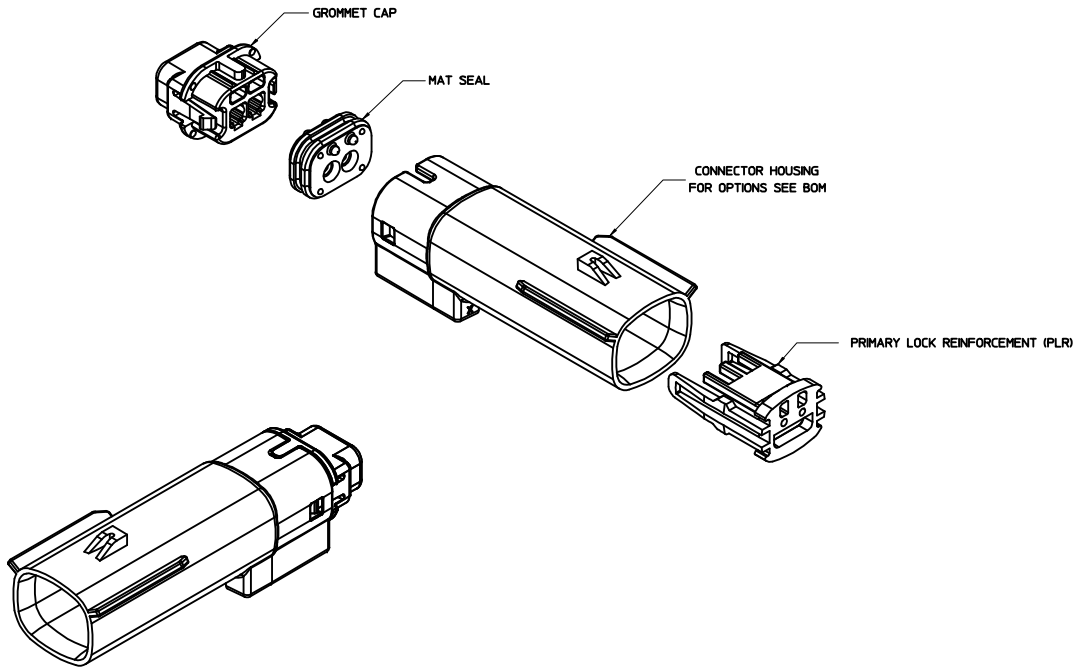


TABLE OF CONTENTS	
SHEET NO.	SHEET DESCRIPTION
1	NOTES
2	KEY CONFIGURATIONS
3	BLADE SEALED ASSEMBLY
4	SYSTEM PACKAGING
5	BACKSHELL NOTES
6	BACKSHELL
7	BACKSHELL CONFIGURATIONS
8	BOM




NOTES: VALID UNLESS OTHERWISE SPECIFIED

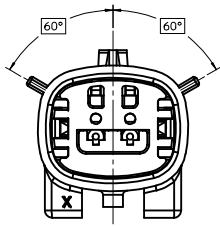
1. GENERAL:  
a. APPLICATION SPECIFICATION SEE: AS-33472-100  
CONTAINS: PRODUCT INTRODUCTION, PRODUCT SUMMARY, CONNECTOR ASSEMBLY, PACKAGING INFORMATION, CONNECTOR MATING, SERVICE INSTRUCTIONS, ELECTRICAL CONTINUITY CHECKING, CRIMPING, AND TROUBLESHOOTING.  
-DESIGNED TO MATE WITH RECEPTACLE SEALED ASSEMBLY SPECIFIED IN MOLEX DRAWING SD-33471-021.  
-FOR 15mm BLADE TERMINALS TO BE USED WITH THIS ASSEMBLY SEE MOLEX DRAWING SD-33000-001.  
- SYSTEM TO BE USED WITH WIRE WITHIN DIAMETER RANGE OF 1.2mm TO 2.69mm.  
-ASSEMBLY SHIPPED WITH PLR IN PRE-LOCK POSITION  
-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) <<http://www.molex.com>>  
-ASSEMBLY CONFORMS TO SAE/USCAR-2 REV.4 WITH THE FOLLOWING EXCEPTIONS:  
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#19295)  
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: 57  
ADDED:  
REMOVED:

