



Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of “Quality Parts,Customers Priority,Honest Operation,and Considerate Service”,our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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Address: A1208, Overseas Decoration Building, #122 Zhenhua RD., Futian, Shenzhen, China

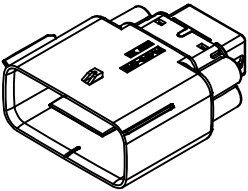
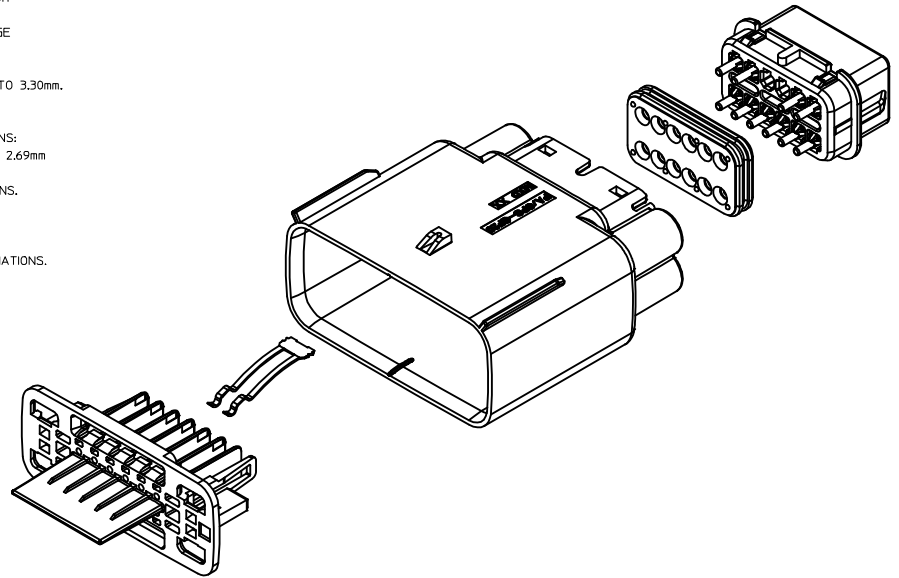


TABLE OF CONTENTS	
SHEET NO.	SHEET DESCRIPTION
1	NOTES AND BOM
2	CONFIGURATIONS
3	KEY CONFIGURATIONS
4	BLADE SEALED ASSEMBLY
5	SYSTEM PACKAGING

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.



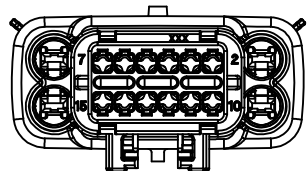
TYCO 2.8mm CABLE SEAL TERMINAL	
FORD P/N MALE BLADE	GRIP SIZE
3F2T-14421-GA	12
IFIT-14421-JA	14
IFIT-14421-HA	16
IFIT-14421-GA	18
IFIT-14421-FA	20
IFIT-14421-EA	22

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

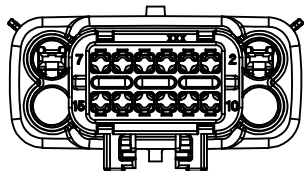
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		4 PLACES ± --- ± ---	m	INCH	DRAWN BY	DATE	TITLE MX150 16 WAY HYBRID BLADE SEALED ASSEMBLY			
		3 PLACES ± --- ± ---	± 0.10	± ---	DGR	FFITHS	07-09-02	molex		
		2 PLACES ± 0.10 ± ---	± 0.3	± ---	APPROVED BY	DATE	DOCUMENT NO. SD-34986-8001	SHEET NO. 1 OF 5		
1 PLACE ± 0.3 ± ---	±	±	VKOSHY	2013/05/16	SEE NOTE 2a.					
0 PLACE ± ±	ANGULAR ± 3 °		MATERIAL NO.		THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION					
DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		SIZE 1								

