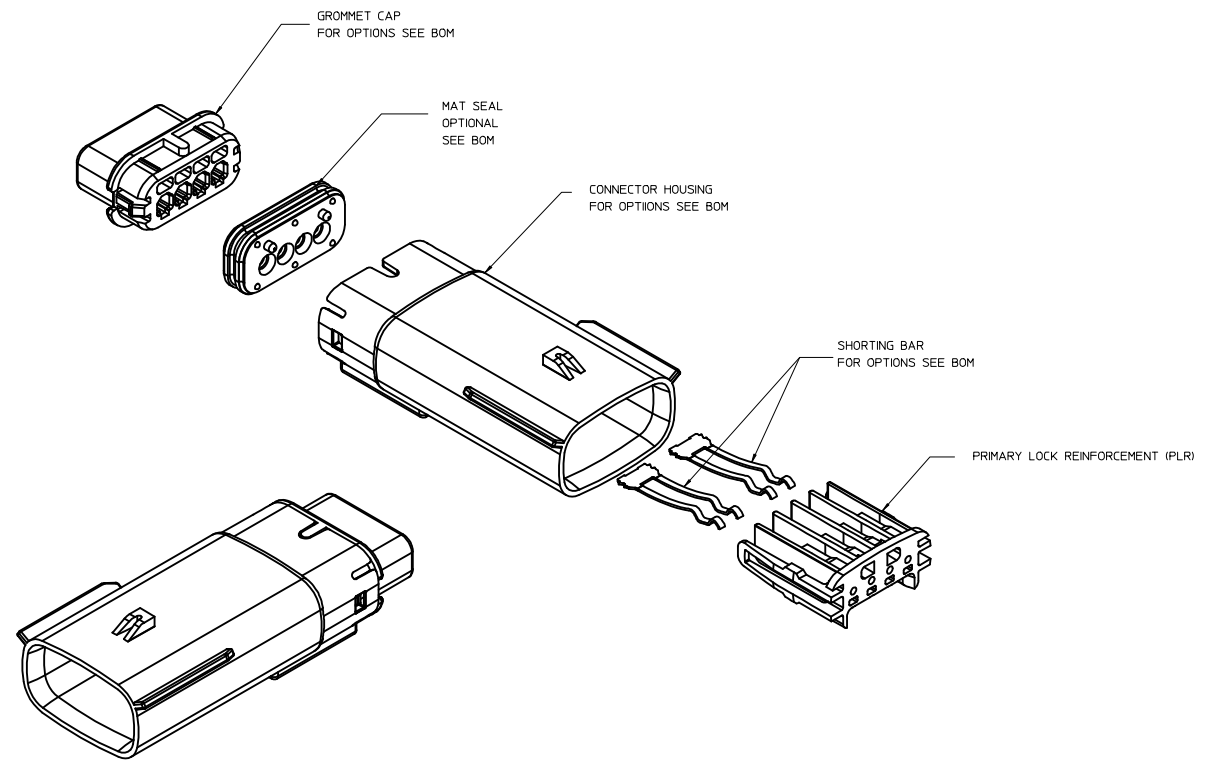


TABLE OF CONTENTS	
SHEET NO.	SHEET DESCRIPTION
1	NOTES
2	KEY CONFIGURATIONS
3	BLADE SEALED ASSEMBLY
4	SYSTEM PACKAGING
5	BOM



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-33471-041. 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 WITHIN DIAMETER RANGE OF 1.7mm TO 2.05mm.
-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.
-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-34666-001, AVAILABLE AT 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 45 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)
 - f. FOR INFORMATION ON 1X4 BLADE SEALED ASSEMBLY WITHOUT SHORTING BAR SEE SD-33481-041.
2. DESIGN - MATERIALS:
 - a. CONNECTOR HOUSING, GROMMET CAP, PLR: SPS/NYLON BLEND 20% GLASS FILLED
 - b. MAT SEAL: INHERENTLY LUBRICATED SILICONE
 - c. SHORTING BARS: STAINLESS STEEL
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

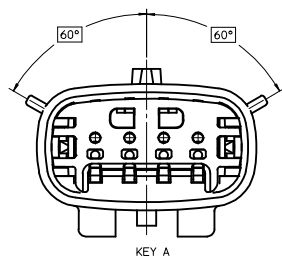
INSPECTION NUMBER LOG
LAST NUMBER USED: 4
ADDED:
REMOVED: 2

REV	DESCRIPTION
K	ADDED NEW P/N 31280-0450 31280-0451
J	ADDED NEW P/N 31280-0449
H	ADDED NEW P/N 31280-0448
G	UPDATED GROMMET CAP
F1	UPDATED DIMENSIONS TO MATCH MODEL
F	REDRAWN

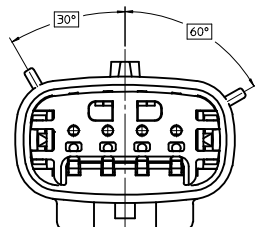
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	DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS							
	THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION							
	SIZE D							

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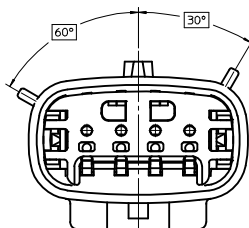
KEY CONFIGURATIONS



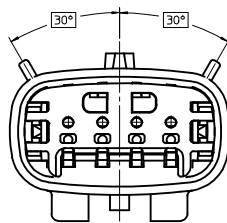
KEY A



KEY B



KEY C



KEY D

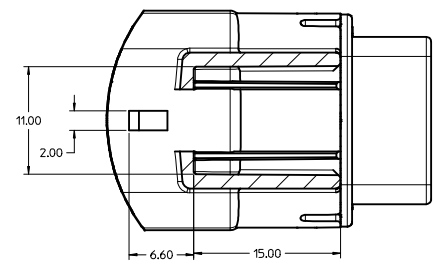
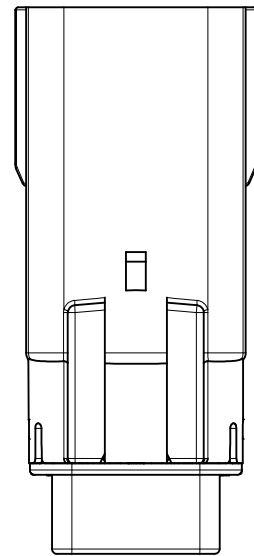
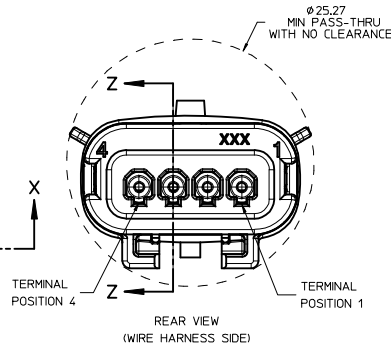
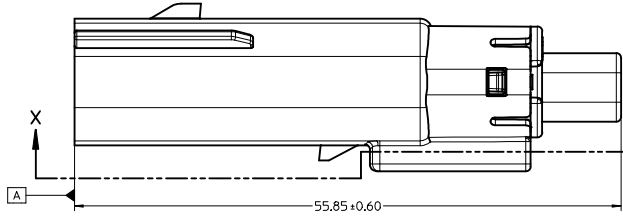
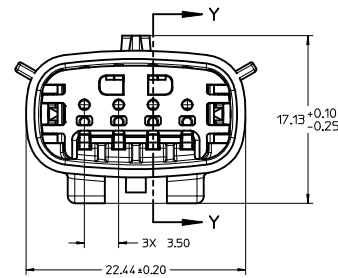
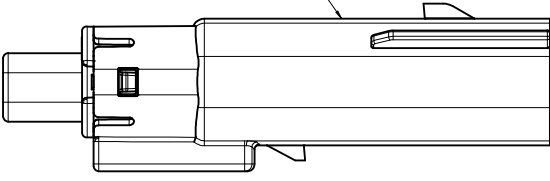
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	▽=0	mm INCH	MM ONLY	4:1	METRIC	☉
	▽=0	4 PLACES ± 0.10	DRAWN BY MDANIELS	DATE 01/03/02	TITLE MX150 1X4 BLADE SEALED ASSEMBLY MAT SEAL, SHORTING BAR	
	▽=0	3 PLACES ± 0.25	CHECKED BY GMEYER	DATE 01/03/02		
REV	DESCRIPTION	ANGULAR ± 1 °	MATERIAL NO.	DATE	APPROVED BY	DOCUMENT NO.
		DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS	SEE BOM	01/03/02	BBWILSON	SD-31280-200
			SIZE D	THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION		