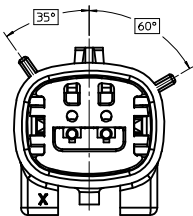
A9	UPDATED VIEWSET & NOTES
A8	RENAMED BACKSHELLS
A7	REMOVED DIMENSION 57
A6	UPDATED NOTES
A5	UPDATED P/N ORDER IN BOM
A4	REDRAWN, ADDED BACKSHELL
REV	DESCRIPTION

ENTER DESCRIPTION IEC NO: UAU2013-1913 DRAWING#ALL 2013/05/01 CHKD: APPR:VKOSHY 2013/06/11 REV	QUALITY SYMBOLS ▽=0 ▽=0 ▽=0	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE MM ONLY		SCALE 3:1	DESIGN UNITS METRIC	 THIRD ANGLE PROJECTION	TITLE MX150 1X2 BLADE SEALED ASSEMBLY MAT SEAL <b>molex</b>	DOCUMENT NO. SD-33481-021	SHEET NO. 1 OF 8
		4 PLACES ± ---	± ---	mm	INCH	DRAWN BY M. VANSAMBRO	DATE 9/16/08				
		3 PLACES ± ---	± ---			CHECKED BY	DATE				
		2 PLACES ± 0.10	± ---			MVANSAMBROU	2012/07/12				
		1 PLACE ± 0.20	± ---			APPROVED BY	DATE				
0 PLACE ± ---	± ---			VKOSHY	2010/03/16						
DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		ANGULAR ± 3 °		MATERIAL NO. SEE BOM							
SIZE D		THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION									

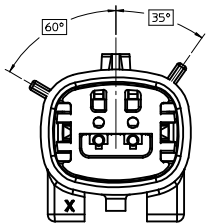
KEY CONFIGURATIONS



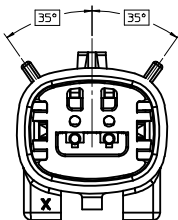
KEY A



KEY B



KEY C



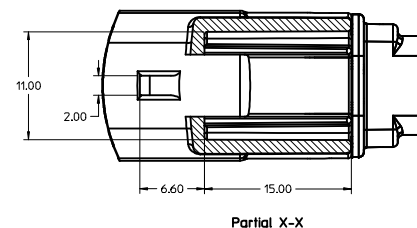
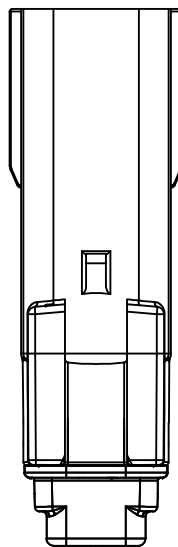
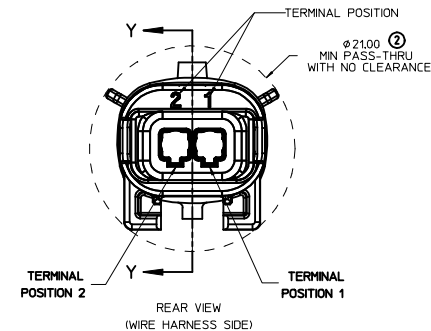
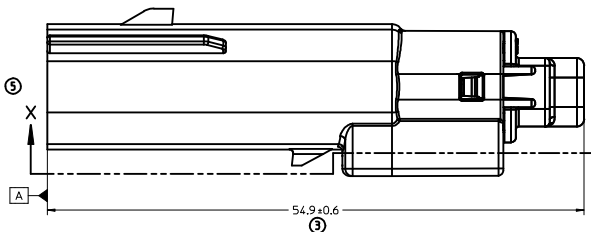
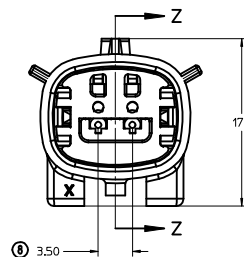
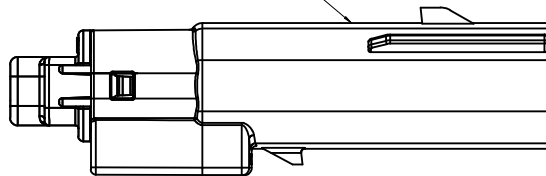
KEY D

