

TABLE OF CONTENTS	
SHEET NO.	SHEET DESCRIPTION
1	NOTES
2	DUAL KEY CONFIGURATION
3	SINGLE KEY CONFIGURATION
4	VIEWS
5	BOM
6	TERMINAL AND CABLE SEAL

ASSEMBLY MATERIALS			
ITEM	DESCRIPTION	COLOR	RECYCLE CODE
1	RECEPTACLE HOUSING	SEE CHART	PA6 GF40 (FOR 160073 SERIES)
2	TPA	NATURAL	PBT-GF30
3	CPA	RED	PBT-GF30
4	PERIMETER SEAL	BLUE	SILICON 50 DUROMETER

NOTES: VALID UNLESS OTHERWISE SPECIFIED

1. GENERAL:
- a. APPLICATION SPECIFICATION SEE: 1600730001-AS

-CONTAINS: PRODUCT INTRODUCTION, PRODUCT SUMMARY, CONNECTOR ASSEMBLY, PACKAGING INFORMATION, CONNECTOR MATING, SERVICE INSTRUCTIONS, ELECTRICAL CONTINUITY CHECKING, CRIMPING, AND TROUBLESHOOTING.

-DESIGNED TO MATE WITH DEVICE OR CONNECTOR AS SPECIFIED IN THE MATING INTERFACE/CONNECTOR DRAWINGS CHART.

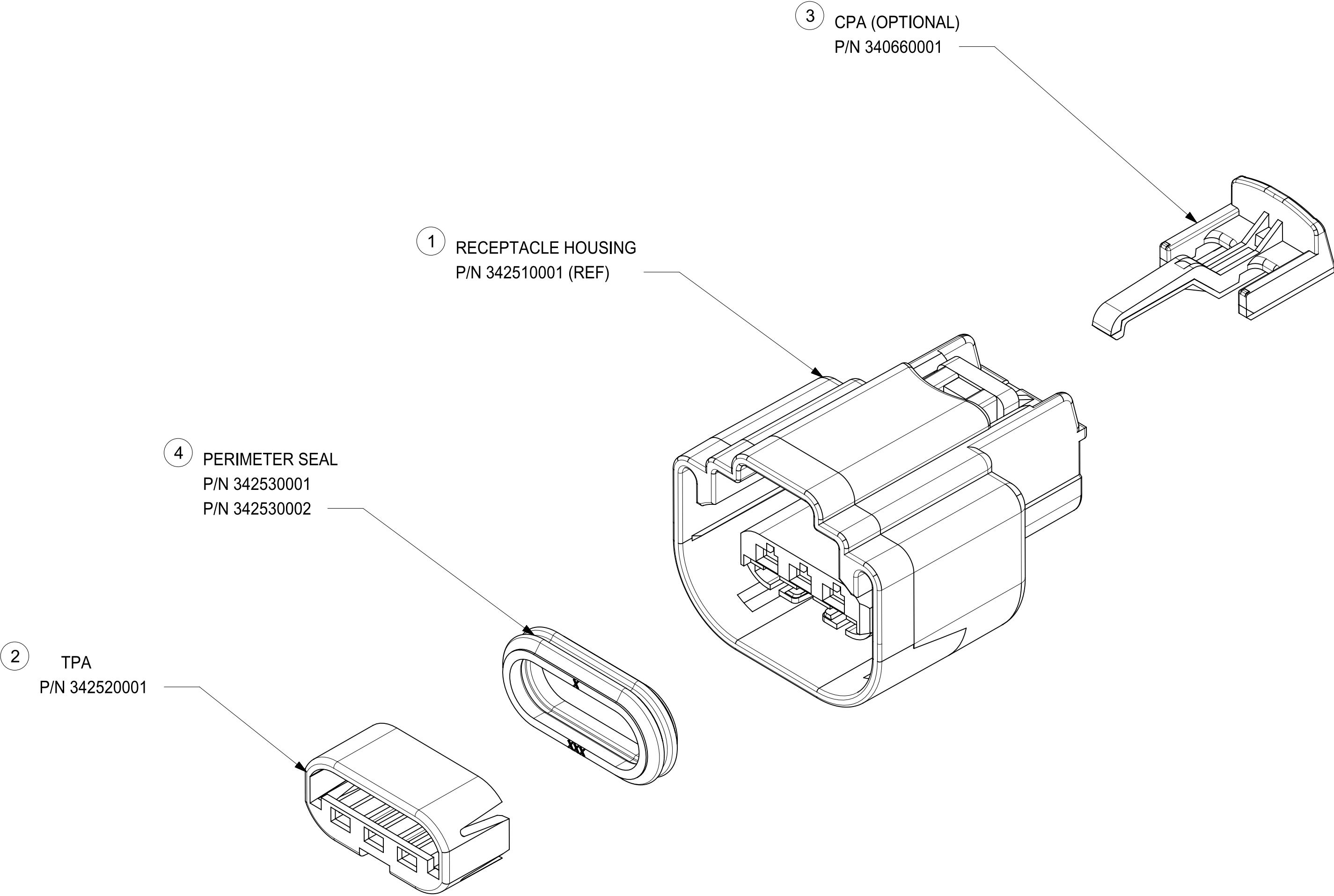
*DENOTES DRAWINGS THAT CAN BE ACCESSED AT <http://ewcap.uscarteams.org/>.

