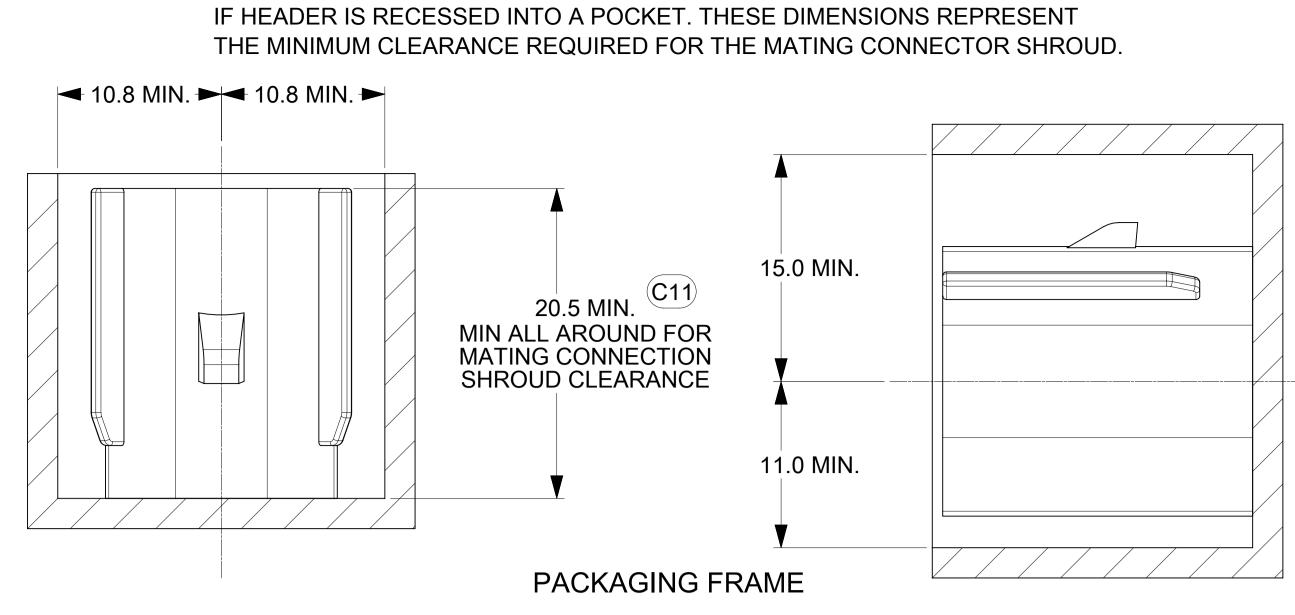


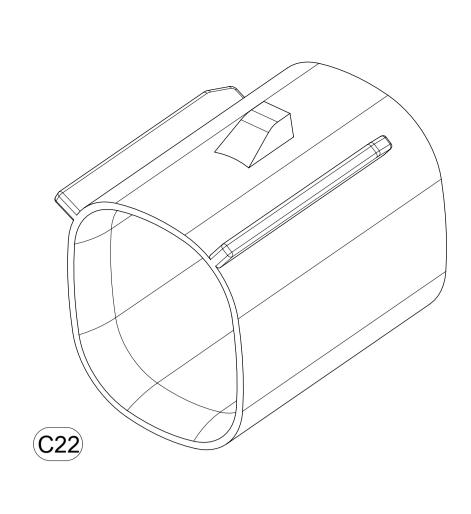
C21



-	STANDARD NOTICE	0					
	This drawing, or portions of it are controlled by the Electrical Wiring Components Application Partnership (EWCAP) a subgroup of the United States Council for Automotive Research LLC (USCAR LLC). USCAR is an LLC consisting of members from FCA US LLC, Ford Motor Con and GM Corporation. Any change to a EWCAP controlled portion of this drav including a revision record change must be approved, in writing, by the						
	responsible EWCAP representative from each USCAR member company. Each EWCAP representative authorized to sign for his or her member compa is responsible for obtaining all necessary approvals within that company prior to signing for the approval of the change. EWCAP expressly prohibits any party from changing either any EWCAP			UPDATED CALL OUT FOR THE REVISION OF GD&T			
	controlled portion of this drawing or any associated tooling before receiving approval, signed by the authorized representatives, of the	132	D5	FROM ASME Y14.5-1994 TO Y14.5-2009			
	USCAR member companies. Reference to the signed change notice must be entered in the drawing control column.	132	D4	UPDATED THE STANDARD NOTICE TO THE LATEST TEMPLATE			
		132		ADDED PLANE 2			
		132	D2	ADDED PLANE 1 ADDED CALL OUT "CENTER PLANES			
POSITION 2		132	D1	ESTABLISHED BY DATUM B"	04-24-17	MV	KB
AIL E	NOTES: UNLESS OTHERWISE SPECIFIED C18	095	C22 C21	2 CHANGED ISO VIEW SCALE TO 4:1, WAS 1:1 ADDED PARTING LINE NOTE TO DETAIL A, REMOVED NOTE BACK ANGLE OPTIONAL FROM 5 ⁴			
	1. ALL DIMENSIONS SHOWN IN MILLIMETERS.	095	C20	OCORRECTED CHRYSLER GROUP LLC NOMENCLAT ADDED LEGAL NOTE AND EWCAP TO TITLE BLOCK			
	2. DIMENSIONING AND TOLERANCING PER ASME Y14.5M-2009 D5	095		MOVED NOTE TO SECTION B-B			
	3. 0.25 RADII ON ALL CORNERS SHOWN SHARP.	095	C17	3 UPDATED NOTES 7 ADDED 0.25° MAX DRAFT ANGLE ALL AROUND			
C13	4. UNSPECIFIED RADII: 0.25 EXCEPT AS NOTED.	095	C15	ADDED 5.50 ADDED AT TANGENT NOTE			
POSITION 4	5. STANDARD COLORS FOR POLARIZATION (SEE CHART).	095 095	C13	REMOVED DATUM D ADDED BASIC DIMENSIONS FOR PROFILE CONTRO	DL		
	DEVIATION REQUIRES APPROVAL OF AUTHORIZED PERSON.	095		2 ADDED + 0.20 A B I DIMENSION TO DATUM A			
	6. REFER TO "SAE/USCAR 12 CONNECTOR GUIDELINES" FOR ADDITIONAL REQUIREMENTS.	095	C10	SEALING SURFACE DIMENSIONS MOVED TO SECTION C-C			
NO. EWCAP-001	7. EXCEPT WHERE NOTED, DRAFT ON OUTSIDE SURFACES IS PERMIS WITHIN TOLERANCE.	SIBLE 095 095	C8	ADDED SECTION C-C REMOVED 15.20 AND 2.50 FROM SECTION A-A ADDED DRAFT ANGLE DIRECTION			
ONFIGURATION	8 SYMBOL INDICATES DRAFT DIRECTION.	095 095	C6 C5	REMOVED 0.80 +0.10/-0.20 ALL AROUND REPLACED WALL THICKNESS CONTROL WITH PROFILE OF A SURFACE			
	9. FOR TERMINAL MATERIAL, DIMENSIONAL, AND COATING REQUIREN	IENTS		ADDED R(6.47)			
	AND ANY BLADE TERMINAL DESIGN INFORMATION NOT SHOWN ON	095		ADDED 0.70±0.15 ALL AROUND UPDATED CONNECTOR COLORS			
	DRAWING SEE EWCAP DRW. NO. EWCAP-001	095					
	10. A FULL SHROUD ON THE MATING CONNECTOR IS REQUIRED			REMOVED EWCAP FROM THE TITLE BLOCK REMOVED LEGAL NOTICE			
) C15 ENT	TO INSURE THAT THE CONNECTOR-HEADER POLARIZATION FEATURES (OPTIONS A THRU D) WILL FUNCTION. THE FULL			ANGEL 40° WAS 60° -4 PLACES (A4-D4)	03-26-12	KC	MV
	SHROUD ALSO PREVENTS SCOOP DAMAGE TO THE HEADER	CLIAN		RELEASED	10-31-02	MV	DG
	PINS. REFER TO "SAE/USCAR-12 CONNECTOR DESIGN GUIDE LINES" FOR ADDITIONAL INFORMATION.	CHAN SERI NUMB		REVISION RECORD	DATE	DWN	СНК
C16	11. REFER TO USCAR/EWCAP PART LIST AS FOUND ON WEBSITE http://www.uscarteams.org		_! \	TOLERANCES (UNLESS OTHERWISE SPECIFIED) DIMENSIONS ARE IN MILLIMETERS			
	12. THIS IS A 100% CAD GENERATED PART. THE CAD MATHEMATICAL	DATA		$\begin{array}{c c} & ANGLES & \pm 3^{\circ} \\ \hline .X & \pm 0.2 & .XX & \pm 0.10 \end{array}$			
C17	IS THE MASTER FOR THIS PART. FOR DIMENSIONAL OR ANY INFO NOT SHOWN ON THIS DRAWING, ANALYZE THE CAD MODEL.	RMATION					
				SCALE 4 - 1 DRAWN BY K. CUNNINGHAM CHECKED BY M.VAN	SLAMBROUCK	03-26-	12
				DIRECT CONNECT INTERF 4 WAY (2 X 2) 1.5MM SEALED			
					A REAL AND DESCRIPTION OF A REAL AND A		I.



