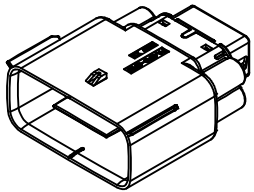
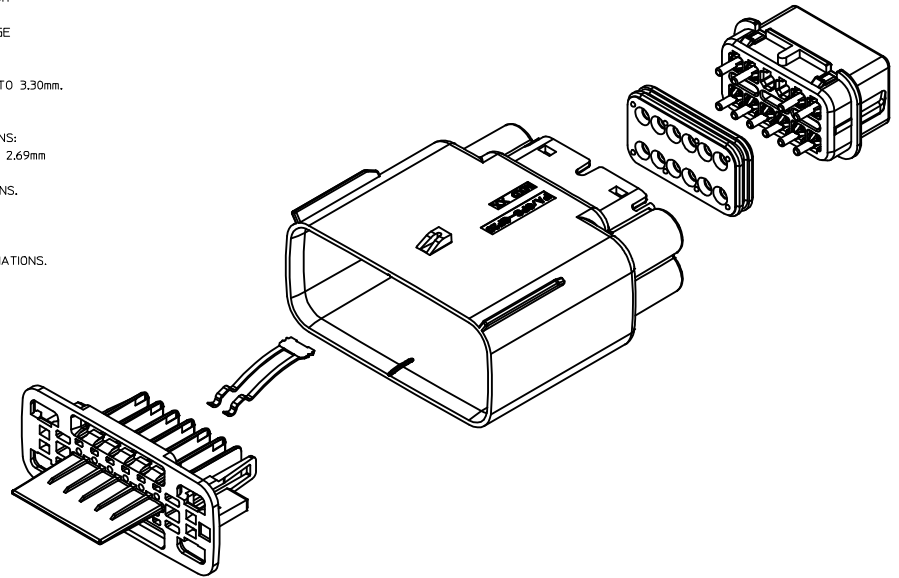


TABLE OF CONTENTS	
SHEET NO.	SHEET DESCRIPTION
1	NOTES AND BOM
2	CONFIGURATIONS
3	KEY CONFIGURATIONS
4	BLADE SEALED ASSEMBLY
5	SYSTEM PACKAGING

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 AS SPECIFIED IN SD-34985-8001, SD-33476-161, OR SD-33476-181.
  - FOR SHORTING BAR APPLICATIONS RECEPTACLE SEALED ASSEMBLY CONFIGURATION MUST CONTAIN A PLR WITH SHORTING BAR LIFTER.
  - FOR 1.5mm BLADE TERMINALS TO BE USED WITH THE SHORTING BAR CIRCUIT LOCATIONS SEE MOLEX DRAWING SD-31296-001.
  - SHORTING BAR TERMINALS TO BE USED WITH WIRE DIAMETER RANGE OF 1.7mm TO 2.06mm.
  - SHORTING BAR TERMINAL CRIMP ANGLE MUST BE BETWEEN -1.4 DEG. AND +3.5 DEG. AFTER INSTALLATION INTO THE CONNECTOR ASSEMBLY. REFER TO MOLEX DRAWING SD-31296-001 FOR DETAILS.
  - FOR 1.5mm BLADE TERMINALS TO BE USED WITH THE NON-SHORTING BAR CIRCUIT LOCATIONS SEE MOLEX DRAWING SD-33000-001.
  - NON-SHORTING BAR TERMINALS TO BE USED WITH WIRE WITHIN DIAMETER RANGE OF 1.2mm TO 2.69mm.
  - FOR 2.8mm TERMINALS TO BE USED WITH THIS ASSEMBLY SEE TABLE.
  - 2.8mm TERMINALS TO BE USED WITH WIRE WITHIN DIAMETER RANGE OF 1.50mm TO 3.30mm.
  - ASSEMBLY SHIPPED WITH PLR IN PRE-LOCK POSITION (SEE PLR PRE-LOCK VIEW SHEET 4).
  - 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 45 NEWTONS.
  - PLR REMOVAL FROM FINAL-LOCK TO PRE-LOCK SHALL NOT EXCEED 75 NEWTONS.
- b. PRODUCT SPECIFICATION SEE: PS-33476-000
- 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: PK-31300-514
- d. PARTS MUST BE IN COMPLIANCE TO MOLEX CHEMICAL SUBSTANCES FOR PRODUCTS AND PACKAGING SPECIFICATION: OEHS-699000-300
- e. DATA MUST BE SUBMITTED UNDER THE MOLEX PART NUMBER TO IMDS (COMPANY ID#13255)