-ASSEMBLY SHIPPED WITH PLR IN PRE-LOCK POSITION (SEE PLR PRE-LOCK VIEW SHEET 4).
- b. PRODUCT SPECIFICATION SEE: 1600730001-PS
- c. PACKAGING SPECIFICATION PER MOLEX DRAWING: SEE PK-31300-068
2. DESIGN - MATERIALS:
- a. FOR BILL OF MATERIALS SEE: BOM IN SHEET 5
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

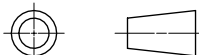
2. DAY OF THE YEAR

3. SHIFT

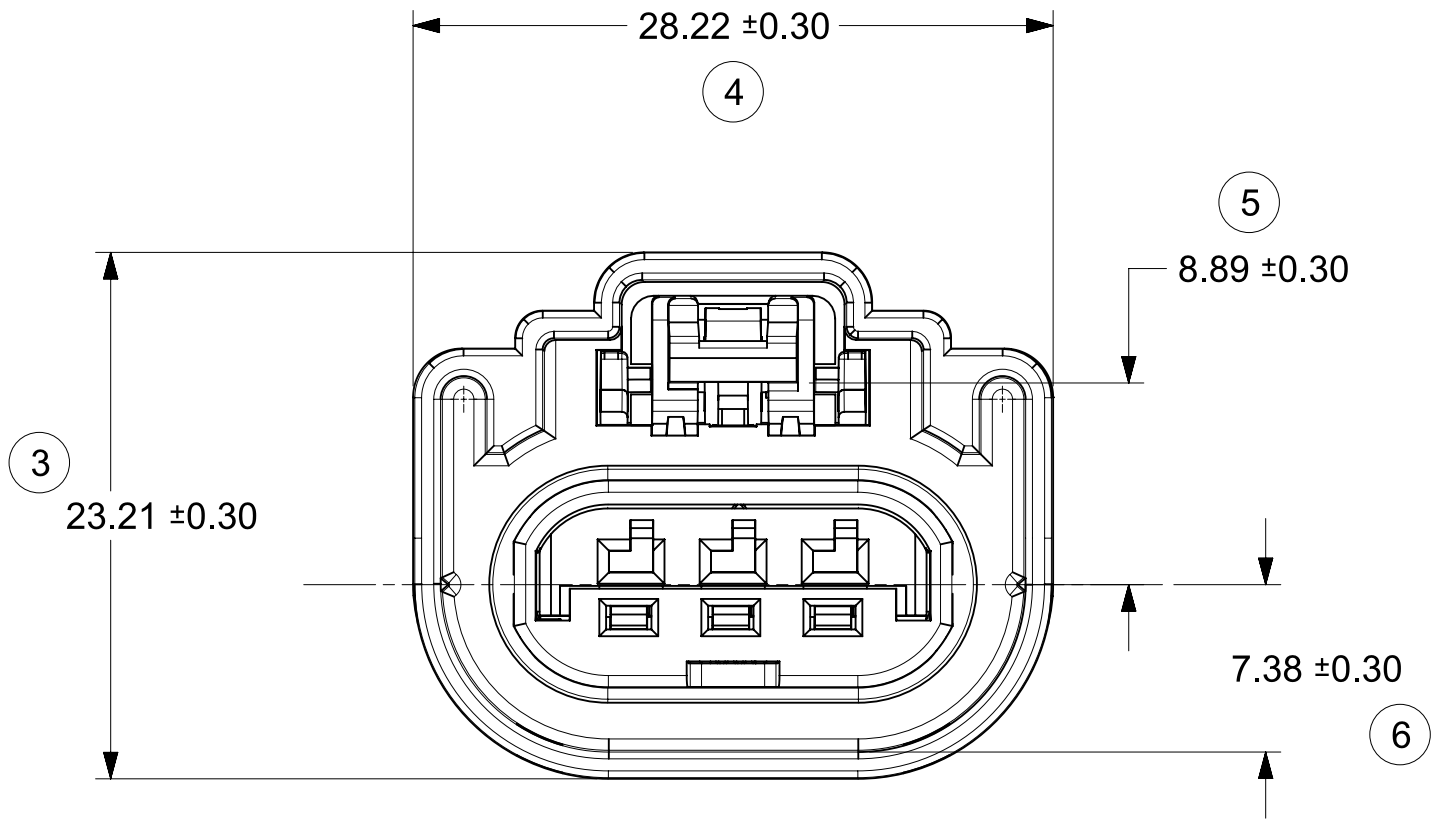
4. YEAR



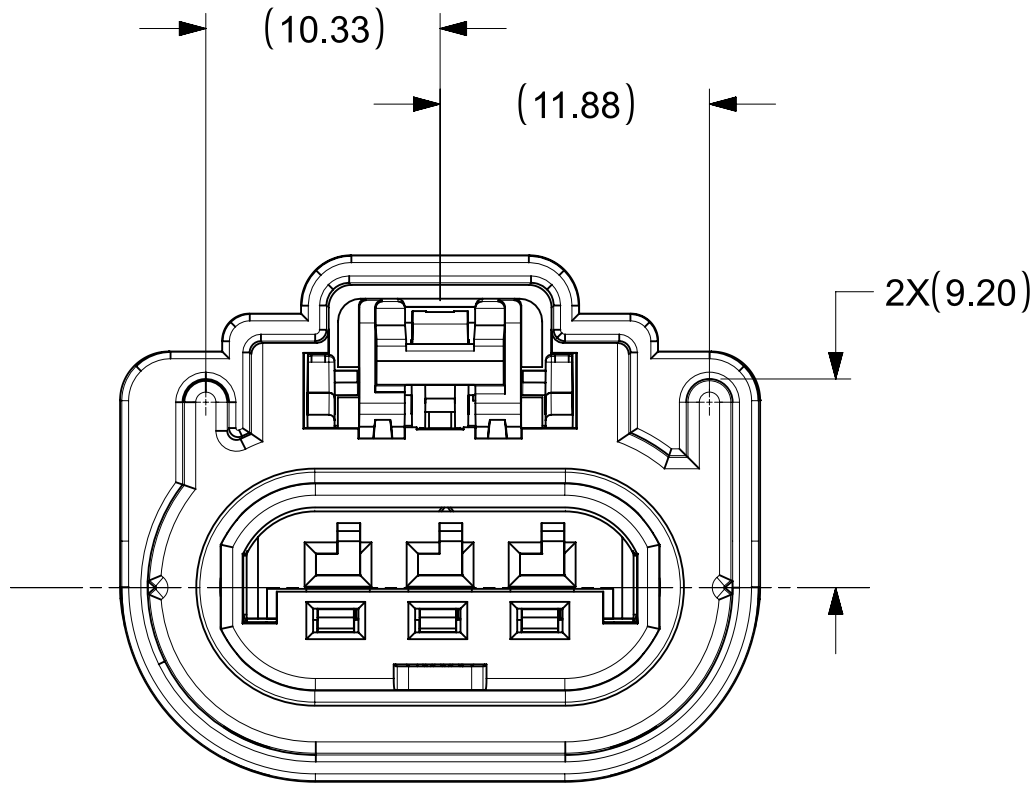
R1	REMASTERED IN NX AND ADDED NEW PN 1600733120
REV	DISCRIPTION

THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX ELECTRONIC TECHNOLOGIES, LLC AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION															
DIMENSION UNITS		SCALE		CURRENT REV DESC: SEE REVISION TABLE		molex RECEPTACLE ASSEMBLY 3-WAY USCAR CONNECTOR 1.5MM CABLE SEAL									
MM		2:1													
GENERAL TOLERANCES (UNLESS SPECIFIED)															
ANGULAR TOL		± 3°													
4 PLACES		±													
3 PLACES		±													
2 PLACES		± 0.100		STATUS: Production DRWN: Manikya MD CHK'D: MAURICIO RUIZ APPR: Enrique Dominguez		PRODUCT CUSTOMER DRAWING									
1 PLACE		± 0.30				DOCUMENT NUMBER		DOC TYPE		DOC PART		REVISION			
0 PLACES		±				SD-160073-001		PSD		001		R1			
DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS				THIRD ANGLE PROJECTION		DRAWING		SERIES		MATERIAL NUMBER		CUSTOMER		SHEET NUMBER	
						A1-SIZE		160073		SEE BOM		GENERAL MARKET		1 OF 6	

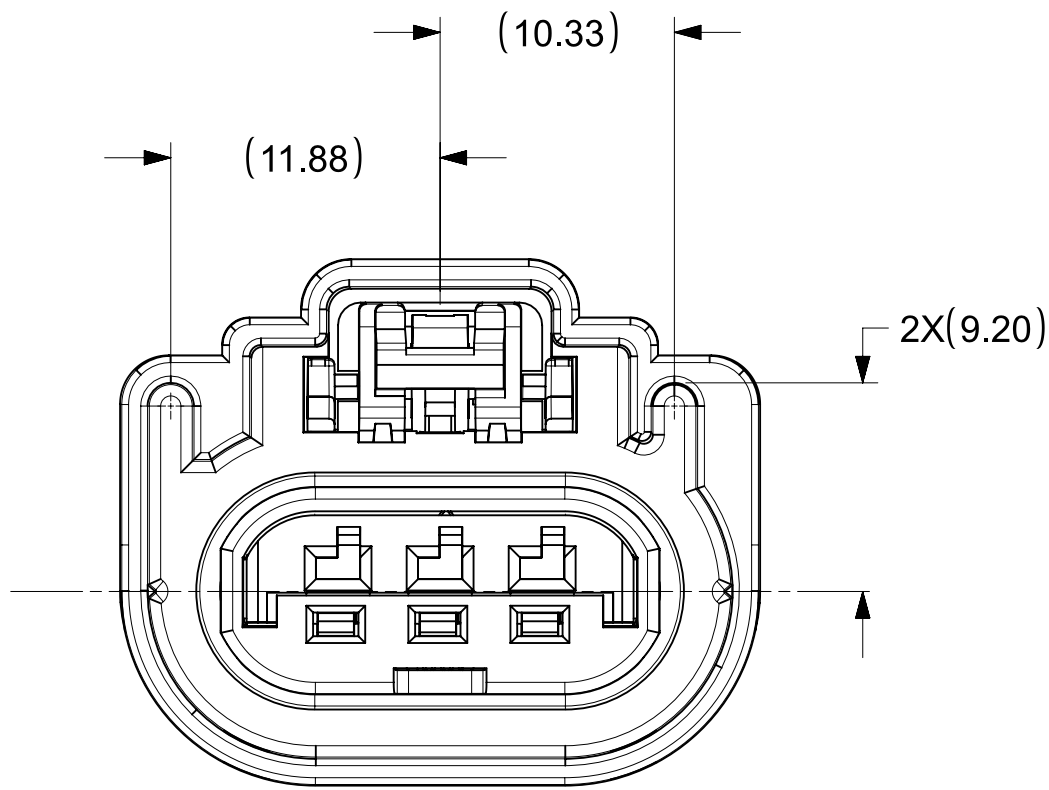
DUAL KEY CONFIGURATION



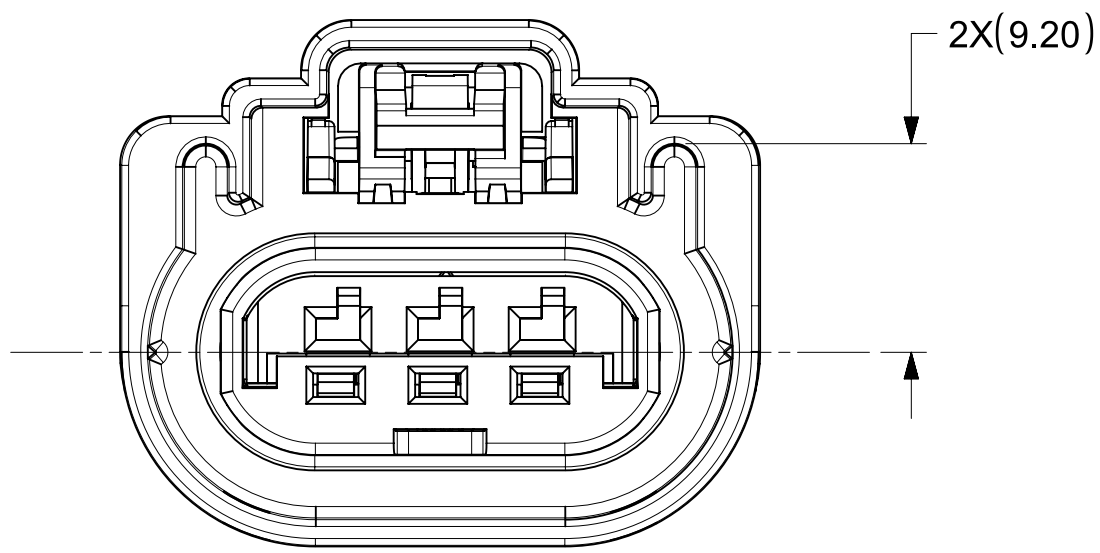
DUAL KEY OPTION "A"



