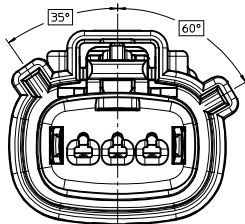
KEY CONFIGURATIONS



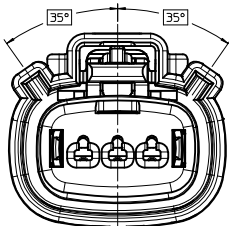
KEY A



KEY B

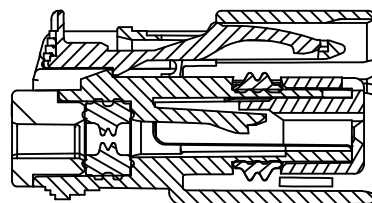
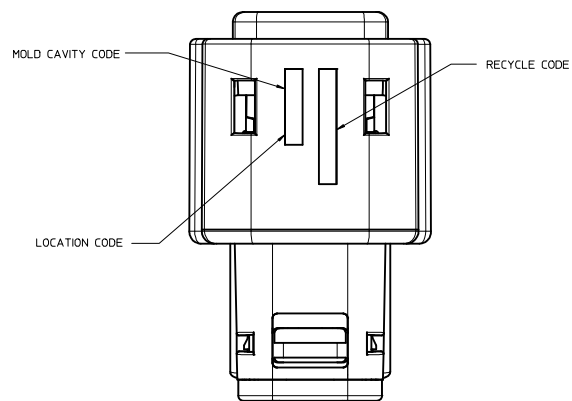
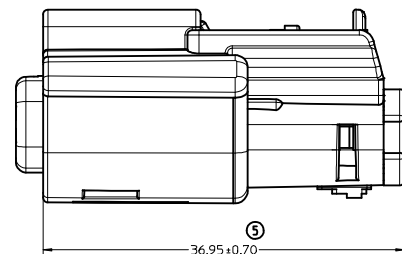


KEY C



KEY D

ENTER DESCRIPTION EC NO. UAU2013-0423 DRAWN/CUNNINGHAM 2012/09/11 CHKD: APPR:WOSHY 2012/09/17	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	±	---	±	---	DMARCOUX	06/18/2002	MX150 1X3 RECEPTACLE	
		3 PLACES	±	---	±	---	CHECKED BY DATE		SEALED ASSEMBLY	
		2 PLACES	±	0.1	±	---	DGRIFTHS	6/18/2002	MAT SEAL	
Q1	DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS	1 PLACE	±	0.30	±	---	APPROVED BY DATE			
		0 PLACE	±	---	±	---	FHOLUB	06/18/2002		
		ANGULAR ± 3 °				MATERIAL NO.		DOCUMENT NO.		
						SEE BOM		SD-33471-031		
						SIZE D		THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION		
								SHEET NO. 2 OF 4		



PRIMARY LOCK REINFORCEMENT (PLR) SHOWN
IN FINAL LOCK POSITION

SECTION Y-Y

ENTER DESCRIPTION EC NO: UAI2015-0423 DPMKIN LINGHAM 2012/09/11 CHKD: APPR: WSHY 2012/09/17		QUALITY SYMBOLS ▽=0 ▽=0 ▽=0	GENERAL TOLERANCES (UNLESS SPECIFIED) mm INCH 4 PLACES ± --- ± --- 3 PLACES ± --- ± --- 2 PLACES ± 0.1 ± --- 1 PLACE ± 0.30 ± --- 0 PLACE ± ±	DIMENSION STYLE MM ONLY DRAWN BY DATE DMARCOUX 06/18/2002 CHECKED BY DATE DGRFFITHS 6/18/2002 APPROVED BY DATE FHOLUB 06/18/2002	SCALE 4:1 DESIGN UNITS METRIC THIRD ANGLE PROJECTION	TITLE MX150 1X3 RECEPTACLE SEALED ASSEMBLY MAT SEAL molex SD-33471-031		SHEET NO. 3 OF 4
Q1		DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		MATERIAL NO. SEE BOM		DOCUMENT NO.		
SIZE D		THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION						

