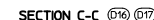
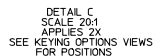




DETAIL C
SCALE 20:1
APPLIES 2X
SEE KEYING OPTIONS VIEWS
FOR POSITIONS



THIS DRAWING OR PORTIONS OF IT, ARE CONTROLLED BY THE ELECTRICAL WIRING COMPANIES APPLICATION PARTNERSHIP (EWCAP), A SUBGROUP OF THE UNITED STATES CONSORTIUM FOR AUTOMOTIVE RESEARCH USCAR, LLC. A MEMBER OF THE USCAR GROUP, WHICH INCLUDES, BUT IS NOT LIMITED TO, FORD MOTOR COMPANY, AND GENERAL MOTORS CORPORATION. ANY CHANGE TO A EWCAP CONTROLLED PORTION OF THIS DRAWING, INCLUDING A "RECORD CHANGE" MUST BE APPROVED, IN WRITING, BY THE RESPONSIBLE EWCAP MEMBER FOR THE DRAWING. ANY PERSON OR COMPANY NOT AUTHORIZED TO SIGN FOR HIS OR HER COMPANY IS RESPONSIBLE FOR OBTAINING ALL NECESSARY APPROVALS WITHIN THAT COMPANY PRIOR TO SIGNING FOR APPROVAL OF THE CHANGE. EACH PARTY TO THIS AGREEMENT SHALL BE RESPONSIBLE FOR EITHER AN EWCAP CONTROLLED PORTION OF THIS DRAWING OR AN ASSOCIATED TOOLING BEFORE RECEIVING AN APPROVAL SIGNATURE BY AN AUTHORIZED REPRESENTATIVE FROM EACH EWCAP PARTNER. REFERENCE TO THE SIGNED APPROVAL FOR THIS DRAWING MUST BE ENTERED IN THIS DRAWING'S CONTROL COLUMN.

1. ALL DIMENSIONS SHOWN IN MILLIMETERS.

2. DIMENSIONING AND TOLERANCING PER ASME Y14.5M-1994


3. 0.25 RADI ON ALL CORNERS SHOWN

4. UNSPECIFIED RADI: 0.25 EXCEPT AS NOTED.

5. STANDARD COLORS FOR POLARIZATION (SEE CHART).
NOTATION REQUIRES APPROVAL OF AUTHORIZED PERSON.

6. REFER TO "SEAUSCAR 12 CONNECTOR GUIDELINES"
FOR ADDITIONAL REQUIREMENTS.

7. EXCEPT WHERE NOTED, DRAFT ON OUTSIDE SURFACES IS PERMISSIBLE
WITHIN TOLERANCE.

8.  SYMBOL INDICATES DRAFT DIRECTION.

9. FOR TERMINAL, MATERIAL, DIMENSIONAL AND COATING REQUIREMENTS
AND ANY BLADE TERMINAL DESIGN INFORMATION NOT SHOWN ON THIS
DRAWING SEE EWCPA DWG NO. EWCAIP-001

10. A FULL SHROUD ON THE MATING CONNECTOR IS REQUIRED TO
INSURE THAT THE CONNECTOR FEATURES (OPTIONAL A THRU D) WILL FUNCTION. THE FULL
SHROUD ALSO PREVENTS THE CONNECTOR FROM BEING DAMAGED BY THE LEADER
PINS. REFER TO "SEAUSCAR 12 CONNECTOR DESIGN
GUIDELINES" FOR ADDITIONAL INFORMATION ON THE CAD MODEL.

11. REFER TO USCAR/EWCPA PART LIST AS FOUND ON WEBSITE
<http://www.uscarteams.org>

12. 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, REFER TO THE CAD MODEL.