SHEET NO. 2 OF 5

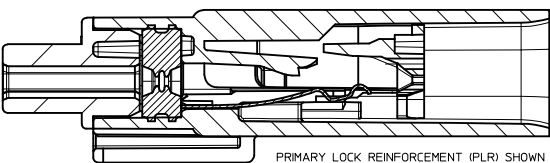
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BLADE SEALED ASSEMBLY

OPTIONAL LASER MARKING THIS SURFACE
SEE NOTE 3g.

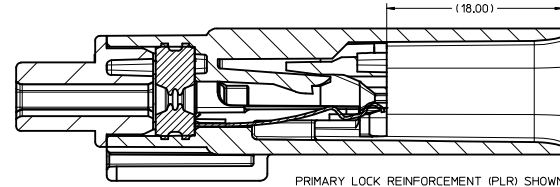


SECTION X-X
SCALE 4:1



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

SECTION Z-Z



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

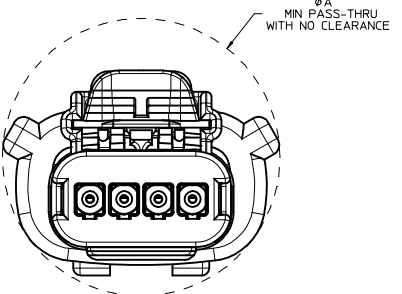
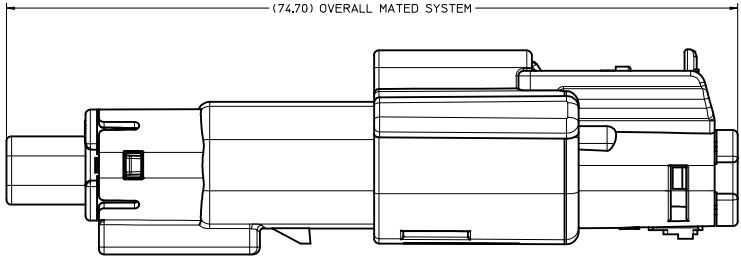
SECTION Y-Y

ENTER DESCRIPTION IEC NO: UAU2015-1539 DRAWN BY: CHYK CHKD: APPR: WOSHY 2015/04/14 2015/04/23	QUALITY SYMBOLS	GENERAL TOLERANCES (UNLESS SPECIFIED)	DIMENSION STYLE	SCALE	DESIGN UNITS	THIRD ANGLE PROJECTION
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DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS	ANGULAR ± 1 °	SEE BOM	MATERIAL NO.	DOCUMENT NO.	SHEET NO.	3 OF 5

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

SYSTEM PACKAGING



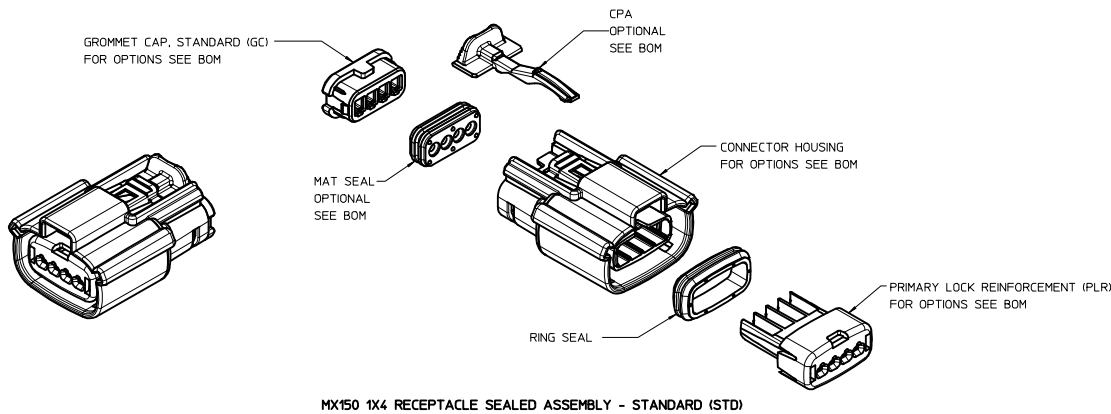
CHARTED DIMENSIONS	
CONFIGURATION	A
MX150 1X4 RECPT SEALED ASSY - STANDARD	29.14
MX150 1X4 RECPT SEALED ASSY - ERGO	29.33
MX150 1X4 RECPT SEALED ASSY - SHORTING (SHRT) BAR	29.14

ENTER DESCRIPTION IEC NO: UAU2015-1539 DRAWN BY: 2015/04/14 CHKD: APPR: WKSHY 2015/04/23 REV: DESCRIPTION	QUALITY SYMBOLS	GENERAL TOLERANCES (UNLESS SPECIFIED)	DIMENSION STYLE	SCALE	DESIGN UNITS	THIRD ANGLE PROJECTION
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	▽=0	4 PLACES ± --- ± ---	DRAWN BY DATE			
	▽=0	3 PLACES ± 0.10 ± ---	MDANIELS 01/03/02			
	2 PLACES ± 0.3 ± ---	CHECKED BY DATE				MX150 1X4 BLADE SEALED ASSEMBLY MAT SEAL, SHORTING BAR molex
	1 PLACE ± --- ±	GMEYER 01/03/02				
	0 PLACE ± --- ±	APPROVED BY DATE				MATERIAL NO. SEE BOM DOCUMENT NO. SD-31280-200
		ANGULAR ± 1 °				SHEET NO. 4 OF 5
		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