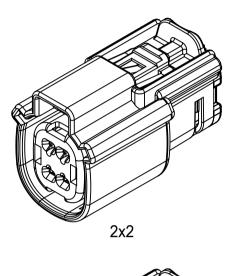


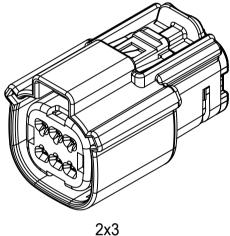


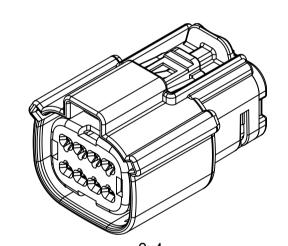
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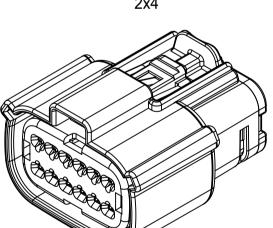
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TA	BLE OF CONTENTS
SHEET NO.	SHEET DESCRIPTION
1	NOTES AND BOM
2	CONFIGURATIONS
3-4	KEY CONFIGURATIONS
5	RECEPTACLE CONNECTOR ASSEMBLY
6	BACKSHELL NOTES
7	BACKSHELL
8	BACKSHELL CONFIGURATIONS
9	2X10 CONNECTOR INTERFACE DEFINITION

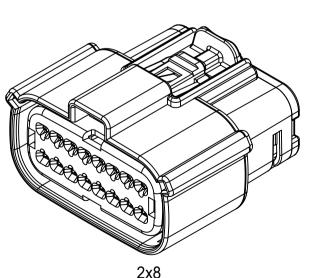


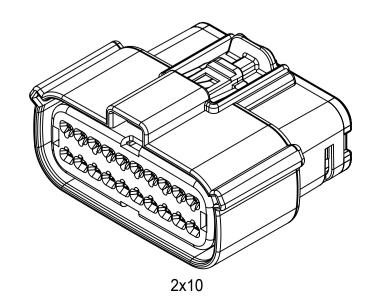












NOTES: VALID UNLESS OTHERWISE SPECIFIED

- 1. GENERAL:
- a. APPLICATION SPECIFICATION SEE: AS-33472-100
 - -CONTAINS: PRODUCT INTRODUCTION, PRODUC CONNECTOR ASSEMBLY, PACKAGING INFORMA MATING, SERVICE INSTRUCTIONS, ELECTRICAL CHECKING, CRIMPING, AND TROUBLESHOOTING -DESIGNED TO MATE WITH DEVICE OR CONNECT IN THE MATING INTERFACE/CONNECTOR DRAW *DENOTES DRAWINGS THAT CAN BE ACCESSED -ASSEMBLY SHIPPED WITH PLR IN PRE-LOCK POSITION (SEE PLR PRE-LOCK VIEW SHEET 5).
- b. PRODUCT SPECIFICATION SEE:
- -STANDARD CONFIGURATION (STD): PS-33472-000
- -TRANSMISSION CONFIGURATION (TRNS): CONTAINS SILICONE: TS-160038-0001
- SILICONE FREE: TBD
- -UL V0 CONFIGURATION (UL V0): TBD CONTAINS: PRODUCT INTRODUCTION, PRODUCT SUMMARY, RATINGS (CURRENT, TEMPERATURE, SEALING, AND FLAMMABILITY),
- c. PACKAGING SPECIFICATION PER MOLEX DRAWING: SEE PACKAGING CHART d. PARTS MUST BE IN COMPLIANCE TO MOLEX CHEMICAL SUBSTANCES FOR
- PRODUCTS AND PACKAGING SPECIFICATION: QEHS-699000-301
- e. DATA MUST BE SUBMITTED UNDER THE MOLEX PART NUMBER TO IMDS (COMPANY ID#13255)
- 2. DESIGN MATERIALS:
- a. FOR BILL OF MATERIALS SEE:
- -STANDARD CONFIGURATION SD-33472-0002 -TRANSMISSION CONGURATION
- CONTAINS SILICONE: SD-160038-0002 SILICONE FREE: SD-160092-0002
- -UL V0 CONFIGURATION SD-160074-0002
- b. TRANSMISSION CONNECTOR COMPONENTS MUST MEET THE MATERIAL REQUIREMENTS SPECIFIED IN TS-160038-0001 & TBD
- 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. 2X3 THRU 2X10 CLIP-SLOT DESIGN IS BASED ON USCAR/EWCAP 11mm CLIP SLOT EWCAP - 005 - 11

B h. 2X2 CLIP-SLOT DESIGN IS BASED ON USCAR/EWCAP 7mm CLIP SLOT EWCAP - 005 - 7

DOCUMENT STATU	RELEA	SE DATE	2018/	/02/16	22:02:25			
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	DESCRIPTION	DRAWING NO.		
	2X2	PK-31300-635		
JCT SUMMARY,	2X3	PK-31300-903		
IATION, CONNECTOR	2X4	PK-31300-903		
AL CONTINUITY	2X6	PK-31300-903		
NG.	270	FR-51500-905	-	
CTOR AS SPECIFIED	2X8	PK-31300-903		
WINGS CHART.	2X10	PK-31300-903		
D AT <http: ewcap.uscarteams.org=""></http:> .	27(10]	

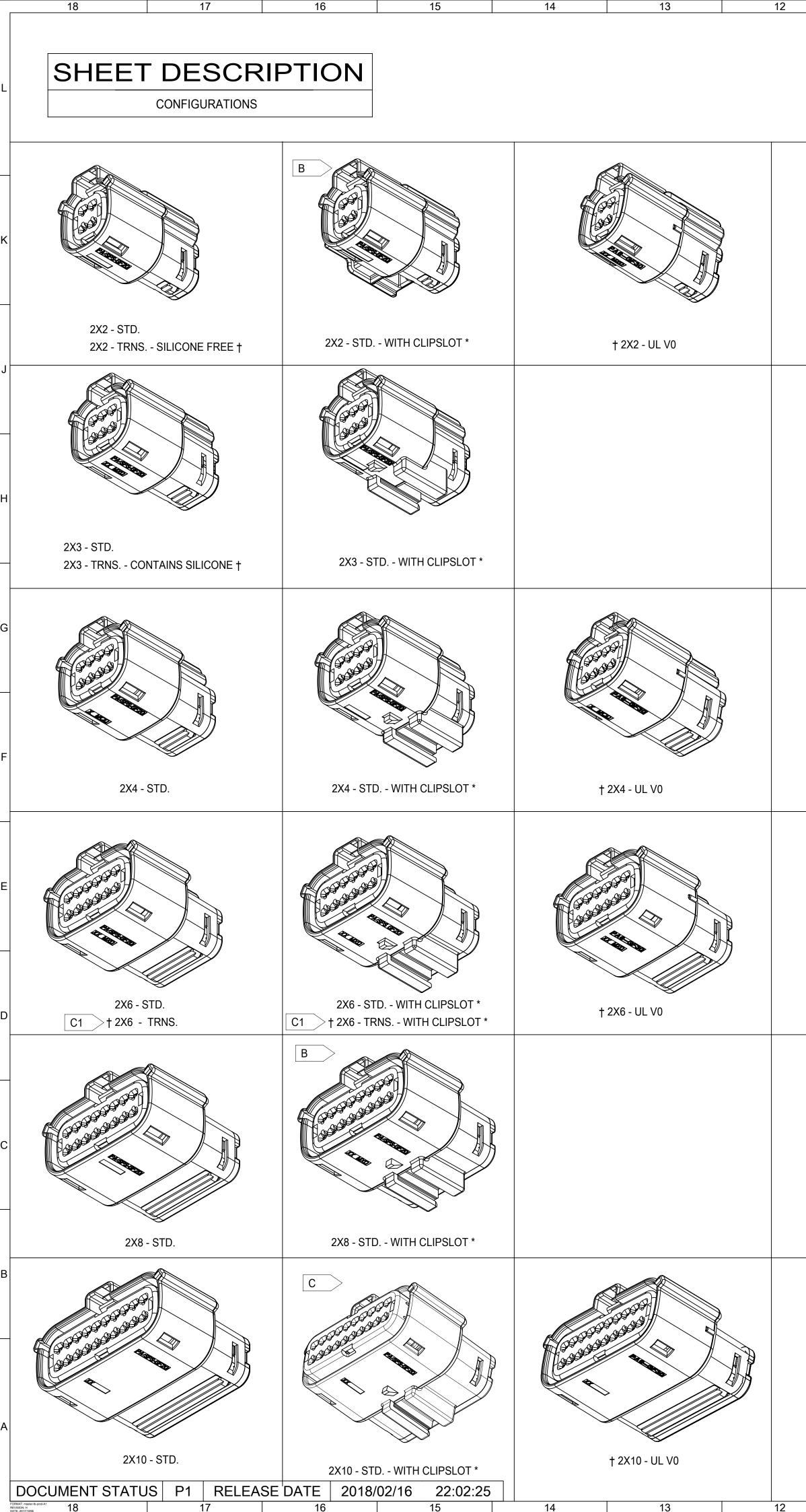
TERMINALS, WIRE DIAMETER RANGE, PRODUCT VALIDATION, AND PRODUCT DEVIATIONS.

