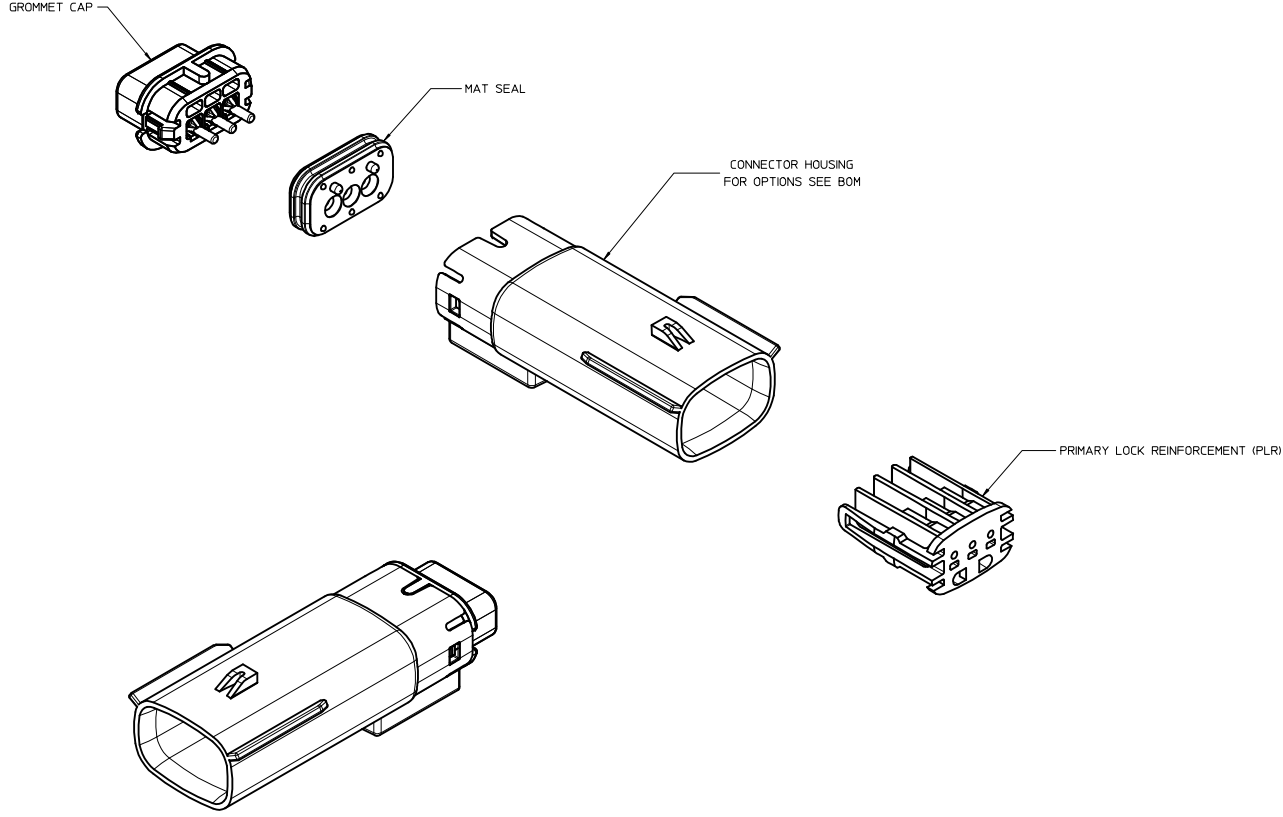


TABLE OF CONTENTS	
SHEET NO.	SHEET DESCRIPTION
1	NOTES
2	KEY CONFIGURATIONS
3	BLADE SEALED ASSEMBLY
4	SYSTEM PACKAGING
5	BOM



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-33471-031.  
 -FOR 1.5mm 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 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 SPECIFICATIONS 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  
 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

INSPECTION NUMBER LOG  
 LAST NUMBER USED: 8  
 ADDED:  
 REMOVED:

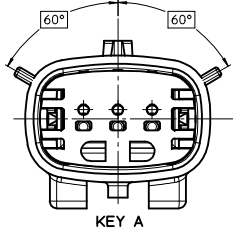
REV	DESCRIPTION
N	UPDATED GROMMET CAP
M3	UPDATED DIMENSIONS TO MATCH MODEL
M2	COLOR REPLACEMENT FOR KEY C AND D PER USCAR STANDARD
M1	UPDATED NOTES
M	REDRAWN