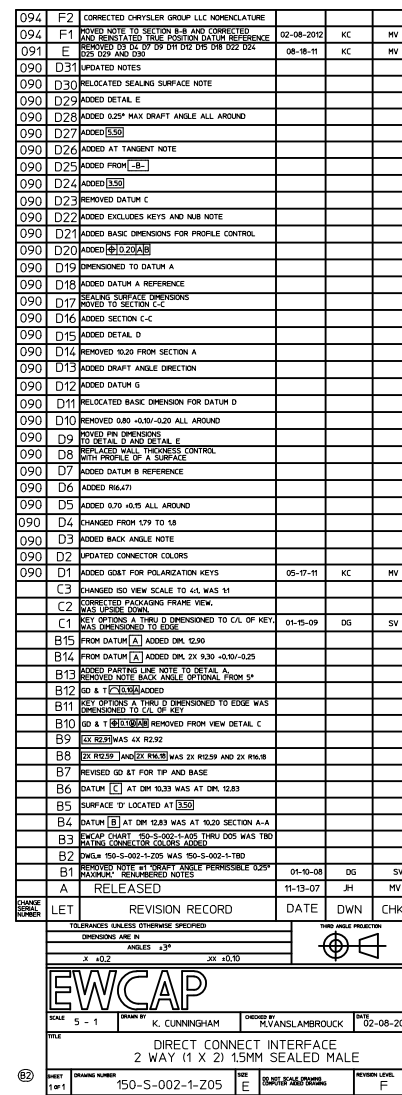
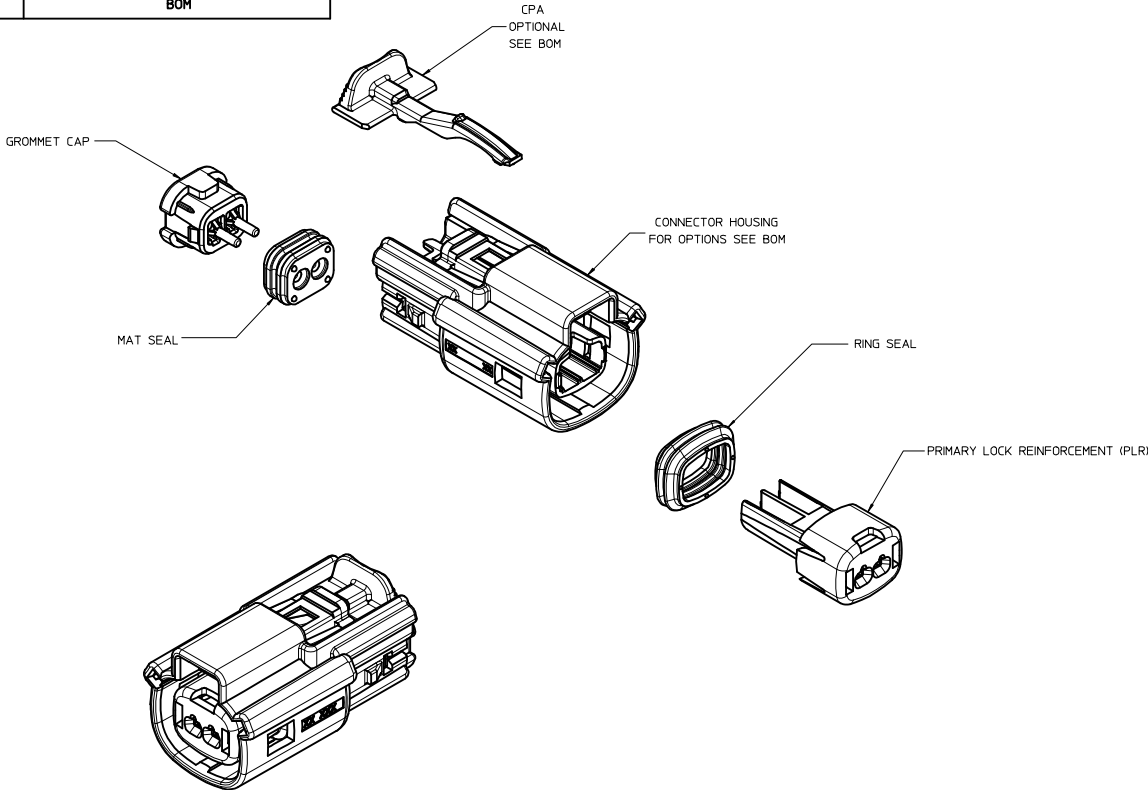


TABLE OF CONTENTS	
SHEET NO.	SHEET DESCRIPTION
1	NOTES
2	KEY CONFIGURATIONS
3	RECEPTACLE SEALED ASSEMBLY
4	BACKSHELL NOTES
5	BACKSHELL
6	BACKSHELL CONFIGURATIONS
7	BOM



