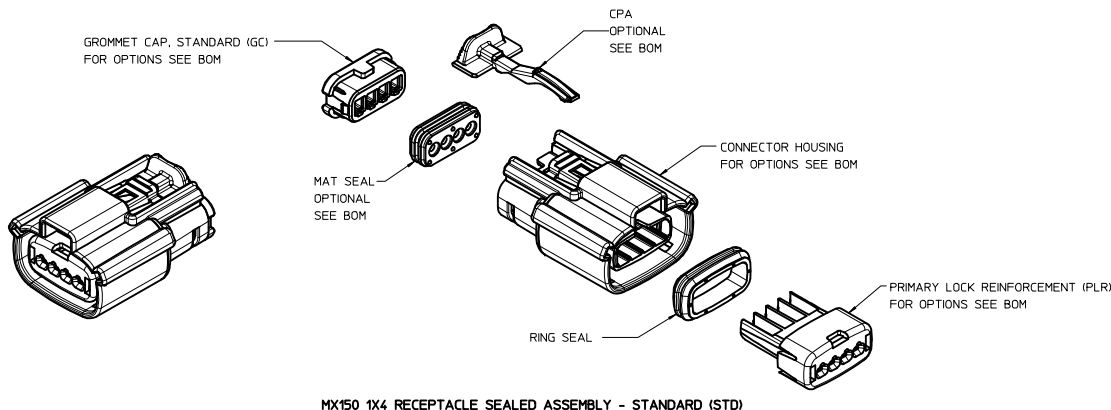
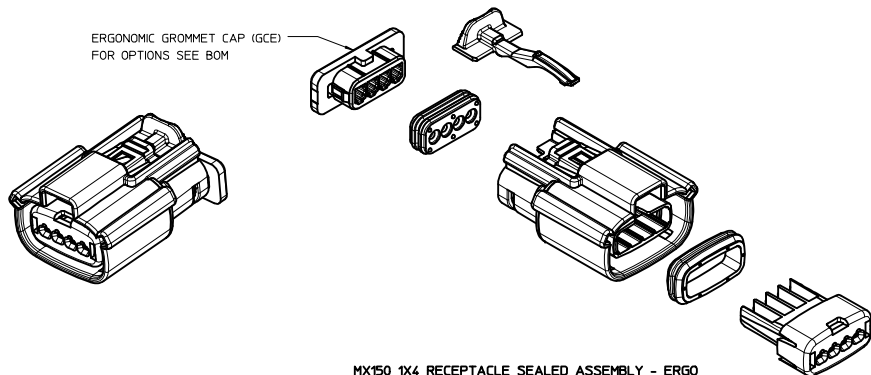
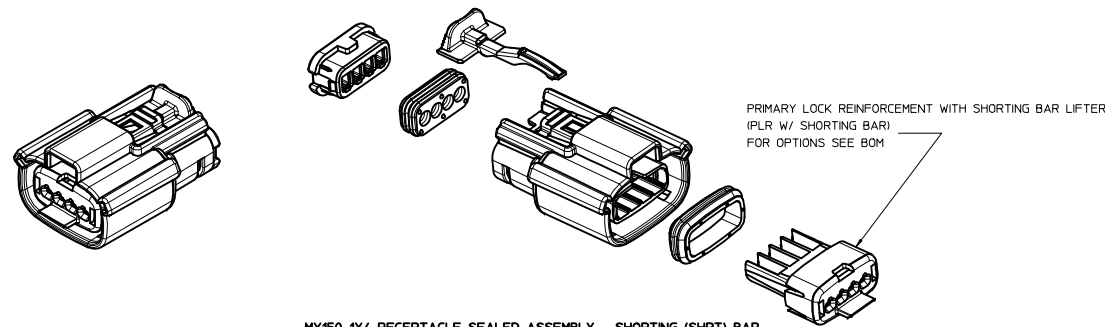




MX150 1X4 RECEPTACLE SEALED ASSEMBLY - STANDARD (STD)



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

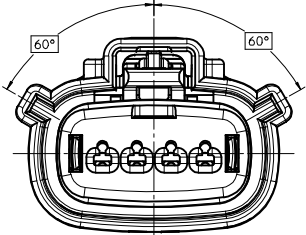
NOTES: VALID UNLESS OTHERWISE SPECIFIED

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 15mm 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-40000-5016
- 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

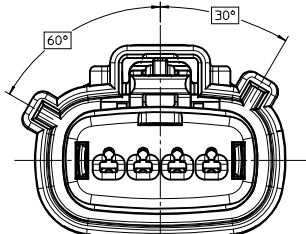
INSPECTION NUMBER LOG
LAST NUMBER USED: 5
ADDED:
REMOVED: 2