SHEET DESCRIPTION

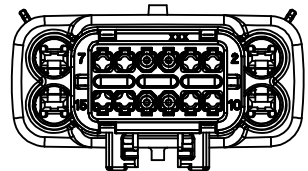
CONFIGURATIONS



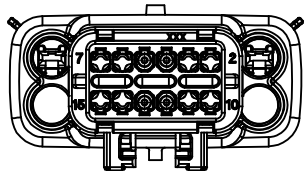
STANDARD GROMMET CAP - ALL OPEN 2.8mm CAVITIES



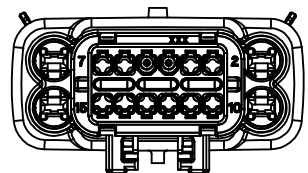
STANDARD GROMMET CAP - BLOCKED 2.8mm CAVITIES



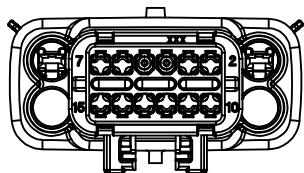
SHORTING BAR GROMMET CAP 1 - ALL OPEN 2.8mm CAVITIES



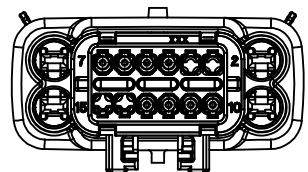
SHORTING BAR GROMMET CAP 1 - BLOCKED 2.8mm CAVITIES



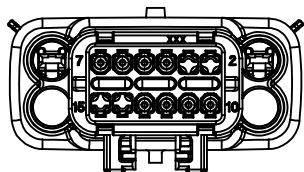
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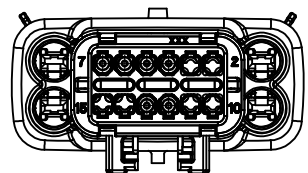
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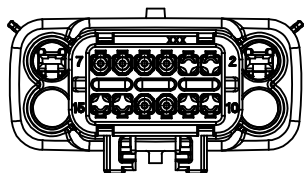
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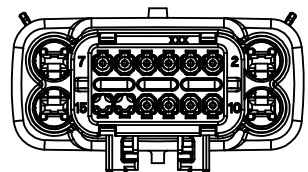
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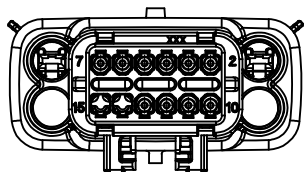
SHORTING BAR GROMMET CAP 4 - ALL OPEN 2.8mm CAVITIES