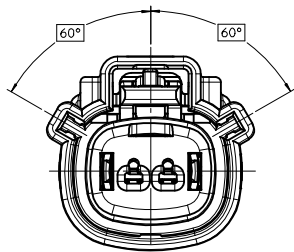
NOTES: VALID UNLESS OTHERWISE SPECIFIED

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 DEVICE CONNECTION AS SPECIFIED IN DRAWING EWCAP 150-S-002-1-Z05, AVAILABLE AT <<http://ewcap.uscarteams.org/>>.
-DESIGNED TO MATE WITH BLADE SEALED ASSEMBLY AS SPECIFIED IN DRAWING SD-33481-021
-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 12 mm TO 2.69 mm.
-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.
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 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-31300-635
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)
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

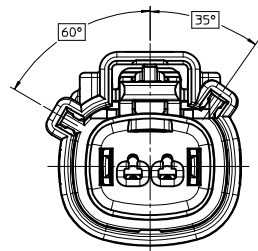
INSPECTION NUMBER LOG
LAST NUMBER USED: 5
ADDED:
REMOVED:

C11	ADD NEW P/N 33471-0224
C10	ADD NEW P/N 33471-0223
C9	UPDATED VIEWSET & NOTES
C8	RENAMED BACKSHELLS
C7	UPDATED CONFIGURATIONS SHEET 3
C6	UPDATED PACKAGING SPECIFICATION
C5	UPDATED GROMMET CAP CALLOUT
C4	REDRAWN, ADDED BACKSHELL
REV	DESCRIPTION

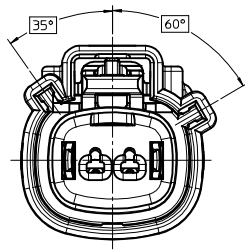
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		mm	INCH	DRAWN BY	DATE		
		4 PLACES ± ---	± ---	SVERZYL	06/17/08		
		3 PLACES ± ---	± ---	CHECKED BY	DATE		
2 PLACES ± 0.10		± ---	DGRIFITHS	06/18/08	APPROVED BY		DATE
1 PLACE ± 0.2		± ---	VKOSHY	2010/11/04	MATERIAL NO.		SIZE
0 PLACE ± ---		± ---	ANGULAR ± 3 °		SEE BOM		D
DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS							



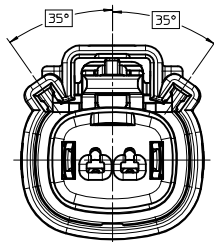
KEY A



KEY B




KEY C



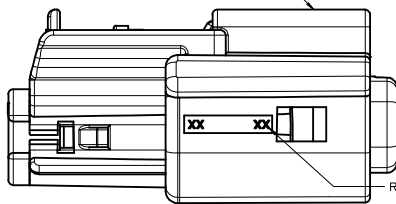
KEY D

KEY CONFIGURATIONS

ENTER DESCRIPTION EC NO: UAU2014-1876 DRAWN BY CHKD: APPR: VKOSHY C11	QUALITY SYMBOLS ▽=0 ▽=0 ▽=0	GENERAL TOLERANCES (UNLESS SPECIFIED)	DIMENSION STYLE MM ONLY		SCALE 4:1	DESIGN UNITS METRIC	 THIRD ANGLE PROJECTION		
			DRAWN BY DATE		TITLE				
			4 PLACES	± --- ± ---	SVERZYL	06/17/08		MX150 1X2 RECEPTACLE SEALED ASSEMBLY MAT SEAL	
			3 PLACES	± --- ± ---	CHECKED BY DATE	APPROVED BY DATE			
			2 PLACES	± 0.10 ± ---	DGRIFTHS	06/18/08		VKOSHY 2010/11/04	
			1 PLACE	± 0.2 ± ---	MATERIAL NO.			DOCUMENT NO.	SHEET NO.
DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		ANGULAR ± 3 °		SEE BOM		SD-33471-021		2 OF 7	
		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

LASER MARKING ON THIS SURFACE
SEE NOTE 3g.