DUAL KEY OPTION "B"



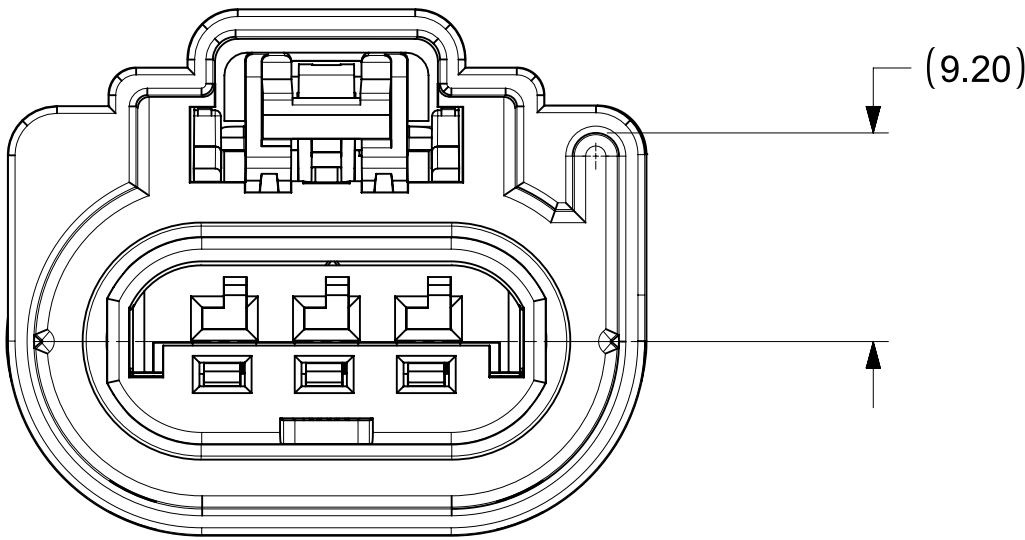
DUAL KEY OPTION "C"



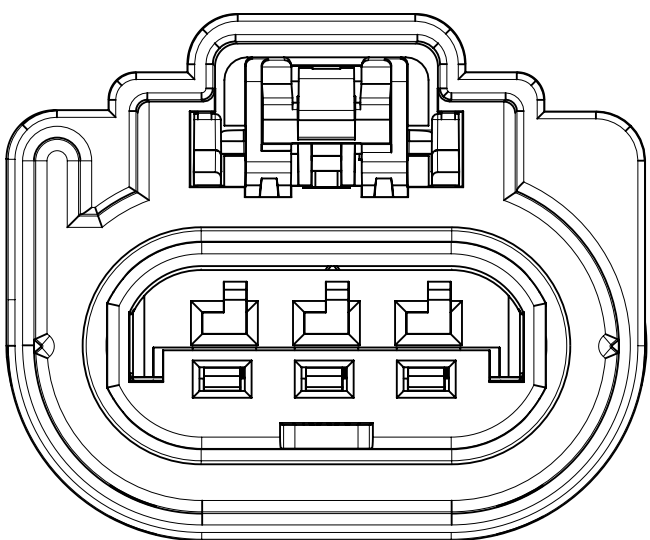
DUAL KEY OPTION "D"

THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX ELECTRONIC TECHNOLOGIES, LLC AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION											
DIMENSION UNITS		SCALE		CURRENT REV DESC: SEE REVISION TABLE				molex			
MM		3:1									
GENERAL TOLERANCES (UNLESS SPECIFIED)											
ANGULAR TOL ± 3°											
4 PLACES		±									
3 PLACES		±									
2 PLACES		± 0.100									
1 PLACE		± 0.30									
0 PLACES		±									
STATUS: Production DRWN: Manikya MD CHK'D: MAURICIO RUIZ APPR: Enrique Dominguez				2025-10-03		DOCUMENT NUMBER		DOC TYPE	DOC PART	REVISION	
				2025-10-17		SD-160073-001		PSD	001	R1	
				2025-10-28							
DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS				THIRD ANGLE PROJECTION		DRAWING	SERIES	MATERIAL NUMBER		CUSTOMER	SHEET NUMBER
						A1-SIZE	160073	SEE BOM		GENERAL MARKET	2 OF 6

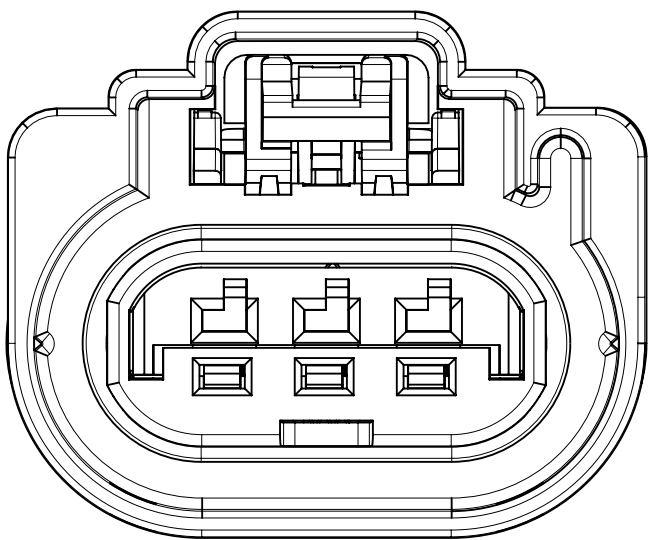
SINGLE KEY CONFIGURATION



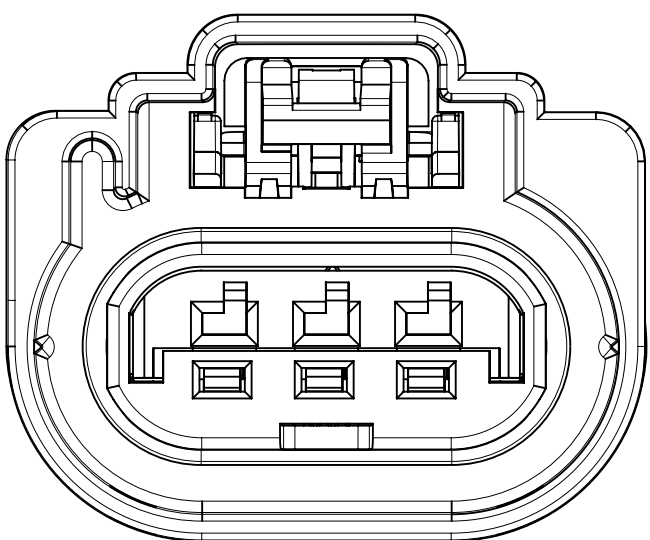
SINGLE KEY OPTION "A"