SHORTING BAR GROMMET CAP 4 - BLOCKED 2.8mm CAVITIES



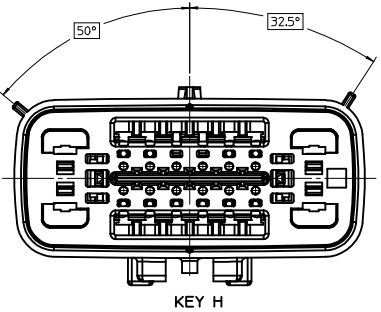
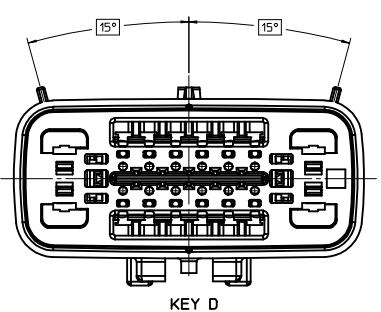
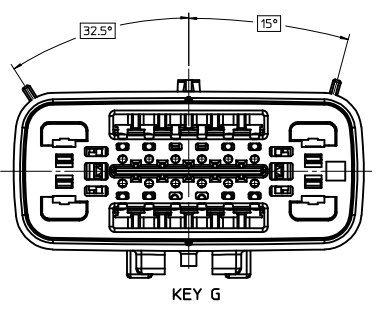
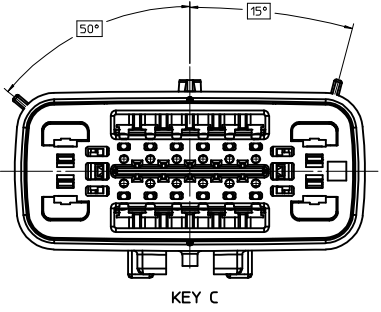
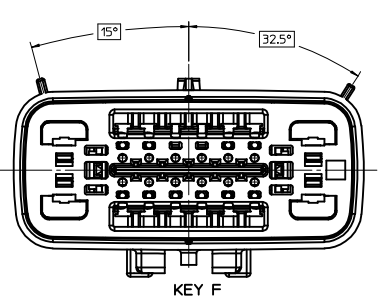
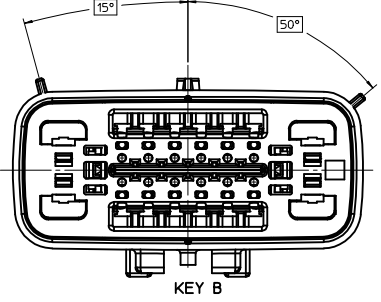
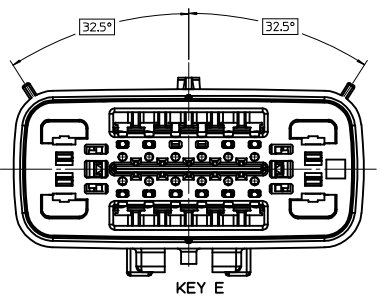
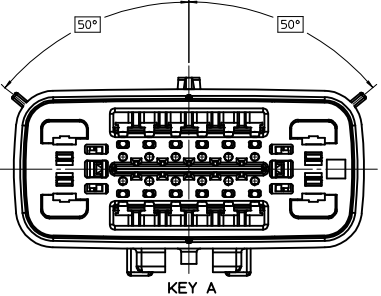
SHORTING BAR GROMMET CAP 5 - ALL OPEN 2.8mm CAVITIES



SHORTING BAR GROMMET CAP 5 - BLOCKED 2.8mm CAVITIES

ENTER DESCRIPTION ELEC NO: UAU2015-0154 DRAWN/PROFIT: 2014/07/25 CHKD/ANSL/AMROU: 2014/07/25 APPR: VKOSHY 2014/07/25	QUALITY SYMBOLS ▽=0 ▽=0 ▽=0	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE MM ONLY	SCALE 2.5:1	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	TITLE MX150 16 WAY HYBRID BLADE SEALED ASSEMBLY
		ANGULAR ± 3 °		DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		APPROVED BY VKOSHY	DATE 2013/05/16	MATERIAL NO. SEE NOTE 2a.	DOCUMENT NO. SD-34986-8001
		SIZE 1		THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION					