2. DESIGN - MATERIALS:
- a. SEE BOM TABLE IN SD-34986-8002
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.



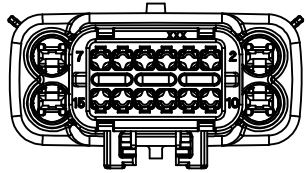
TYCO 2.8mm CABLE SEAL TERMINAL	
FORD P/N MALE BLADE	GRIP SIZE
3F2T-14421-GA	12
IFIT-14421-JA	14
IFIT-14421-HA	16
IFIT-14421-GA	18
IFIT-14421-FA	20
IFIT-14421-EA	22

INSPECTION NUMBER LOG	
LAST NUMBER:	C
ADDED:	
REMOVED:	
REV	REV DESCRIPTION
	MOVED BOM TO SD-34986-8002

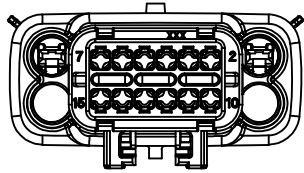
<b>ENTER DESCRIPTION</b> EC NO: UAU2015-0154 DRAWN BY: JMW/PROFFITT 2014/07/25 CHECKED BY: CHYKOWANSKI/AMBROU2014/07/25 APPROVED BY: VKOSHY 2014/07/25	QUALITY SYMBOLS ▽=0 ▽=0 ▽=0	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE		SCALE 1.5:1	DESIGN UNITS METRIC	THIRD ANGLE PROJECTION
		m	INCH	MM ONLY				
		4 PLACES ± --- ± ---		DRAWN BY	DATE			
		3 PLACES ± --- ± ---		CHECKED BY	DATE			
2 PLACES ± 0.10 ± ---		DGRIFFI THS	07-09-02	APPROVED BY		DATE		
1 PLACE ± 0.3 ± ---		VKOSHY	2013/05/16	MATERIAL NO.		DOCUMENT NO.		
0 PLACE ± ±		ANGULAR ± 3 °		SEE NOTE 2a.		SD-34986-8001		
DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		SIZE		THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION		SHEET NO.		
		1				1 OF 5		

**SHEET DESCRIPTION**

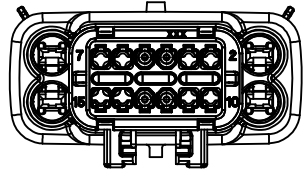
CONFIGURATIONS



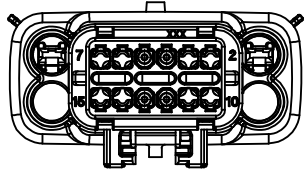
STANDARD GROMMET CAP - ALL OPEN 2.8mm CAVITIES



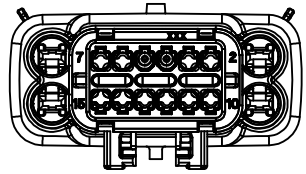
STANDARD GROMMET CAP - BLOCKED 2.8mm CAVITIES



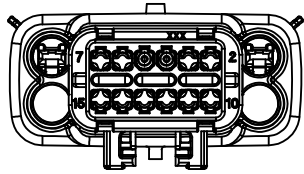
SHORTING BAR GROMMET CAP 1 - ALL OPEN 2.8mm CAVITIES