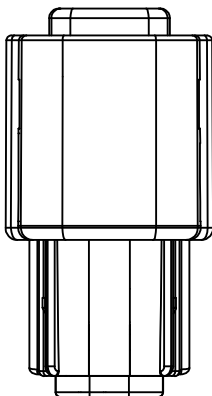


RECYCLE CODE

② 19.80±0.75
AT DATUM A

③ 3.50±0.30

④ 18.65±0.75
AT DATUM A

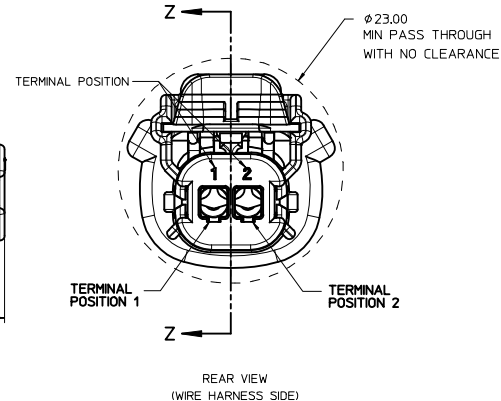


MOLE CAVITY CODE
LOCATION CODE

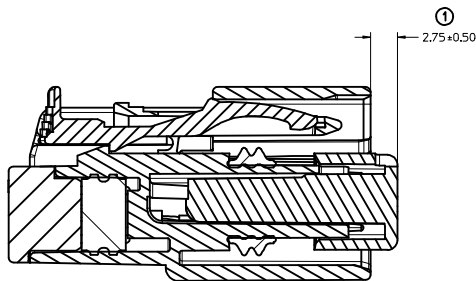
A

⑤ 36.95±0.70

RECEPTACLE SEALED ASSEMBLY

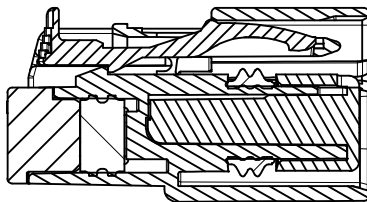


REAR VIEW
(WIRE HARNESS SIDE)



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: UAU2014-1876 DRAWN BY: 2014/06/06 CHKD: 2014/06/19 APPR: WKOSHY REV: C11	QUALITY SYMBOLS ▽=0 ▽=0 ▽=0	GENERAL TOLERANCES (UNLESS SPECIFIED)			DIMENSION STYLE MM ONLY		SCALE 4:1	DESIGN UNITS METRIC	THIRD ANGLE PROJECTION
		mm INCH			DRAWN BY SVERZYL	DATE 06/17/08	TITLE MX150 1X2 RECEPTACLE SEALED ASSEMBLY MAT SEAL		
		4 PLACES ±			CHECKED BY DGRIFITHS	DATE 06/18/08	APPROVED BY VKOSHY		
		3 PLACES ±			DATE 2010/11/04		MATERIAL NO. SEE BOM		
		2 PLACES ±			DATE 2010/11/04		DOCUMENT NO. SD-33471-021		
		1 PLACE ±			DATE 2010/11/04		SHEET NO. 3 OF 7		
0 PLACE ±			DATE 2010/11/04		SHEET NO. 3 OF 7				
ANGULAR ± 3 °			MATERIAL NO. SEE BOM		DOCUMENT NO. SD-33471-021			SHEET NO. 3 OF 7	
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				

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


BACKSHELL NOTES

BACKSHELL NOTES: VALID UNLESS OTHERWISE SPECIFIED

1. GENERAL:

a. APPLICATION SPECIFICATION SEE: AS-34951-001

- DESIGNED TO MATE WITH RECEPTACLE SEALED ASSEMBLY SPECIFIED IN MOLEX DRAWING SD-33471-021.
- SYSTEM TO BE USED WITH WIRE WITHIN DIAMETER RANGE OF 1.2mm TO 2.69mm.
- COMPONENTS ARE OPTIONAL AND MUST BE PURCHASED SEPARATELY.
- BACKSHELL DESIGN IS OWNED BY SCHLEMMER.
- FOR ADDITIONAL INFORMATION SEE THE BACKSHELL COMPONENT DRAWING SD-34949-0001.