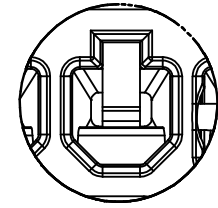
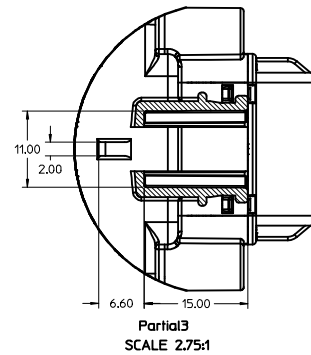
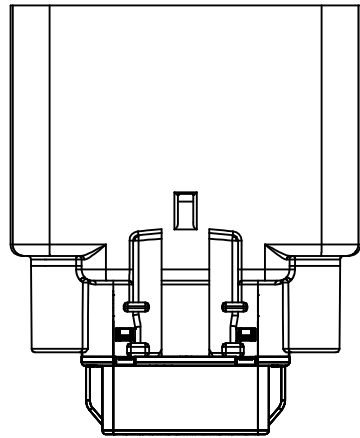
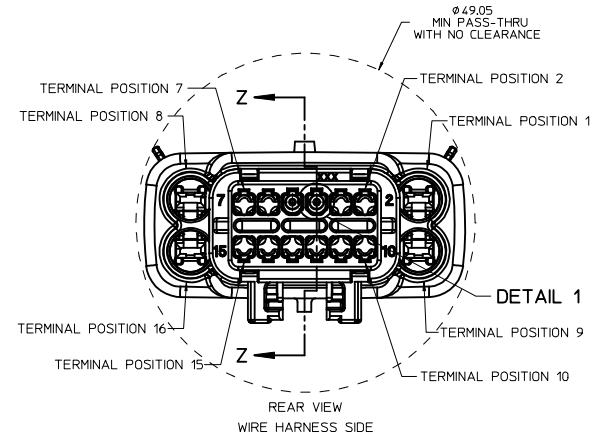
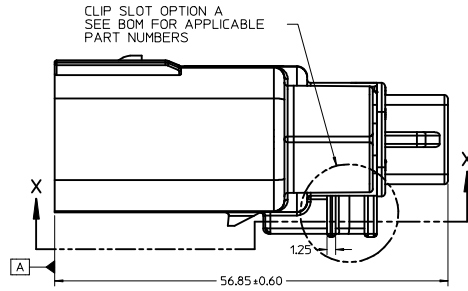
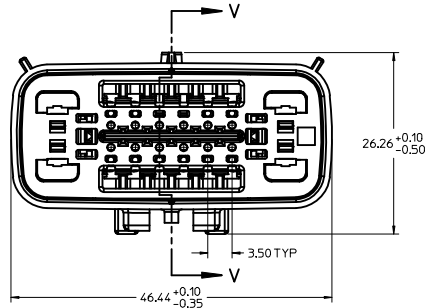
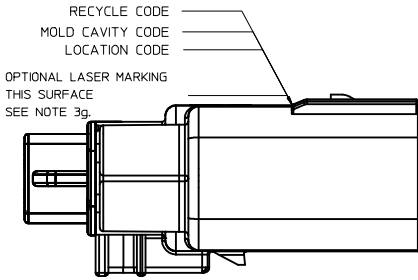
SHEET DESCRIPTION
KEY CONFIGURATIONS



ENTER DESCRIPTION EC NO: UAU2015-0154 DRAWN: PROFF ITT 2014/07/25 CHKD: WANSI, AMBROU 2014/07/25 APPR: VKOSHY 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	DATE 06-16-02	CHECKED BY DGRIFITHS	DATE 07-09-02	TITLE MX150 16 WAY HYBRID BLADE SEALED ASSEMBLY		
	APPROVED BY VKOSHY	DATE 2013/05/16	MATERIAL NO. SEE NOTE 2a.			DOCUMENT NO. SD-34986-8001	SHEET NO. 3 OF 5
	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			