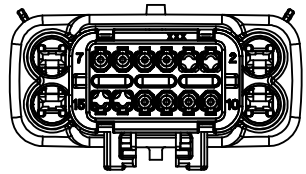
SHORTING BAR GROMMET CAP 1 - BLOCKED 2.8mm CAVITIES



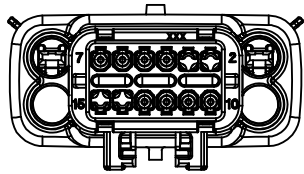
SHORTING BAR GROMMET CAP 2 - ALL OPEN 2.8mm CAVITIES



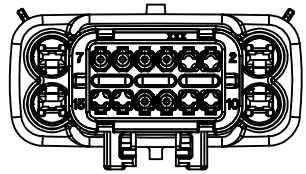
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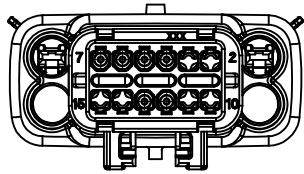
SHORTING BAR GROMMET CAP 3 - ALL OPEN 2.8mm CAVITIES



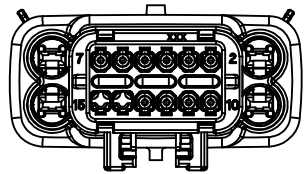
SHORTING BAR GROMMET CAP 3 - BLOCKED 2.8mm CAVITIES



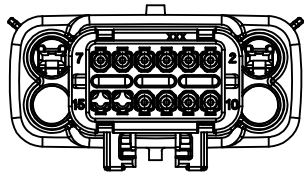
SHORTING BAR GROMMET CAP 4 - ALL OPEN 2.8mm CAVITIES



SHORTING BAR GROMMET CAP 4 - BLOCKED 2.8mm CAVITIES



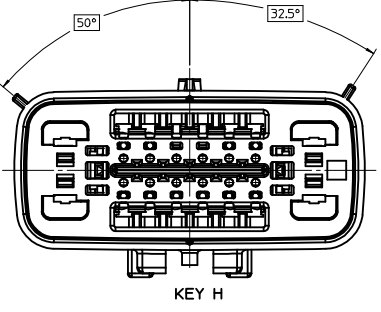
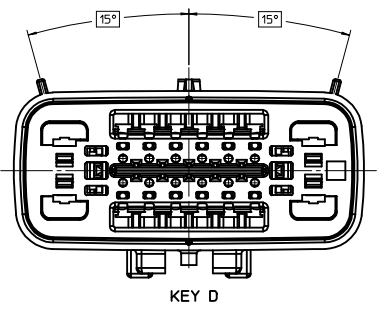
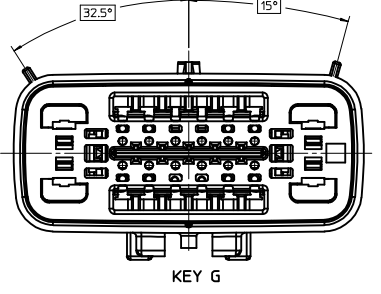
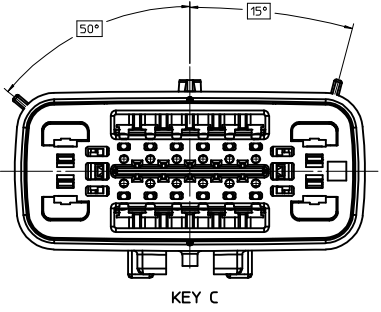
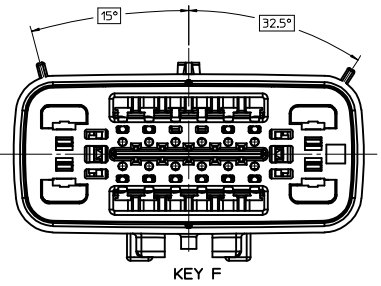
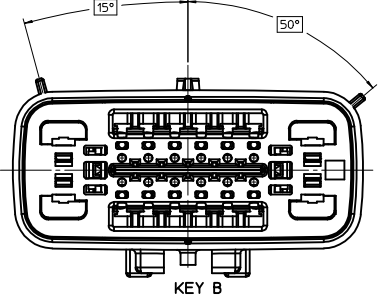
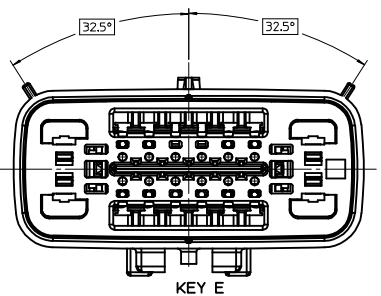
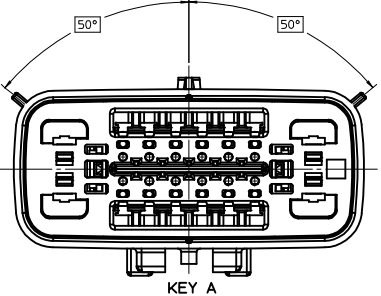
SHORTING BAR GROMMET CAP 5 - ALL OPEN 2.8mm CAVITIES