ENTER DESCRIPTION EC NO: UAU2014-1876 DRAWN BY: 2014/06/06 CHKD: VKOSHY APPR: VKOSHY REV: C11	QUALITY SYMBOLS ▽=0 ▽=0 ▽=0	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE MM ONLY		SCALE 4:1	DESIGN UNITS METRIC	 THIRD ANGLE PROJECTION	TITLE MX150 1X2 RECEPTACLE SEALED ASSEMBLY MAT SEAL molex	DOCUMENT NO. SD-33471-021	SHEET NO. 4 OF 7		
				DRAWN BY SVERZYL	DATE 06/17/08								
				CHECKED BY DGRIFTHS	DATE 06/18/08								
				APPROVED BY VKOSHY	DATE 2010/11/04								
				ANGULAR ± 3 °		MATERIAL NO. SEE BOM							
				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							

BACKSHELL CUSTOMER MODEL NUMBER LEGEND

34949-XXXX

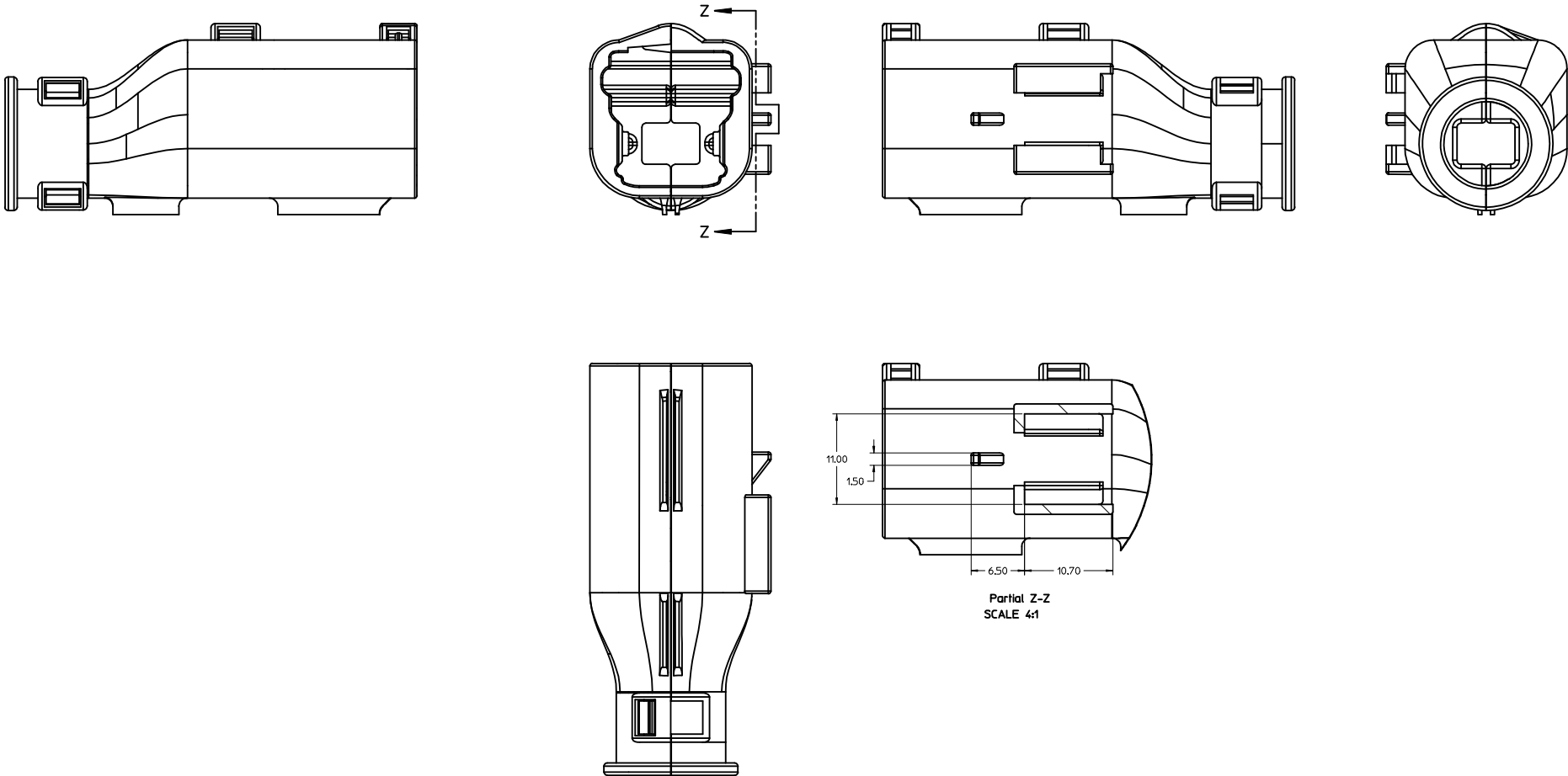
CUSTOMER MODEL COMPONENTS
0 - BACKSHELL ONLY
1 - BACKSHELL & MX150 HOUSING KEY A ASSEMBLY
2 - BACKSHELL & MX150 HOUSING KEY B ASSEMBLY
3 - BACKSHELL & MX150 HOUSING KEY C ASSEMBLY
4 - BACKSHELL & MX150 HOUSING KEY D ASSEMBLY