ASSEMBLY PART NUMBER	COLOR	KEYING OPTION	ENTRY TYPE & STATUS X=PLUNGED			CPA	STATUS
			1	2	3		
33471-0301	BLACK	A				-	SALEABLE
33471-0302	LT.GRAY	B				-	SALEABLE
33471-0303	BROWN	C				-	NOT RECOMMENDED--SEE P/N 33471-0343
33471-0304	GREEN	D				-	NOT RECOMMENDED--SEE P/N 33471-0344
33471-0305							VOIDED
33471-0306	BLACK	A				YES	SALEABLE
33471-0307	LT.GRAY	B				YES	SALEABLE
33471-0308	BROWN	C				YES	NOT RECOMMENDED--SEE P/N 33471-0345
33471-0309	GREEN	D				YES	NOT RECOMMENDED--SEE P/N 33471-0346
33471-0310							VOIDED
33471-0311	BLACK	A			X	-	SALEABLE
33471-0312	LT.GRAY	B			X	-	SALEABLE
33471-0313	BROWN	C			X	-	SALEABLE
33471-0314	GREEN	D			X	-	SALEABLE
33471-0315							VOIDED
33471-0316	BLACK	A			X	YES	SALEABLE
33471-0317	LT.GRAY	B			X	YES	SALEABLE
33471-0318	BROWN	C			X	YES	SALEABLE
33471-0319	GREEN	D			X	YES	SALEABLE
33471-0320							VOIDED
33471-0321	BLACK	A	X		X	-	SALEABLE
33471-0322	LT.GRAY	B	X		X	-	SALEABLE
33471-0323	BROWN	C	X		X	-	SALEABLE
33471-0324	GREEN	D	X		X	-	SALEABLE
33471-0325							VOIDED
33471-0326	BLACK	A	X		X	YES	SALEABLE
33471-0327	LT.GRAY	B	X		X	YES	SALEABLE
33471-0328	BROWN	C	X		X	YES	SALEABLE
33471-0329	GREEN	D	X		X	YES	SALEABLE
33471-0330							VOIDED
33471-0331	BLACK	A	X	X	X	-	SALEABLE
33471-0332	LT.GRAY	B	X	X	X	-	SALEABLE
33471-0333	BROWN	C	X	X	X	-	SALEABLE
33471-0334	GREEN	D	X	X	X	-	SALEABLE
33471-0335							VOIDED
33471-0336	BLACK	A		X		YES	SALEABLE
33471-0337	BLACK	A		X		-	SALEABLE
33471-0338	BLACK	A	X	X	X	YES	SALEABLE
33471-0339	BLACK	A	X			-	SALEABLE
33471-0340	DK.GRAY	C				YES	TOOLED BUT NOT VALIDATED
33471-0341	LT.GRAY	B		X		YES	SALEABLE
33471-0342	DK.GRAY	C		X		YES	TOOLED BUT NOT VALIDATED
33471-0343	DK.GRAY	C				-	TOOLED BUT NOT VALIDATED
33471-0344	ST.GRAY	D				-	TOOLED BUT NOT VALIDATED
33471-0345	DK.GRAY	C				YES	TOOLED BUT NOT VALIDATED
33471-0346	ST.GRAY	D				YES	TOOLED BUT NOT VALIDATED

*FOR ASSEMBLY P/N'S 33471-0340 AND 33471-0342 REFER TO SALEABLE KEY OPTION C ASSEMBLY P/N'S ABOVE

ENTER DESCRIPTION
EC NO: UAU2013-0423
DRAWN/CUNNINGHAM 2012/09/11
CHKD:
APPR:W05HY
2012/09/17

REV
DESCRIPTION

QUALITY
SYMBOLS

▽=0
▽=0
▽=0

GENERAL TOLERANCES
(UNLESS SPECIFIED)