SHORTING BAR GROMMET CAP 5 - BLOCKED 2.8mm CAVITIES

<b>ENTER DESCRIPTION</b> IEC NO: UAU2015-0154 DRAWN/PROFIT: 2014/07/25 CHK/DWNS/L.AMBROU/2014/07/25 APPR:VKOSHY 2014/07/25	QUALITY SYMBOLS ▽=0 ▽=0 ▽=0	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE	SCALE	DESIGN UNITS	THIRD ANGLE PROJECTION	
		mm	INCH	MM ONLY	2.5:1	METRIC	<input checked="" type="checkbox"/>	
		4 PLACES ± --- ± ---		DRAWN BY	DATE	TITLE		
		3 PLACES ± --- ± ---		JWESLEY	06-16-02	MX150 16 WAY HYBRID BLADE SEALED ASSEMBLY		
2 PLACES ± 0.10 ± ---		CHECKED BY	DATE	MATERIAL NO. SEE NOTE 2a. DOCUMENT NO. SD-34986-8001 SHEET NO. 2 OF 5				
1 PLACE ± 0.3 ± ---		DGRIFITHS	07-09-02					
0 PLACE ± ±		APPROVED BY	DATE	THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION				
		VKOSHY	2013/05/16					

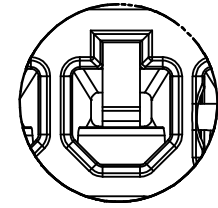
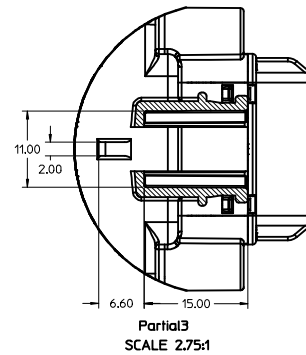
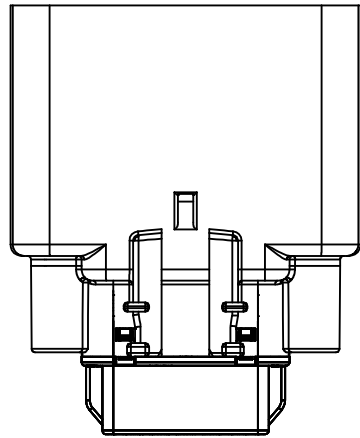
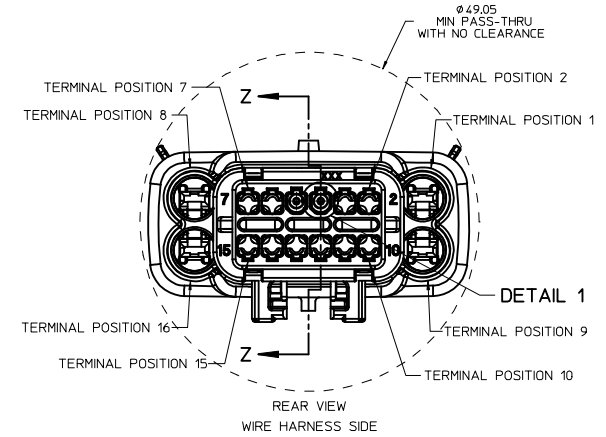
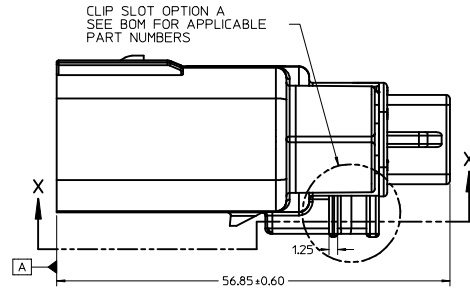
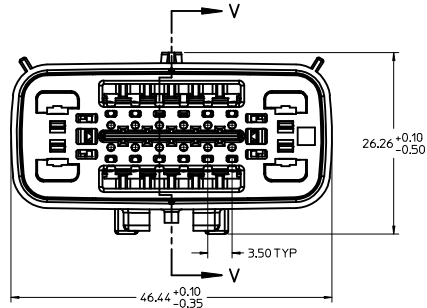
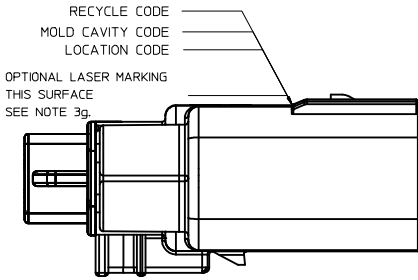
**SHEET DESCRIPTION**  
KEY CONFIGURATIONS



<b>ENTER DESCRIPTION</b> EC NO: UAU2015-0154 DRAWN BY: JTT 2014/07/25 CHKD BY: WNSL/AMBRL 2014/07/25 APPR: WKOSHY 2014/07/25	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 ± ±	DIMENSION STYLE MM ONLY	SCALE 3:1	DESIGN UNITS METRIC	THIRD ANGLE PROJECTION
	DRAWN BY: JWESLEY CHECKED BY: DGRIFITHS APPROVED BY: WKOSHY DATE: 06-16-02 DATE: 07-09-02 DATE: 2013/05/16	TITLE MX150 16 WAY HYBRID BLADE SEALED ASSEMBLY	MATERIAL NO. SEE NOTE 2a.	DOCUMENT NO. SD-34986-8001	SHEET NO. 3 OF 5	
	DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS	SIZE A 1	THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION			