SINGLE KEY OPTION "B"



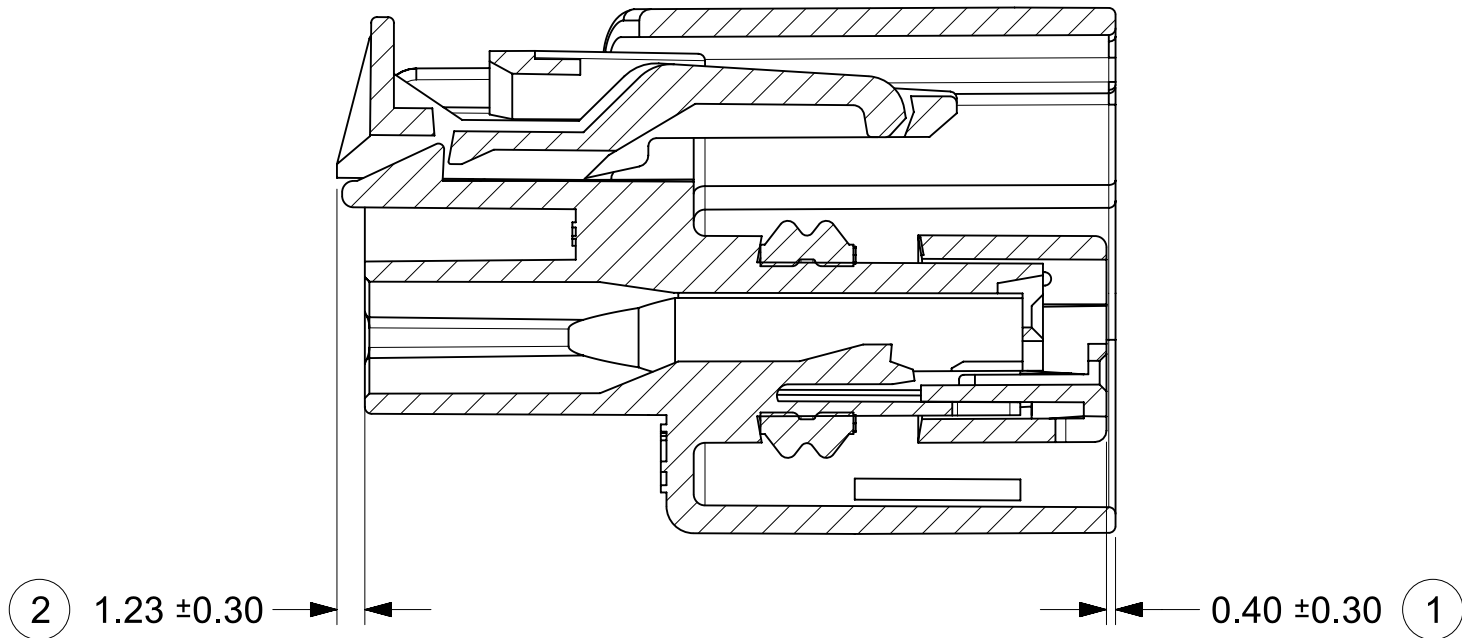