mmINCH

4 PLACES ± --- ± ---
3 PLACES ± --- ± ---
2 PLACES ± 0.1 ± ---
1 PLACE ± 0.30 ± ---
0 PLACE ± ±

ANGULAR ± 3 °
DRAFT WHERE APPLICABLE
MUST REMAIN
WITHIN DIMENSIONS

DIMENSION STYLE
MM ONLY

DRAWN BY
DMARCOUX
DATE
06/18/2002

CHECKED BY
DGRIFFIGTHS
DATE
6/18/2002

APPROVED BY
FHOLUB
DATE
06/18/2002

SCALE

DESIGN UNITS
METRIC

THIRD ANGLE
PROJECTION

TITLE
MX150 1X3 RECEPTACLE
SEALED ASSEMBLY
MAT SEAL

molex

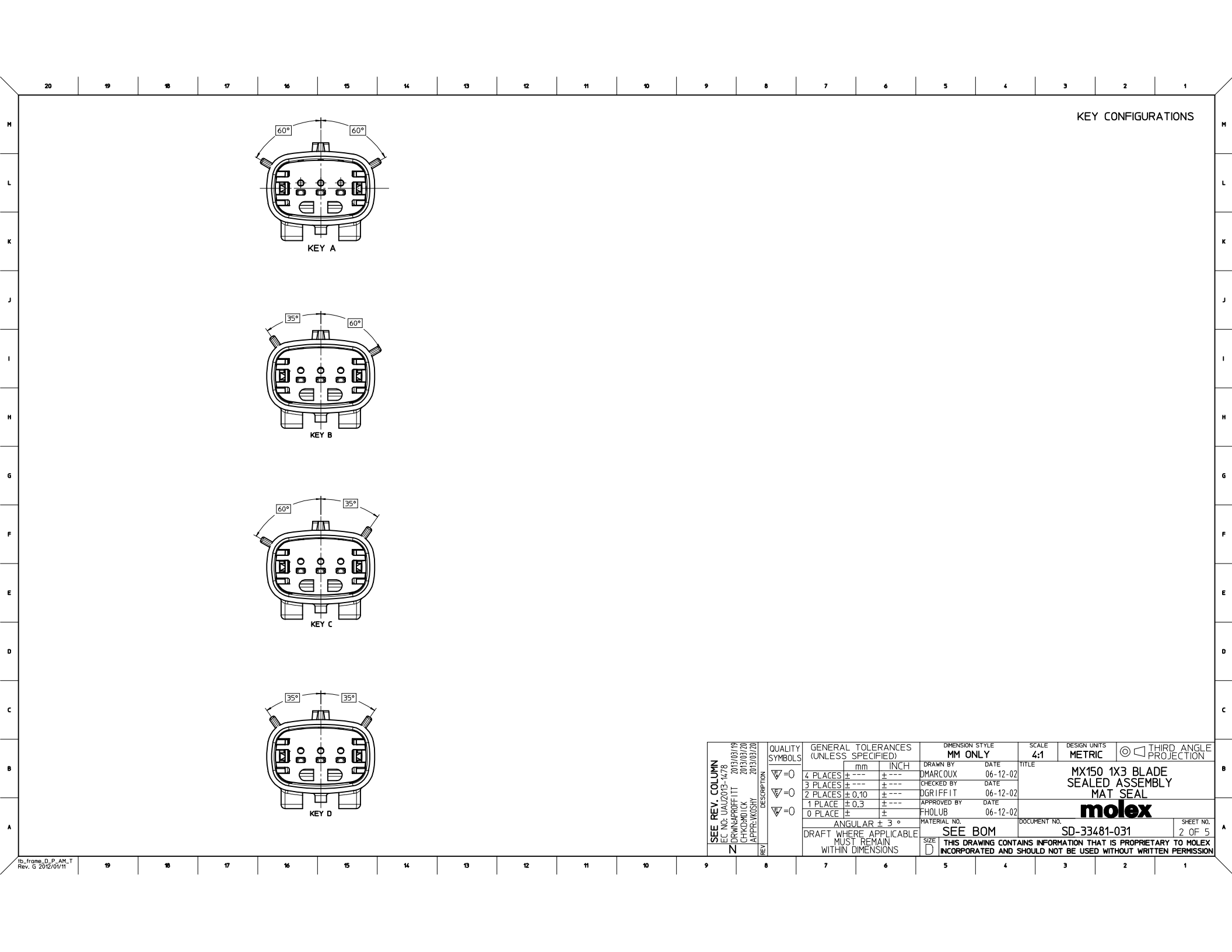
MATERIAL NO.
SEE BOM

DOCUMENT NO.
SD-33471-031

SHEET NO.
4 OF 4

SIZE
D

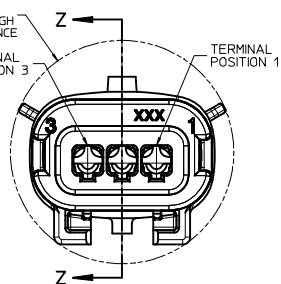
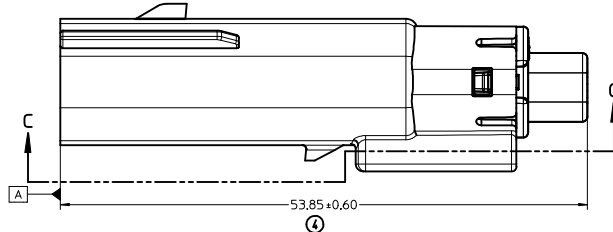
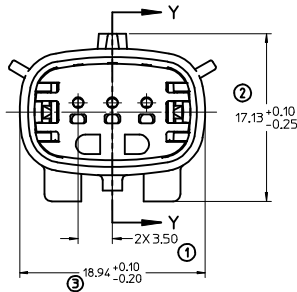
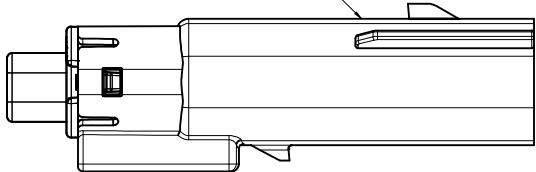
THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX
INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION



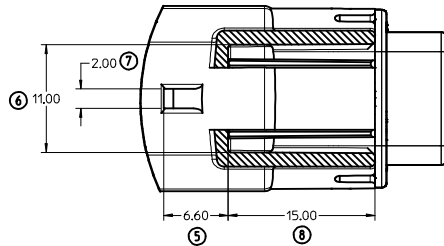
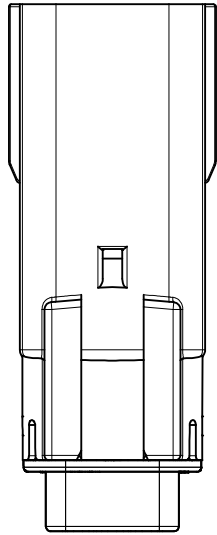
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BLADE SEALED ASSEMBLY