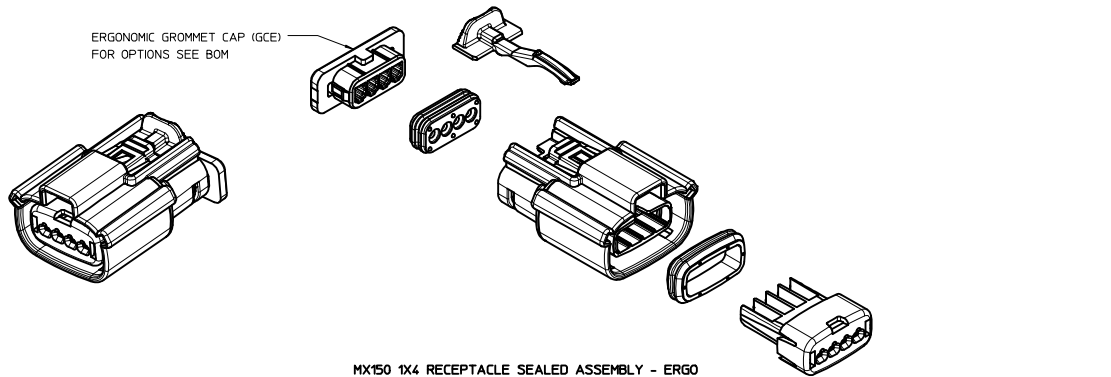
BOM SHEET 1

MOLEX ASSEMBLY PART NUMBER	HOUSING COLOR	KEYING OPTION	CAVITY NUMBER "X" INDICATES PLUGGED POSITION				NUMBER OF PLUGGED POSITIONS	MAT SEAL	SHORTING BAR CIRCUITS 1&2	SHORTING BAR CIRCUITS 3&4
			1	2	3	4				
31280-0436	BLACK	A					0	PRESENT	PRESENT	PRESENT
31280-0437	LIGHT GRAY	B					0	PRESENT	PRESENT	PRESENT
31280-0438	BROWN	C					0	PRESENT	PRESENT	PRESENT
31280-0439	GREEN	D					0	PRESENT	PRESENT	PRESENT
31280-0440	CUSTOM	TBD					0	PRESENT	PRESENT	PRESENT
31280-0441	BLACK	A			X	X	2	PRESENT	PRESENT	NONE
31280-0442	BLACK	A					0	NONE	PRESENT	PRESENT
31280-0443	LIGHT GRAY	B					0	NONE	PRESENT	PRESENT
31280-0444	BROWN	C					0	NONE	PRESENT	PRESENT
31280-0445	GREEN	D					0	NONE	PRESENT	PRESENT
31280-0446	BLACK	A					0	PRESENT	PRESENT	NONE
31280-0447	LIGHT GRAY	B					0	PRESENT	NONE	PRESENT
31280-0448	YELLOW	A					0	PRESENT	PRESENT	PRESENT
31280-0449	YELLOW	A			X		1	PRESENT	PRESENT	NONE
31280-0450	DARK GRAY	C					0	PRESENT	PRESENT	PRESENT
31280-0451	STONE GRAY	D					0	PRESENT	PRESENT	PRESENT

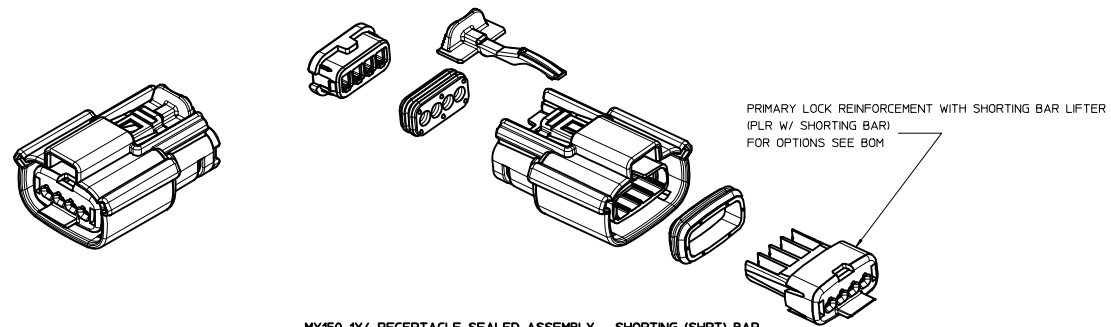
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	▽=0	mm INCH	MM ONLY		METRIC	
	▽=0	4 PLACES ± 0.10	DRAWN BY: MDANIELS	DATE: 01/03/02	TITLE: MX150 1X4 BLADE SEALED ASSEMBLY MAT SEAL, SHORTING BAR	
	▽=0	3 PLACES ± 0.25	CHECKED BY: GMEYER	DATE: 01/03/02		
		ANGULAR ± 1 °	APPROVED BY: BBWILSON	DATE: 01/03/02		
		DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS	MATERIAL NO: SEE BOM	DOCUMENT NO: SD-31280-200	SHEET NO: 5 OF 5	
			THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION			



MX150 1X4 RECEPTACLE SEALED ASSEMBLY - STANDARD (STD)



MX150 1X4 RECEPTACLE SEALED ASSEMBLY - ERGO
UNLESS COMPONENT NOTED, SEE STANDARD ASSEMBLY



MX150 1X4 RECEPTACLE SEALED ASSEMBLY - SHORTING (SHRT) BAR
UNLESS COMPONENT NOTED, SEE STANDARD ASSEMBLY

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

NOTES: VALID UNLESS OTHERWISE SPECIFIED

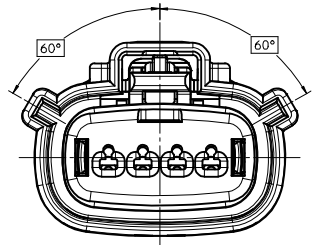
1. GENERAL:
 - a. APPLICATION SPECIFICATION SEE: AS-33472-100
 - CONTAINS: PRODUCT INTRODUCTION, PRODUCT SUMMARY, CONNECTOR ASSEMBLY, PACKAGING INFORMATION, CONNECTOR MATING, SERVICE INSTRUCTIONS, ELECTRICAL CONTINUITY CHECKING, CRIMPING, AND TROUBLESHOOTING.
 - STANDARD (NON-SHRT) CONFIGURATIONS DESIGNED TO MATE WITH DEVICE CONNECTION AS SPECIFIED IN DRAWING SD-33481-041 AND EWCAP 150-S-004-1-203, AVAILABLE AT <http://ewcap.uscarteams.org/>
 - SHORTING BAR CONFIGURATIONS DESIGNED TO MATE WITH BLADE SEALED ASSEMBLY SPECIFIED IN DRAWING SD-31280-200
 - FOR 1.5mm RECEPTACLE TERMINALS TO BE USED WITH THIS ASSEMBLY, SEE MOLEX DRAWING SD-33012-002.
 - SYSTEM TO BE USED WITH WIRE WITHIN DIAMETER RANGE OF 1.2mm TO 2.69mm.
 - 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, 40N MAX.
 - 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 AND 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-31300-903
 - d. PARTS MUST BE IN COMPLIANCE TO MOLEX CHEMICAL SUBSTANCES FOR PRODUCTS AND PACKAGING SPECIFICATION: ES-60000-5016
 - e. DATA MUST BE SUBMITTED UNDER THE MOLEX PART NUMBER TO IMDS (COMPANY ID#13255)
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 NUMBER LOG
LAST NUMBER USED: 5
ADDED: 2
REMOVED: 2

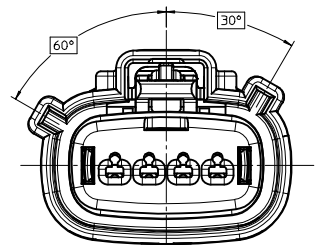
REV	DESCRIPTION
W	REMOVE THE 33471-0489 CPA
V11	RE-RELEASE TO CORRECT PRE-RELEASE STAMP ERROR
V10	CORRECT WRONG 33471-0488 AND 33471-0487
V9	ADD NEW P/N 33471-0492
V8	ADD NEW P/N 33471-0491
V7	CHANGE THE STATUS TO SELEABLE FROM TOOLED BUT NOT VALIDATED FOR DK GREY AND ST GREY
V6	ADD NEW P/N 33471-0489 33471-0490