<b>ENTER DESCRIPTION</b> IEC NO: UAU2013-1913 DRAWN BY: DRWNSHALL CHKD: CHYD APPR: VKOSHY 2013/05/01 2013/06/11	<b>QUALITY SYMBOLS</b>  ▽=0  ▽=0  ▽=0	<b>GENERAL TOLERANCES (UNLESS SPECIFIED)</b>			<b>DIMENSION STYLE</b> <b>MM ONLY</b>		<b>SCALE</b> <b>4:1</b>	<b>DESIGN UNITS</b> <b>METRIC</b>	<b>THIRD ANGLE PROJECTION</b>		
					<b>DRAWN BY</b> M. VANS LAMBRO	<b>DATE</b> 9/16/08	<b>TITLE</b>  <b>MX150 1X2 BLADE SEALED ASSEMBLY MAT SEAL</b>  <b>molex</b>				
					<b>CHECKED BY</b> MYANSLAMBROU	<b>DATE</b> 2012/07/12					
					<b>APPROVED BY</b> VKOSHY	<b>DATE</b> 2010/03/16					
					<b>MATERIAL NO.</b> <b>SEE BOM</b>	<b>DOCUMENT NO.</b> <b>SD-33481-021</b>				<b>SHEET NO.</b> <b>2 OF 8</b>	
<b>SIZE</b> <b>D</b>	<b>ANGULAR ± 3 °</b> <b>DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS</b>			<b>THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION</b>							

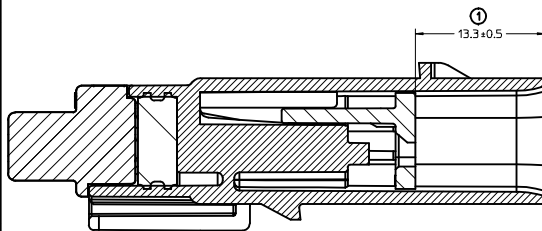
20 19 18 17 16 15 14 13 12 11 10 9 8 7 6 5 4 3 2 1

BLADE SEALED ASSEMBLY

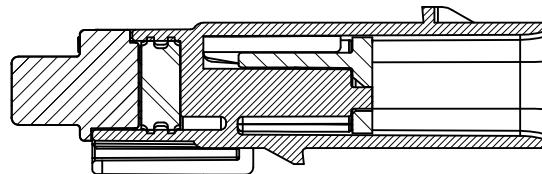
OPTIONAL LASER MARKING ON  
THIS SURFACE SEE NOTE 3g