ENTER DESCRIPTION LEC NO: UAU2017-0052 DRAWN BY: 2016/07/22 CHKD: 2016/07/22 APPR: JDE002 W2	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 DRAWN BY DATE DGRIFITHS 2010/03/31 CHECKED BY DATE MDICK 2011/08/11 APPROVED BY DATE VKOSHY 2010/04/06	SCALE 2:1	DESIGN UNITS METRIC	THIRD ANGLE PROJECTION ⊙	TITLE MX150 1X4 RECEPTACLE SEALED ASSEMBLY MAT SEAL	DOCUMENT NO. SD-33471-041	SHEET NO. 1 OF 6

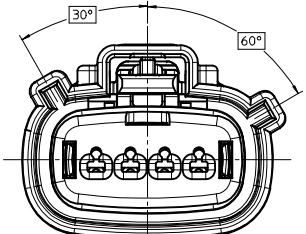
KEY CONFIGURATIONS



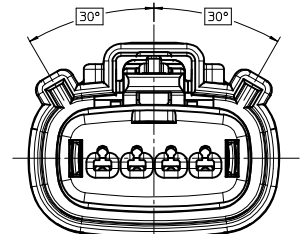
KEY A



KEY B



KEY C

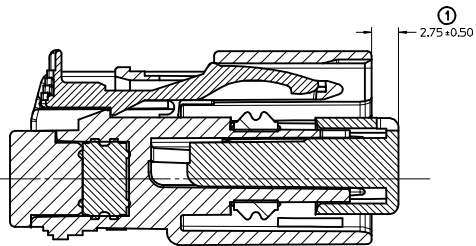
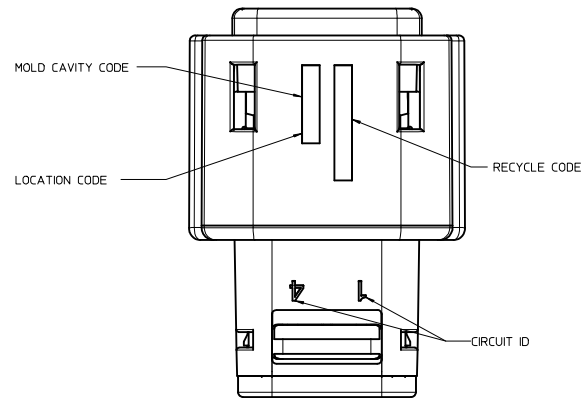
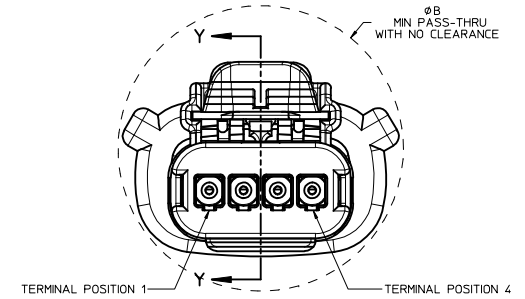
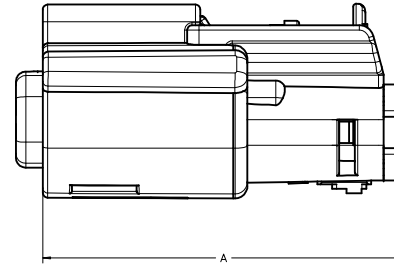
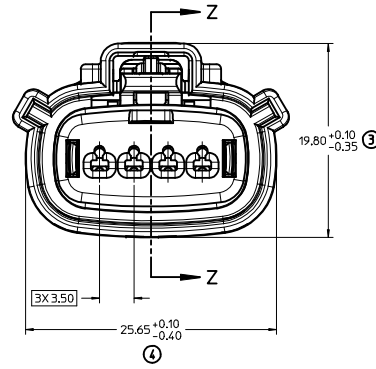
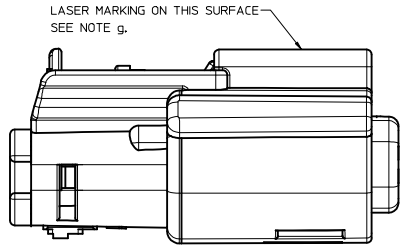


KEY D

ENTER DESCRIPTION EC NO: UAU2017-0052 DRW: NITE CHKD: APPR: JDENG02 W2	DESCRIPTION REV	QUALITY SYMBOLS ▽=0 ▽=0 ▽=0	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE MM ONLY		SCALE 4:1	DESIGN UNITS METRIC	 THIRD ANGLE PROJECTION	TITLE MX150 1X4 RECEPTACLE SEALED ASSEMBLY MAT SEAL molex	DOCUMENT NO. SD-33471-041	SHEET NO. 2 OF 6
					DRAWN BY DGRIFTHS	DATE 2010/03/31						
					CHECKED BY MDI	DATE 2011/08/11						
					APPROVED BY VKOSHY	DATE 2010/04/06						
					MATERIAL NO. SEE BOM							
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						