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					C2 C1 C	ADDED 2X6-TRN ADDED 2X	ISWITH/W	H G SHELL DETAILS ITHOUT CLIPSLOT * TH CLIPSLOT * F
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	<i></i>				B2			
					В1		BLE OF SH	LIPSLOT,
				В	A11		AND NOTE	
					A10			/ING NUMBER
					A10			
					A8			/ING NUMBER
					A7		ED 2X10 IN	
					A6			N REFERENCES
					A5	ADD 2X1	0 INTERFA	CE SHEETS
					A4	ADD UL	V0 CONFIG	GURATIONS
					A3	ADDED 2X3	STD AND 1	FRANSMISSION
					A2	UPDATE	D 2X8 BLD	DRAWINGS
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$\frac{1}{5} = 0$ ANGULAR TOL ± 1.0° $\frac{1}{5} = 0$ 4 PLACES ±	DRWN: DDEB		2018/01/19	DU	JAL ROW	MX150 RCPT SEALED ASSEM		AT SEAL
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The second secon	+ - +	A1-SIZE				GENERAL MA	RKET	1 OF 11
7 6	5	4		3		2		1

MATING IN	MATING INTERFACE/CONNECTOR DRAWINGS							
DESCRIPTION	INTERFACE DEFINITION	MOLEX INLINE						
STANDARD 2X2	*150-S-004-2-Z02	SD-33482-0001						
UL V0 2X2	*150-S-004-2-Z02	SD-33482-0001						
STANDARD 2X3	*150-S-006-2-Z02	SD-33482-0001						
TRANSMISSION 2X3	*150-S-006-2-Z02	N/A						
STANDARD 2X4	*150-S-008-2-Z02	SD-33482-0001						
UL V0 2X4	*150-S-008-2-Z02	SD-33482-0001						
STANDARD 2X6	*150-S-012-2-Z01	SD-33482-0001						
UL V0 2X6	*150-S-012-2-Z01	SD-33482-0001						
STANDARD 2X8	*150-S-016-2-Z01	SD-33482-0001						
STANDARD 2X10	SD-33472-0001	SD-33482-0001						
UL V0 2X10	SD-33472-0001	SD-33482-0001						



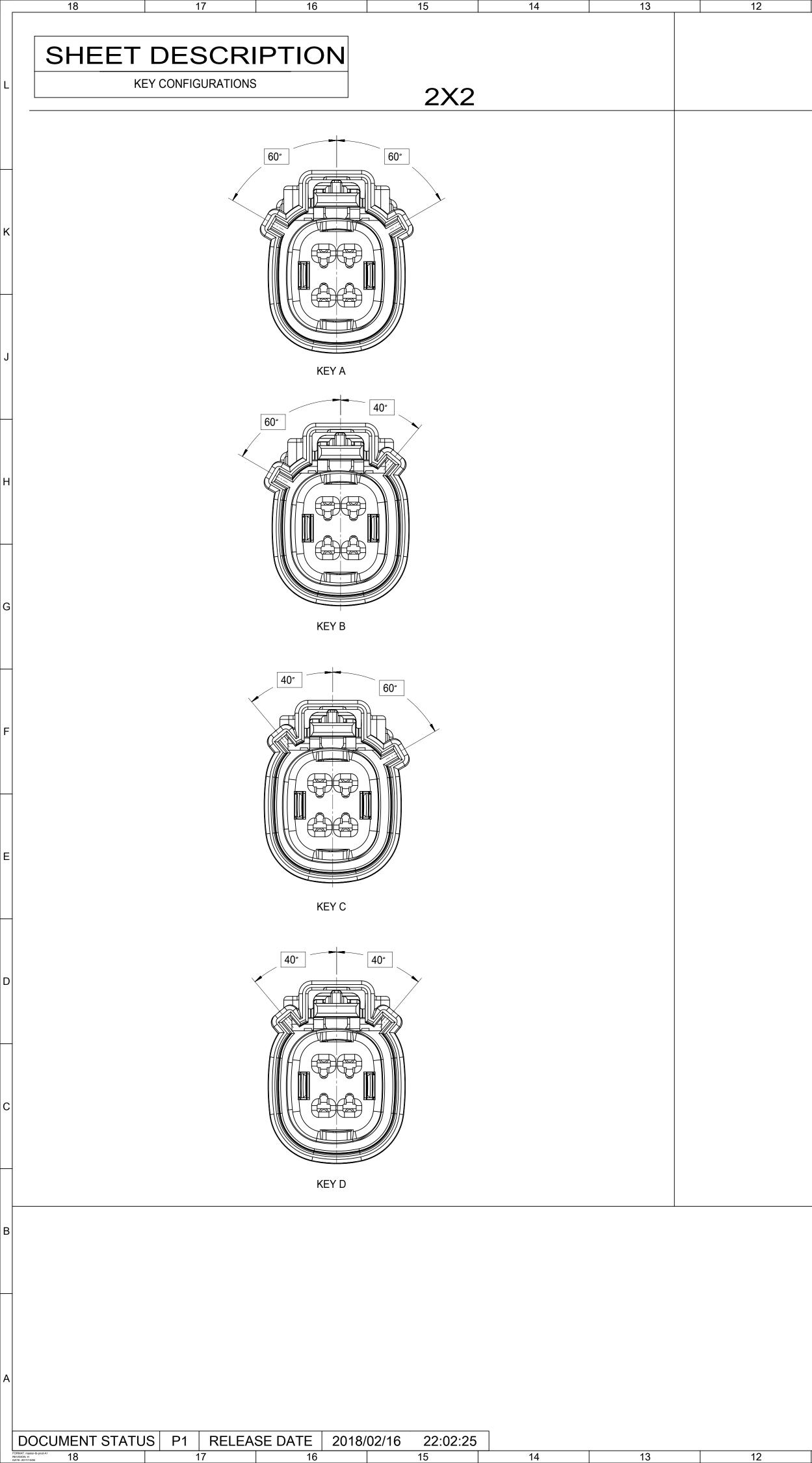
	2X2 - STD LENGTHENED	
† 2X4 - UL VO-WITH CLIPSLOT*		
		* WITH CLIPSLOT CONFIGURATION MEET THE USCAR PACKAGING FR † MINOR GEOMETRY DIFFERENCE SEE NOTES 1a & 2a-b FOR MORE II
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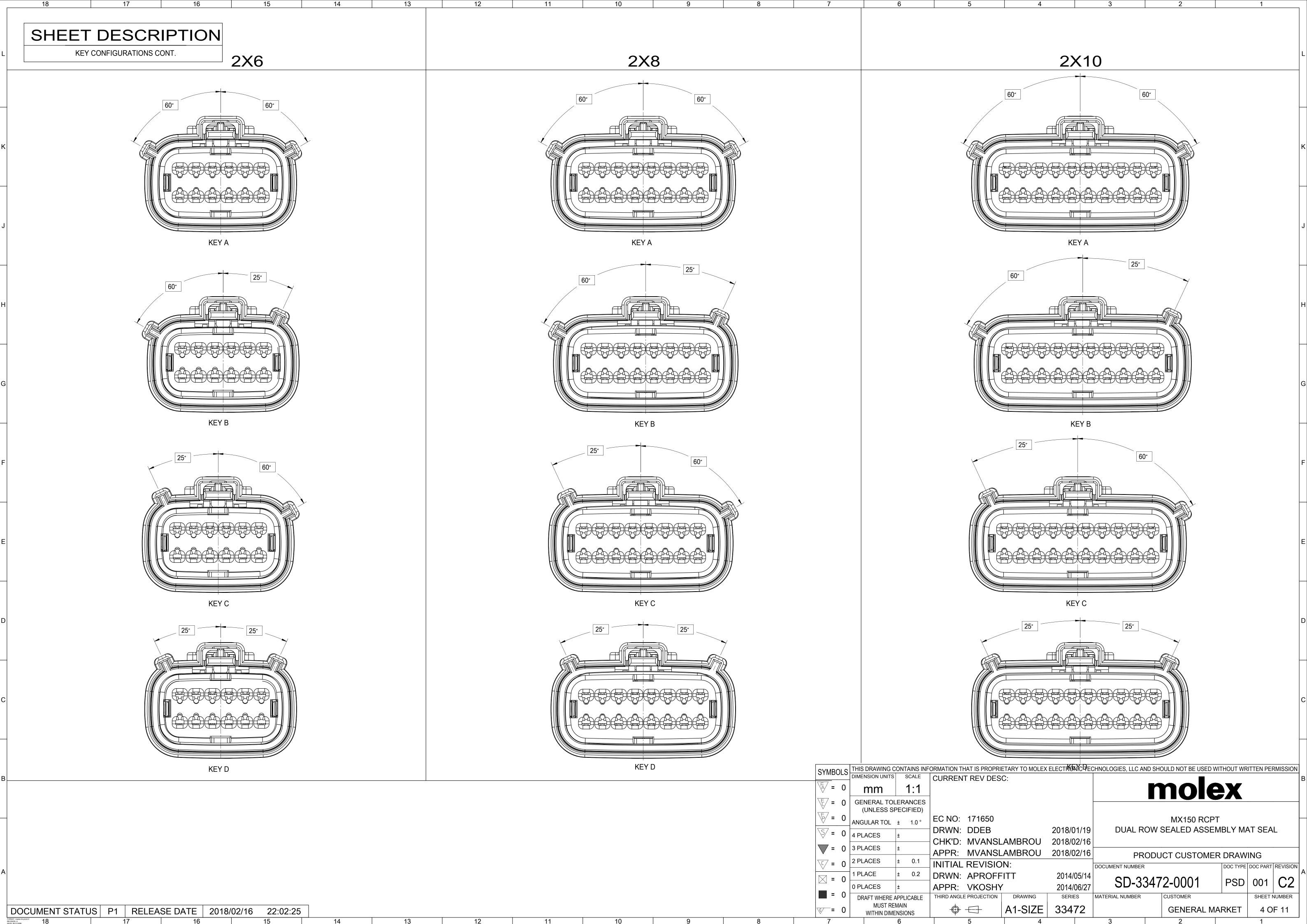
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$\oplus =$	A1-SIZE	334	72			GENERAL M	ARKET	2 0	F 11
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CONFIGURATION DOES NOT R PACKAGING FRAME REQUIREMENTS RY DIFFERENCE THAN STANDARD CONFIGURATION 2a-b FOR MORE INFORMATION