Partial X-X



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



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

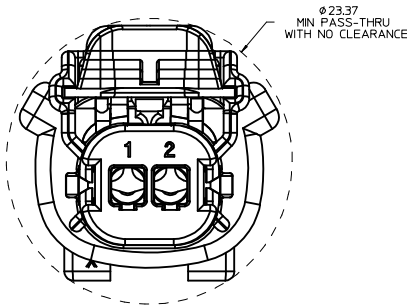
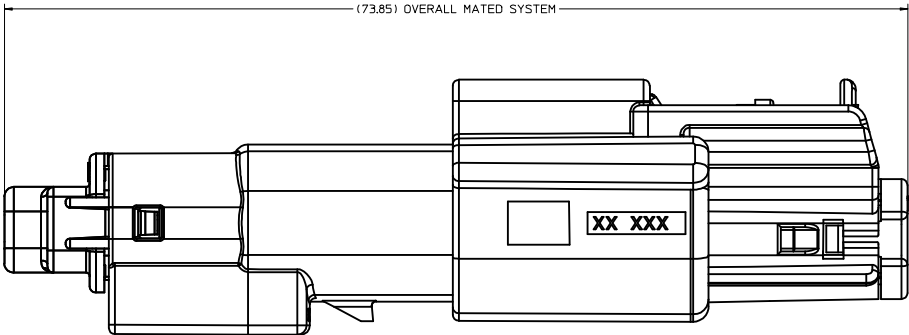
ENTER DESCRIPTION IEC NO: UAU2013-1913 DRAWN BY: DRWNGHALL CHKD: CHYD APPR: VKOSHY REV: A9		QUALITY SYMBOLS ▽=0 ▽=0 ▽=0	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE MM ONLY		SCALE 4:1	DESIGN UNITS METRIC	 THIRD ANGLE PROJECTION
					DRAWN BY DATE M. VANS LAMBRO 9/16/08		TITLE MX150 1X2 BLADE SEALED ASSEMBLY MAT SEAL		
					CHECKED BY DATE MYANS LAMBROU 2012/07/12				
					APPROVED BY DATE VKOSHY 2010/03/16				
					MATERIAL NO. SEE BOM		DOCUMENT NO. SD-33481-021		
DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS			ANGULAR ± 3°		SIZE D		THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION		SHEET NO. 3 OF 8


moLEX

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



ENTER DESCRIPTION EC NO: UAU2013-1913 DRAWN BY: DRWNSHALL CHKD: CHYD APPR: VKOSHY 2013/05/01 2013/06/11	QUALITY SYMBOLS  ▽=0  ▽=0  ▽=0	GENERAL TOLERANCES (UNLESS SPECIFIED)	DIMENSION STYLE MM ONLY		SCALE 4:1	DESIGN UNITS METRIC	 THIRD ANGLE PROJECTION
A9	REV	4 PLACES ± --- ± ---		DRAWN BY M. VANSAMBRO	DATE 9/16/08	MX150 1X2 BLADE SEALED ASSEMBLY MAT SEAL <b>molex</b>	
		3 PLACES ± --- ± ---		CHECKED BY	DATE		
		2 PLACES ± 0.10 ± ---		MVANSAMBROU	2012/07/12		
		1 PLACE ± 0.20 ± ---		APPROVED BY	DATE		
		0 PLACE ± --- ± ---		VKOSHY	2010/03/16		
ANGULAR ± 3 °		MATERIAL NO.		DOCUMENT NO.			
DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		SEE BOM		SD-33481-021			
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

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

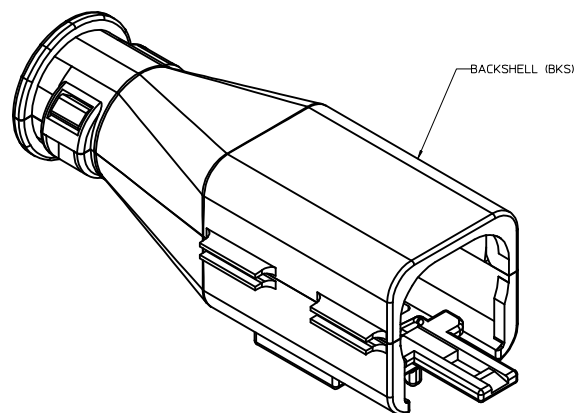
## BACKSHELL NOTES

### BACKSHELL NOTES: VALID UNLESS OTHERWISE SPECIFIED

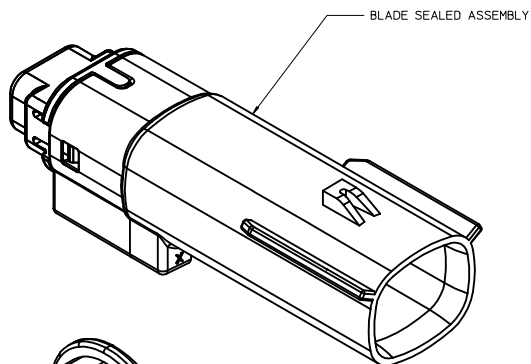
#### 1. GENERAL:

#### Q. APPLICATION SPECIFICATION SEE: AS-34951-001

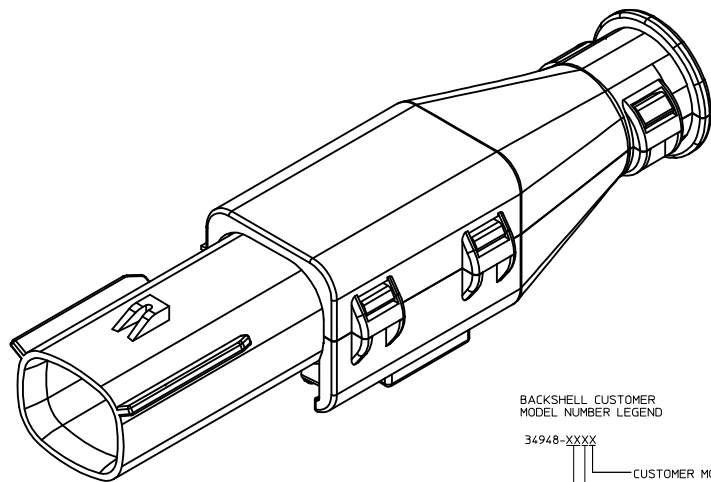
- DESIGNED TO MATE WITH RECEPTACLE SEALED ASSEMBLY SPECIFIED IN MOLEX DRAWING SD-33472-021.
- SYSTEM TO BE USED WITH WIRE WITHIN DIAMETER RANGE OF 12mm TO 2.69mm.
- COMPONENTS ARE OPTIONAL AND MUST BE PURCHASED SEPERATELY.
- BACKSHELL DESIGN IS OWNED BY SCHLEMMER.
- FOR ADDITIONAL INFORMATION SEE THE BACKSHELL COMPONENT DRAWING SD-34948-0001.



BACKSHELL (BKS)