BACKSHELL FEATURES
1 - WITH RIBS
2 - WITHOUT RIBS

MX150 CIRCUIT SIZE 02, 03, 04, 05, 06

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

BACKSHELL
THE VIEWS ON THIS SHEET ARE
IN THE CLOSED UN-ASSEMBLED POSITION

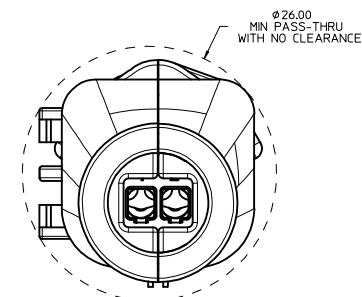
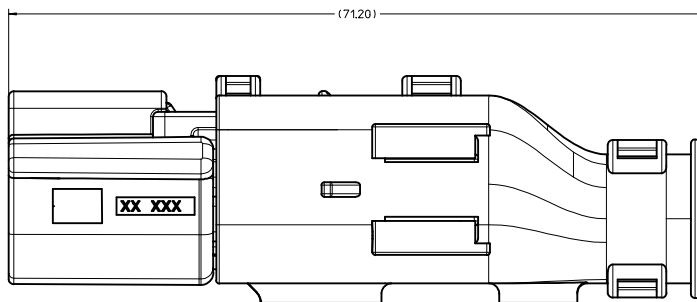


ENTER DESCRIPTION EC NO: UAU2014-1876 DRAWN BY: 2014/06/06 CHKD: 2014/06/19 APPR: VKOSHY C11	QUALITY SYMBOLS ▽=0 ▽=0 ▽=0	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE MM ONLY		SCALE 4:1	DESIGN UNITS METRIC	 THIRD ANGLE PROJECTION
				DRAWN BY SVERZYL	DATE 06/17/08	TITLE MX150 1X2 RECEPTACLE SEALED ASSEMBLY MAT SEAL		
				CHECKED BY DGRIFITHS	DATE 06/18/08	APPROVED BY VKOSHY		
					DATE 2010/11/04	MATERIAL NO. SEE BOM		
						DOCUMENT NO. SD-33471-021	SHEET NO. 5 OF 7	
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				


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

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

BACKSHELL CONFIGURATIONS



RECEPTACLE SEALED ASSEMBLY WITH RECEPTACLE BACKSHELL

ENTER DESCRIPTION EC NO: UAU2014-1876 DRAWN BY: 2014/06/06 CHKD: APPR: VKOSHY C11	DESCRIPTION REV	QUALITY SYMBOLS	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE MM ONLY		SCALE 4:1	DESIGN UNITS METRIC	 THIRD ANGLE PROJECTION	
		▽=0	mm	INCH	DRAWN BY SVERZYL	DATE 06/17/08	TITLE MX150 1X2 RECEPTACLE SEALED ASSEMBLY MAT SEAL			
		▽=0	4 PLACES ±	± ---	CHECKED BY DGRIFITHS	DATE 06/18/08	APPROVED BY VKOSHY 2010/11/04			
		▽=0	3 PLACES ±	± ---	DATE 2010/11/04					
			2 PLACES ±	0.10			MATERIAL NO. SEE BOM		DOCUMENT NO. SD-33471-021	SHEET NO. 6 OF 7
			1 PLACE ±	0.2						
			0 PLACE ±	± ---						
			ANGULAR ± 3 °							
			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			

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