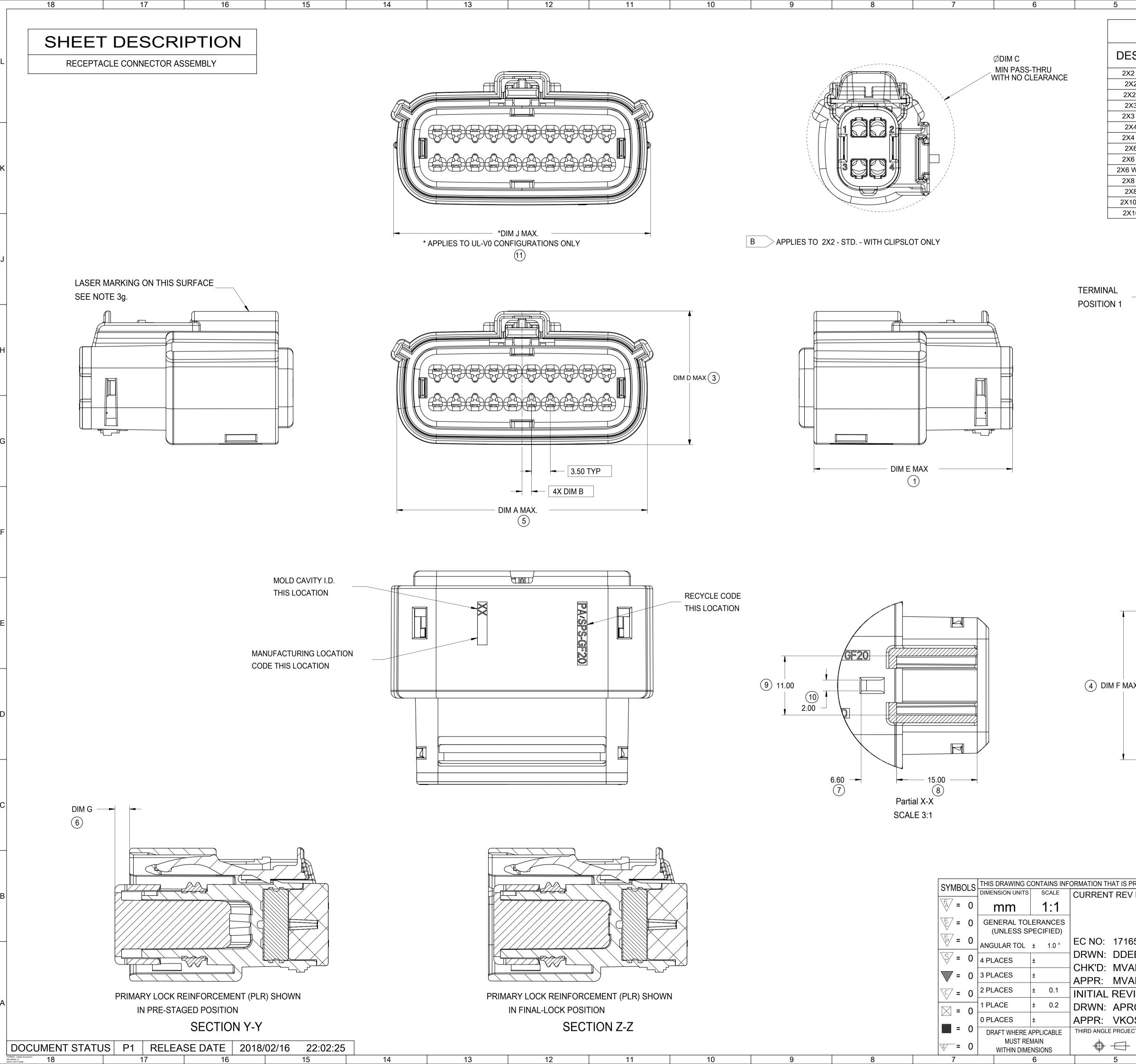


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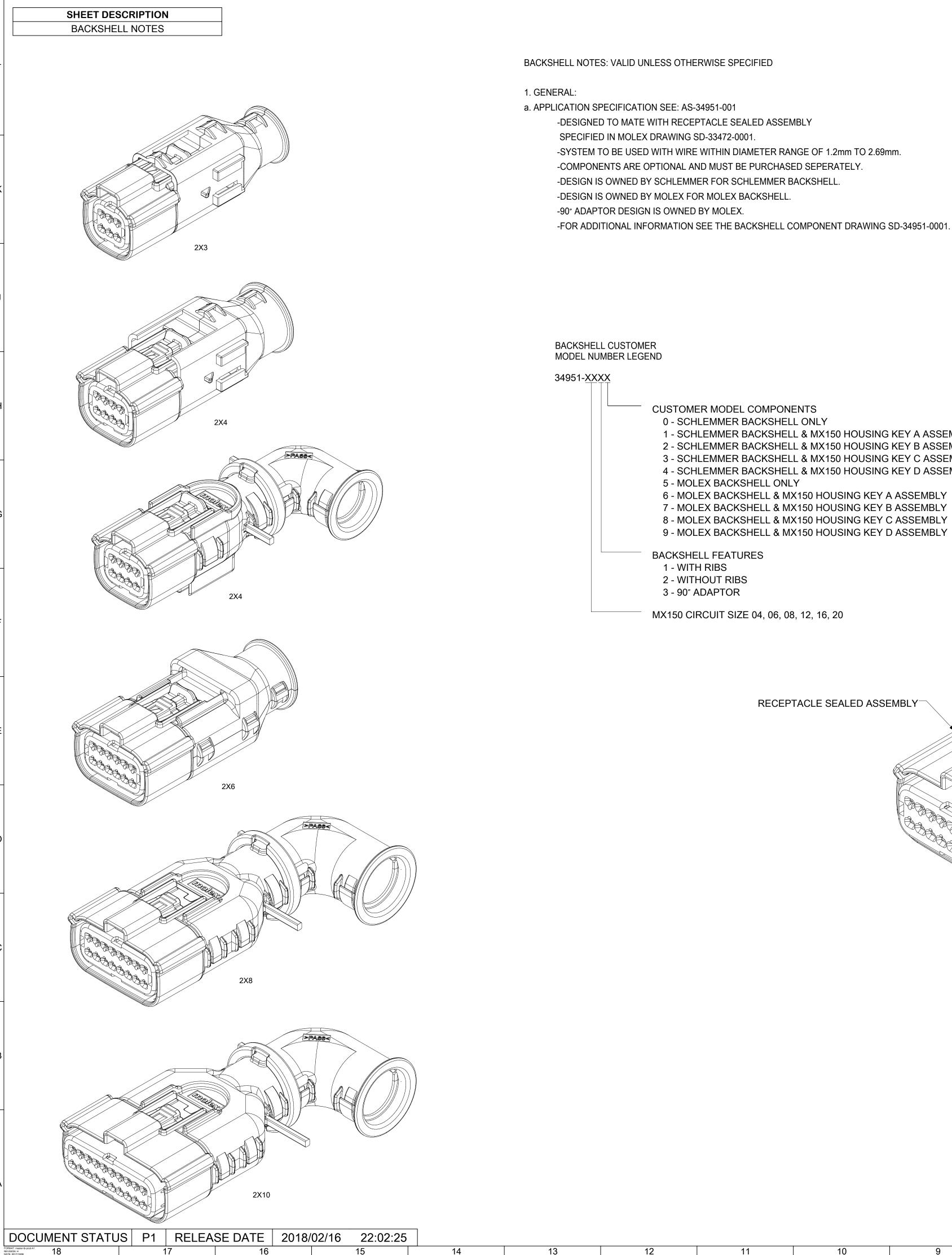
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					ENSION			
ØDIM C ØDIM PASS-THRU	DESCRIPTION		3 C	D	E	F	G	JL
WITH NO CLEARANCE	2X2 W/O CLIPSLOT 2X2 W/ CLIPSLOT		7525.457527.65	24.81 24.81	37.65 37.65	N/A N/A	2.75±0.50 2.75±0.50	
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	2X3 W/ CLIPSLOT 2X3 W/O CLIPSLOT		5 30.50 5 26.24	N/A 24.90	37.65 37.65	27.96 N/A	4.0±0.4 4.0±0.4	
	2X4 W/ CLIPSLOT	25.75 1.	75 31.50	N/A	37.65	28.00	2.75±0.50	27.04
	2X4 W/O CLIPSLOT 2X6 W/ CLIPSLOT		75 29.19 75 35.58	24.81 N/A	37.65 37.65	N/A 27.76	2.75±0.50 2.75±0.50	27.04
	2X6 W/O CLIPSLOT	32.75 1.	75 35.58	24.90	37.65	N/A	2.75±0.50	32.95
	2X6 W/O CLIPSLOT V0 2X8 W/O CLIPSLOT		7535.587542.25	25.0 24.90	37.65 37.65	N/A N/A	2.75±0.50 4.0±0.4	33.85 K
	2X8 W/ CLIPSLOT	39.80 1. 39.80 1.		N/A	37.65	27.80	4.0±0.4	
	2X10 W/O CLIPSLOT 2X10 W/ CLIPSLOT		7549.957549.95	24.90 N/A	37.65 37.65	N/A 27.80	2.75±0.50 2.75±0.50	48.04
		40.75 1.	15 49.95		37.05	27.00	2.75±0.50	
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12