ENTER DESCRIPTION IEC NO: UAU2015-1937 DRAWN BY: 2015/06/24 CHYD: APPR: WKOSHY 2015/07/12	QUALITY SYMBOLS ∇=0 ∇=0 ∇=0	GENERAL TOLERANCES (UNLESS SPECIFIED) mm INCH 4 PLACES ± --- ± --- 3 PLACES ± 0.10 ± --- 2 PLACES ± 0.3 ± --- 1 PLACE ± ± --- 0 PLACE ± ±	DIMENSION STYLE MM ONLY DRAWN BY: DATE DGRIFFI ITHS 2010/03/31 CHECKED BY: DATE MDICK 2011/08/11 APPROVED BY: DATE WKOSHY 2010/04/06	SCALE: 2:1 DESIGN UNITS: METRIC THIRD ANGLE PROJECTION	TITLE MX150 1X4 RECEPTACLE SEALED ASSEMBLY MAT SEAL molex	MATERIAL NO: SEE BOM	DOCUMENT NO: SD-33471-041	SHEET NO: 1 OF 6
	ANGULAR ± 3 ° 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							
	SIZE D							

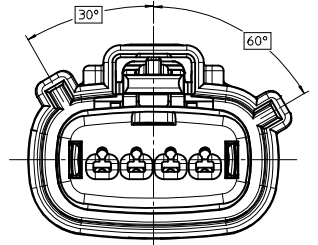
KEY CONFIGURATIONS



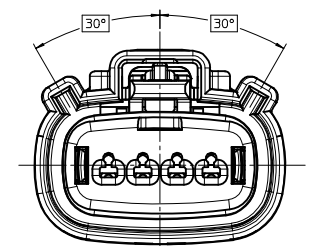
KEY A



KEY B



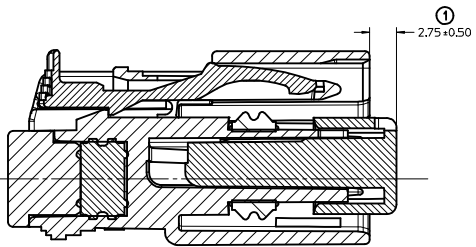
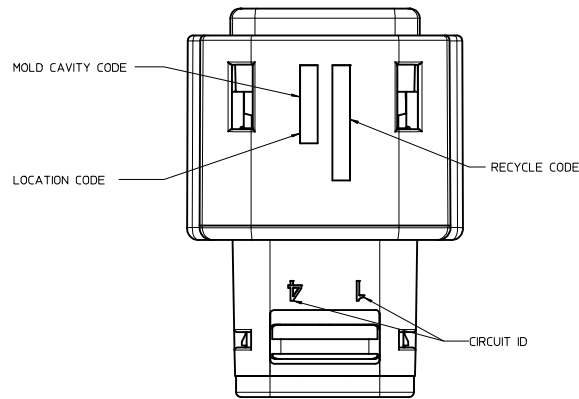
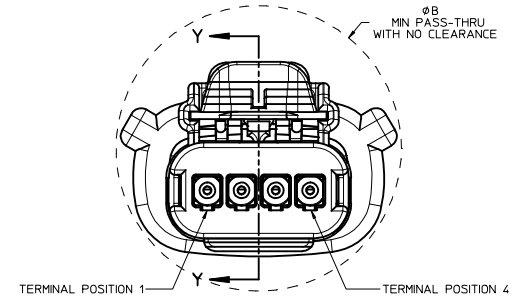
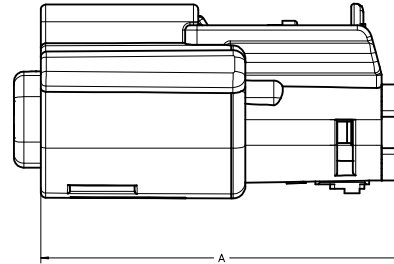
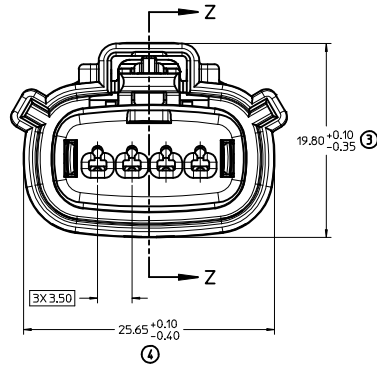
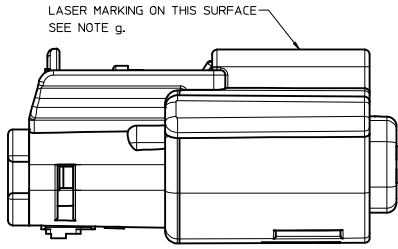
KEY C



KEY D

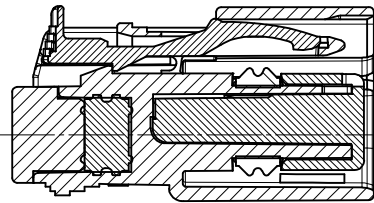
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	▽=0	mm INCH	MM ONLY	4:1	METRIC	
	▽=0	4 PLACES ± .005 ± .005	DRAWN BY DATE			TITLE
	▽=0	3 PLACES ± .010 ± .010	DGRIFITHS 2010/03/31			MX150 1X4 RECEPTACLE SEALED ASSEMBLY MAT SEAL
		2 PLACES ± 0.10 ± .010	CHECKED BY DATE			
		1 PLACE ± 0.3 ± .030	MDICK 2011/08/11			
		0 PLACE ± ±	APPROVED BY DATE			
		ANGULAR ± .3 °	VKOSHY 2010/04/06			
		DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS	MATERIAL NO.	SEE BOM	DOCUMENT NO.	SHEET NO.
			SIZE D		SD-33471-041	2 OF 6
			THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION			

RECEPTACLE SEALED ASSEMBLY



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

SECTION Z-Z



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

SECTION Y-Y

CHARTED DIMENSIONS		
CONFIGURATION	A	B
MX150 1X4 RECPT SEALED ASSY - STANDARD	36.95 ±0.70	29.14
MX150 1X4 RECPT SEALED ASSY - ERGO	36.95 ±0.90	29.33
MX150 1X4 RECPT SEALED ASSY - SHORTING (SHRT) BAR	36.95 ±0.70	29.14

ENTER DESCRIPTION EC NO: UAU2015-1937 DRAWN BY: CHKD: APPR: VKOSHY 2015/06/24 2015/07/22	QUALITY SYMBOLS ∇=0 ∇=0 ∇=0	GENERAL TOLERANCES (UNLESS SPECIFIED) <table border="1"> <tr> <th></th> <th>mm</th> <th>INCH</th> </tr> <tr> <td>4 PLACES ±</td> <td>---</td> <td>±---</td> </tr> <tr> <td>3 PLACES ±</td> <td>---</td> <td>±---</td> </tr> <tr> <td>2 PLACES ±</td> <td>+0.10</td> <td>±---</td> </tr> <tr> <td>1 PLACE ±</td> <td>+0.3</td> <td>±---</td> </tr> <tr> <td>0 PLACE ±</td> <td>±</td> <td>±</td> </tr> </table> ANGULAR ± 3 ° DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		mm	INCH	4 PLACES ±	---	±---	3 PLACES ±	---	±---	2 PLACES ±	+0.10	±---	1 PLACE ±	+0.3	±---	0 PLACE ±	±	±	DIMENSION STYLE MM ONLY DRAWN BY: DGRIFITHS DATE: 2010/03/31 CHECKED BY: MDICK DATE: 2011/08/11 APPROVED BY: VKOSHY DATE: 2010/04/06	SCALE 4:1 DESIGN UNITS METRIC THIRD ANGLE PROJECTION	TITLE MX150 1X4 RECEPTACLE SEALED ASSEMBLY MAT SEAL molex MATERIAL NO. SEE BOM DOCUMENT NO. SD-33471-041	SHEET NO. 3 OF 6
		mm	INCH																					
	4 PLACES ±	---	±---																					
	3 PLACES ±	---	±---																					
2 PLACES ±	+0.10	±---																						
1 PLACE ±	+0.3	±---																						
0 PLACE ±	±	±																						
THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION																								
SIZE D																								
SEE BOM																								