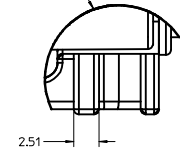
SHEET DESCRIPTION

BLADE SEALED ASSEMBLY

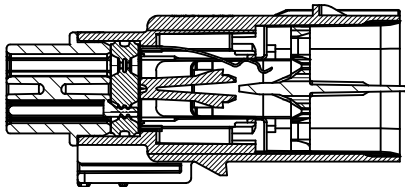


SHORTING BAR (SB) CIRCUITS ARE IDENTIFIED BY THE GROMMET CAP OPENING FEATURE SHOWN ABOVE.
DETAIL 1
SCALE 15:1

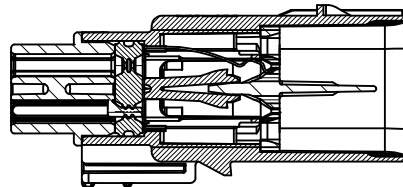
CLIP SLOT OPTION B
SEE BOM FOR APPLICABLE
PART NUMBERS



Partial 1
SCALE 4:1



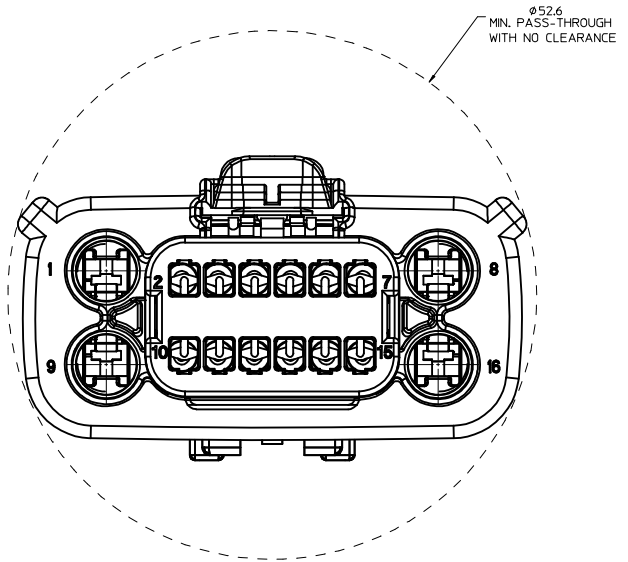
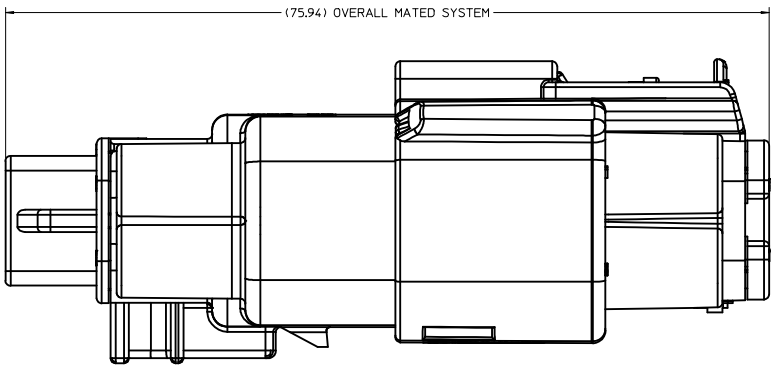
PRIMARY LOCK REINFORCEMENT (PLR) SHOWN
IN PRE-STAGED POSITION
SECTION Z-Z



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

ENTER DESCRIPTION IEC NO: UAU2015-0154 DRAWN BY: J. WESLEY CHECKED BY: D. GRIFFITHS APPROVED BY: V. KOSHY DATE: 2014/07/25 DATE: 2014/07/25 DATE: 2013/05/16	QUALITY SYMBOLS ▽=0 ▽=0 ▽=0	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE 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 J. WESLEY DATE 06-16-02	CHECKED BY D. GRIFFITHS DATE 07-09-02	APPROVED BY V. KOSHY DATE 2013/05/16	TITLE MX150 16 WAY HYBRID BLADE SEALED ASSEMBLY
		ANGULAR ± 3 °			DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS			MATERIAL NO. SEE NOTE 2a.		DOCUMENT NO. SD-34986-8001
		THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION								SHEET NO. 4 OF 5

SHEET DESCRIPTION
SYSTEM PACKAGING



ENTER DESCRIPTION EC NO: UA12015-0154 DRAWN BY: JTT 2014/07/25 CHKD BY: WSL/AMB/RL 2014/07/25 APPR: VKOSHY 2014/07/25	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	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 ± ---		DGRIFITHS	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. SEE NOTE 2a.					
		DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		SIZE A 1					

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

Table with columns for ASSEMBLY DESCRIPTION, ASSEMBLY PART NUMBER, COMPONENT (HOUSING KEY/COLOR, GROMMET CAP, PLR, MAT SEAL, SB QTY), BLOCKED TERMINALS (1-16), STATUS, COMMENTS, and OPTIONAL ATTACHMENTS SOLD SEPERATELY (BACKSHELL WITH RIBS, BACKSHELL WITHOUT RIBS). Rows list various assembly configurations from 34986-1845 to 34986-1943.