-DESIGNED TO MATE WITH RECEPTACLE SEALED ASSEMBLY

-SYSTEM TO BE USED WITH WIRE WITHIN DIAMETER RANGE OF 1.2mm TO 2.69mm.

-COMPONENTS ARE OPTIONAL AND MUST BE PURCHASED SEPERATELY.

-DESIGN IS OWNED BY SCHLEMMER FOR SCHLEMMER BACKSHELL.

-DESIGN IS OWNED BY MOLEX FOR MOLEX BACKSHELL.

-FOR ADDITIONAL INFORMATION SEE THE BACKSHELL COMPONENT DRAWING SD-34951-0001.

CUSTOMER MODEL COMPONENTS

11

0 - SCHLEMMER BACKSHELL ONLY 1 - SCHLEMMER BACKSHELL & MX150 HOUSING KEY A ASSEMBLY

2 - SCHLEMMER BACKSHELL & MX150 HOUSING KEY B ASSEMBLY

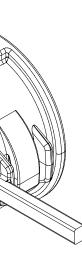
3 - SCHLEMMER BACKSHELL & MX150 HOUSING KEY C ASSEMBLY

4 - SCHLEMMER BACKSHELL & MX150 HOUSING KEY D ASSEMBLY

RECEPTACLE SEALED ASSEMBLY

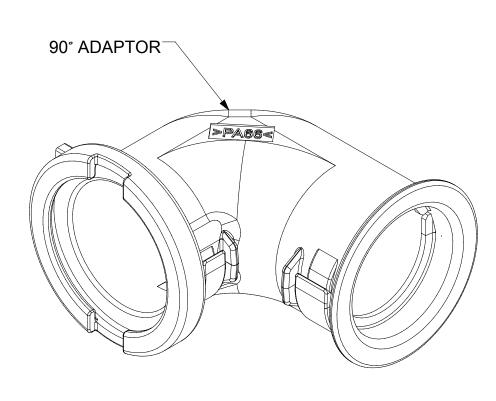
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SCALE 2:1



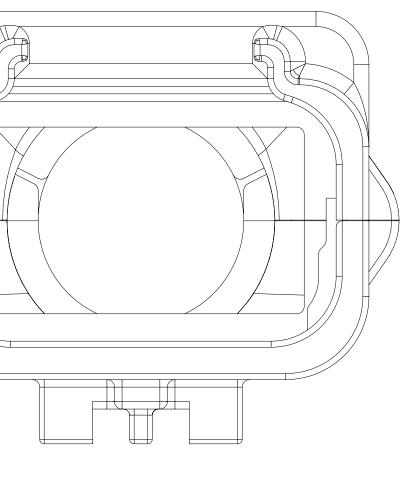
BACKSHELL (BKS)

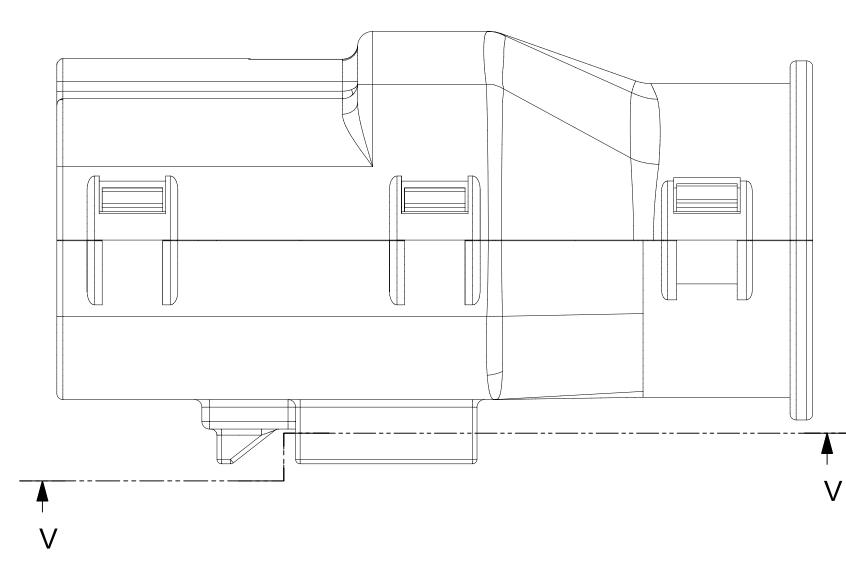
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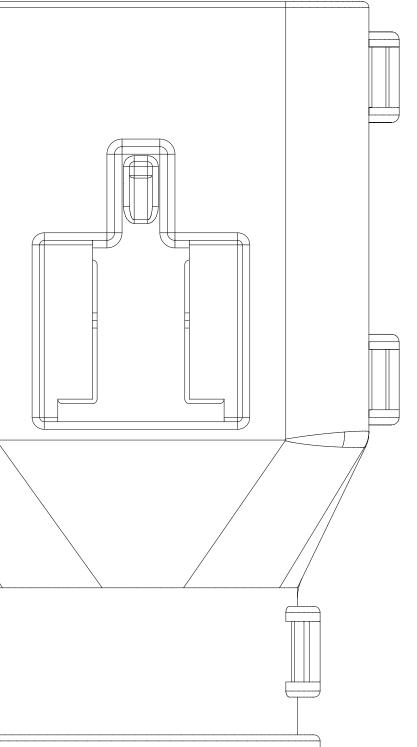


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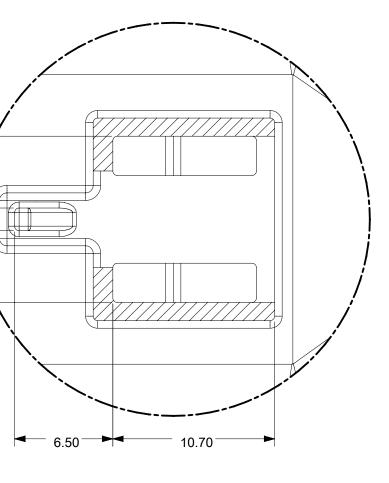