ASSEMBLY DESCRIPTION	ASSEMBLY PART NUMBER	A	B	C	D	C	D	GCO	GCP	GCEO	GCEP	P	PS	M	CPA	1	2	3	4	STATUS	COMMENTS
VOID KEY	33471-0440																				
KEY D W/ SHRT. BAR, GREEN	33471-0439				D			GCO					PS	M						NOT RECOMMENDED	SEE P/N 33471-0481
KEY C W/ SHRT. BAR, BROWN	33471-0438			C				GCO					PS	M						NOT RECOMMENDED	SEE P/N 33471-0480
KEY B W/ SHRT. BAR, LT. GRAY	33471-0437			B				GCO					PS	M							
KEY A W/ SHRT. BAR, BLACK	33471-0436	A						GCO					PS	M						SALEABLE	
VOID KEY	33471-0435																				
KEY D W/O MAT SEAL, GREEN	33471-0434				D			GCO				P								NOT RECOMMENDED	SEE P/N 33471-0479
KEY C W/O MAT SEAL, BROWN	33471-0433				C			GCO				P								NOT RECOMMENDED	SEE P/N 33471-0478
KEY B W/O MAT SEAL, LT. GRAY	33471-0432			B				GCO				P								NOT VALIDATED	
KEY A W/O MAT SEAL, BLACK	33471-0431	A						GCO				P								SALEABLE	NOT VALIDATED
VOID KEY	33471-0430																				
KEY D W/ CPA, GREEN	33471-0429				D			GCP				P	M	CPA	1				4	NOT RECOMMENDED	SEE P/N 33471-0477
KEY C W/ CPA, BROWN	33471-0428				C			GCP				P	M	CPA	1				4	NOT RECOMMENDED	SEE P/N 33471-0476
KEY B W/ CPA, LT. GRAY	33471-0427			B				GCP				P	M	CPA	1				4		
KEY A W/ CPA, BLACK	33471-0426	A						GCP				P	M	CPA	1				4	SALEABLE	
VOID KEY	33471-0425																				
KEY D, GREEN	33471-0424				D			GCP				P	M		1				4	NOT RECOMMENDED	SEE P/N 33471-0475
KEY C, BROWN	33471-0423				C			GCP				P	M		1				4	NOT RECOMMENDED	SEE P/N 33471-0474
KEY B, LT. GRAY	33471-0422			B				GCP				P	M		1				4		
KEY A, BLACK	33471-0421	A						GCP				P	M		1				4	SALEABLE	
VOID KEY	33471-0420																				
KEY D W/ CPA, GREEN	33471-0419				D			GCP				P	M	CPA					4	NOT RECOMMENDED	SEE P/N 33471-0473
KEY C W/ CPA, BROWN	33471-0418				C			GCP				P	M	CPA					4	NOT RECOMMENDED	SEE P/N 33471-0472
KEY B W/ CPA, LT. GRAY	33471-0417			B				GCP				P	M	CPA					4		
KEY A W/ CPA, BLACK	33471-0416	A						GCP				P	M	CPA					4	SALEABLE	
VOID KEY	33471-0415																				
KEY D, GREEN	33471-0414				D			GCP				P	M						4	NOT RECOMMENDED	SEE P/N 33471-0471
KEY C, BROWN	33471-0413				C			GCP				P	M						4	NOT RECOMMENDED	SEE P/N 33471-0470
KEY B, LT. GRAY	33471-0412			B				GCP				P	M						4		
KEY A, BLACK	33471-0411	A						GCP				P	M						4	SALEABLE	
KEY C W/ CPA, BLACK	33471-0410				C			GCO				P	M	CPA							
KEY D W/ CPA, GREEN	33471-0409				D			GCO				P	M	CPA						NOT RECOMMENDED	SEE P/N 33471-0465
KEY C W/ CPA, BROWN	33471-0408				C			GCO				P	M	CPA						NOT RECOMMENDED	SEE P/N 33471-0464
KEY B W/ CPA, LT. GRAY	33471-0407			B				GCO				P	M	CPA							
KEY A W/ CPA, BLACK	33471-0406	A						GCO				P	M	CPA						SALEABLE	
VOID KEY	33471-0405																				
KEY D, GREEN	33471-0404				D			GCO				P	M							NOT RECOMMENDED	SEE P/N 33471-0463
KEY C, BROWN	33471-0403				C			GCO				P	M							NOT RECOMMENDED	SEE P/N 33471-0462
KEY B, LT. GRAY	33471-0402			B				GCO				P	M								
KEY A, BLACK	33471-0401	A						GCO				P	M							SALEABLE	

DESCRIPTION	COLOR	MATERIAL
RING SEAL	BURNT ORANGE	INHERENTLY LUBRICATED SILICONE
CPA	BRIGHT RED	PBT GF30
MAT SEAL	LIGHT BLUE	INHERENTLY LUBRICATED SILICONE
SHORTING BAR PLR	NATURAL	SPS/NYLON GF20
STANDARD PLR	NATURAL	SPS/NYLON GF20
ERGONOMIC GROMMET CAP, PLUGGED	BLACK	SPS/NYLON GF20
ERGONOMIC GROMMET CAP, OPEN	BLACK	SPS/NYLON GF20
STANDARD GROMMET CAP, PLUGGED	BLACK	SPS/NYLON GF20
STANDARD GROMMET CAP, OPEN	BLACK	SPS/NYLON GF20
HOUSING KEYING OPTION D	STONE GRAY	SPS/NYLON GF20
HOUSING KEYING OPTION C	DARK GRAY	SPS/NYLON GF20
HOUSING KEYING OPTION C	BLACK	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

BOM/APPLICABLE COMPONENTS TABLE

ABREVIATION	COMPONENT
A	HOUSING KEY A
B	HOUSING KEY B
C	HOUSING KEY C
D	HOUSING KEY D
GCO	GROMMET CAP, STANDARD, OPEN
GCP	GROMMET CAP, STANDARD, PLUGGED
GCEO	GROMMET CAP, ERGONOMIC, OPEN
GCEP	GROMMET CAP, ERGONOMIC, PLUGGED
M	MAT SEAL
P	PLR, STANDARD
PS	PLR, SHRT. BAR LIFTER
R	RING SEAL
CPA	CPA