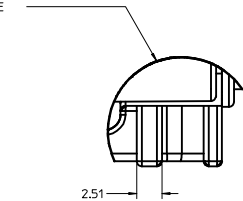
**SHEET DESCRIPTION**

BLADE SEALED ASSEMBLY

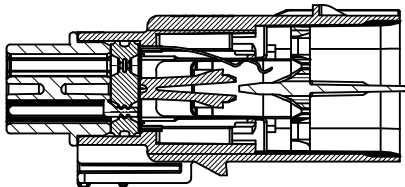


SHORTING BAR (SB) CIRCUITS ARE IDENTIFIED BY THE GROMMET CAP OPENING FEATURE SHOWN ABOVE.  
DETAIL 1  
SCALE 15:1

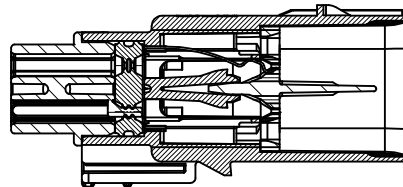
CLIP SLOT OPTION B  
SEE BOM FOR APPLICABLE  
PART NUMBERS



Partial 1  
SCALE 4:1



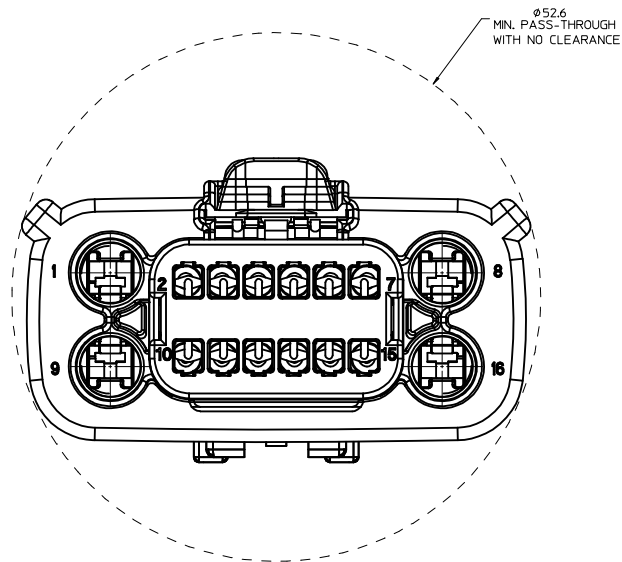
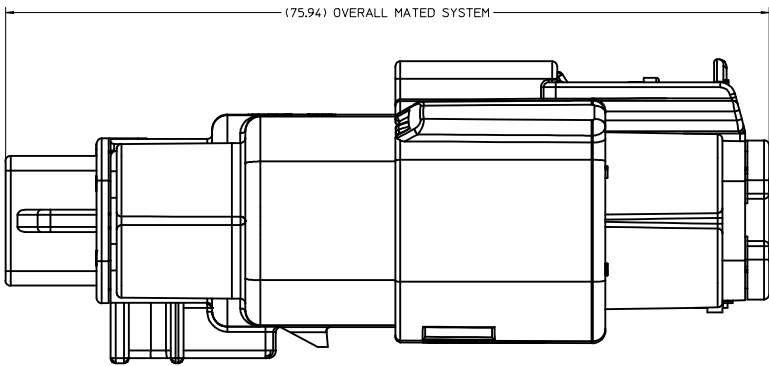
PRIMARY LOCK REINFORCEMENT (PLR) SHOWN  
IN PRE-STAGED POSITION  
SECTION Z-Z



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

<b>ENTER DESCRIPTION</b> IEC NO: UAU2015-0154 DRAWN BY: DGRIFITH CHECKED BY: DGRIFITHS APPROVED BY: VKOSHY DATE: 2014/07/25 DATE: 2014/07/25 DATE: 2013/05/16	<b>QUALITY SYMBOLS</b> ▽=0 ▽=0 ▽=0	<b>GENERAL TOLERANCES (UNLESS SPECIFIED)</b>		<b>DIMENSION STYLE</b> MM ONLY		SCALE 3:1	DESIGN UNITS METRIC	THIRD ANGLE PROJECTION	
		4 PLACES ± --- ± ---	3 PLACES ± --- ± ---	2 PLACES ± 0.10 ± ---	1 PLACE ± 0.3 ± ---	0 PLACE ± ±	DRAWN BY JWESLEY DATE 06-16-02	CHECKED BY DATE 07-09-02	APPROVED BY DATE 2013/05/16
		ANGULAR ± 3 °		DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		MATERIAL NO. SEE NOTE 2a.	DOCUMENT NO. SD-34986-8001	SHEET NO. 4 OF 5	
		THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION							