BLADE SEALED ASSEMBLY




BACKSHELL CUSTOMER  
MODEL NUMBER LEGEND

34948-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

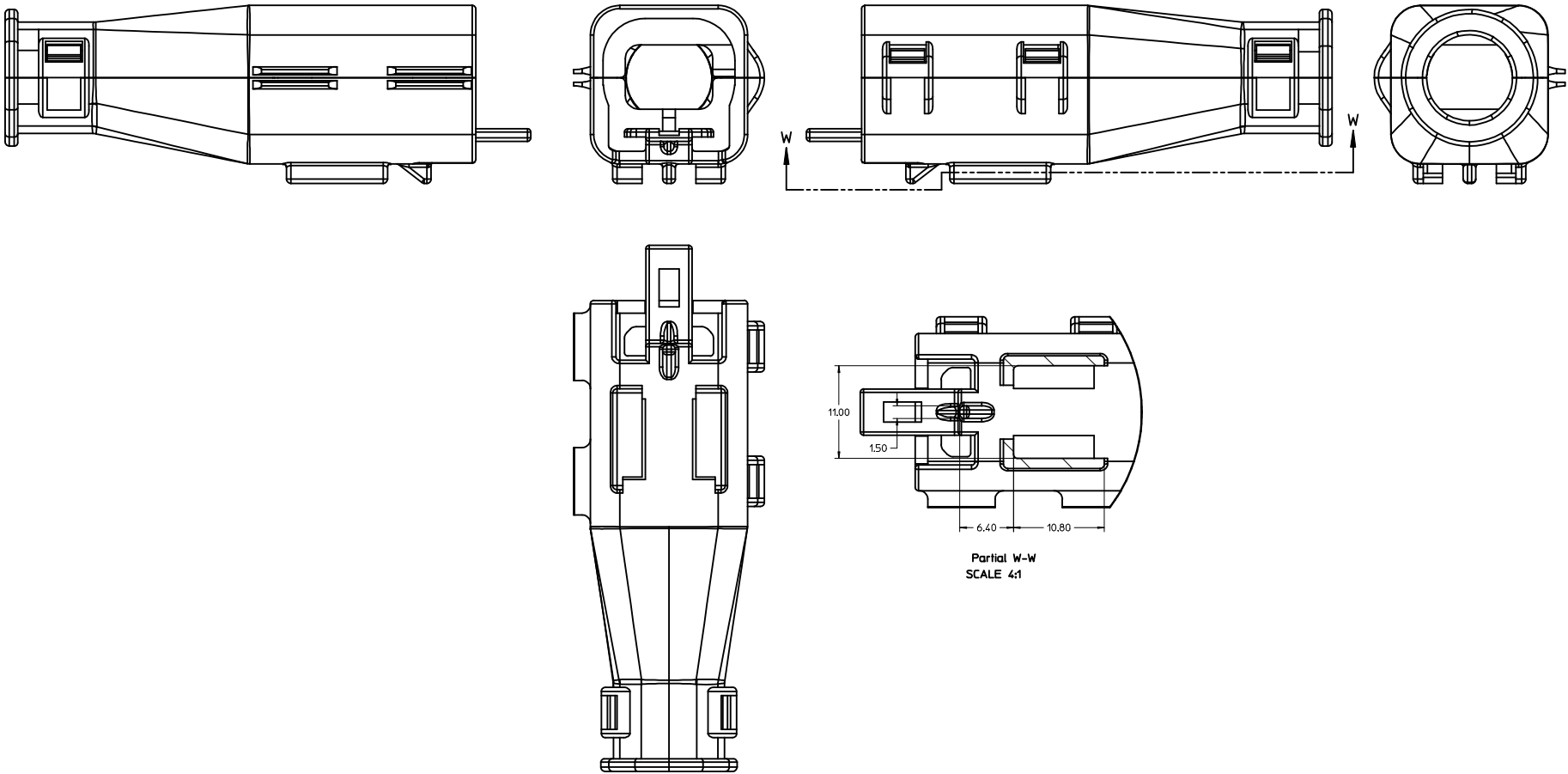
- BACKSHELL FEATURES
- 1 - WITH RIBS
  - 2 - WITHOUT RIBS


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

ENTER DESCRIPTION IEC NO: UAU2013-1913 DRAWN BY: DRWNSHALL CHKD: CHYK APPR: VKOSHY REV: A9	QUALITY SYMBOLS $\nabla=0$ $\nabla=0$ $\nabla=0$	GENERAL TOLERANCES (UNLESS SPECIFIED)	mm		INCH		DIMENSION STYLE MM ONLY		SCALE 4:1	DESIGN UNITS METRIC	 THIRD ANGLE PROJECTION
			4 PLACES +---+ +---+		DRAWN BY DATE M. VANSAMBRO 9/16/08		TITLE MX150 1X2 BLADE SEALED ASSEMBLY MAT SEAL <b>molex</b>				
			3 PLACES +---+ +---+		CHECKED BY DATE MVANSAMBROU 2012/07/12						
			2 PLACES +0.10 +---+		APPROVED BY DATE VKOSHY 2010/03/16						
			1 PLACE +0.20 +---+		MATERIAL NO. SEE BOM						
			0 PLACE +---+ +---+		DOCUMENT NO. SD-33481-021						
ANGULAR $\pm 3^\circ$		SHEET NO. 5 OF 8									
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							