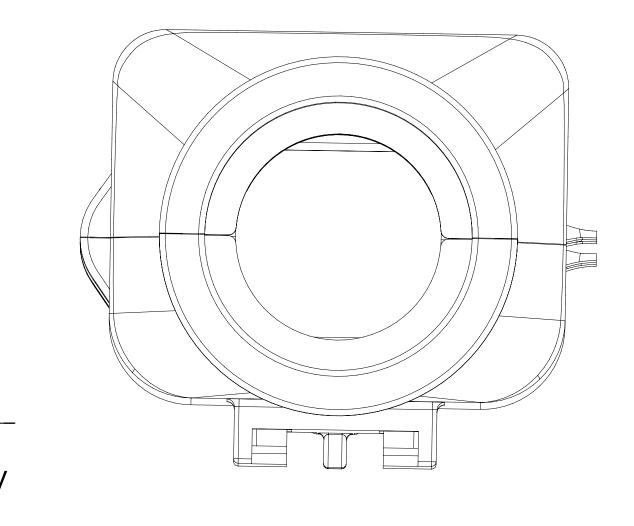
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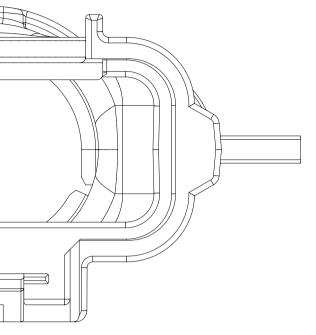
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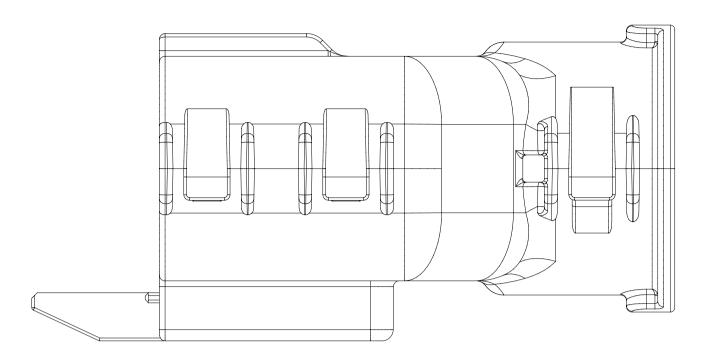


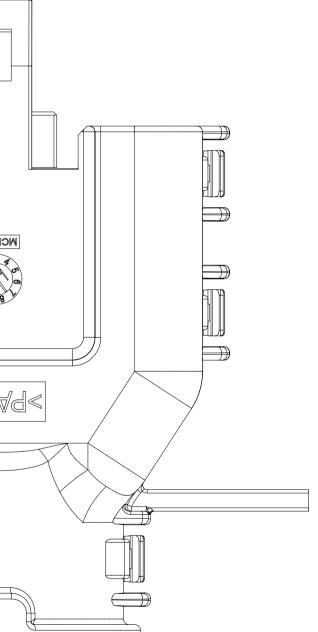
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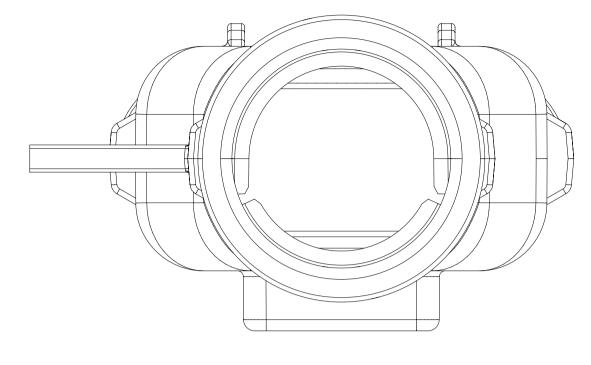






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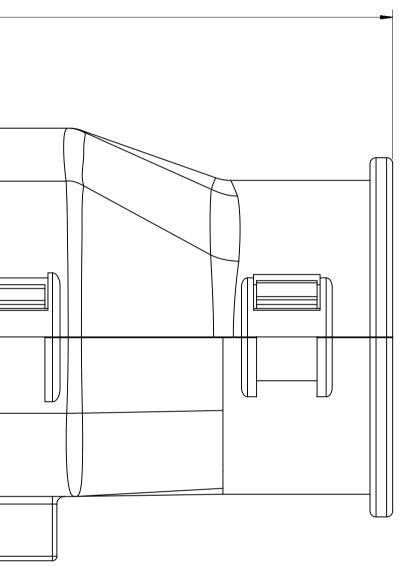


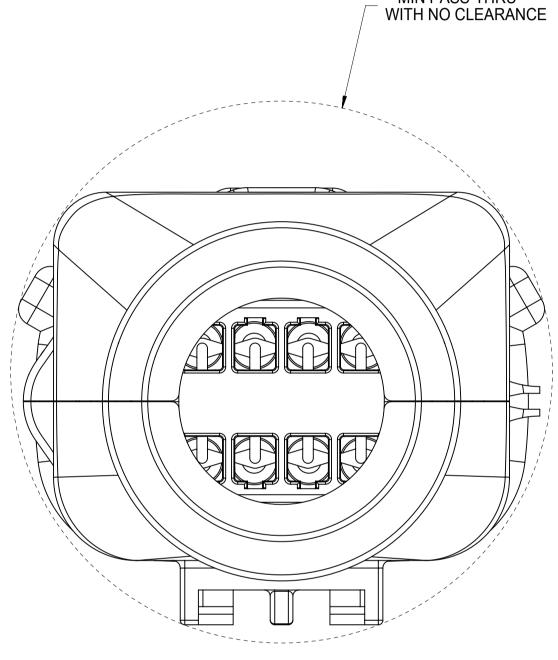
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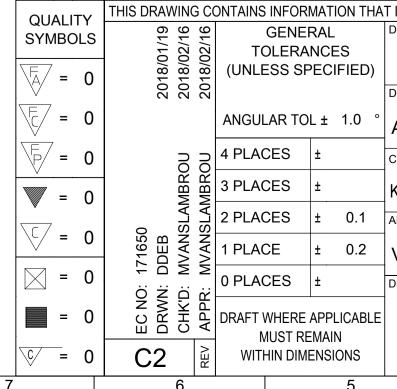
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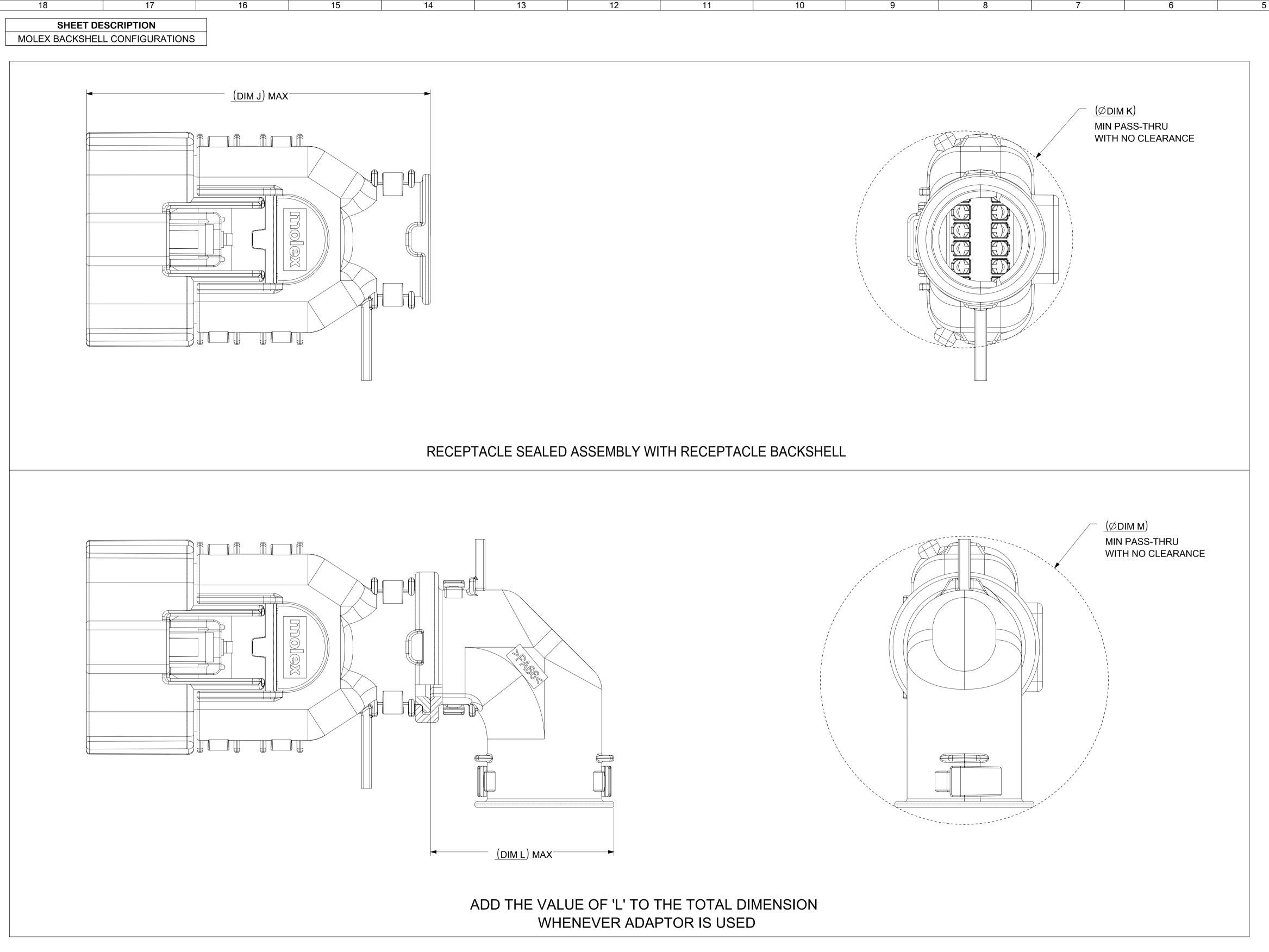
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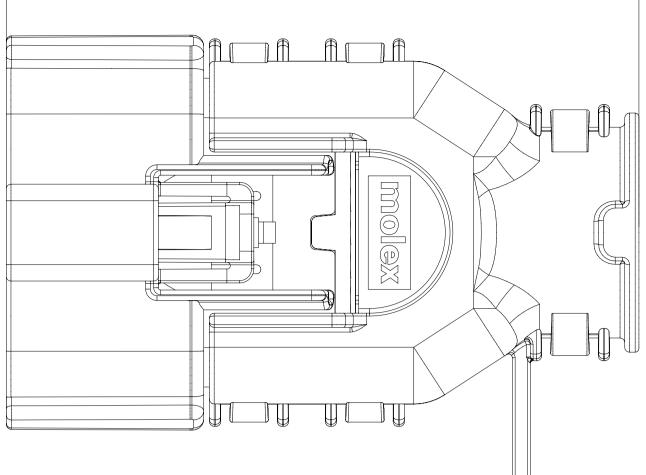