**SHEET DESCRIPTION**  
SYSTEM PACKAGING



<b>ENTER DESCRIPTION</b> EC NO: UA12015-0154 DRAWN BY: DRWINAPROFF ITT 2014/07/25 CHECKED BY: CHYKOWANSLAMBOU 2014/07/25 APPR: VKOSHY 2014/07/25	<b>QUALITY SYMBOLS</b> ∇=0 ∇=0 ∇=0	<b>GENERAL TOLERANCES (UNLESS SPECIFIED)</b>		<b>DIMENSION STYLE</b> MM ONLY		SCALE 3:1	DESIGN UNITS METRIC	THIRD ANGLE PROJECTION	
		mm	INCH	DRAWN BY	DATE	TITLE MX150 16 WAY HYBRID BLADE SEALED ASSEMBLY			
		4 PLACES ± --- ± ---		JWESLEY	06-16-02	moxlex			
		3 PLACES ± --- ± ---		CHECKED BY	DATE	DOCUMENT NO. SD-34986-8001			
		2 PLACES ± 0.10 ± ---		DGRIFFFITHS	07-09-02	SHEET NO. 5 OF 5			
		1 PLACE ± 0.3 ± ---		APPROVED BY	DATE	THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION			
		0 PLACE ± ±		VKOSHY	2013/05/16				
		ANGULAR ± 3 °		MATERIAL NO.					
		DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		SEE NOTE 2a.					
				SIZE 1					