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

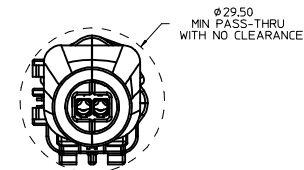
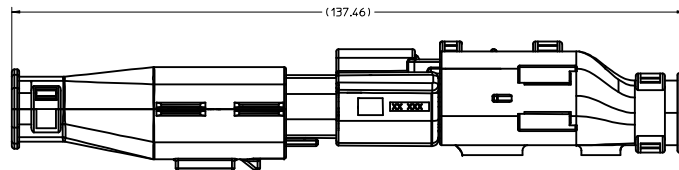
BACKSHELL  
THE VIEWS ON THIS SHEET ARE  
IN THE CLOSED UN-ASSEMBLED POSITION



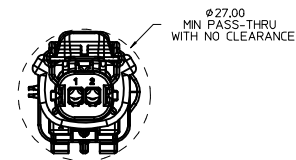
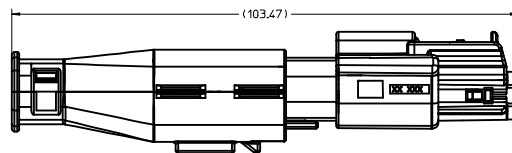
ENTER DESCRIPTION IEC NO. UAU2013-1913 DRAWN BY: DRWNGRAHALL CHKD: CHYD APPR: VKOSHY REV A9	DESCRIPTION 2013/05/01 2013/06/11	QUALITY SYMBOLS ▽=0 ▽=0 ▽=0	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE MM ONLY		SCALE 4:1	DESIGN UNITS METRIC	 THIRD ANGLE PROJECTION
			4 PLACES ± — ± —	mm INCH	DRAWN BY DATE	TITLE	MX150 1X2 BLADE SEALED ASSEMBLY MAT SEAL <b>molex</b>		
			3 PLACES ± — ± —	M. VANS LAMBRO 9/16/08	CHECKED BY DATE				
			2 PLACES ± 0.10 ± —	MYANSLAMBROU 2012/07/12	APPROVED BY DATE				
			1 PLACE ± 0.20 ± —	VKOSHY 2010/03/16	MATERIAL NO.	DOCUMENT NO.			
			0 PLACE ± — ± —						
			ANGULAR ± 3 °		SEE BOM		SD-33481-021		SHEET NO. 6 OF 8
			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				

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

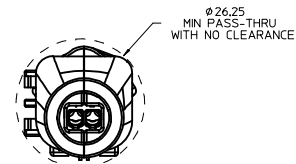
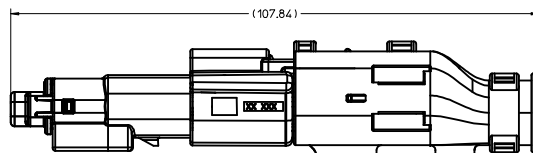
BACKSHELL CONFIGURATIONS



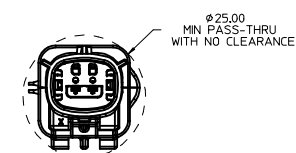
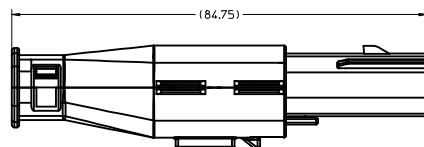
OVERALL MATED SYSTEM WITH BLADE AND RECEPTACLE BACKSHELL