ENTER DESCRIPTION EC NO: UAU2015-1937 DRAWN BY: CHYK APPR: WKOSHY DATE: 2015/06/24 REV: W	QUALITY SYMBOLS ∇=0 ∇=0 ∇=0	GENERAL TOLERANCES (UNLESS SPECIFIED) mm INCH 4 PLACES ±0.10 ±0.004 3 PLACES ±0.15 ±0.005 2 PLACES ±0.20 ±0.008 1 PLACE ±0.30 ±0.012 0 PLACE ±0.50 ±0.020 ANGULAR ± 3 ° DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS	DIMENSION STYLE MM ONLY	SCALE METRIC	DESIGN UNITS METRIC	THIRD ANGLE PROJECTION
			DRAWN BY: DGRIFITHS CHECKED BY: MDICK APPROVED BY: WKOSHY DATE: 2010/03/31 DATE: 2011/08/11 DATE: 2010/04/06	TITLE MX150 1X4 RECEPTACLE SEALED ASSEMBLY MAT SEAL	MATERIAL NO. SEE BOM	DOCUMENT NO. SD-33471-041

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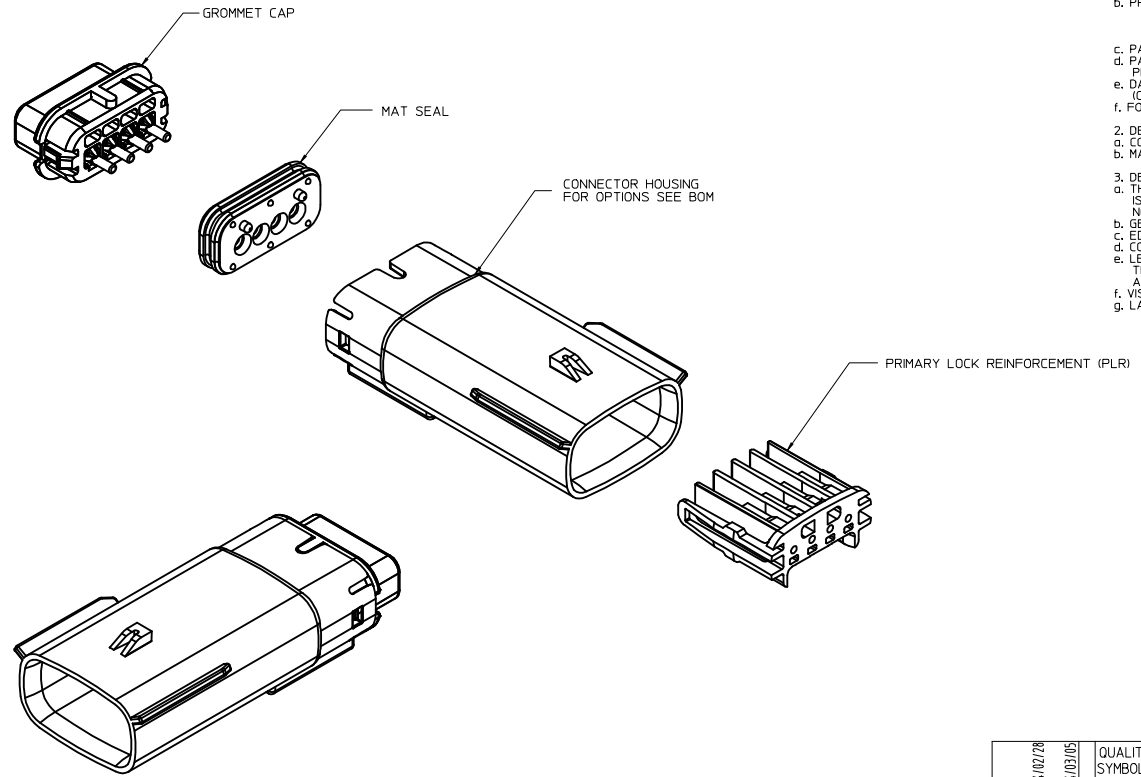
ASSEMBLY DESCRIPTION	ASSEMBLY PART NUMBER	A	B	C	D	C	D	A	GCO	GCP	GCEO	GCEP	P	PS	M	CPA	1	2	3	4	STATUS	COMMENTS
KEY A W/ CPA & SHRT. BAR, YELLOW	33471-0492								A	GCO				PS	M	CPA					SALEABLE	
KEY A W/ CPA, YELLOW	33471-0491								A	GCO				P	M	CPA					SALEABLE	
KEY A W/ CPA, BLACK	33471-0490	A								GCP				P	M	CPA			3		SALEABLE	
KEY A - BLACK	33471-0489	A								GCP				P	M				2		SALEABLE	
KEY D W/ SHRT. BAR, STONE GRAY	33471-0488							D		GCP				PS	M						2	4
KEY D W/ SHRT. BAR, STONE GRAY	33471-0487							D		GCP				PS	M		1	2	3	4		
KEY C W/ SHRT. BAR, DARK GRAY	33471-0486					C				GCP				PS	M		1	2	3	4		
KEY D W/ CPA & SHRT. BAR, STONE GRAY	33471-0485							D		GCO				PS	M	CPA						
KEY C W/ CPA & SHRT. BAR, DARK GRAY	33471-0484					C				GCO				PS	M	CPA						
KEY D, STONE GRAY	33471-0483							D		GCP				P	M		1	2	3	4		
KEY C, DARK GRAY	33471-0482					C				GCP				P	M		1	2	3	4		
KEY D W/ SHRT. BAR, STONE GRAY	33471-0481							D		GCO				PS	M							

DESCRIPTION	COLOR	MATERIAL
RING SEAL	BURNT ORANGE	INHERENTLY LUBRICATED SILICONE
CPA	BRIGHT RED	PBT GF30
MAT SEAL	LIGHT BLUE	INHERENTLY LUBRICATED SILICONE
SHORTING BAR PLR	NATURAL	SPS/NYLON GF20
STANDARD PLR	NATURAL	SPS/NYLON GF20
ERGONOMIC GROMMET CAP, FLUGGED	BLACK	SPS/NYLON GF20
ERGONOMIC GROMMET CAP, OPEN	BLACK	SPS/NYLON GF20
STANDARD GROMMET CAP, FLUGGED	BLACK	SPS/NYLON GF20
STANDARD GROMMET CAP, OPEN	BLACK	SPS/NYLON GF20
HOUSING KEYING OPTION A	YELLOW	SPS/NYLON GF20
HOUSING KEYING OPTION D	STONE GRAY	SPS/NYLON GF20
HOUSING KEYING OPTION C	DARK GRAY	SPS/NYLON GF20
HOUSING KEYING OPTION C	BLACK	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

ABREVIATION	COMPONENT
A	HOUSING KEY A
B	HOUSING KEY B
C	HOUSING KEY C
D	HOUSING KEY D
GCO	GROMMET CAP, STANDARD, OPEN
GCP	GROMMET CAP, STANDARD, PLUGGED
GCEO	GROMMET CAP, ERGONOMIC, OPEN
GCEP	GROMMET CAP, ERGONOMIC, PLUGGED
M	MAT SEAL
P	PLR, STANDARD
PS	PLR, SHRT. BAR LIFTER
R	RING SEAL
CPA	CPA

ENTER DESCRIPTION EC NO. UAU2015-1937 DRAWN BY: 2015/06/24 CHKD: 2015/07/12 APPR: VKOSHY REV:	QUALITY SYMBOLS ∇=0 ∇=0 ∇=0	GENERAL TOLERANCES (UNLESS SPECIFIED) mm INCH 4 PLACES ± --- ± --- 3 PLACES ± 0.10 ± --- 2 PLACES ± 0.3 ± --- 1 PLACE ± ± --- 0 PLACE ± ±	DIMENSION STYLE MM ONLY	SCALE 1:1	DESIGN UNITS METRIC	THIRD ANGLE PROJECTION
		DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS	DRAWN BY: DGRIFITHS DATE: 2010/03/31 CHECKED BY: MDICK DATE: 2011/08/11 APPROVED BY: VKOSHY DATE: 2010/04/06	MATERIAL NO. SEE BOM	TITLE MX150 1X4 RECEPTACLE SEALED ASSEMBLY MAT SEAL	DOCUMENT NO. SD-33471-041