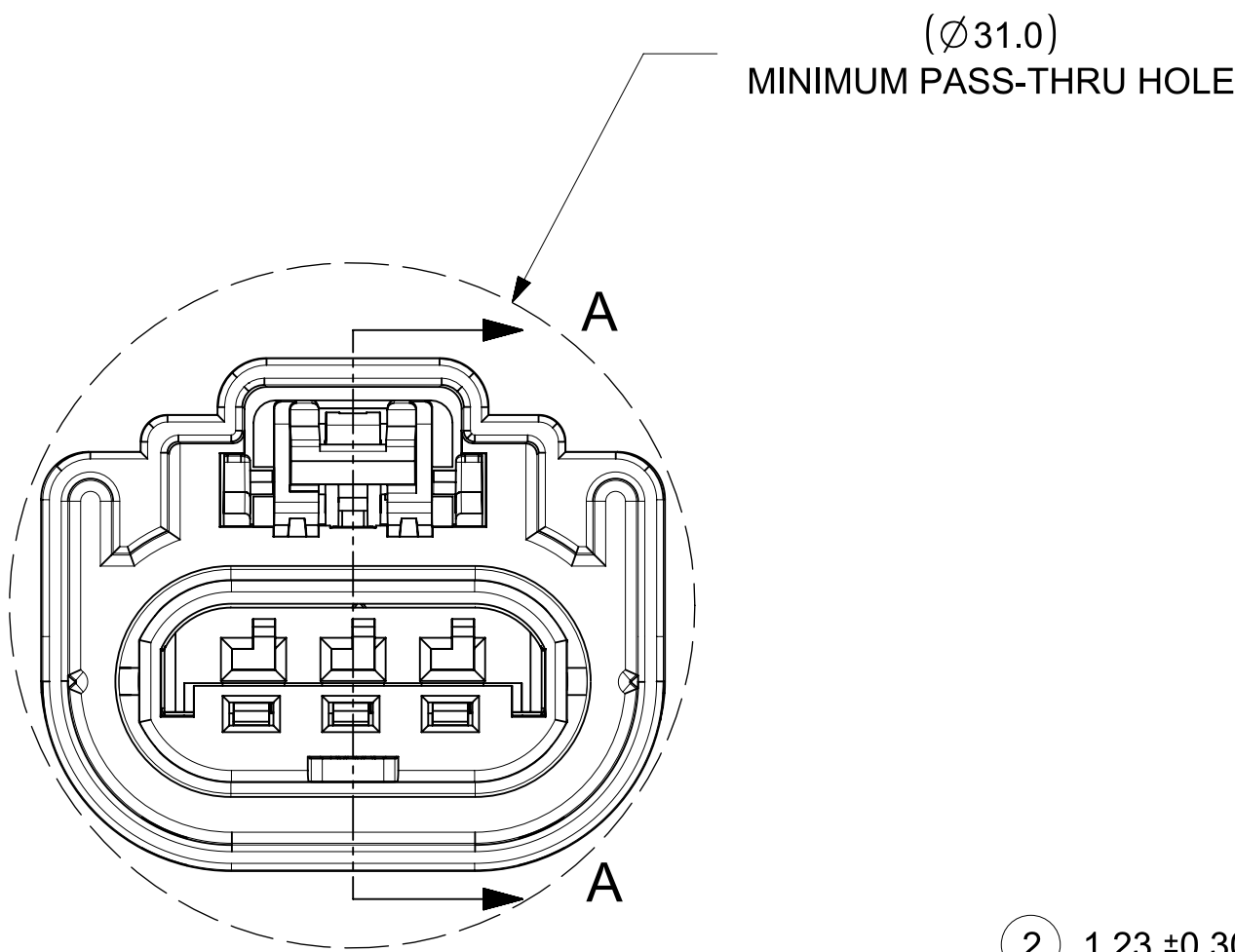
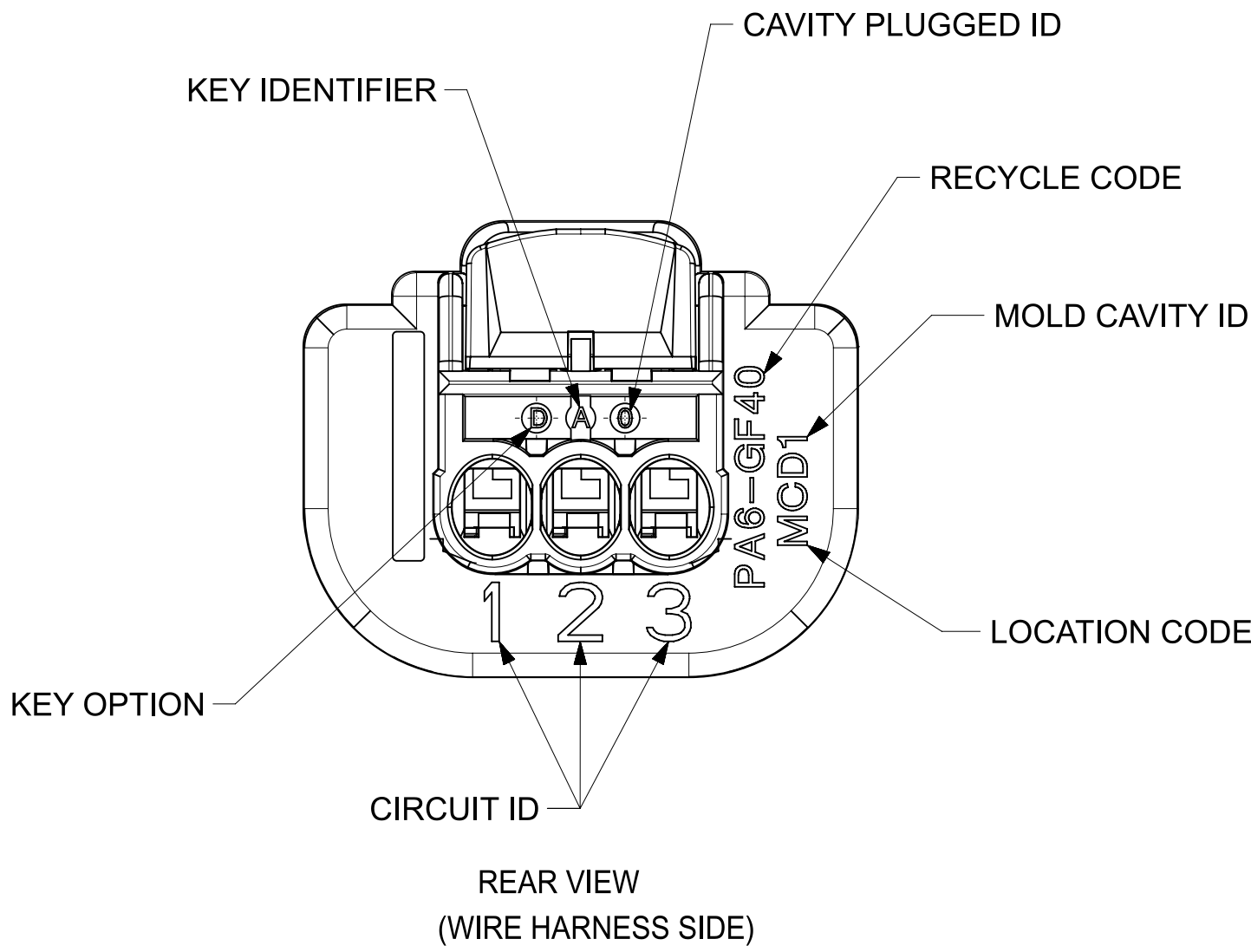
SINGLE KEY OPTION "C"