MX150 16 WAY HYBRID BLADE SEALED ASSEMBLY MAT SEAL (2.8mm CAVITIES OPEN)  
BOM AND PIN OUT SHEET

ASSEMBLY DESCRIPTION	ASSEMBLY PART NUMBER	COMPONENT					BLOCKED TERMINALS																STATUS	COMMENTS	OPTIONAL ATTACHMENTS SOLD SEPERATELY							
		THE PRESENCE OF AN ABBREVIATION INDICATES THE PRESENCE OF THAT COMPONENT.					CAVITY WITH A NUMBER INDICATES BLOCKED TERMINAL POSITION CAVITY WITHOUT A NUMBER INDICATES OPEN TERMINAL POSITION																		BACKSHELL WITH RIBS	BACKSHELL WITHOUT RIBS						
		HOUSING KEY/COLOR	GROMMET CAP	PLR	MAT SEAL	SB QTY	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16										
KEY A, BLACK	34986-2134	A-BLK	GC-S	PLR	M			2	3							7										SALEABLE		NOT AVAILABLE	NOT AVAILABLE			
KEY A, BLACK	34986-2135	A-BLK	GC-S	PLR	M			2	3						6						10	11	12	13	14	15	SALEABLE		NOT AVAILABLE	NOT AVAILABLE		
KEY A, BLACK	34986-2136	A-BLK	GC-S	PLR	M			2	3	4	5												14	15		SALEABLE		NOT AVAILABLE	NOT AVAILABLE			
KEY A, BLACK	34986-2137	A-BLK	GC-S	PLR	M			2	3							7					10	11	12				SALEABLE		NOT AVAILABLE	NOT AVAILABLE		
KEY A, BLACK	34986-2138	A-BLK	GC-S	PLR	M			2	3	4	5	6	7										13	14	15	SALEABLE		NOT AVAILABLE	NOT AVAILABLE			
KEY A, BLACK	34986-2139	A-BLK	GC-S	PLR	M				3		5	6														SALEABLE		NOT AVAILABLE	NOT AVAILABLE			
KEY A, BLACK	34986-2140	A-BLK	GC-S	PLR	M			2	3						6	7										SALEABLE		NOT AVAILABLE	NOT AVAILABLE			
KEY A, BLACK	34986-2141	A-BLK	GC-S	PLR	M			2	3															14	15	SALEABLE		NOT AVAILABLE	NOT AVAILABLE			
KEY A, BLACK	34986-2142	A-BLK	GC-S	PLR	M							5	6											14		SALEABLE		NOT AVAILABLE	NOT AVAILABLE			
KEY A, BLACK	34986-2143	A-BLK	GC-S	PLR	M					3	4	5	6								10	11	12	13		15	SALEABLE		NOT AVAILABLE	NOT AVAILABLE		
KEY A, BLACK	34986-2144	A-BLK	GC-S	PLR	M							5				7										SALEABLE		NOT AVAILABLE	NOT AVAILABLE			
KEY A, BLACK	34986-2145	A-BLK	GC-S	PLR	M																		12	13	14	SALEABLE		NOT AVAILABLE	NOT AVAILABLE			
KEY A, BLACK	34986-2146	A-BLK	GC-S	PLR	M							5											12	13	15	SALEABLE		NOT AVAILABLE	NOT AVAILABLE			
KEY A, BLACK	34986-2147	A-BLK	GC-S	PLR	M			2	3			5				7							12			SALEABLE		NOT AVAILABLE	NOT AVAILABLE			
KEY A, BLACK	34986-2148	A-BLK	GC-S	PLR	M			2				5	6											14		SALEABLE		NOT AVAILABLE	NOT AVAILABLE			
KEY A, BLACK	34986-2149	A-BLK	GC-S	PLR	M																			13	14	15	SALEABLE		NOT AVAILABLE	NOT AVAILABLE		
KEY A, BLACK	34986-2150	A-BLK	GC-S	PLR	M					3	4	5	6								10		12			15	SALEABLE		NOT AVAILABLE	NOT AVAILABLE		
KEY A, BLACK	34986-2151	A-BLK	GC-S	PLR	M							5				7										SALEABLE		NOT AVAILABLE	NOT AVAILABLE			
KEY A, BLACK	34986-2152	A-BLK	GC-S	PLR	M					3	4	5	6	7							10	11		13	14	15	SALEABLE		NOT AVAILABLE	NOT AVAILABLE		
KEY A, BLACK	34986-2153	A-BLK	GC-S	PLR	M			2	3	4			6	7									10	11	13	14	15	SALEABLE		NOT AVAILABLE	NOT AVAILABLE	
KEY A, BLACK	34986-2154	A-BLK	GC-S	PLR	M								6										12	13	14	SALEABLE		NOT AVAILABLE	NOT AVAILABLE			
KEY A, BLACK	34986-2155	A-BLK	GC-S	PLR	M			2	3	4	5	6	7								10						SALEABLE		NOT AVAILABLE	NOT AVAILABLE		
KEY A, BLACK	34986-2156	A-BLK	GC-S	PLR	M					3	4	5													15	SALEABLE		NOT AVAILABLE	NOT AVAILABLE			
KEY A, BLACK	34986-2157	A-BLK	GC-S	PLR	M					3	4	5	6	7												SALEABLE		NOT AVAILABLE	NOT AVAILABLE			
KEY A, YELLOW	34986-2158	A-YW	GC-S	PLR	M						4	5	6	7									10	11	12	13	14	15	SALEABLE		NOT AVAILABLE	NOT AVAILABLE
KEY A, BLACK	34986-2159	A-BLK	GC-S	PLR	M					3	4	5											10				SALEABLE		NOT AVAILABLE	NOT AVAILABLE		
KEY A, BLACK	34986-2160	A-BLK	GC-S	PLR	M			2				5	6													SALEABLE		NOT AVAILABLE	NOT AVAILABLE			
KEY A, BLACK	34986-2161	A-BLK	GC-S	PLR	M			2				5	6	7									10	11		14	15	SALEABLE		NOT AVAILABLE	NOT AVAILABLE	
KEY A, BLACK	34986-2162	A-BLK	GC-S	PLR	M								6										10	11	12		SALEABLE		NOT AVAILABLE	NOT AVAILABLE		
KEY A, BLACK	34986-2163	A-BLK	GC-S	PLR	M								6	7												11	SALEABLE		NOT AVAILABLE	NOT AVAILABLE		