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



NOTES: VALID UNLESS OTHERWISE SPECIFIED

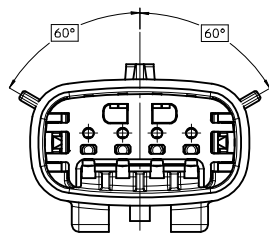
1. GENERAL:
 - a. APPLICATION SPECIFICATION SEE: AS-33472-100
 CONTAINS: PRODUCT INTRODUCTION, PRODUCT SUMMARY, CONNECTOR ASSEMBLY, PACKAGING INFORMATION, CONNECTOR MATING, SERVICE INSTRUCTIONS, ELECTRICAL CONTINUITY CHECKING, CRIMPING, AND TROUBLESHOOTING.
 -DESIGNED TO MATE WITH RECEPTACLE SEALED ASSEMBLY SPECIFIED IN MOLEX DRAWING SD-33471-041.
 -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>
 -ASSEMBLY CONFORMS TO SAE/JEUSCAR-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.
 - 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#1325)
 - f. FOR INFORMATION ON 1X4 BLADE SEALED ASSEMBLY WITH SHORTING BAR SEE SD-31280-200.
2. DESIGN - MATERIALS:
 - a. CONNECTOR HOUSING, GROMMET CAP, PLR: SPS/NYLON BLEND 20% GLASS FILLED
 - b. MAT 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 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

V	ADD NEW P/N 33481-0428
U	UPDATED GROMMET CAP
T1	UPDATED DIMENSIONS TO MATCH MODEL
T	COLOR REPLACEMENT FOR KEY C AND D PER USCAR STANDARD
S	REDRAWN
REV	DESCRIPTION
DIMENSION STYLE: MM ONLY SCALE: 3:1 DESIGN UNITS: METRIC THIRD ANGLE PROJECTION	
DRAWN BY: DMARCOUX DATE: 06-14-02 CHECKED BY: DGRIFFIT DATE: 06-14-02 APPROVED BY: FHOLUB DATE: 06-14-02	
MATERIAL NO. SEE BOM DOCUMENT NO. SD-33481-041	
TITLE: MX150 1X4 BLADE SEALED ASSEMBLY MAT SEAL molex	
SHEET NO. 1 OF 5	
THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION	

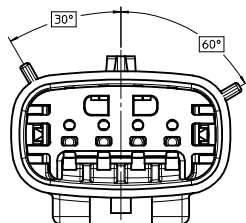
REVISED	EC NO: UAU2014-1363	DATE: 2014/02/28
DRWBY:	CHKD:	APPR: WOSHY
DESCRIPTION		

QUALITY SYMBOLS	GENERAL TOLERANCES (UNLESS SPECIFIED)
$\nabla=0$	4 PLACES \pm 0.10
$\nabla=0$	3 PLACES \pm 0.15
$\nabla=0$	2 PLACES \pm 0.20
$\nabla=0$	1 PLACE \pm 0.30
$\nabla=0$	0 PLACE \pm 0.50
	ANGULAR \pm 3°
	DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS

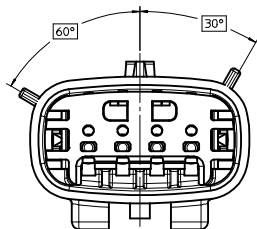
KEY CONFIGURATIONS



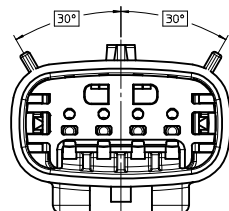
KEY A



KEY B



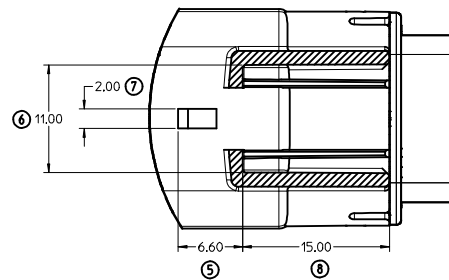
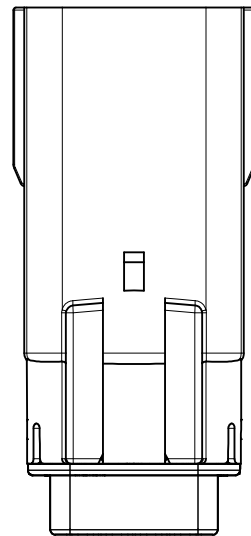
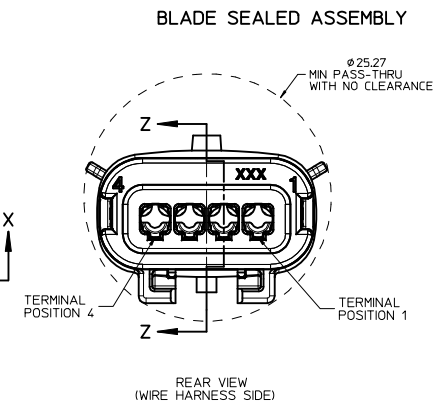
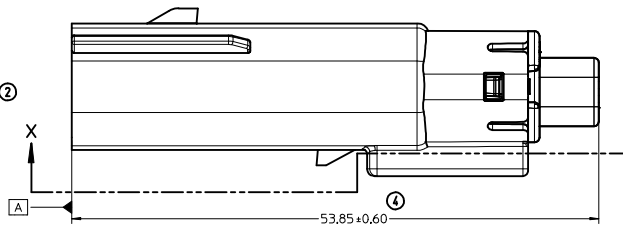
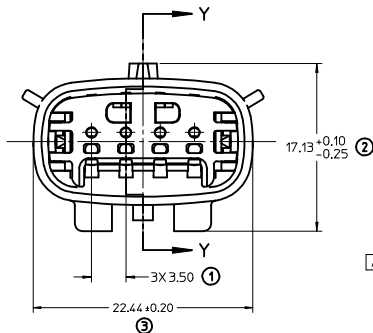
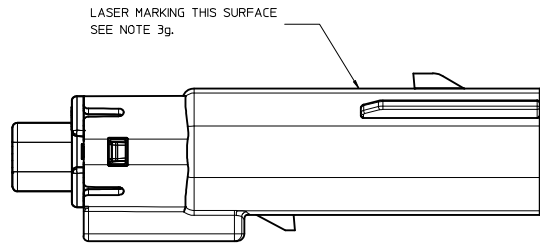
KEY C



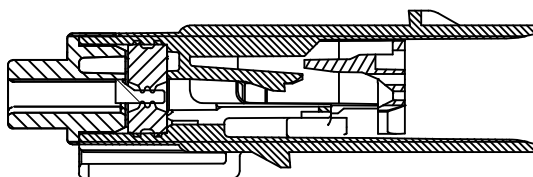
KEY D

REVISED IEC NO. UAU2014-1363 DRAWN BY CHYK CHECKED BY APPR: WOSHY DATE 2014/02/28 2014/03/05	QUALITY SYMBOLS ▽=0 ▽=0 ▽=0	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE MM ONLY	SCALE 4:1	DESIGN UNITS METRIC	THIRD ANGLE PROJECTION	
		4 PLACES ± 0.10 3 PLACES ± 0.15 2 PLACES ± 0.20 1 PLACE ± 0.30 0 PLACE ± 0.50	mm INCH	DRAWN BY DMARCOUX	DATE 06-14-02	TITLE MX150 1X4 BLADE SEALED ASSEMBLY MAT SEAL		
		ANGULAR ± 3 ° DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		CHECKED BY DGRIFFIT	DATE 06-14-02	MATERIAL NO. SEE BOM		
				APPROVED BY FHOLUB	DATE 06-14-02	DOCUMENT NO. SD-33481-041	SHEET NO. 2 OF 5	