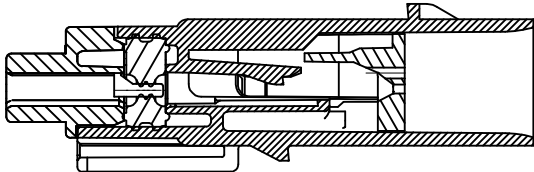
LASER MARKING THIS SURFACE
SEE NOTE 3g.



REAR VIEW
(WIRE HARNESS SIDE)

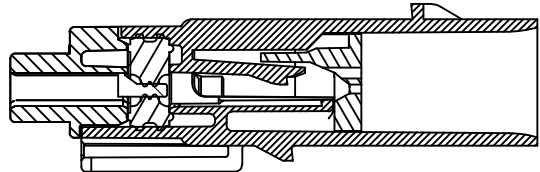


SECTION C-C



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

SECTION Z-Z



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

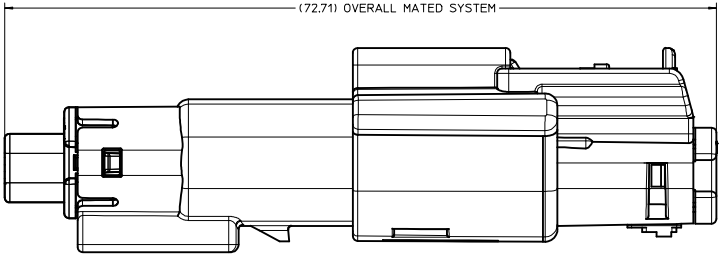
SECTION Y-Y

SEE REV. COLUMN EC NO: UAU2013-1478 DRAWN BY: CHYKHOLOK CHECKED BY: APPR: WOSHY 2013/03/19 2013/03/20 2013/03/20	QUALITY SYMBOLS ▽=0 ▽=0 ▽=0	GENERAL TOLERANCES (UNLESS SPECIFIED) mm INCH 4 PLACES ± --- ± --- 3 PLACES ± --- ± --- 2 PLACES ± 0.10 ± --- 1 PLACE ± 0.3 ± --- 0 PLACE ± ± ANGULAR ± 3 ° DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS	DIMENSION STYLE MM ONLY DRAWN BY: DMARCOUX CHECKED BY: DGRIFFIT APPROVED BY: FHOLUB DATE: 06-12-02 DATE: 06-12-02 DATE: 06-12-02	SCALE 4:1	DESIGN UNITS METRIC	THIRD ANGLE PROJECTION	TITLE MX150 1X3 BLADE SEALED ASSEMBLY MAT SEAL molex	DOCUMENT NO. SD-33481-031	SHEET NO. 3 OF 5

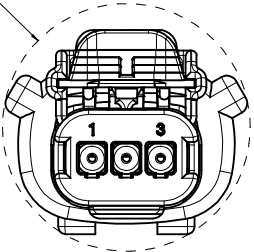
19 18 17 16 15 14 13 12 11 10 9 8 7 6 5 4 3 2 1

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

SYSTEM PACKAGING



Ø25.30
MIN. PASS-THROUGH
WITH NO CLEARANCE



SEE REV. COLUMN EC NO. UAU2013-4278 DRAWN BY: CHYKHOLOK CHECKED BY: APPR. VKOSHY 2013/03/19 2013/03/20 2013/03/20	REV	DESCRIPTION	QUALITY SYMBOLS	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE		SCALE	DESIGN UNITS	 THIRD ANGLE PROJECTION
						MM ONLY		4:1	METRIC	
						DRAWN BY	DATE	TITLE		
						DMARCOUX	06-12-02	MX150 1X3 BLADE		
						CHECKED BY	DATE	SEALED ASSEMBLY		
						DGRIFFIT	06-12-02	MAT SEAL		
						APPROVED BY	DATE	molex		
						FHOLUB	06-12-02			
						MATERIAL NO.	DOCUMENT NO.			
						ANGULAR $\pm 3^{\circ}$		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		4 OF 5				

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

ASSEMBLY PART NUMBER	COLOR	KEYING OPTION	CAVITY TYPE & STATUS (X = PLUGGED)			COMMENTS
			1	2	3	
33481-0301	BLACK	A				
33481-0302	LT. GRAY	B				
33481-0303	BROWN	C				NOT RECOMMENDED, SEE P/N 33481-0322
33481-0304	GREEN	D				NOT RECOMMENDED, SEE P/N 33481-0323
33481-0305	CUSTOM	TBD				
33481-0306	BLACK	A			X	
33481-0307	LT. GRAY	B			X	
33481-0308	BROWN	C			X	
33481-0309	GREEN	D			X	
33481-0310	CUSTOM	TBD			X	
33481-0311	BLACK	A	X		X	
33481-0312	LT. GRAY	B	X		X	
33481-0313	BROWN	C	X		X	
33481-0314	GREEN	D	X		X	
33481-0315	CUSTOM	TBD	X		X	
33481-0316	BLACK	A	X	X	X	
33481-0317	LT. GRAY	B	X	X	X	
33481-0318	BROWN	C	X	X	X	NOT RECOMMENDED, SEE P/N 33481-0324
33481-0319	GREEN	D	X	X	X	NOT RECOMMENDED, SEE P/N 33481-0325
33481-0320	CUSTOM	TBD	X	X	X	
33481-0321	BLACK	A		X		
33481-0322	DK. GRAY	C				
33481-0323	ST. GRAY	D				
33481-0324	DK. GRAY	C	X	X	X	
33481-0325	ST. GRAY	D	X	X	X	

SEE REV. COLUMN
EC NO: UAU2013-1478
DRAWN BY: CHYKHOLOK
2013/03/20
CHECKED BY: APPR:VKOSHY
2013/03/20

REVDESCRIPTION

QUALITY SYMBOLS
▽=0
▽=0
▽=0

GENERAL TOLERANCES (UNLESS SPECIFIED)
mmINCH
4 PLACES ± --- ± ---
3 PLACES ± --- ± ---
2 PLACES ± 0.10 ± ---
1 PLACE ± 0.3 ± ---
0 PLACE ± ±
ANGULAR ± 3 °
DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS

DIMENSION STYLE
MM ONLY

DRAWN BY: DMARCOUX
DATE: 06-12-02
CHECKED BY: DGRIFFIT
DATE: 06-12-02
APPROVED BY: FHOLUB
DATE: 06-12-02

SCALE: 1:1
DESIGN UNITS: METRIC
THIRD ANGLE PROJECTION

TITLE: MX150 1X3 BLADE SEALED ASSEMBLY MAT SEAL
molex

MATERIAL NO.: SEE BOM
DOCUMENT NO.: SD-33481-031
SHEET NO.: 5 OF 5

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