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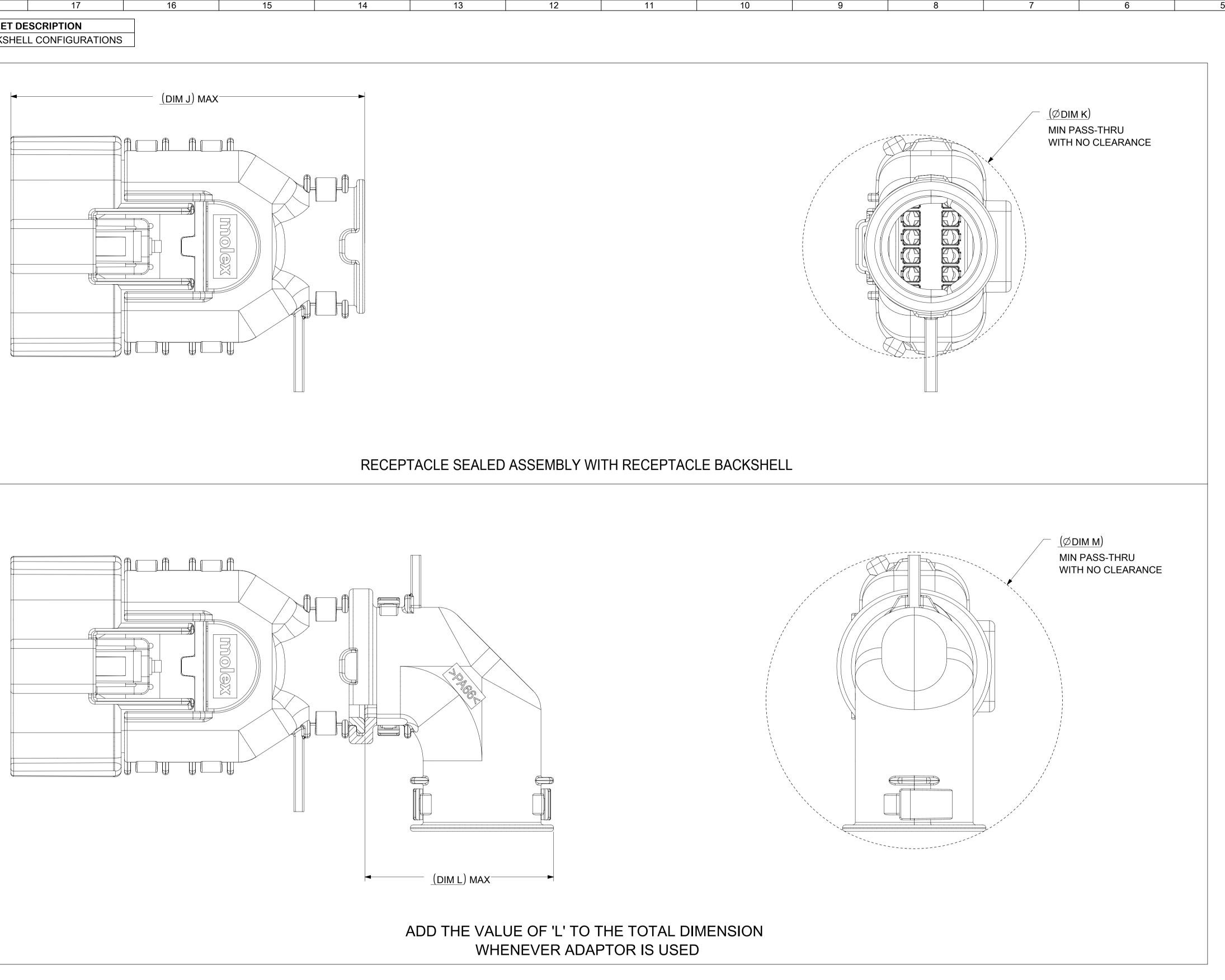
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2X3 W/O CLIPSLC	OT 28.50
2X4 W/ CLIPSLC	OT N/A
2X4 W/O CLIPSL	OT 30.75
2X6 W/ CLIPSLC	OT N/A
2X6 W/O CLIPSL	OT 35.83





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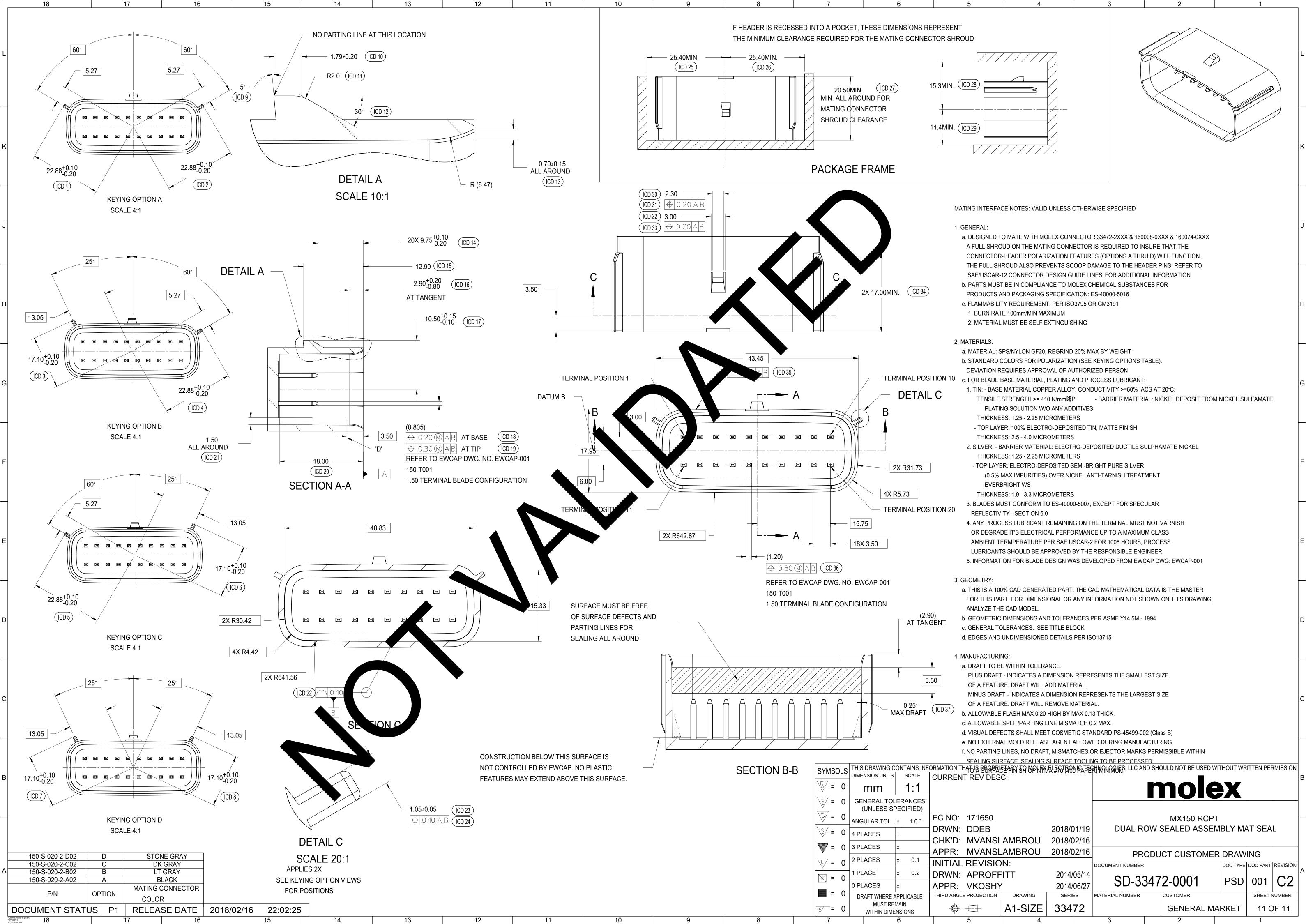