OVERALL MATED SYSTEM WITH BLADE BACKSHELL



OVERALL MATED SYSTEM WITH RECEPTACLE BACKSHELL



BLADE SEALED ASSEMBLY WITH BLADE BACKSHELL

ENTER DESCRIPTION IEC NO: UAU2013-1913 DRAWN BY: DRWNSHALL CHKD: CHYK APPR: VKOSHY A9	REVISION DESCRIPTION REV	QUALITY SYMBOLS  $\nabla=0$ $\nabla=0$ $\nabla=0$	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE		SCALE	DESIGN UNITS	THIRD ANGLE PROJECTION
					MM ONLY				
			mm INCH		DRAWN BY	DATE	TITLE  MX150 1X2 BLADE SEALED ASSEMBLY MAT SEAL  <b>molex</b>	SHEET NO.  7 OF 8	
			4 PLACES $\pm$ --- $\pm$ ---		M. VANS LAMBRO				
			3 PLACES $\pm$ --- $\pm$ ---		CHECKED BY				DATE
			2 PLACES $\pm 0.10$ $\pm$ ---		MYANS LAMBROU				2012/07/12
			1 PLACE $\pm 0.20$ $\pm$ ---		APPROVED BY				DATE
			0 PLACE $\pm$ --- $\pm$ ---		VKOSHY				2010/03/16
			ANGULAR $\pm 3^\circ$		MATERIAL NO.		DOCUMENT NO.		
			DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		SEE BOM		SD-33481-021		
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

KEY A, BLACK	33481-0209	A						GCP2		1	2	SALEABLE			34948-0210	34948-0220
KEY D, STONE GRAY	33481-0208			D				GCP		1	2	SALEABLE			34948-0210	34948-0220
KEY C, DARK GRAY	33481-0207			C				GCP		1	2	SALEABLE			34948-0210	34948-0220
KEY B, LIGHT GRAY	33481-0206			B				GCP		1	2	SALEABLE			34948-0210	34948-0220
KEY A, BLACK	33481-0205	A						GCP		1	2	SALEABLE			34948-0210	34948-0220
KEY D, STONE GRAY	33481-0204			D	GCO							SALEABLE			34948-0210	34948-0220
KEY C, DARK GRAY	33481-0203			C	GCO							SALEABLE			34948-0210	34948-0220
KEY B, LIGHT GRAY	33481-0202			B	GCO							SALEABLE			34948-0210	34948-0220
KEY A, BLACK	33481-0201	A			GCO							SALEABLE			34948-0210	34948-0220
ASSEMBLY DESCRIPTION	ASSEMBLY PART NUMBERS	A	B	C	D	GCO	GCP	GCP2	1	2		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																
PLR																
GROMMET CAP (CAVITY 2 PLUGGED)																
GROMMET CAP (PLUGGED)																
GROMMET CAP (OPEN)																
HOUSING - KEYING OPTION D																
HOUSING - KEYING OPTION C																
HOUSING - KEYING OPTION B																
HOUSING - KEYING OPTION A																
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
GCO	GROMMET CAP (OPEN)
GCP	GROMMET CAP (PLUGGED)
GCP2	GROMMET CAP (CAVITY 2 PLUGGED)
P	PLR, STANDARD
M	MAT SEAL
BKS	BACKSHELL

ENTER DESCRIPTION  
LEC NO: UAU2013-1913  
DRAWN BY: DRWNSDAHAL  
CHKD: CHKD:  
A9

2013/05/01  
2013/06/11  
APPR: VKOSHY  
REV

QUALITY SYMBOLS  
▽=0  
▽=0  
▽=0

GENERAL TOLERANCES (UNLESS SPECIFIED)  
mm INCH  
4 PLACES ± --- ± ---  
3 PLACES ± --- ± ---  
2 PLACES ± 0.10 ± ---  
1 PLACE ± 0.20 ± ---  
0 PLACE ± --- ± ---  
ANGULAR ± 3 °  
DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS

DIMENSION STYLE  
MM ONLY

DRAWN BY DATE  
M. VANS LAMBRO 9/16/08

CHECKED BY DATE  
MYANSLAMBROU 2012/07/12

APPROVED BY DATE  
VKOSHY 2010/03/16

MATERIAL NO.  
SEE BOM

SCALE  
METRIC

DESIGN UNITS  
THIRD ANGLE PROJECTION

TITLE  
MX150 1X2 BLADE SEALED ASSEMBLY MAT SEAL

DOCUMENT NO.  
SD-33481-021

SHEET NO.  
8 OF 8

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