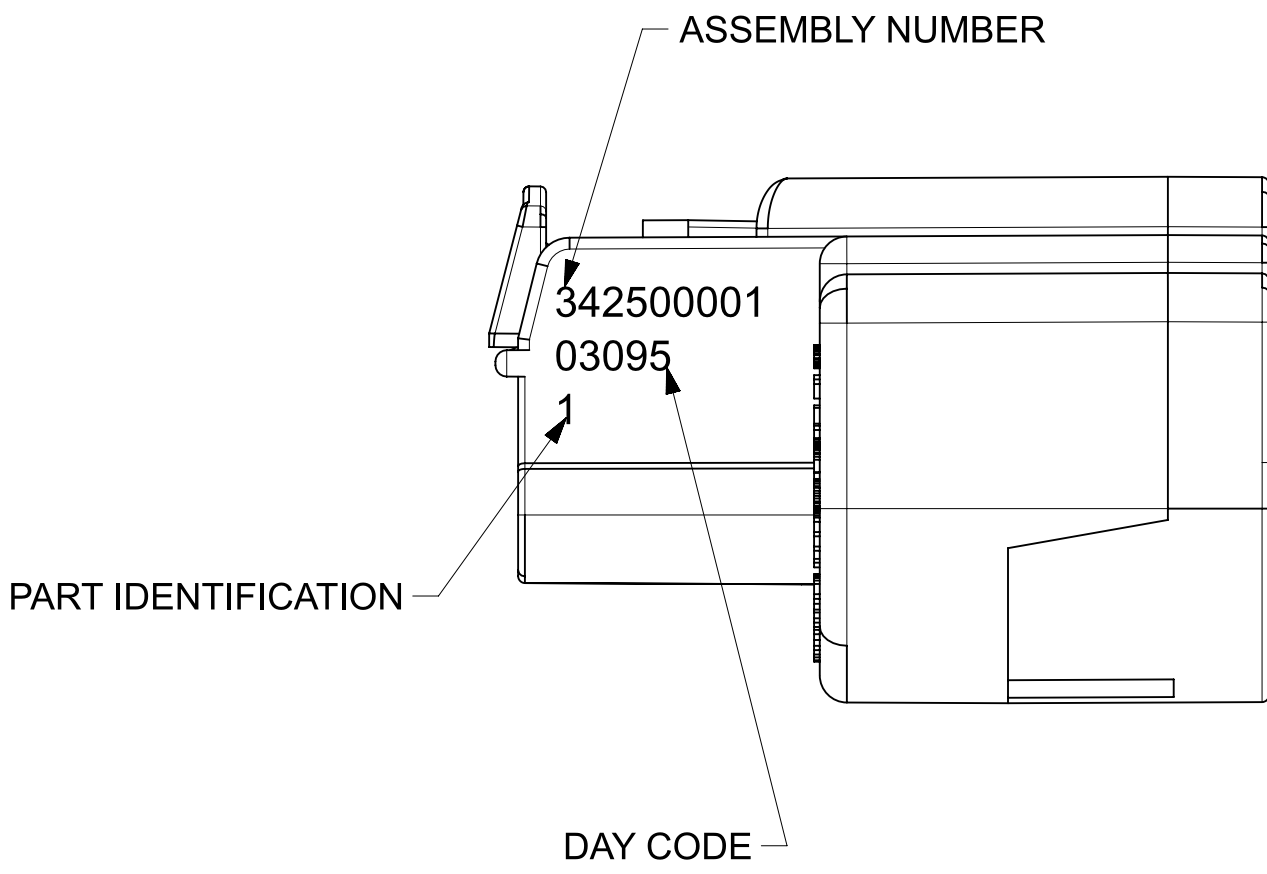
SINGLE KEY OPTION "D"

THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX ELECTRONIC TECHNOLOGIES, LLC AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION																	
DIMENSION UNITS		SCALE		CURRENT REV DESC: SEE REVISION TABLE				molex									
MM		3:1															
GENERAL TOLERANCES (UNLESS SPECIFIED)								RECEPTACLE ASSEMBLY 3-WAY USCAR CONNECTOR 1.5MM CABLE SEAL									
ANGULAR TOL		± 3°															
4 PLACES		±															
3 PLACES		±		PRODUCT CUSTOMER DRAWING													
2 PLACES		± 0.100															
1 PLACE		± 0.30															
0 PLACES		±															
STATUS: Production								DOCUMENT NUMBER SD-160073-001				DOC TYPE		DOC PART		REVISION	
DRWN: Manikya MD				2025-10-03		PSD						001		R1			
CHK'D: MAURICIO RUIZ				2025-10-17													
APPR: Enrique Dominguez				2025-10-28													
DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS				THIRD ANGLE PROJECTION		DRAWING		SERIES		MATERIAL NUMBER		CUSTOMER		SHEET NUMBER			
								A1-SIZE		160073		SEE BOM		GENERAL MARKET		3 OF 6	

VIEWS



SECTION A-A
TPA & CPA (OPTIONAL) SHOWN IN PRE-LOCK POSITION



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DIMENSION UNITS		SCALE		CURRENT REV DESC: SEE REVISION TABLE					
MM		2:1							
GENERAL TOLERANCES (UNLESS SPECIFIED)				STATUS: Production DRWN: Manikya MD CHK'D: MAURICIO RUIZ APPR: Enrique Dominguez 2025-10-03 2025-10-17 2025-10-28 THIRD ANGLE PROJECTION DRAWING SERIES MATERIAL NUMBER CUSTOMER SHEET NUMBER					
ANGULAR TOL ± 3°									
4 PLACES		±							
3 PLACES		±							
2 PLACES		± 0.100							
1 PLACE		± 0.30							
0 PLACES		±							
DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS									

				A1-SIZE		160073		SEE BOM		GENERAL MARKET		4 OF 6	
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molex									
RECEPTACLE ASSEMBLY 3-WAY USCAR CONNECTOR 1.5MM CABLE SEAL									
PRODUCT CUSTOMER DRAWING									
DOCUMENT NUMBER				DOC TYPE		DOC PART		REVISION	
SD-160073-001				PSD		001		R1	

BOM

ASSEMBLY DESCRIPTION	ASSEMBLY P/N	HOUSING KEY/COLOR	BLOCKED TERMINALS			MATES W/ USCAR DUAL KEY	MATES W/ USCAR SINGLE KEY	STATUS	COMMENTS
			1	2	3				
KEY A, BLACK, W/O CPA	1600733101	A-BLACK				150-S-003-1-A01	N/A	SALEABLE	N/A
KEY B, LT GREY, W/O CPA	1600733102	B-LT GREY				150-S-003-1-B01	N/A	SALEABLE	N/A
KEY C, DK GREY, W/O CPA	1600733103	C-DK GREY				150-S-003-1-C01	N/A	SALEABLE	N/A
KEY D, ST GREY, W/O CPA	1600733104	D-ST GREY				150-S-003-1-D01	N/A	SALEABLE	N/A
KEY A, BLACK, W/ CPA	1600733105	A-BLACK				150-S-003-1-A01	N/A	SALEABLE	N/A
KEY B, LT GREY, W/ CPA	1600733106	B-LT GREY				150-S-003-1-B01	N/A	SALEABLE	N/A
KEY C, DK GREY, W/ CPA	1600733107	C-DK GREY				150-S-003-1-C01	N/A	SALEABLE	N/A
KEY D, ST GREY, W/ CPA	1600733108	D-ST GREY				150-S-003-1-D01	N/A	SALEABLE	N/A
KEY A, BLACK, W/O CPA	1600733109	A-BLACK				N/A	150-S-003-1-A02	SALEABLE	N/A
KEY B, LT GREY, W/O CPA	1600733110	B-LT GREY				N/A	150-S-003-1-B02	SALEABLE	N/A
KEY C, DK GREY, W/O CPA	1600733111	C-DK GREY				N/A	150-S-003-1-C02	SALEABLE	N/A
KEY D, ST GREY, W/O CPA	1600733112	D-ST GREY				N/A	150-S-003-1-D02	SALEABLE	N/A
KEY A, BLACK, W/ CPA	1600733113	A-BLACK				N/A	150-S-003-1-A02	SALEABLE	N/A
KEY B, LT GREY, W/ CPA	1600733114	B-LT GREY				N/A	150-S-003-1-B02	SALEABLE	N/A
KEY C, DK GREY, W/ CPA	1600733115	C-DK GREY				N/A	150-S-003-1-C02	SALEABLE	N/A
KEY D, ST GREY, W/ CPA	1600733116	D-ST GREY				N/A	150-S-003-1-D02	SALEABLE	N/A
KEY B BLACK, W/O CPA	1600733117	B-BLACK				150-S-003-1-B01	N/A	SALEABLE	N/A
KEY D, BLACK, W/O CPA	1600733118	D-BLACK				N/A	150-S-003-1-D02	SALEABLE	N/A
KEY B, BLACK, W/ CPA	1600733119	B-BLACK				150-S-003-1-B01	N/A	SALEABLE	N/A
KEY D, BLACK, W/ CPA	1600733120	D-BLACK				N/A	150-S-003-1-D02	SALEABLE	N/A

R1

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DIMENSION UNITS

MM

SCALE

1:1

GENERAL TOLERANCES
(UNLESS SPECIFIED)

ANGULAR TOL ± 3°

4 PLACES ±

3 PLACES ±

2 PLACES ± 0.100

1 PLACE ± 0.30

0 PLACES ±

DRAFT WHERE APPLICABLE
MUST REMAIN
WITHIN DIMENSIONS

THIRD ANGLE PROJECTION



DRAWING

A1-SIZE

SERIES

160073

CURRENT REV DESC: SEE REVISION TABLE

STATUS: Production

DRWN: Manikya MD

CHK'D: MAURICIO RUIZ

APPR: Enrique Dominguez

2025-10-03

2025-10-17

2025-10-28

DOCUMENT NUMBER

SD-160073-001

DOC TYPE

PSD

DOC PART

001

REVISION

R1

PRODUCT CUSTOMER DRAWING

MATERIAL NUMBER

CUSTOMER

SHEET NUMBER

SEE BOM

GENERAL MARKET

5 OF 6



RECEPTACLE ASSEMBLY
3-WAY USCAR CONNECTOR 1.5MM CABLE SEAL

TERMINAL AND CABLE SEAL

22	34083-2003	RIGHT	TIN	22	E-1644-01	1.19-1.65	PINK
22	34083-3003	LEFT	TIN	22			
22	34081-2005	RIGHT	GOLD	22			
22	34081-3005	LEFT	GOLD	22			
20	34083-2002	RIGHT	TIN	18/20	E-1644-00	1.60-2.10	GREEN
20	34083-3002	LEFT	TIN	18/20			
20	34081-2004	RIGHT	GOLD	18/20			
20	34081-3004	LEFT	GOLD	18/20			
18	34083-2002	RIGHT	TIN	18/20			
18	34083-3002	LEFT	TIN	18/20			
18	34081-2004	RIGHT	GOLD	18/20			
18	34081-3004	LEFT	GOLD	18/20			
16	34083-2001	RIGHT	TIN	16	E-1644-02	2.10-2.50	YELLOW
16	34083-3001	LEFT	TIN	16			
16	34081-2003	RIGHT	GOLD	16			
16	34081-3003	LEFT	GOLD	16			
AWG	PART NUMBER	PAYOFF DIRECTION	PLATING	GRIP	QSR P/N	WIRE OD RANGE	COLOR
WIRE SIZE					CABLE SEAL		
TERMINAL *PREFERRED*					(QSR)		

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DIMENSION UNITS	SCALE
MM	1:1
GENERAL TOLERANCES (UNLESS SPECIFIED)	
ANGULAR TOL	± 3°
4 PLACES	±
3 PLACES	±
2 PLACES	± 0.100
1 PLACE	± 0.30
0 PLACES	±
DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS	

CURRENT REV DESC: SEE REVISION TABLE

STATUS: Production

DRWN: Manikya MD

CHK'D: MAURICIO RUIZ

APPR: Enrique Dominguez

2025-10-03

2025-10-17

2025-10-28

RECEPTACLE ASSEMBLY

3-WAY USCAR CONNECTOR 1.5MM CABLE SEAL

PRODUCT CUSTOMER DRAWING

DOCUMENT NUMBER	DOC TYPE	DOC PART	REVISION
SD-160073-001	PSD	001	R1

THIRD ANGLE PROJECTION	DRAWING	SERIES	MATERIAL NUMBER	CUSTOMER	SHEET NUMBER
	A1-SIZE	160073	SEE BOM	GENERAL MARKET	6 OF 6