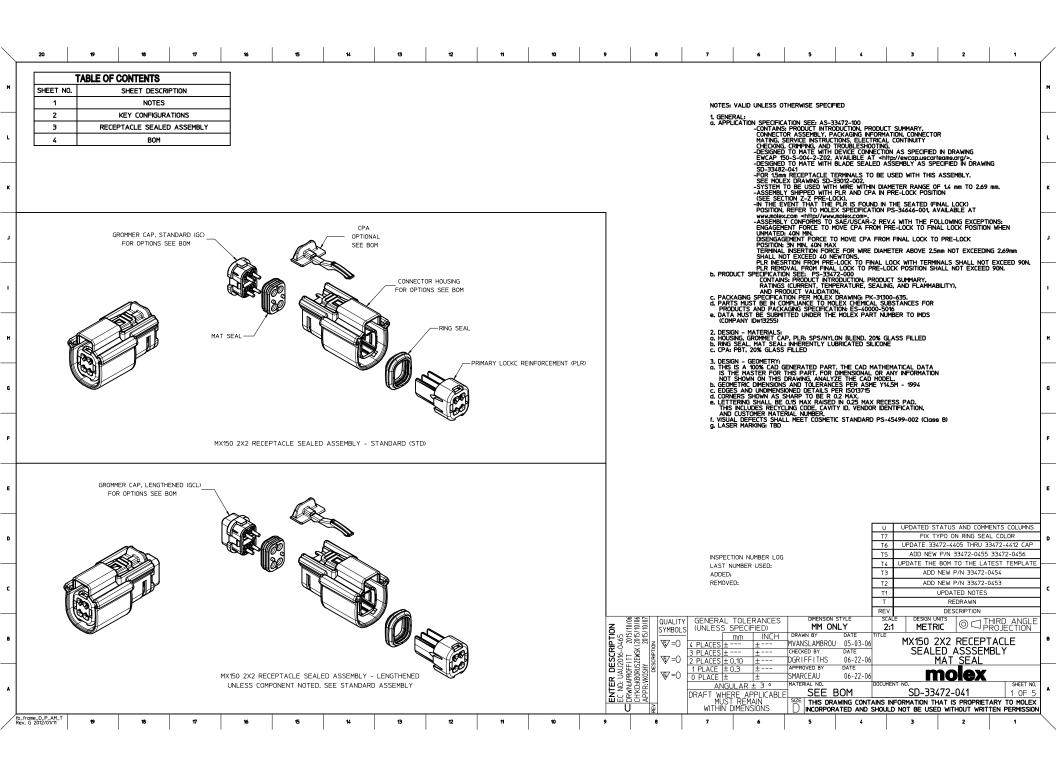
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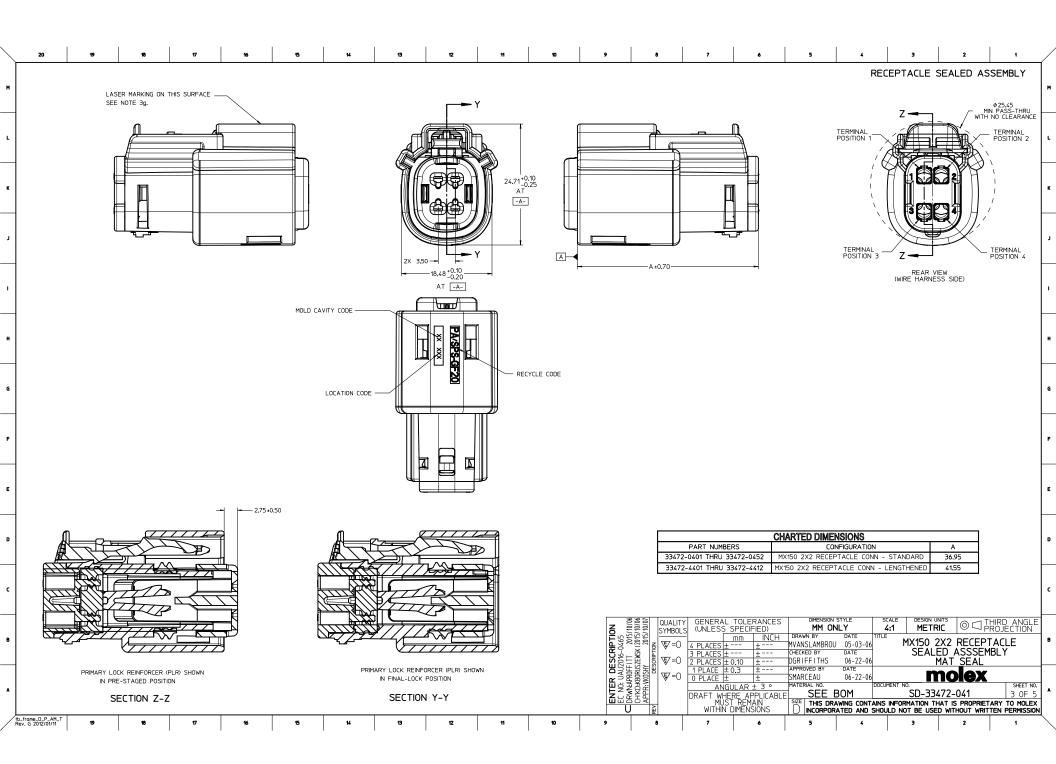
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	2X4 W/ CLIPSLOT	58.39	32.85	32.10	44.26								
	2X4 W/O CLIPSLOT	N/A	N/A	N/A	N/A								
	2X8 W/ CLIPSLOT	67.19	42.65	36.10	56.49								
В	2X8 W/O CLIPSLOT	N/A	N/A	N/A	N/A								
	2X10 W/ CLIPSLOT	67.19	42.65	36.10	56.49								
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								L						ING OPTION D	STONE GF		SPS/NYLON GF20	1			
D														ING OPTION C	DARK GR		SPS/NYLON GF20	1			D
							L							ING OPTION D	GREEN		SPS/NYLON GF20	1			
_						-								ING OPTION C	BROWN		SPS/NYLON GF20	1			
						L								ING OPTION B	LIGHT GR		SPS/NYLON GF20	1			
c														ING OPTION A	BLACK		SPS/NYLON GF20	1			c
-					L										COLOR		MATERIAL	1			1
															CABLE COMPONEN]			
															1 /06		ALITY GENERAL TOLERANCES	DIMENSION STYLE	SCALE DESIGN UNIT		E
. [10/10/20/20/20/20/20/20/20/20/20/20/20/20/20		BOLS (UNLESS SPECIFIED)	MM ONLY			
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•																ž			SD-3347	2-041 5 OF	5 ^
															ENTER DESCRIPTION EC NO: UAUZON6-04.65 CDRWN&APR0FF117 2015/11 CHKD%80RUSZEWSK1.2015/11		DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS	THIS DRAWING CONTAIN	NS INFORMATION THA	T IS PROPRIETARY TO MOLE	EX
tb_frame_D_P_AM_T Rev. G 2012/01/11																2				WITHOUT WRITTEN PERMISS	INN
/ Rev. G 2012/01/11	19	18	17	16	15		14	13		1	2		Ħ	10	9	8	7 6	5 4	3	2 1	\backslash