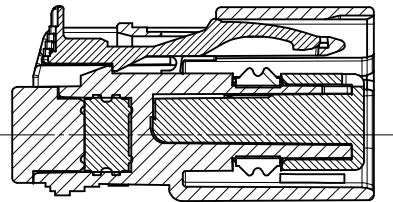
20 19 18 17 16 15 14 13 12 11 10 9 8 7 6 5 4 3 2 1

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: UAU2017-0052 DRAWN BY: CHKO: W2	REV DESCRIPTION 2016/07/27 APPR: JDE602	QUALITY SYMBOLS ▽=0 ▽=0 ▽=0	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE MM ONLY		SCALE 4:1	DESIGN UNITS METRIC	THIRD ANGLE PROJECTION	TITLE MX150 1X4 RECEPTACLE SEALED ASSEMBLY MAT SEAL molex SD-33471-041	SHEET NO. 3 OF 6	
			mm		INCH		DRAWN BY		DATE			
			4 PLACES ±---		---		DGRFF1THS		2010/03/31			
			3 PLACES ±---		---		CHECKED BY		DATE			
			2 PLACES ±0.10		---		MDICK		2011/08/11			
			1 PLACE ±0.3		---		APPROVED BY		DATE			
			0 PLACE ±		---		VKOSHY		2010/04/06			
			ANGULAR ± 3 °		---		MATERIAL NO.		DOCUMENT NO.			
			DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		---		SIZE		SEE BOM			
									THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION			

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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 FLR	NATURAL	SPS/NYLON GF20
ERGONOMIC GROHMET CAP, PLUGGED	BLACK	SPS/NYLON GF20
ERGONOMIC GROHMET CAP, OPEN	BLACK	SPS/NYLON GF20
STANDARD GROHMET CAP, PLUGGED	BLACK	SPS/NYLON GF20
STANDARD GROHMET 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
DESCRIPTION	COLOR	MATERIAL
BOM/APPLICABLE COMPONENTS TABLE		

TABLE LEGEND	
ABBREVIATION	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.: UAJ0207-0052 DRAWN BY: CHKO: APPR.: MENG02 2016/07/22 2016/07/22 W2	QUALITY SYMBOL	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE MM ONLY		SCALE	DESIGN UNITS METRIC	THIRD ANGLE PROJECTION
	▽=0	mm	INCH	DRAWN BY	DATE	TITLE		
	▽=0	4 PLACES ±	±	DRG1FF1THS	2010/03/31	MX150 1X4 RECEPTACLE SEALED ASSEMBLY MAT SEAL molex		
	▽=0	3 PLACES ±	±	CHECKED BY	DATE			
	▽=0	2 PLACES ±	±	MD1C	2011/08/11			
		1 PLACE ±	±	APPROVED BY	DATE	DOCUMENT NO.		
	0 PLACE ±	±	VK0SHY	2010/04/06	SD-33471-041			
REV	ANGULAR ± 3 °		MATERIAL NO.		SHEET NO.		4 OF 6	
	DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		SEE BOM		THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATING AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION			

[illegible]

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 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
DESCRIPTION	COLOR	MATERIAL
BOM/APPLICABLE COMPONENTS TABLE		

ENTER DESCRIPTION EC NO: UAU2007-0052 DRAWN BY: DOWNTOWN CHKD: CHIKO APPR: JREN002 2016/07/22 2016/07/22	QUALITY SYMBOLS ✓=0 ✓=1 ✓=0	GENERAL TOLERANCES (UNLESS SPECIFIED) mm INCH		DIMENSION STYLE MM ONLY		SCALE 1:1	DESIGN UNITS METRIC	 THIRD ANGLE PROJECTION
		4 PLACES ± 3 PLACES ± 2 PLACES ± 0.10 1 PLACE ± 0.3 0 PLACE ±	4 PLACES ± 3 PLACES ± 2 PLACES ± 0.10 1 PLACE ± 0.3 0 PLACE ±	DRAWN BY DGR/FITHS	DATE 2010/03/31	TITLE MX150 1X4 RECEPTACLE SEALED ASSEMBLY MAT SEAL		
				CHECKED BY MDICK	DATE 2011/08/11			
				APPROVED BY VKOSHY	DATE 2010/04/06			
ANGULAR ± 3 °		MATERIAL NO.		DOCUMENT NO.		SHEET NO.		
DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		SEE BOM		SD-33471-041		6 OF 6		
THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION								

Mouser Electronics

Authorized Distributor

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Molex:

[33471-0463](#) [33471-0464](#) [33471-0465](#)