QUALITY SYMBOLS	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE		SCALE	DESIGN UNITS	THIRD ANGLE PROJECTION
	mm	INCH	MM ONLY	DATE			
▽=0	4 PLACES ±---	±---	DRAWN BY	DATE	3:1	METRIC	MX150 1X3 BLADE SEALED ASSEMBLY MAT SEAL
▽=0	3 PLACES ±---	±---	DMARCOUX	06-12-02			
▽=0	2 PLACES ±0.10	±---	CHECKED BY	DATE			
▽=0	1 PLACE ±0.3	±---	DGRIFFIT	06-12-02			
▽=0	0 PLACE ±	±	APPROVED BY	DATE	MATERIAL NO. SEE BOM DOCUMENT NO. SD-33481-031 SHEET NO. 1 OF 5		
			FHOLUB	06-12-02			

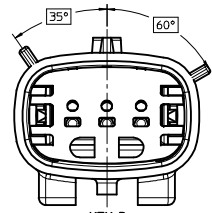
DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS

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

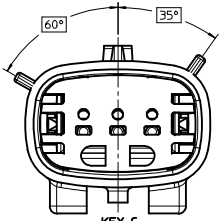
KEY CONFIGURATIONS



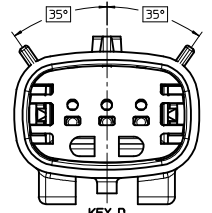
KEY A



KEY B



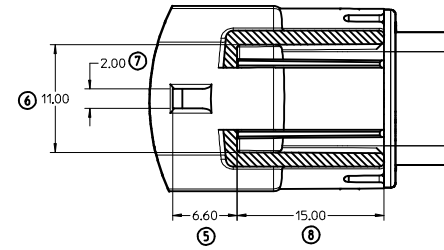
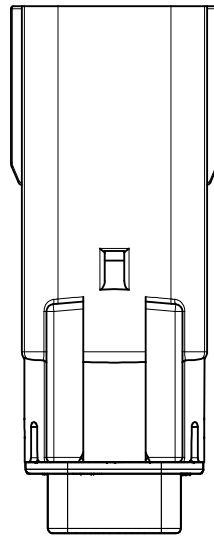
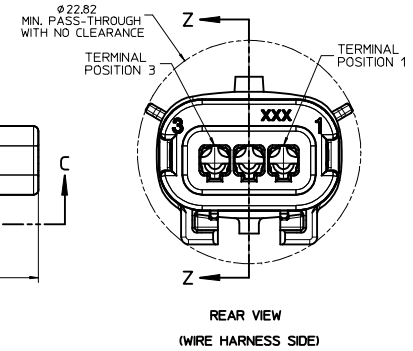
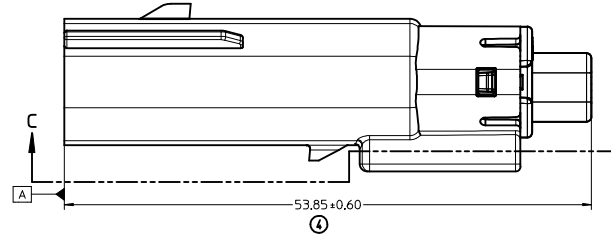
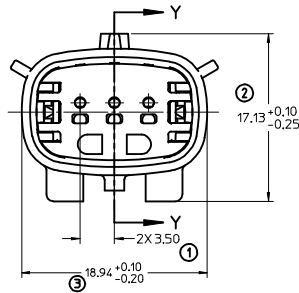
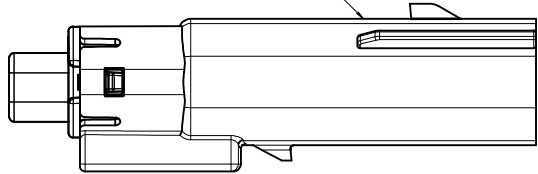
KEY C



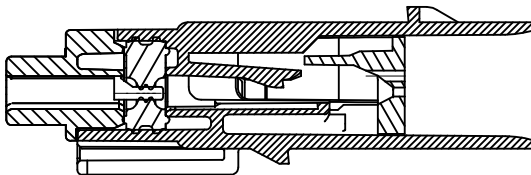
KEY D

SEE REV. COLUMN IEC NO. UAU2013-1478 DRAWN: PROFFITT 2013/03/20 CHECKED: DICK 2013/03/20 APPR: KOSHY 2013/03/20	QUALITY SYMBOLS ∇=0 ∇=0 ∇=0	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE <b>MM ONLY</b>	SCALE <b>4:1</b>	DESIGN UNITS <b>METRIC</b>	THIRD ANGLE PROJECTION	
		4 PLACES ± mm ± INCH	3 PLACES ± --- ± ---	DRAWN BY DMARCOUX	DATE 06-12-02	TITLE <b>MX150 1X3 BLADE SEALED ASSEMBLY MAT SEAL</b>		
		2 PLACES ± 0.10 ± ---	1 PLACE ± 0.3 ± ---	CHECKED BY DGRIFFIT	DATE 06-12-02	MATERIAL NO. <b>SEE BOM</b>		
		0 PLACE ± ±	ANGULAR ± 3 °	APPROVED BY FHOLUB	DATE 06-12-02	DOCUMENT NO. <b>SD-33481-031</b>	SHEET NO. 2 OF 5	
DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		SIZE <b>D</b>		THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION				

LASER MARKING THIS SURFACE  
SEE NOTE 3g.

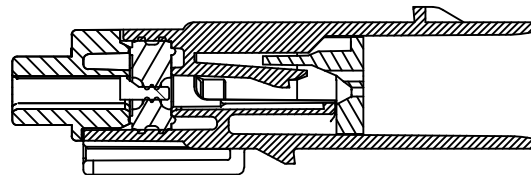


SECTION C-C



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

SECTION Z-Z



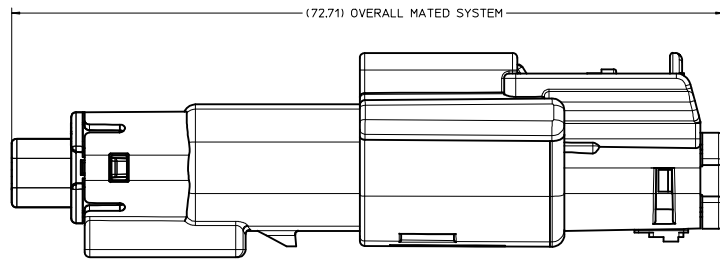
PRIMARY LOCK REINFORCEMENT (PLR) SHOWN  
IN FINAL-LOCK POSITION

SECTION Y-Y

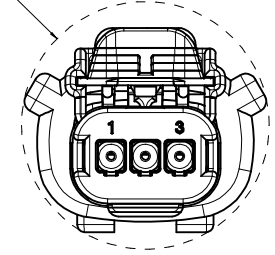
SEE REV. COLUMN IEC NO. UAU2013-1478 DRAWN: PROFFITT CHYKHOLOK APPR: WOSHY 2013/03/19 2013/03/20 2013/03/20	QUALITY SYMBOLS	GENERAL TOLERANCES (UNLESS SPECIFIED)	DIMENSION STYLE	SCALE	DESIGN UNITS	THIRD ANGLE PROJECTION	
	∇=0 ∇=0 ∇=0	mm INCH 4 PLACES ± --- ± --- 3 PLACES ± --- ± --- 2 PLACES ± 0.10 ±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



∅25.30  
MIN. PASS-THROUGH  
WITH NO CLEARANCE



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

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	

<b>SEE REV. COLUMN</b> IEC NO. UAU2013-1478 DRAWN: APPROFIT 2013/03/20 CHECKED: DICK 2013/03/20 APPR: WOSHY 2013/03/20	QUALITY SYMBOLS	GENERAL TOLERANCES (UNLESS SPECIFIED)	DIMENSION STYLE	SCALE	DESIGN UNITS	THIRD ANGLE PROJECTION
	▽=0	mm INCH	MM ONLY		METRIC	
	▽=0	4 PLACES ± 0.10	DRAWN BY DATE			MX150 1X3 BLADE SEALED ASSEMBLY MAT SEAL 
	▽=0	3 PLACES ± 0.03	DMAUCOUX 06-12-02			
	ANGULAR ± 3 °	DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS	MATERIAL NO.	DOCUMENT NO.	SHEET NO.	
			SEE BOM	SD-33481-031	5 OF 5	