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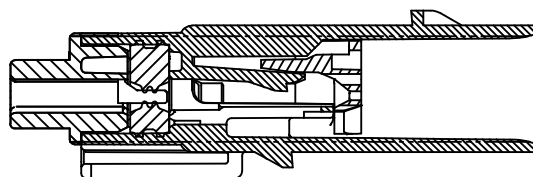


PARTIAL X-X
SCALE 4:1



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

SECTION Z-Z

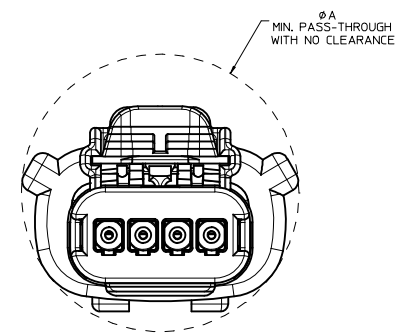
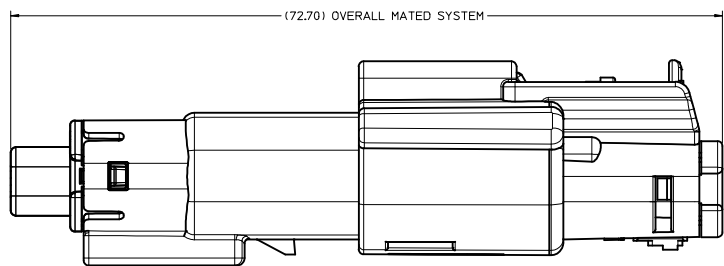


PRIMARY LOCK REINFORCEMENT (PLR) SHOWN
IN FINAL-LOCK POSITION

SECTION Y-Y

REVISED E.C. NO: UAU2014-1363 DRAWN BY CHKD: APPR: WJOSHY 2014/07/28 2014/03/05	QUALITY SYMBOLS	GENERAL TOLERANCES (UNLESS SPECIFIED)	DIMENSION STYLE	SCALE	DESIGN UNITS	THIRD ANGLE PROJECTION	
	∇=0 ∇=0 ∇=0	mm INCH 4 PLACES ± --- ± --- 3 PLACES ± --- ± --- 2 PLACES ± 0.10 ± --- 1 PLACE ± 0.3 ± --- 0 PLACE ± ±	MM ONLY	4:1	METRIC	☉ THIRD ANGLE ▽ PROJECTION	
	DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS	ANGULAR ± 3 °	DRAWN BY DMARCOUX DATE 06-14-02 CHECKED BY DGRIFFIT DATE 06-14-02 APPROVED BY FHOLUB DATE 06-14-02	MATERIAL NO. SEE BOM	DOCUMENT NO. SD-33481-041	TITLE MX150 1X4 BLADE SEALED ASSEMBLY MAT SEAL molex	SHEET NO. 3 OF 5
	THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION						

SYSTEM PACKAGING



CHARTED DIMENSIONS	
CONFIGURATION	A
MX150 1X4 RECP T SEALED ASSY - STANDARD	29.14
MX150 1X4 RECP T SEALED ASSY - ERGO	29.33
MX150 1X4 RECP T SEALED ASSY - SHORTING (SHRT) BAR	29.14

REVISED IEC NO. UAU2014-1363 DRAWN BY CHYK APPR: WKSHY 2014/02/28 2014/03/05	QUALITY SYMBOLS	GENERAL TOLERANCES (UNLESS SPECIFIED)	DIMENSION STYLE	SCALE	DESIGN UNITS	THIRD ANGLE PROJECTION
	▽=0	mm INCH	MM ONLY	4:1	METRIC	☉
	▽=0	4 PLACES ± --- ± ---	DRAWN BY DATE			
	▽=0	3 PLACES ± --- ± ---	DMARCOUX 06-14-02			
	2 PLACES ± 0.10 ± ---	CHECKED BY DATE				MX150 1X4 BLADE SEALED ASSEMBLY MAT SEAL molex
	1 PLACE ± 0.3 ± ---	DGRIFFIT 06-14-02				
	0 PLACE ± ±	APPROVED BY DATE				MATERIAL NO. SEE BOM DOCUMENT NO. SD-33481-041
		ANGULAR ± 3 °				SHEET NO. 4 OF 5
		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

ASSEMBLY PART NUMBER	COLOR	KEYING OPTION	CAVITY TYPE & STATUS (X = PLUGGED)				STATUS	COMMENTS
			1	2	3	4		
33481-0401	BLACK	A						
33481-0402	LT. GRAY	B						
33481-0403	BROWN	C						NOT RECOMMENDED, SEE P/N 33481-0424
33481-0404	GREEN	D						NOT RECOMMENDED, SEE P/N 33481-0425
33481-0405	BLACK	C						
33481-0406	BLACK	A				X		
33481-0407	LT. GRAY	B				X		
33481-0408	BROWN	C				X		
33481-0409	GREEN	D				X		
33481-0410	CUSTOM	TBD				X		
33481-0411	BLACK	A	X			X		
33481-0412	LT. GRAY	B	X			X		
33481-0413	BROWN	C	X			X		
33481-0414	GREEN	D	X			X		
33481-0415	CUSTOM	TBD	X			X		
33481-0416	BLACK	A	X	X	X	X		
33481-0417	LT. GRAY	B	X	X	X	X		
33481-0418	BROWN	C	X	X	X	X		NOT RECOMMENDED, SEE P/N 33481-0426
33481-0419	GREEN	D	X	X	X	X		NOT RECOMMENDED, SEE P/N 33481-0427
33481-0420	CUSTOM	TBD	X	X	X	X		
33481-0421	BLACK	A			X			
33481-0422	BLACK	A			X	X		
33481-0423	LT. GRAY	B	X	X				
33481-0424	DK. GRAY	C						
33481-0425	ST. GRAY	D						
33481-0426	DK. GRAY	C	X	X	X	X		
33481-0427	ST. GRAY	D	X	X	X	X		
33481-0428	YELLOW	A						

REVISED IEC NO. UAU2014-1363 DRAWN BY CHYK 2014/02/28 APPR: WKSHY 2014/03/05	QUALITY SYMBOLS	GENERAL TOLERANCES (UNLESS SPECIFIED)	DIMENSION STYLE	SCALE	DESIGN UNITS	THIRD ANGLE PROJECTION
	∇=0 ∇=0 ∇=0	4 PLACES ± mm 3 PLACES ± 0.10 2 PLACES ± 0.3 1 PLACE ± 0 PLACE ±	UNLESS SPECIFIED mm INCH ANGULAR ± 3° DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS	MM ONLY DRAWN BY DATE DMARCOUX 06-14-02 CHECKED BY DATE DGRIFFIT 06-14-02 APPROVED BY DATE FHOLUB 06-14-02		METRIC
			MATERIAL NO.	DOCUMENT NO.		SHEET NO.
			SEE BOM	SD-33481-041		5 OF 5
			THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION			