TABLE OF CONTENTS	
SHEET NO.	SHEET DESCRIPTION
1	NOTES AND BOM
2	CONFIGURATIONS
3	POLARIZATION
4	INTEGRAL COMPONENTS
5	DATUM TARGETS
6	PACKAGING DIMENSIONS -TYPE 1
7	PACKAGING DIMENSIONS -TYPE 2
8-9	RECEPTACLE PACKAGING
10-17	CONNECTOR INTERFACE DEFINITION

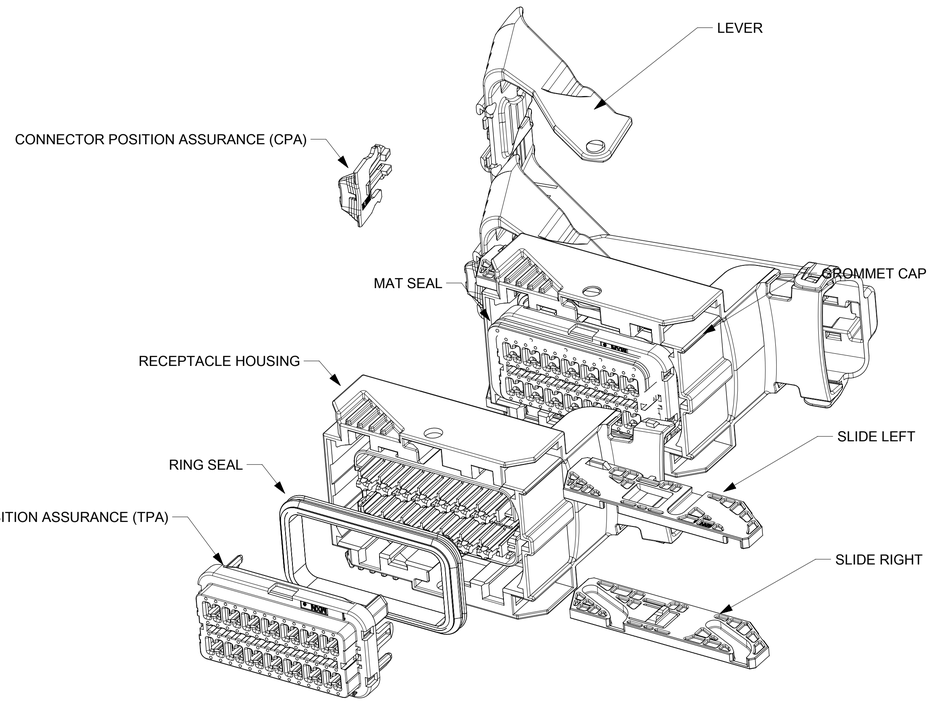
NOTES: VALID UNLESS OTHERWISE SPECIFIED

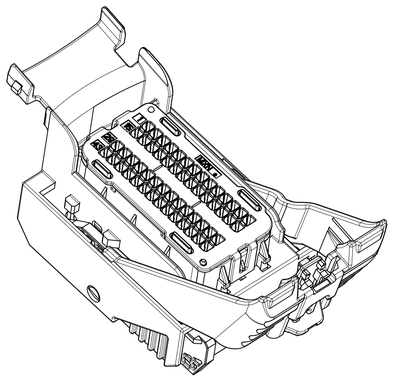
1. GENERAL:
a. APPLICATION SPECIFICATION SEE: AS-34566-001
-CONTAINS: PRODUCT INTRODUCTION, PRODUCT SUMMARY, CONNECTOR ASSEMBLY, PACKAGING INFORMATION, CONNECTOR MATING, SERVICE INSTRUCTIONS, ELECTRICAL CONTINUITY CHECKING, CRIMPING, AND TROUBLESHOOTING.
-DESIGNED TO MATE WITH DEVICE INTERFACE AS SPECIFIED IN MATING INTERFACE CHART
-FOR TERMINALS TO BE USED WITH THIS ASSEMBLY SEE MOLEX DRAWING SD-33468-002.
-SYSTEM TO BE USED WITH WIRE WITHIN DIAMETER RANGE OF 1.20mm TO 1.60mm.
-ASSEMBLY SHIPPED WITH ISL IN PRE-LOCK POSITION (SEE ISL PRE-LOCK VIEW SHEET 4).

b. PRODUCT SPECIFICATION SEE: 1600990001-PS
CONTAINS: PRODUCT INTRODUCTION, PRODUCT SUMMARY, RATINGS (CURRENT, TEMPERATURE, SEALING, AND FLAMMABILITY), AND PRODUCT VALIDATION.
c. PACKAGING SPECIFICATION PER MOLEX DRAWING: 313025240
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)

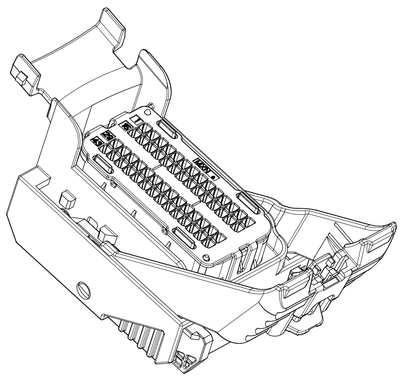
2. DESIGN - MATERIALS:
a. SEE BOM TABLE IN 1600990002-SD
b. FOR MATING INTERFACE PART NUMBERS AND INFORMATION - SEE INTERFACE PAGE OF DRAWING

3. DESIGN - GEOMETRY:
a. ALL GRAPHIC DATA IS BASIC (NO TOLERANCE) AND MUST BE TAKEN FROM 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: SEE SECTION 5 UNDER PROCEDURES IN ES-34735-008.
h. PRODUCT DESIGN MODEL NUMBER: SEE BOM TABLE AS SPECIFIED IN 1600990002-SD
i. GENERAL TOLERANCES:
LINEAR:
X.X ±0.30
X.XX ±0.10
X.XXX ±0.10
ANGULAR X° ±3'





TYPE 2
(P/N: 216783*)



TYPE 1
(P/N: 160099*)

REV	DESCRIPTION
A8	UPDATED DESIGN CHANGE FOR TYPE 2 WDC AND LEVER
A7	ADD P/N 216783*
A6	REMOVED ICD PART NUMBERS FROM SHEET 9
A5	CHANGED COUPLE OF DIMENSIONS TO REFERENCE AND UPDATED BALLOON NUMBERS
A4	UPDATED VIEWS, ADDED DIMENSIONS AND BALLOON NUMBERS
A3	CORRECTED CIRCUIT NUMBERING
A2	ADDED GENERAL TOLERANCES
A1	UPDATED VIEWS ON SHEET 7 AND 10
A	PRODUCTION RELEASE
1	INITIAL RELEASE

THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX ELECTRONIC TECHNOLOGIES, LLC AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION

EC NO: 685152
DRWN: HKANG03 2021/11/12
CHK'D: STTAN 2021/11/16
APPR.: STTAN 2021/11/16

GENERAL TOLERANCES (UNLESS SPECIFIED)

ANGULAR TOL ±	°
4 PLACES	±
3 PLACES	±
2 PLACES	±
1 PLACE	±
0 PLACES	±

DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS

REV: A8

DIMENSION UNITS: mm
SCALE: 3:2
DRWN BY: APODDATURI DATE: 2017/04/03
CHK'D BY: SKRAJENDRANA DATE: 2017/04/03
APPR BY: VKOSHY DATE: 2017/06/06
DRAWING SIZE: A1
THIRD ANGLE PROJECTION

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PRODUCT CUSTOMER DRAWING

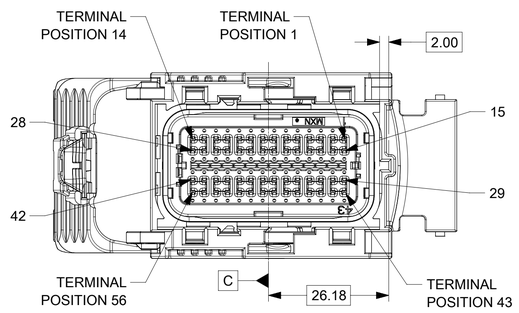
SERIES	MATERIAL NUMBER	CUSTOMER
160099		

DOCUMENT NUMBER	DOC TYPE	DOC PART	SHEET NUMBER
1600990001-SD	PSD	000	1 OF 17

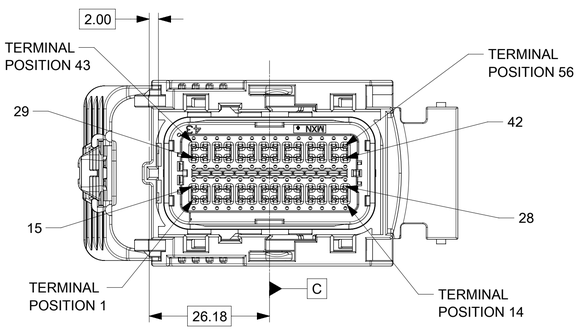
RELEASE STATUS	P1	RELEASE DATE	2021/11/16 03:27:51

SHEET DESCRIPTION

CONFIGURATIONS



WIRE DRESS OPTION 0



WIRE DRESS OPTION 9

THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX ELECTRONIC TECHNOLOGIES, LLC AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION

EC NO: 685152
DRWN: HKANG03
CHK'D: STTAN
APPR: STTAN
2021/11/12
2021/11/16
2021/11/16

GENERAL TOLERANCES (UNLESS SPECIFIED)

ANGULAR TOL ±	°
4 PLACES	±
3 PLACES	±
2 PLACES	±
1 PLACE	±
0 PLACES	±

DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS

DIMENSION UNITS	mm
SCALE	1.5:1
DRWN BY	APODDATURI
DATE	2017/04/03
CHK'D BY	SKRAJENDRANA
DATE	2017/04/03
APPR BY	VKOSHY
DATE	2017/06/06
DRAWING SIZE	A1
THIRD ANGLE PROJECTION	

A8 REV

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PRODUCT CUSTOMER DRAWING

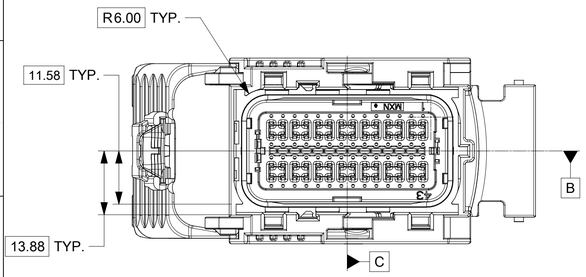
SERIES	MATERIAL NUMBER	CUSTOMER
160099		

DOCUMENT NUMBER	DOC TYPE	DOC PART	SHEET NUMBER
1600990001-SD	PSD	000	2 OF 17

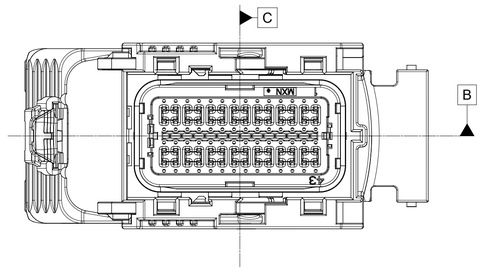
RELEASE STATUS	P1	RELEASE DATE	2021/11/16 03:27:51

SHEET DESCRIPTION

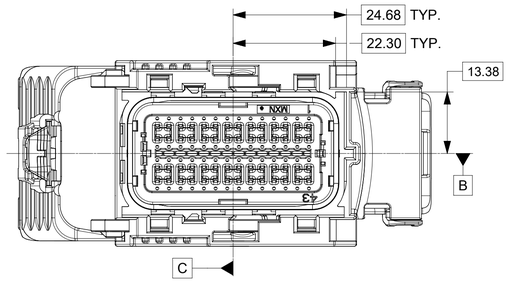
POLARIZATION



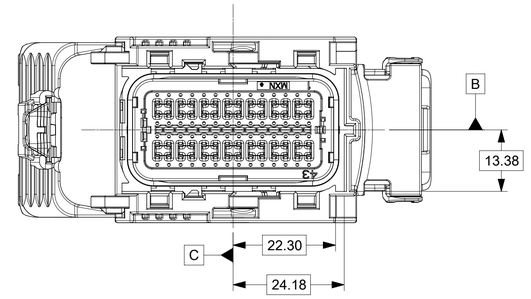
KEY G



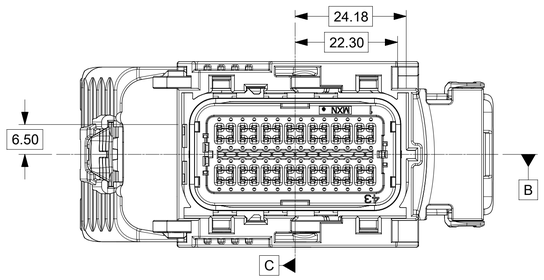
UNIVERSAL KEY



KEY H



KEY J



KEY M

THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX ELECTRONIC TECHNOLOGIES, LLC AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION

EC NO: 685152
DRWN: HKANG03
CHK'D: STTAN
APPR: STTAN

2021/11/12
2021/11/16
2021/11/16

GENERAL TOLERANCES (UNLESS SPECIFIED)	
ANGULAR TOL ±	°
4 PLACES	±
3 PLACES	±
2 PLACES	±
1 PLACE	±
0 PLACES	±

DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS

REV: A8

DIMENSION UNITS: mm
SCALE: 1.5:1
DRWN BY: APODDATURI DATE: 2017/04/03
CHK'D BY: SKRAJENDRANA DATE: 2017/04/03
APPR BY: VKOSHY DATE: 2017/06/06
DRAWING SIZE: A1
THIRD ANGLE PROJECTION

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PRODUCT CUSTOMER DRAWING

SERIES	MATERIAL NUMBER	CUSTOMER
160099		

DOCUMENT NUMBER	DOC TYPE	DOC PART	SHEET NUMBER
1600990001-SD	PSD	000	3 OF 17

RELEASE STATUS	P1	RELEASE DATE	2021/11/16 03:27:51

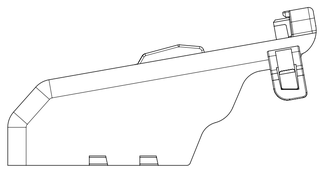
COPYRIGHT, molex-ds-prod-A1
REVISION: D
DATE: 2019/12/14

SHEET DESCRIPTION

INTEGRAL COMPONENTS

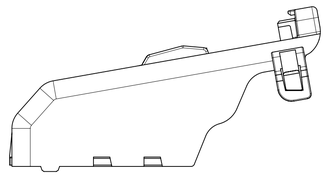
THE FOLLOWING COMPONENTS ARE SOLD SEPERATELY.
SEE BOM FOR ADDITIONAL INFORMATION.

FOR HARNESS 160099* ONLY

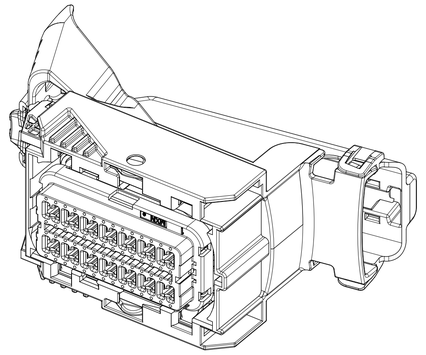


WIRE DRESS COVER
1600995001

FOR HARNESS 216783* ONLY



WIRE DRESS COVER
1600995007



ASSEMBLED
W/ INTEGRAL COMPONENTS

THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX ELECTRONIC TECHNOLOGIES, LLC AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION

EC NO: 685152
DRWN: HKANG03 2021/11/12
CHK'D: STTAN 2021/11/16
APPR: STTAN 2021/11/16

GENERAL TOLERANCES (UNLESS SPECIFIED)

ANGULAR TOL ±	°
4 PLACES	±
3 PLACES	±
2 PLACES	±
1 PLACE	±
0 PLACES	±

DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS

DIMENSION UNITS	mm
SCALE	1:1
DRWN BY	APODDATURI
DATE	2017/04/03
CHK'D BY	SKRAJENDRANA
DATE	2017/04/03
APPR BY	VKOSHY
DATE	2017/06/06
DRAWING SIZE	A1
THIRD ANGLE PROJECTION	

REV A8

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PRODUCT CUSTOMER DRAWING

SERIES	MATERIAL NUMBER	CUSTOMER
160099		

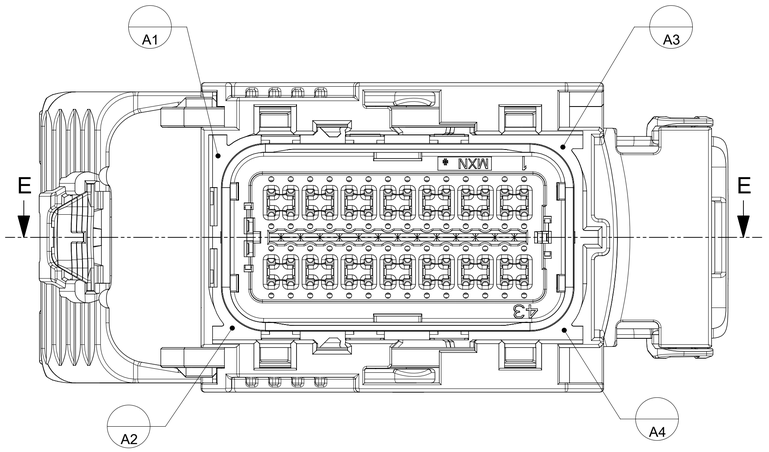
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1600990001-SD	PSD	000	4 OF 17

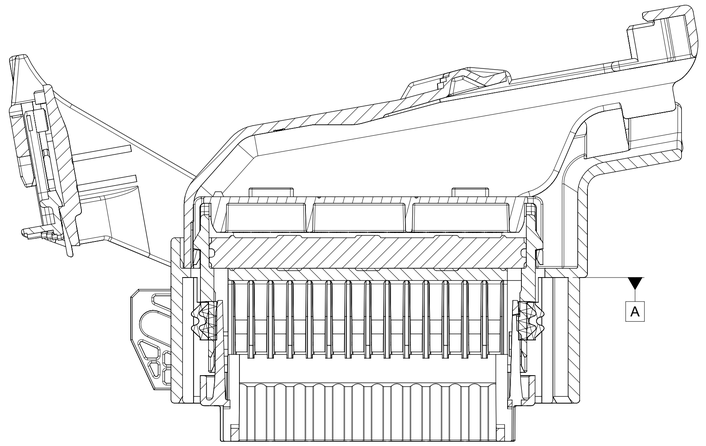
RELEASE STATUS	P1	RELEASE DATE	2021/11/16 03:27:51

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Date: 2021/11/16
Time: 03:26:51

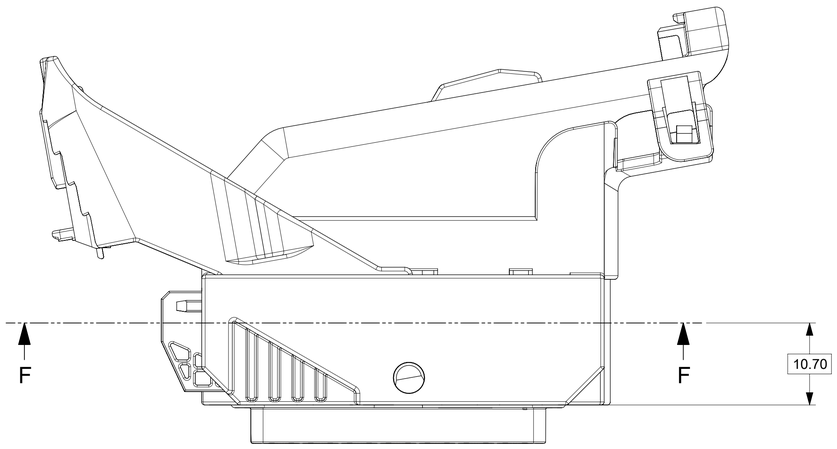
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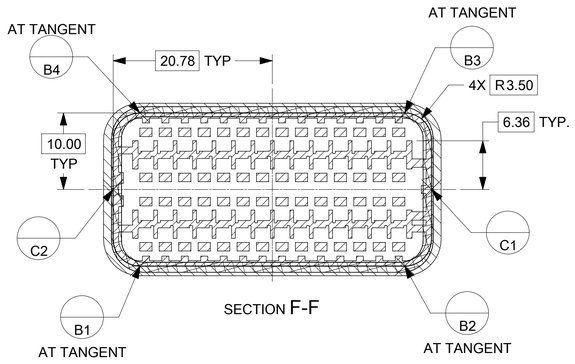
DATUM TARGETS





SECTION E-E





SECTION F-F

THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX ELECTRONIC TECHNOLOGIES, LLC AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION

EC NO:	685152
DRWN:	HKANG03
CHK'D:	STTAN
APPR:	STTAN
REV	A8

2021/11/12
2021/11/16
2021/11/16

GENERAL TOLERANCES (UNLESS SPECIFIED)

ANGULAR TOL ±	°
4 PLACES	±
3 PLACES	±
2 PLACES	±
1 PLACE	±
0 PLACES	±

DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS

DIMENSION UNITS	mm
SCALE	2.5:1
DRWN BY	APODDATURI
DATE	2017/04/03
CHK'D BY	SKRAJENDRANA
DATE	2017/04/03
APPR BY	VKOSHY
DATE	2017/06/06
DRAWING SIZE	A1
THIRD ANGLE PROJECTION	

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PRODUCT CUSTOMER DRAWING

SERIES	MATERIAL NUMBER	CUSTOMER
160099		

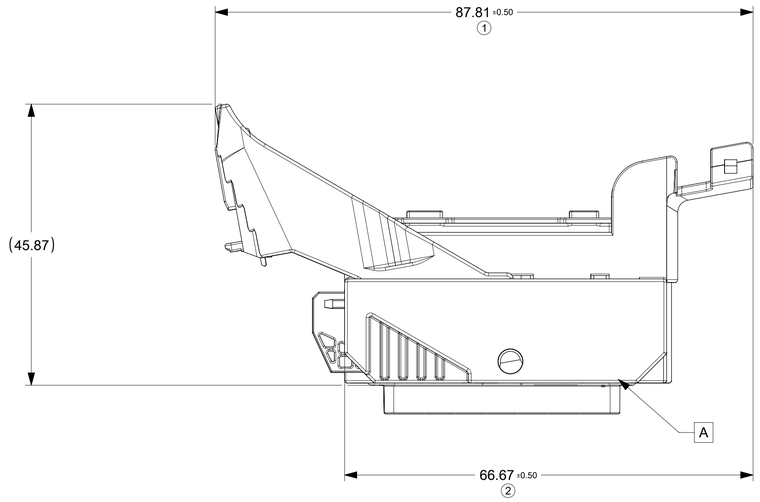
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RELEASE STATUS	P1	RELEASE DATE	2021/11/16 03:27:51

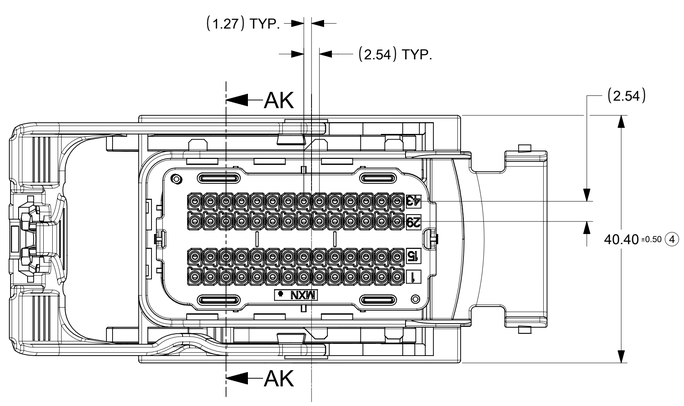
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REVISION: G
DATE: 2016/10/12

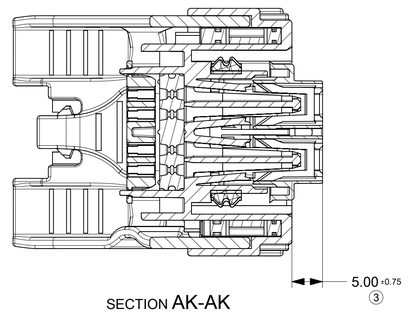
SHEET DESCRIPTION

PACKAGING DIMENSIONS -TYPE 1

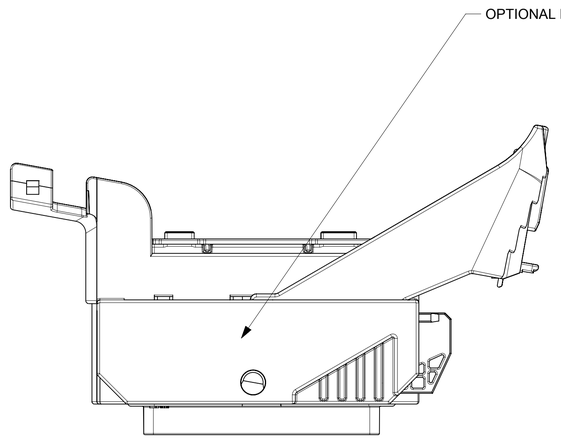


PRE LOCK





SECTION AK-AK



THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX ELECTRONIC TECHNOLOGIES, LLC AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION

EC NO: 685152	2021/11/12		
DRWN: HKANG03	2021/11/16		
CHK'D: STTAN	2021/11/16		
APPR: STTAN			
REV: A8	GENERAL TOLERANCES (UNLESS SPECIFIED)	DIMENSION UNITS: mm	SCALE: 2:1
	ANGULAR TOL ± °	DRWN BY: APODDATURI	DATE: 2017/04/03
	4 PLACES ±	CHK'D BY: SKRAJENDRANA	DATE: 2017/04/03
	3 PLACES ±	APPR BY: VKOSHY	DATE: 2017/06/06
	2 PLACES ±	DRAWING SIZE: A1	THIRD ANGLE PROJECTION
	1 PLACE ±		
	0 PLACES ±		
	DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		

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PRODUCT CUSTOMER DRAWING

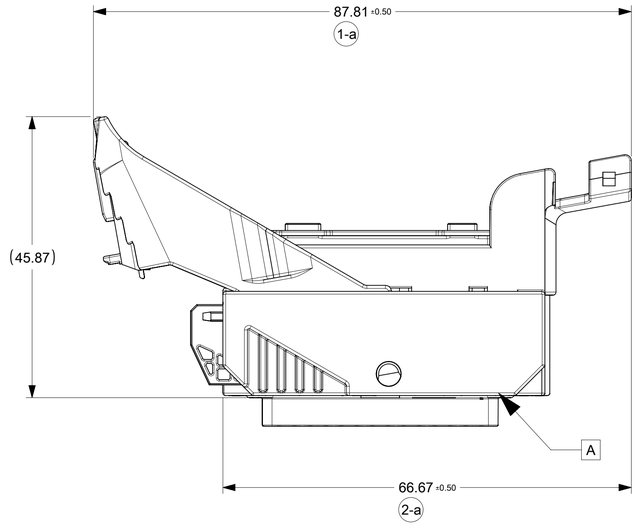
SERIES	MATERIAL NUMBER	CUSTOMER
160099		

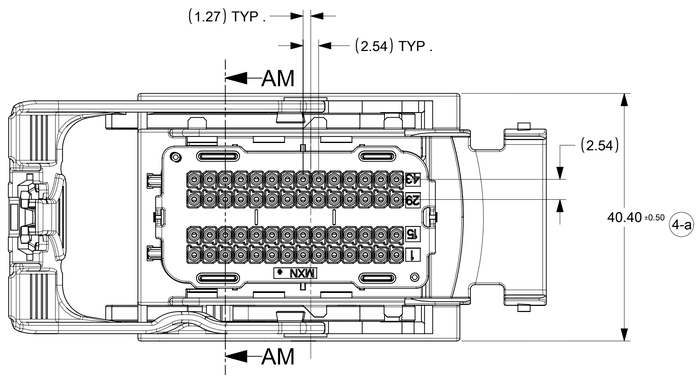
DOCUMENT NUMBER	DOC TYPE	DOC PART	SHEET NUMBER
1600990001-SD	PSD	000	6 OF 17

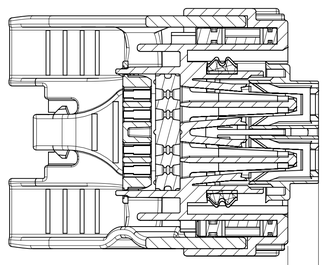
RELEASE STATUS	P1	RELEASE DATE	2021/11/16 03:27:51

SHEET DESCRIPTION

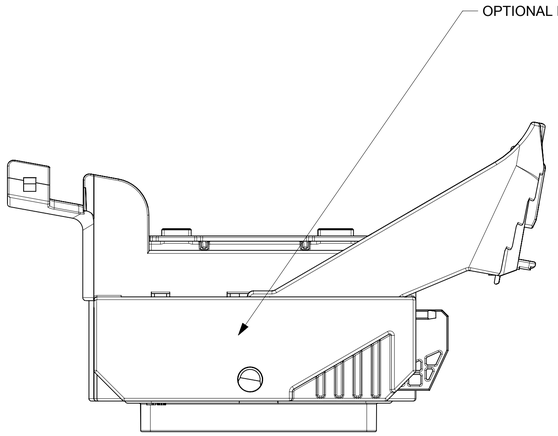
PACKAGING DIMENSIONS -TYPE 2







SECTION AM-AM



THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX ELECTRONIC TECHNOLOGIES, LLC AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION

EC NO: 685152	2021/11/12	GENERAL TOLERANCES (UNLESS SPECIFIED)	
DRWN: HKANG03	2021/11/16		
CHK'D: STTAN	2021/11/16		
APPR.: STTAN			
		ANGULAR TOL ±	°
		4 PLACES	±
		3 PLACES	±
		2 PLACES	±
		1 PLACE	±
		0 PLACES	±
		DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS	
A8	REV		

DIMENSION UNITS	mm
SCALE	2:1
DRWN BY	APODDATURI
DATE	2017/04/03
CHK'D BY	SKRAJENDRANA
DATE	2017/04/03
APPR BY	VKOSHY
DATE	2017/06/06
DRAWING SIZE	A1
THIRD ANGLE PROJECTION	

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PRODUCT CUSTOMER DRAWING

SERIES	MATERIAL NUMBER	CUSTOMER
160099		

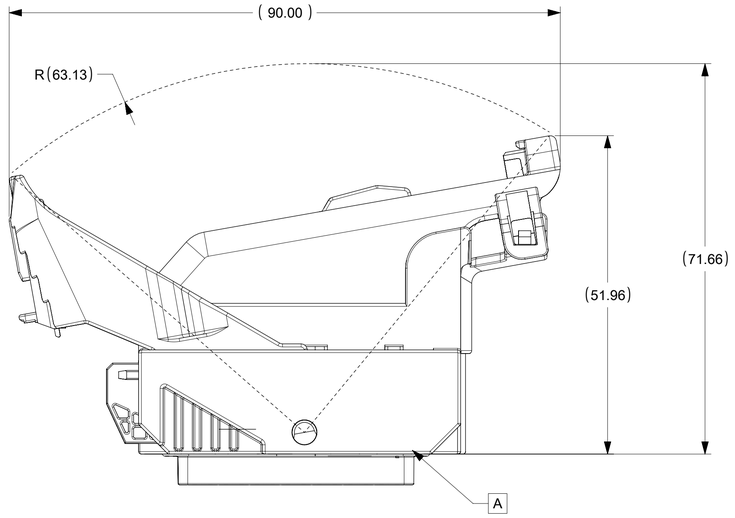
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1600990001-SD	PSD	000	7 OF 17

RELEASE STATUS	P1	RELEASE DATE	2021/11/16 03:27:51

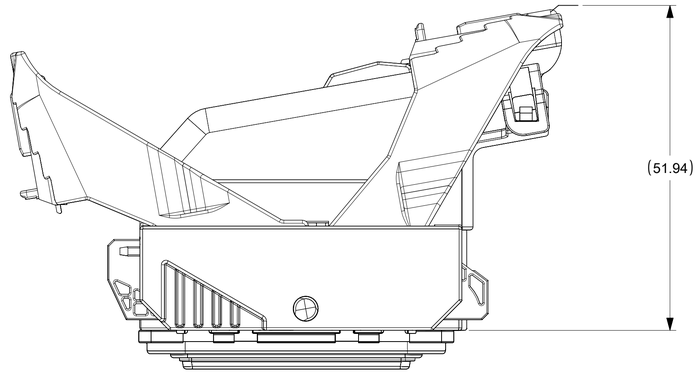
FORMAT_molex-tb-prod-A1
DATE: 2019-10-11
DATE: 2019-10-14

SHEET DESCRIPTION

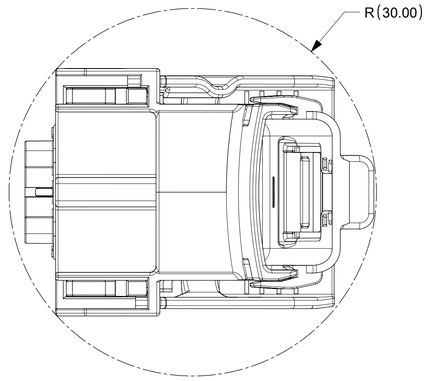
RECEPTACLE PACKAGING



PRE LOCK



FINAL LOCK



MINIMUM SIZE HOLE TO PASS THROUGH

THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX ELECTRONIC TECHNOLOGIES, LLC AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION

EC NO:	685152
DRWN:	HKANG03
CHK'D:	STTAN
APPR:	STTAN
	2021/11/12
	2021/11/16
	2021/11/16

GENERAL TOLERANCES (UNLESS SPECIFIED)

ANGULAR TOL ±	°
4 PLACES	±
3 PLACES	±
2 PLACES	±
1 PLACE	±
0 PLACES	±

DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS

REV: A8

DIMENSION UNITS: mm

SCALE: 2:1

DRWN BY: APODDATURI DATE: 2017/04/03

CHK'D BY: SKRAJENDRANA DATE: 2017/04/03

APPR BY: VKOSHY DATE: 2017/06/06

DRAWING SIZE: A1

THIRD ANGLE PROJECTION

molex®

SDC56 56CKT HRNS CONN ASSY

PRODUCT CUSTOMER DRAWING

SERIES	MATERIAL NUMBER	CUSTOMER
160099		

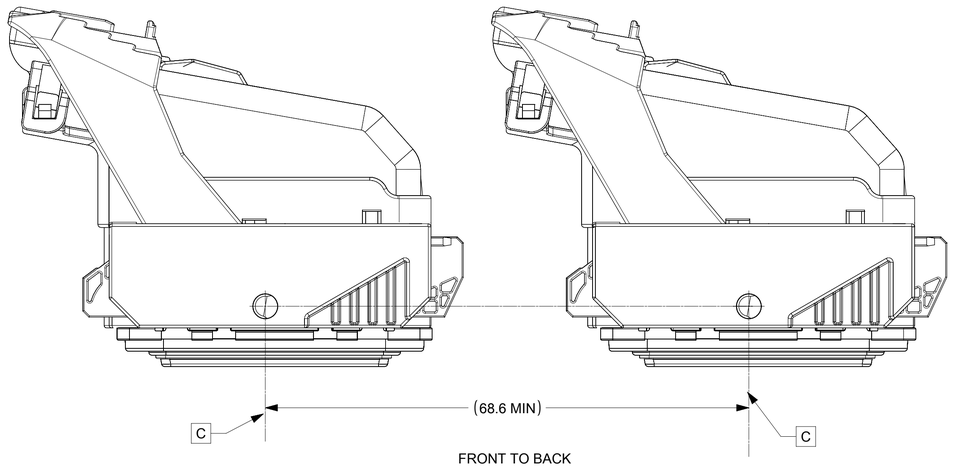
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RELEASE STATUS	P1	RELEASE DATE	2021/11/16 03:27:51

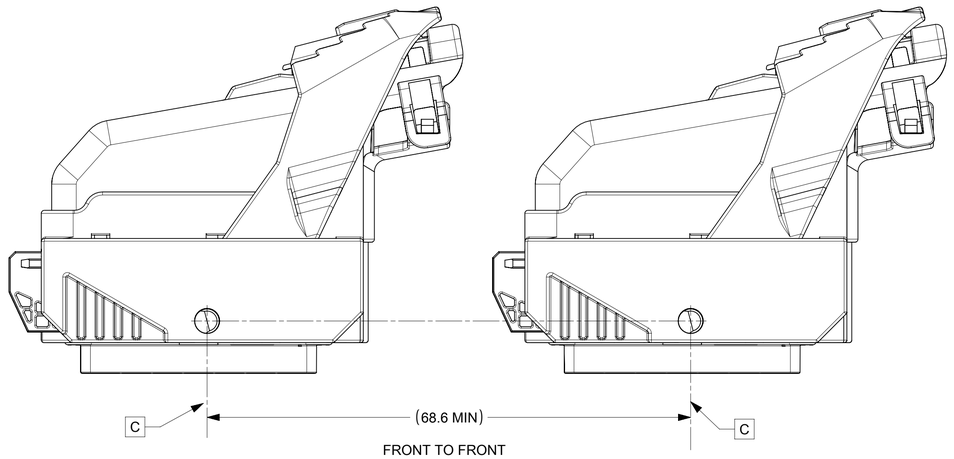
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DATE: 2019/10/14

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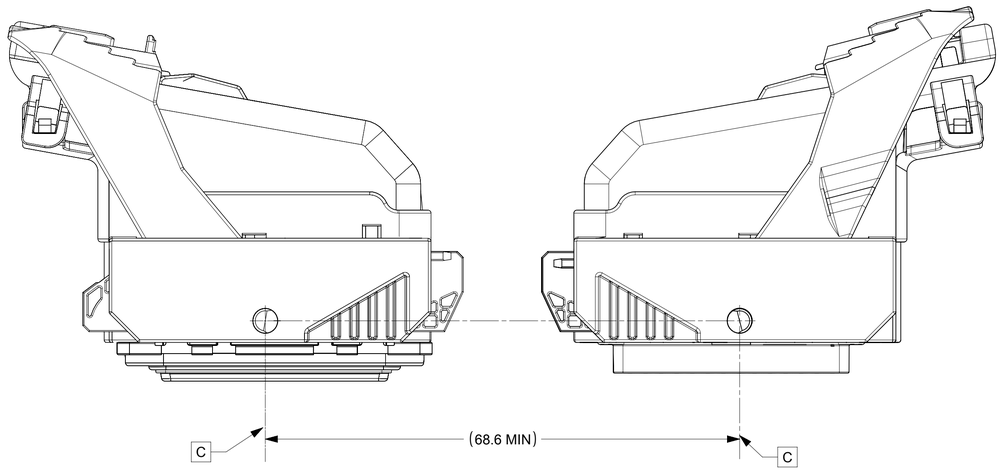
RECEPTACLE PACKAGING



FRONT TO BACK



FRONT TO FRONT



BACK TO BACK

THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX ELECTRONIC TECHNOLOGIES, LLC AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION

EC NO: 685152	2021/11/12	GENERAL TOLERANCES (UNLESS SPECIFIED)	
DRWN: HKANG03	2021/11/16		
CHK'D: STTAN	2021/11/16		
APPR: STTAN		ANGULAR TOL ± °	
		4 PLACES ±	
		3 PLACES ±	
		2 PLACES ±	
		1 PLACE ±	
		0 PLACES ±	
REV: A8		DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS	

DIMENSION UNITS	mm
SCALE	5:1
DRWN BY	APODDATURI
DATE	2017/04/03
CHK'D BY	SKRAJENDRANA
DATE	2017/04/03
APPR BY	VKOSHY
DATE	2017/06/06
DRAWING SIZE	A1
THIRD ANGLE PROJECTION	

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SDC56 56CKT HRNS CONN ASSY

PRODUCT CUSTOMER DRAWING

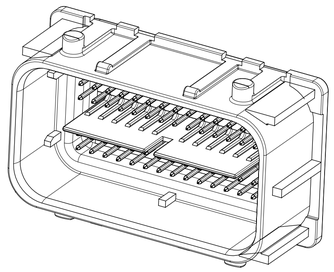
SERIES	MATERIAL NUMBER	CUSTOMER
160099		

DOCUMENT NUMBER	DOC TYPE	DOC PART	SHEET NUMBER
1600990001-SD	PSD	000	9 OF 17

RELEASE STATUS	P1	RELEASE DATE	2021/11/16 03:27:51

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SHEET NO.	SHEET DESCRIPTION
9	NOTES AND BOM
10	CONFIGURATIONS
11	POLARIZATION
12	DATUM TARGETS
13-14	INTERFACE PARTITION DEFINITION
15-16	CONNECTOR PARTITION DEFINITION

MATING INTERFACE CHART					
DESCRIPTION	KEY OPTION	CIRCUIT SIZE	SERIES#	COLOUR	STATUS
56 CKTs, KEY G, BLUE OPTION 0	KEY G	56	160099	BLUE	CONCEPT ONLY
56 CKTs, KEY H, STONE GRAY OPTION 0	KEY H	56	160099	STONE GRAY	CONCEPT ONLY
56 CKTs, KEY J, BLACK OPTION 0	KEY J	56	160099	BLACK	CONCEPT ONLY
56 CKTs, KEY K, BROWN OPTION 0	KEY K	56	160099	BROWN	CONCEPT ONLY
56 CKTs, KEY L, GREEN OPTION 0	KEY L	56	160099	GREEN	CONCEPT ONLY
56 CKTs, KEY M, NATURAL OPTION 0	KEY M	56	160099	NATURAL	CONCEPT ONLY



SCALE 2:1

NOTES: VALID UNLESS OTHERWISE SPECIFIED

1. GENERAL:

a. FLAMMABILITY REQUIREMENT: PER ISO3795 OR GM3191
   1. BURN RATE 100mm/MIN MAXIMUM
   2. MATERIAL MUST BE SELF EXTINGUISHING

b. REFER TO "SAE/USCAR 12 CONNECTOR GUIDELINES" FOR ADDITIONAL REQUIREMENTS.

2. DESIGN - MATERIALS:

a. HOUSING: SPS/NYLON 30% GLASS FILLED OR EQUIVALENT
b. BLADE TERMINAL: FOR MATERIAL, DIMENSIONAL, AND COATING REQUIREMENTS AND ANY BLADE TERMINAL DESIGN INFORMATION NOT SHOWN ON THIS DRAWING SEE EWCAP DRW. NO. EWCAP-001
   PLATING:
   UNDERPLATING: ELECTRO-DEPOSITED NICKEL 1.27-2.24 MICROMETERS
   TOP LAYER: ELECTRO-DEPOSITED SILVER 1.90-3.30 MICROMETERS
   ANTI-TARNISH FOR Ag PLATING ONLY: SYTHETIC HYDROCARBON CONTACT SURFACE FINISH OR EQUIVALENT APPLIED WITHOUT VOID TO CONTACT AREA (MIN. 3.7mm FROM PIN TIP).
c. STANDARD COLORS FOR POLARIZATION (SEE CHART). DEVATION REQUIRES APPROVAL OF AUTHORIZED PERSON.

3. DESIGN - GEOMETRY:

a. THE 3-D CAD DATA IS BASIC (WITHOUT TOLERANCE) AND THE MASTER FOR THIS PART WITH THE EXCEPTION OF UNDERLINED DIMENSIONS. DIMENSIONAL INFORMATION NOT SHOWN IN THIS DRAWING IS DEFINED BY THE DATA FILE AT ITS LATEST REVISION.
b. PRODUCT DESIGN MODEL NUMBER(S): SEE MATING INTERFACE CHART
c. GEOMETRIC DIMENSIONS AND TOLERANCES PER ASME Y14.5M - 2009
d. GENERAL TOLERANCES: SEE TITLE BLOCK
e. EDGES AND UNDIMENSIONED DETAILS PER ISO13715
f. CORNERS SHOWN AS SHARP TO BE R 0.2 MAX.
g. 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.
   (for small parts: LETTERING SHALL BE 0.10 MAX RAISED IN 0.15 MAX RECESS PAD)

4. DESIGN - MANUFACTURING:

a. ALLOWABLE FLASH MAX 0.20 HIGH BY MAX 0.13 THICK.
b. ALLOWABLE SPLIT/PARTING LINE MISMATCH 0.2 MAX.
c. EJECTOR PIN MARKS TO BE FLUSH TO 0.25 MAX DEPRESSED. LOCATION MUST BE APPROVED BY PRODUCT ENGINEERING. EJECTOR PIN MARKS NOT PERMISSIBLE ON OR NEAR DATUM TARGET AREA.
d. ALLOWABLE GATE VESTIGE FLUSH TO 0.25 MAX RECESS. LOCATION MUST BE APPROVED BY PRODUCT ENGINEERING.
e. NO EXTERNAL MOLD RELEASE AGENT ALLOWED DURING MANUFACTURING.
f. NO PARTING LINES, MISMATCHES OR EJECTOR MARKS PERMISSIBLE WITHIN THE INDICATED SURFACE. TOOLING FOR INDICATED SURFACE MUST BE PROCESSED TO A SURFACE FINISH OF NTMA #70 (400 PAPER) OR SPI D-3 OR CHARMILLES 16.
g. BLADE TERMINAL ENVIRONMENTAL BARRIER (WHERE SPECIFIED ON BOM) SHALL NOT BE PRESENT ON ANY SURFACE OTHER THAN THE BLADE TERMINALS

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EC NO: 685152
DRWN: HKANG03
CHK'D: STTAN
APPR: STTAN
2021/11/12
2021/11/16
2021/11/16

GENERAL TOLERANCES (UNLESS SPECIFIED)
ANGULAR TOL ± °
4 PLACES ±
3 PLACES ±
2 PLACES ±
1 PLACE ±
0 PLACES ±
DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS

DIMENSION UNITS: mm
SCALE: 2:1
DRWN BY: APODDATURI DATE: 2017/04/03
CHK'D BY: SKRAJENDRANA DATE: 2017/04/03
APPR BY: VKOSHY DATE: 2017/06/06
DRAWING SIZE: A1
THIRD ANGLE PROJECTION

REV: A8

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SDC56 56CKT HRNS CONN ASSY

PRODUCT CUSTOMER DRAWING

SERIES	MATERIAL NUMBER	CUSTOMER
160099		

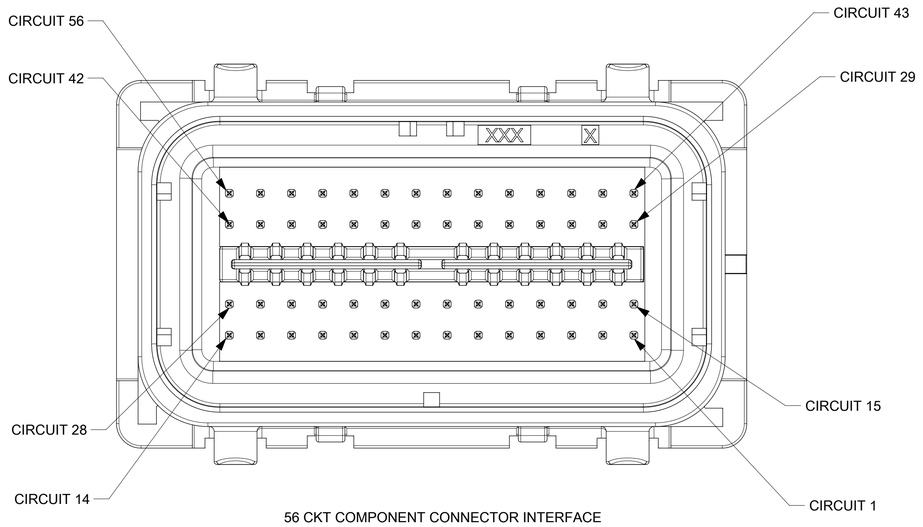
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1600990001-SD	PSD	000	10 OF 17

RELEASE STATUS	P1	RELEASE DATE	2021/11/16 03:27:51

CONNECT_HARNESS.DWG
REVISION: G
DATE: 2017/06/06

SHEET DESCRIPTION

CONFIGURATIONS



56 CKT COMPONENT CONNECTOR INTERFACE

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EC NO: 685152
DRWN: HKANG03 2021/11/12
CHK'D: STTAN 2021/11/16
APPR: STTAN 2021/11/16

GENERAL TOLERANCES (UNLESS SPECIFIED)

ANGULAR TOL ±	°
4 PLACES	±
3 PLACES	±
2 PLACES	±
1 PLACE	±
0 PLACES	±

DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS

REV: A8

DIMENSION UNITS: mm
SCALE: 1:1
DRWN BY: APODDATURI DATE: 2017/04/03
CHK'D BY: SKRAJENDRANA DATE: 2017/04/03
APPR BY: VKOSHY DATE: 2017/06/06
DRAWING SIZE: A1
THIRD ANGLE PROJECTION

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SDC56 56CKT HRNS CONN ASSY

PRODUCT CUSTOMER DRAWING

SERIES	MATERIAL NUMBER	CUSTOMER
160099		

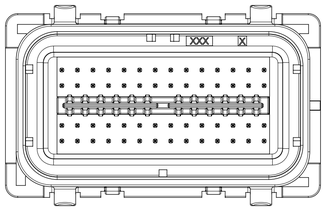
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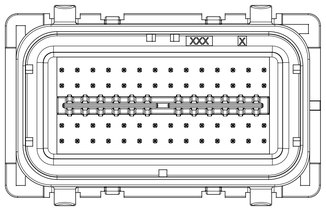
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Rev M: 2017/03/09

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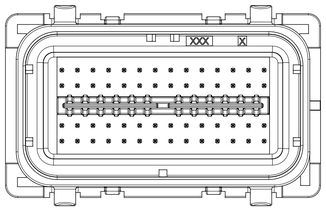
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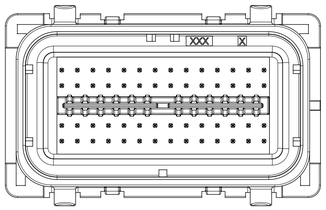
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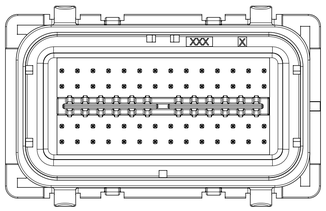
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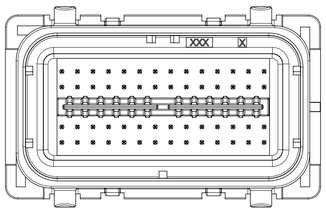
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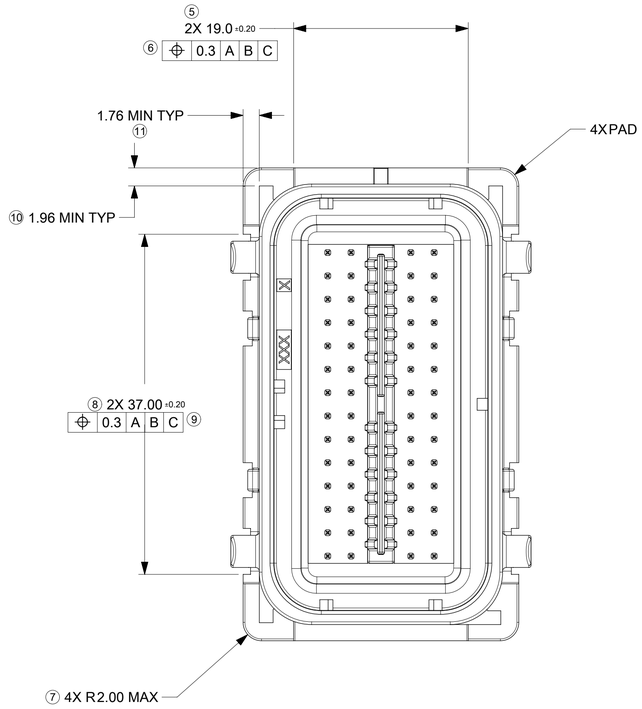
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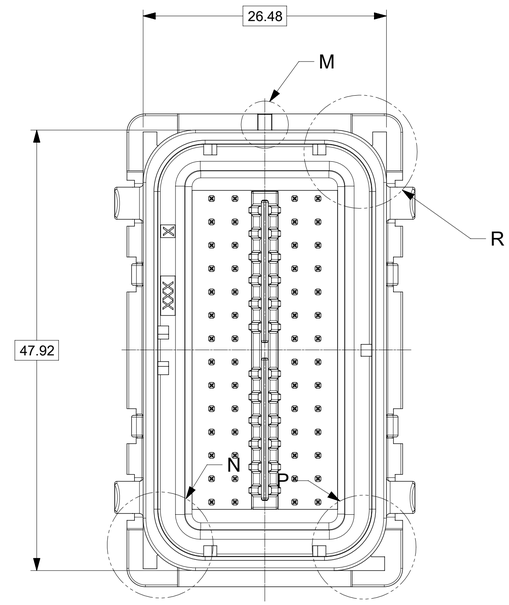


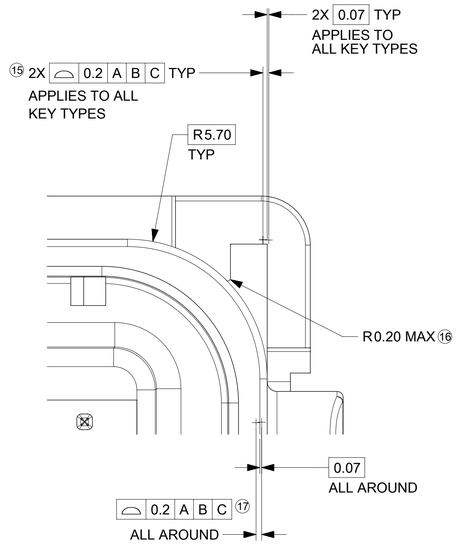
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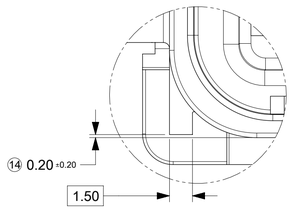
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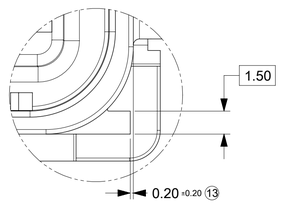




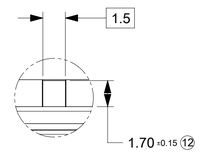
DETAIL R
SCALE 8:1



DETAIL N
SCALE 5:1



DETAIL P
SCALE 5:1



DETAIL M
SCALE 5:1

THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX ELECTRONIC TECHNOLOGIES, LLC AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION

2021/11/12	GENERAL TOLERANCES (UNLESS SPECIFIED)	DIMENSION UNITS: mm	SCALE: 1:1
2021/11/16		DRWN BY: APODDATURI	DATE: 2017/04/03
2021/11/16	ANGULAR TOL ± °	CHK'D BY: SKRAJENDRANA	DATE: 2017/04/03
	4 PLACES ±	APPR BY: VKOSHY	DATE: 2017/06/06
	3 PLACES ±	DRAWING SIZE: A1	THIRD ANGLE PROJECTION
	2 PLACES ±		
	1 PLACE ±		
	0 PLACES ±		
EC NO: 685152	DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		
DRWN: HKANG03			
CHK'D: STTAN			
APPR: STTAN			
REV: A8			

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SDC56 56CKT HRNS CONN ASSY

PRODUCT CUSTOMER DRAWING

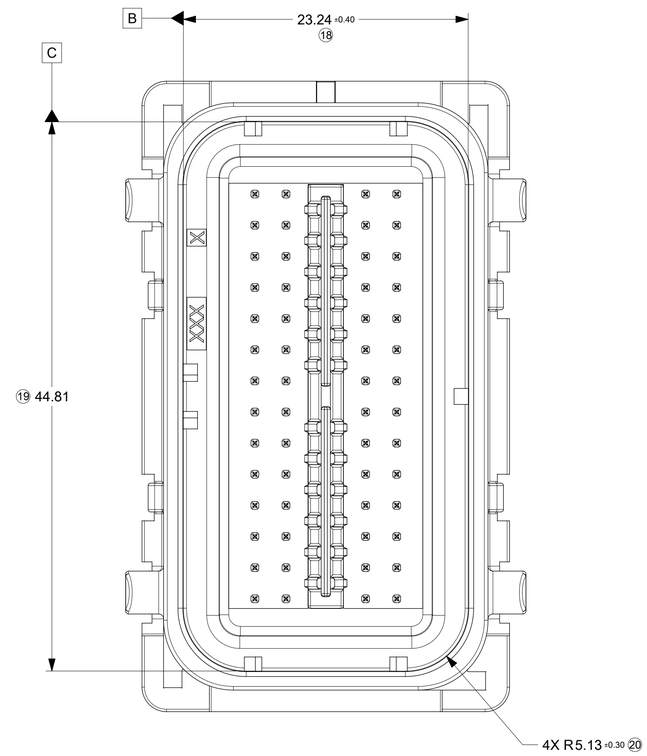
SERIES	MATERIAL NUMBER	CUSTOMER
160099		

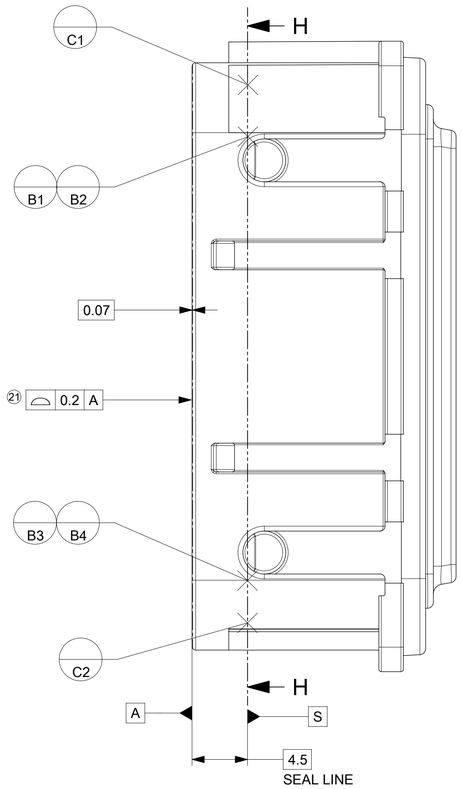
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1600990001-SD	PSD	000	12 OF 17

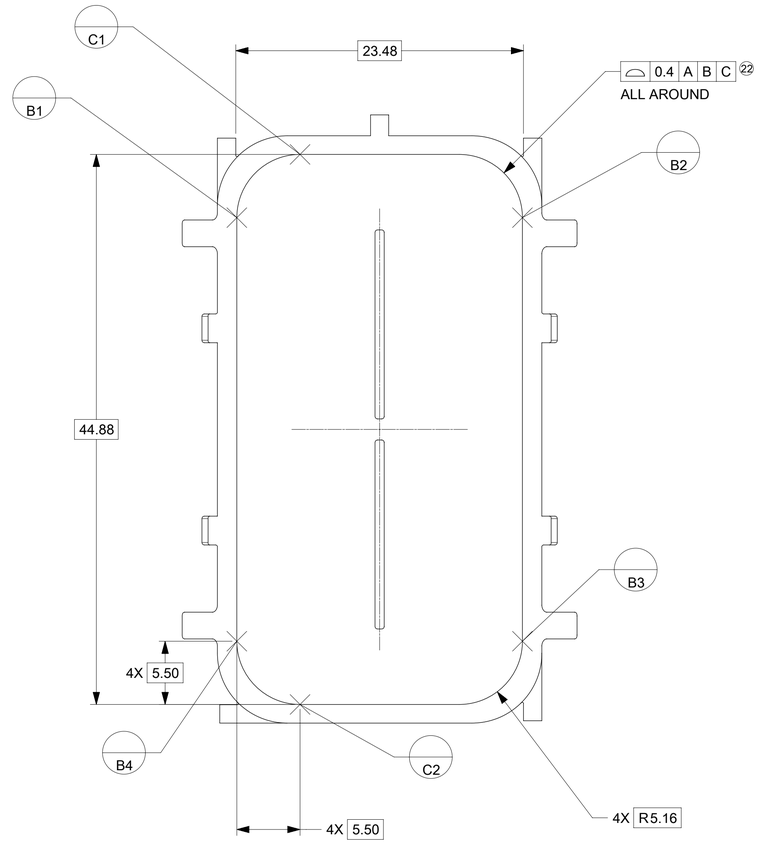
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CONTENT OWNER DOCUMENT ID:
REVISION ID:
DATE: 2017/04/03

SHEET DESCRIPTION
DATUM TARGETS







SECTION H-H

UNLESS SPECIFIED, TOLERANCE OF THE DEVICE INTERFACE TO BE 0.13 A B C

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EC NO: 685152
DRWN: HKANG03 2021/11/12
CHK'D: STTAN 2021/11/16
APPR: STTAN 2021/11/16

GENERAL TOLERANCES (UNLESS SPECIFIED)

ANGULAR TOL ±	°
4 PLACES	±
3 PLACES	±
2 PLACES	±
1 PLACE	±
0 PLACES	±

DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS

REV: A8

DIMENSION UNITS: mm
SCALE: 2:1
DRWN BY: APODDATURI DATE: 2017/04/03
CHK'D BY: SKRAJENDRANA DATE: 2017/04/03
APPR BY: VKOSHY DATE: 2017/06/06
DRAWING SIZE: A1
THIRD ANGLE PROJECTION

molex®

SDC56 56CKT HRNS CONN ASSY

PRODUCT CUSTOMER DRAWING

SERIES	MATERIAL NUMBER	CUSTOMER
160099		

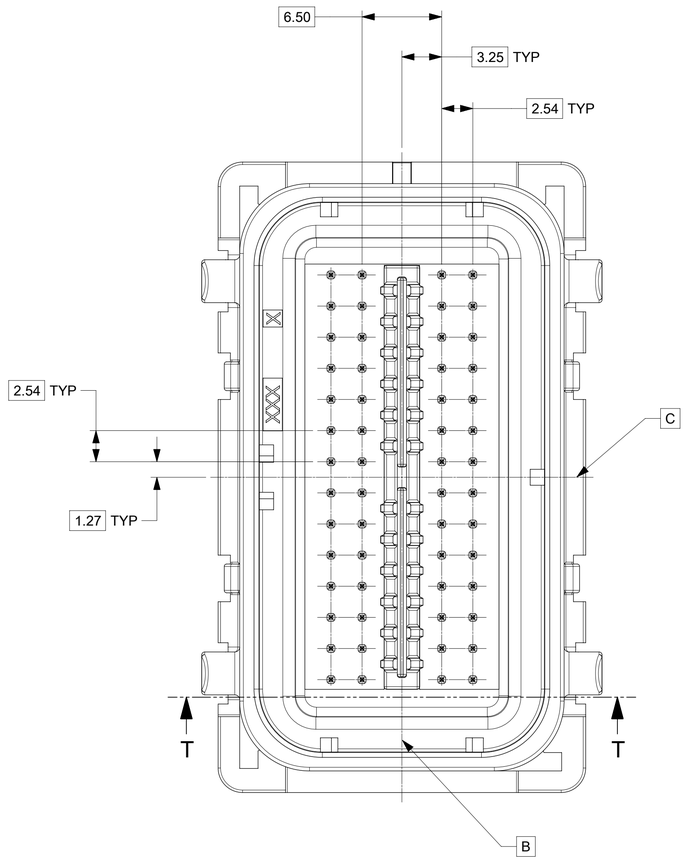
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1600990001-SD	PSD	000	13 OF 17

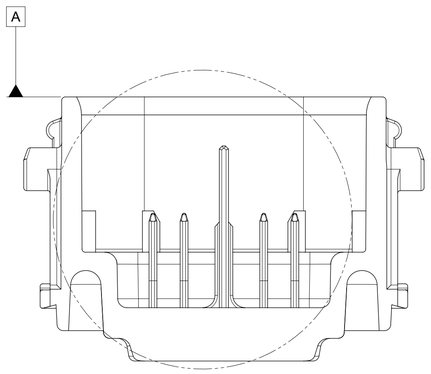
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REVISION: G
DATE: 2017/06/06

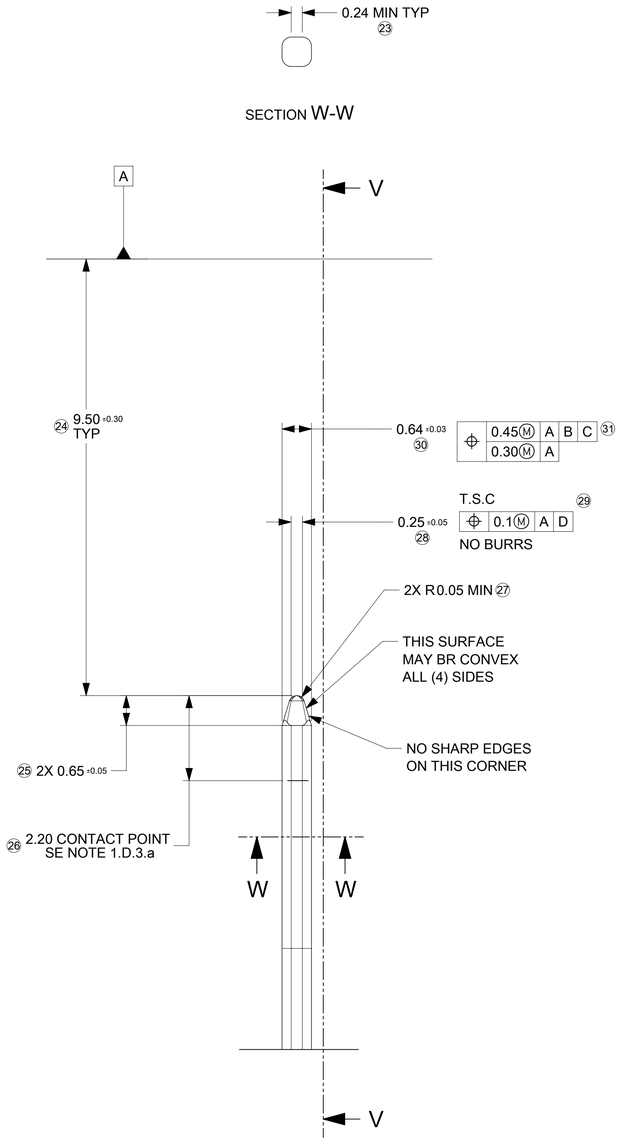
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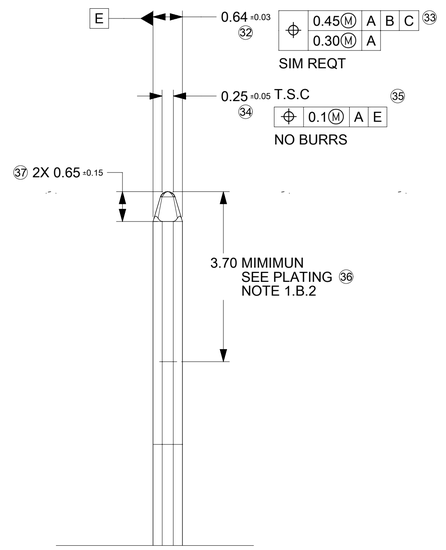
INTERFACE PARTITION DEFINITION





SECTION T-T





DETAIL U
SCALE 15:1

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EC NO: 685152
DRWN: HKANG03 2021/11/12
CHK'D: STTAN 2021/11/16
APPR: STTAN 2021/11/16

GENERAL TOLERANCES (UNLESS SPECIFIED)

ANGULAR TOL ± °	
4 PLACES	±
3 PLACES	±
2 PLACES	±
1 PLACE	±
0 PLACES	±

DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS

REV: A8

DIMENSION UNITS: mm
SCALE: 1:1
DRWN BY: APODDATURI DATE: 2017/04/03
CHK'D BY: SKRAJENDRANA DATE: 2017/04/03
APPR BY: VKOSHY DATE: 2017/06/06
DRAWING SIZE: A1
THIRD ANGLE PROJECTION

molex®

SDC56 56CKT HRNS CONN ASSY

PRODUCT CUSTOMER DRAWING

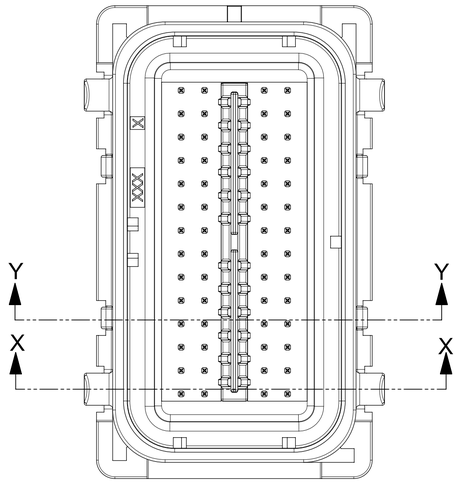
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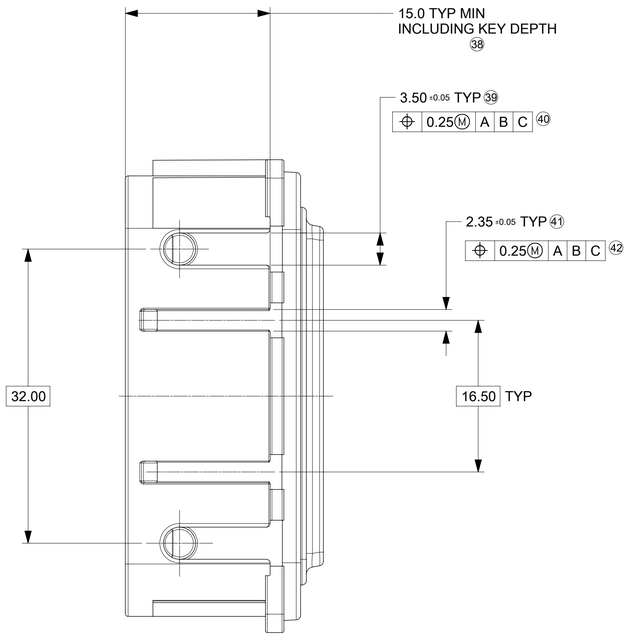
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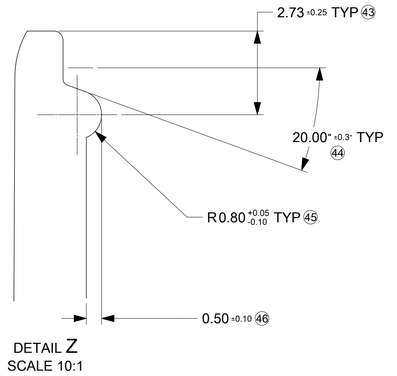
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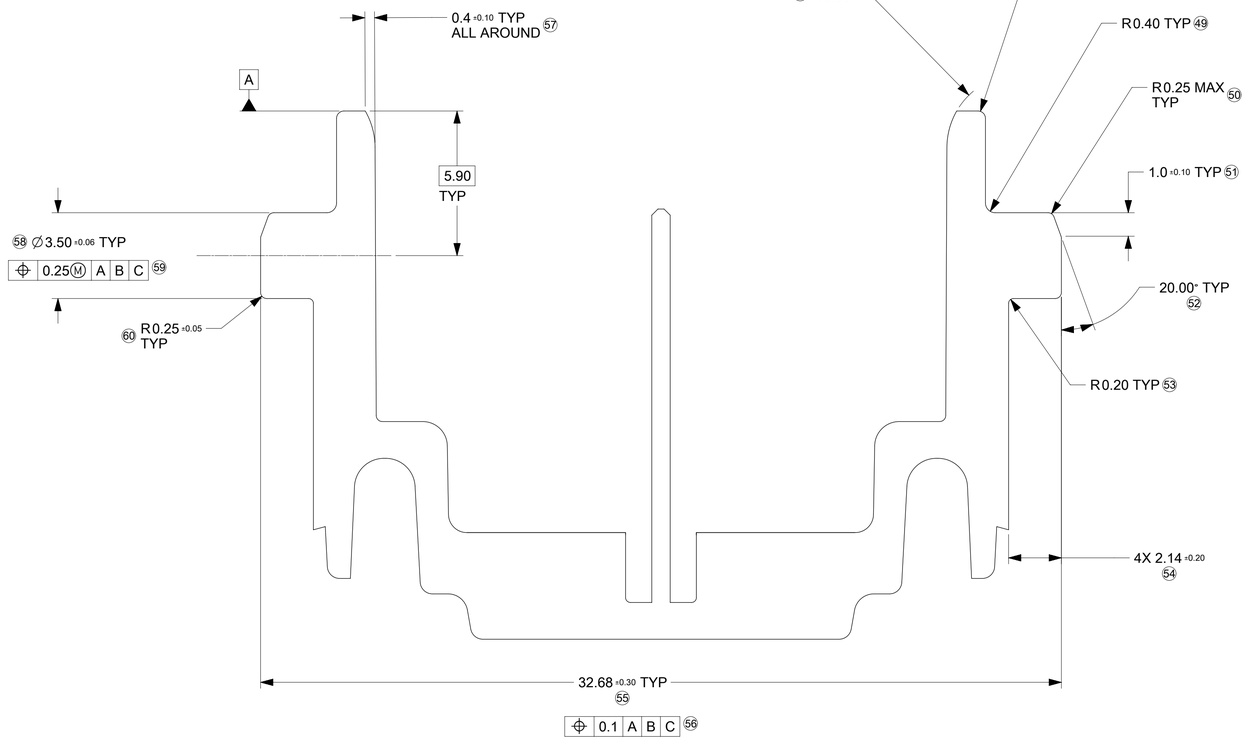
INTERFACE PARTITION DEFINITION



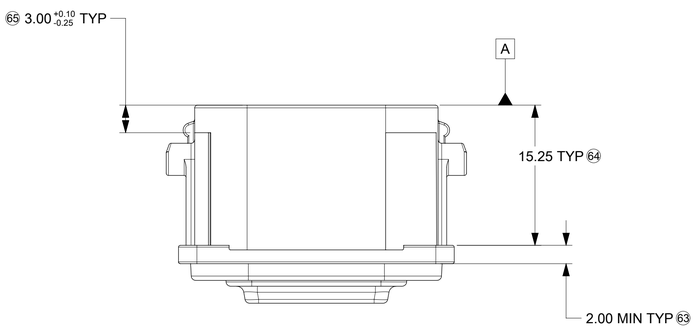


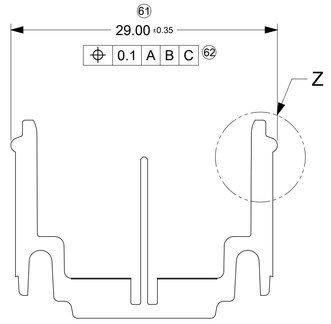


DETAIL Z
SCALE 10:1



SECTION X-X
(CAM POST)





SECTION Y-Y

THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX ELECTRONIC TECHNOLOGIES, LLC AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION

EC NO: 685152	2021/11/12	GENERAL TOLERANCES (UNLESS SPECIFIED)	
DRWN: HKANG03	2021/11/16	ANGULAR TOL ± °	
CHK'D: STTAN	2021/11/16	4 PLACES ±	
APPR: STTAN		3 PLACES ±	
		2 PLACES ±	
		1 PLACE ±	
		0 PLACES ±	
REV: A8		DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS	

DIMENSION UNITS	mm
SCALE	1:1
DRWN BY	APODDATURI
DATE	2017/04/03
CHK'D BY	SKRAJENDRANA
DATE	2017/04/03
APPR BY	VKOSHY
DATE	2017/06/06
DRAWING SIZE	A1
THIRD ANGLE PROJECTION	

molex®

SDC56 56CKT HRNS CONN ASSY

PRODUCT CUSTOMER DRAWING

SERIES	MATERIAL NUMBER	CUSTOMER
160099		

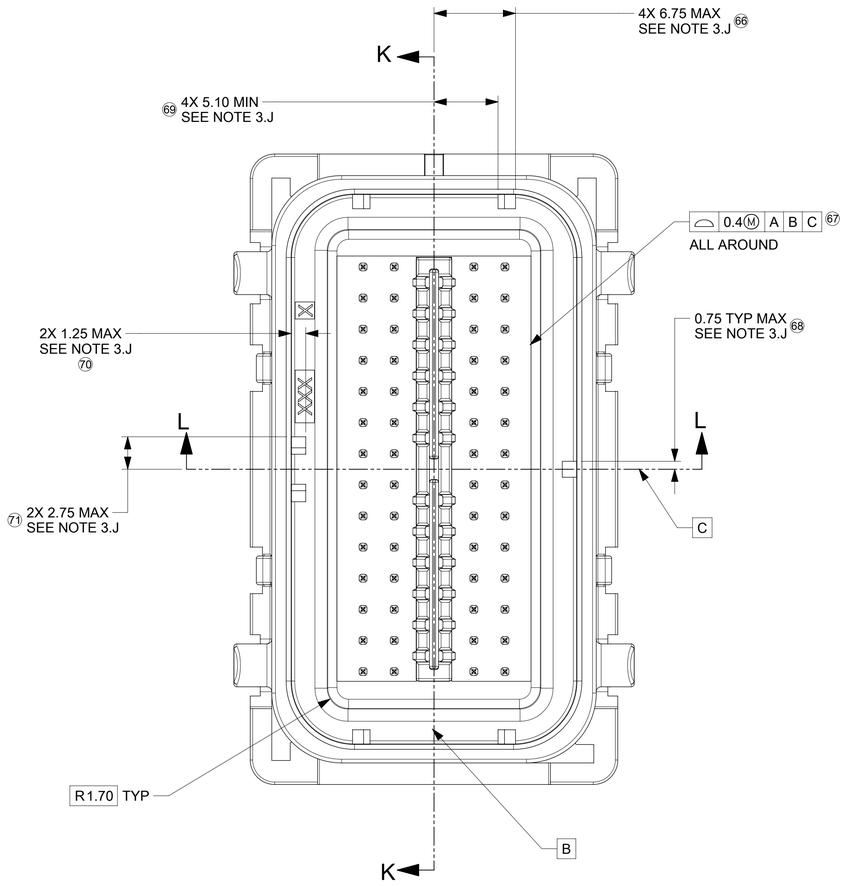
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1600990001-SD	PSD	000	15 OF 17

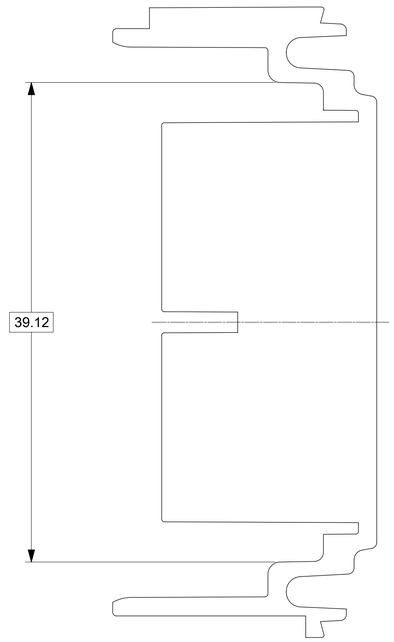
RELEASE STATUS	P1	RELEASE DATE	2021/11/16 03:27:51

FORMAT: master-fp-prod-A1
REVISION: N
DATE: 2017/02/06

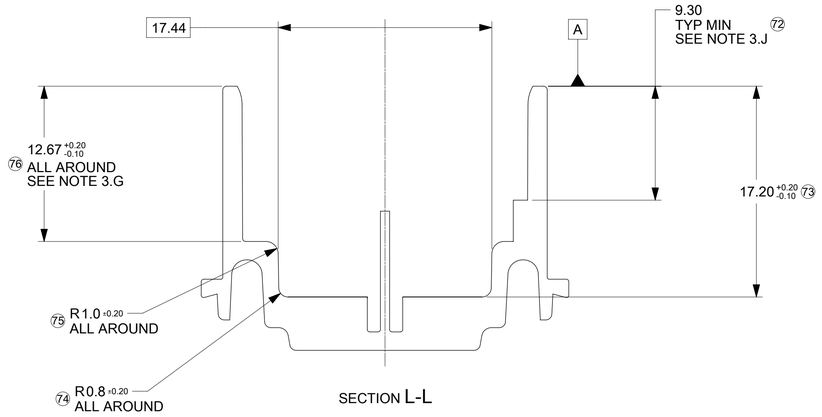
SHEET DESCRIPTION

CONNECTOR PARTITION DEFINITION





SECTION K-K



SECTION L-L

THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX ELECTRONIC TECHNOLOGIES, LLC AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION

EC NO:	685152
DRWN:	HKANG03
CHK'D:	STTAN
APPR:	STTAN
	2021/11/12
	2021/11/16
	2021/11/16

GENERAL TOLERANCES (UNLESS SPECIFIED)

ANGULAR TOL ±	°
4 PLACES	±
3 PLACES	±
2 PLACES	±
1 PLACE	±
0 PLACES	±

DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS

DIMENSION UNITS	mm
SCALE	1:1
DRWN BY	APODDATURI
DATE	2017/04/03
CHK'D BY	SKRAJENDRANA
DATE	2017/04/03
APPR BY	VKOSHY
DATE	2017/06/06
DRAWING SIZE	A1
	THIRD ANGLE PROJECTION

molex®

SDC56 56CKT HRNS CONN ASSY

PRODUCT CUSTOMER DRAWING

SERIES	MATERIAL NUMBER	CUSTOMER
160099		

DOCUMENT NUMBER	DOC TYPE	DOC PART	SHEET NUMBER
1600990001-SD	PSD	000	16 OF 17

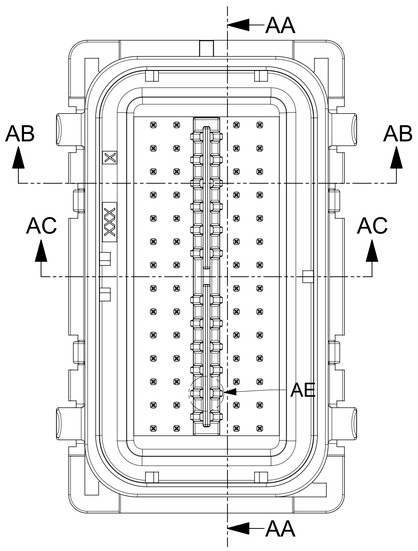
A8 REV

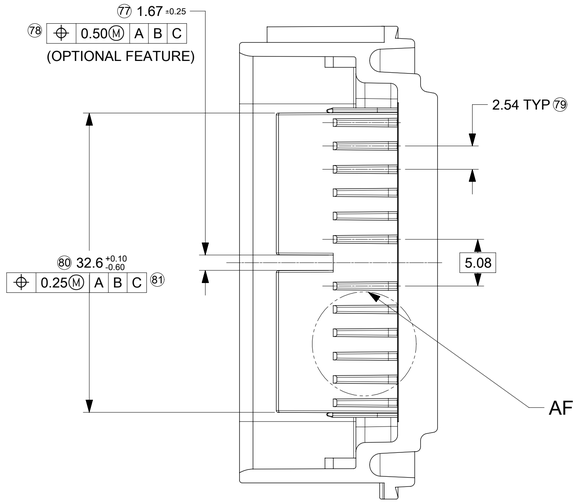
RELEASE STATUS	P1	RELEASE DATE	2021/11/16 03:27:51

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REVISION: G
DATE: 2017/03/06

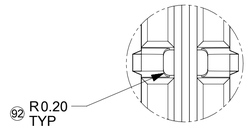
SHEET DESCRIPTION

CONNECTOR PARTITION DEFINITION - ANTI SCOOP RIB

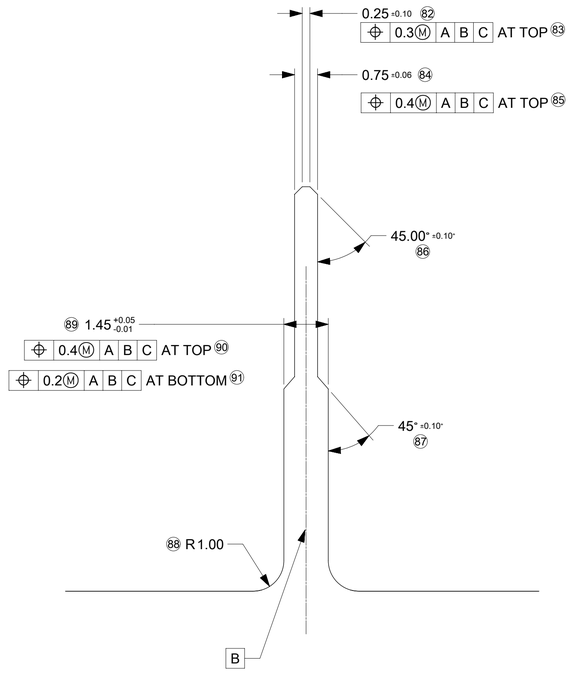




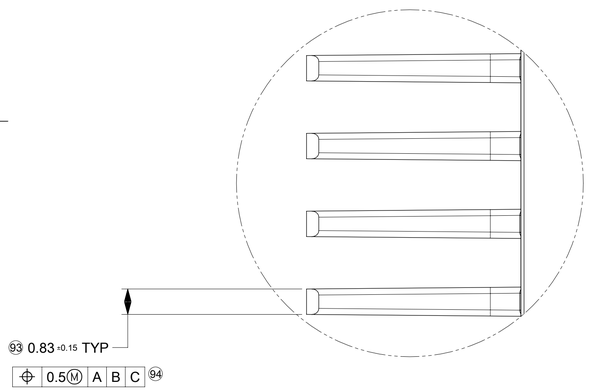
SECTION AA-AA



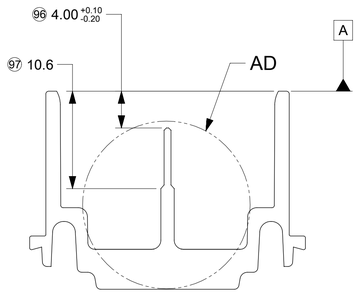
DETAIL AE
SCALE 10:1



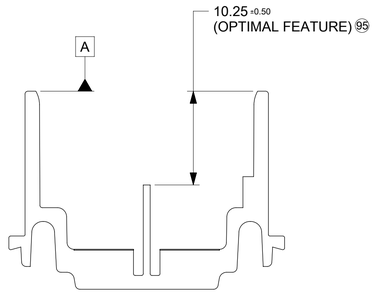
DETAIL AD
SCALE 10:1



DETAIL AF
SCALE 10:1



SECTION AB-AB



SECTION AC-AC

THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX ELECTRONIC TECHNOLOGIES, LLC AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION

EC NO: 685152	2021/11/12		
DRWN: HKANG03	2021/11/16		
CHK'D: STTAN	2021/11/16		
APPR: STTAN			

GENERAL TOLERANCES (UNLESS SPECIFIED)

ANGULAR TOL ±	°
4 PLACES	±
3 PLACES	±
2 PLACES	±
1 PLACE	±
0 PLACES	±

DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS

REV A8

DIMENSION UNITS	mm
SCALE	1:1
DRWN BY	APODDATURI
DATE	2017/04/03
CHK'D BY	SKRAJENDRANA
DATE	2017/04/03
APPR BY	VKOSHY
DATE	2017/06/06
DRAWING SIZE	A1
	THIRD ANGLE PROJECTION

molex®

SDC56 56CKT HRNS CONN ASSY

PRODUCT CUSTOMER DRAWING

SERIES	MATERIAL NUMBER	CUSTOMER
160099		

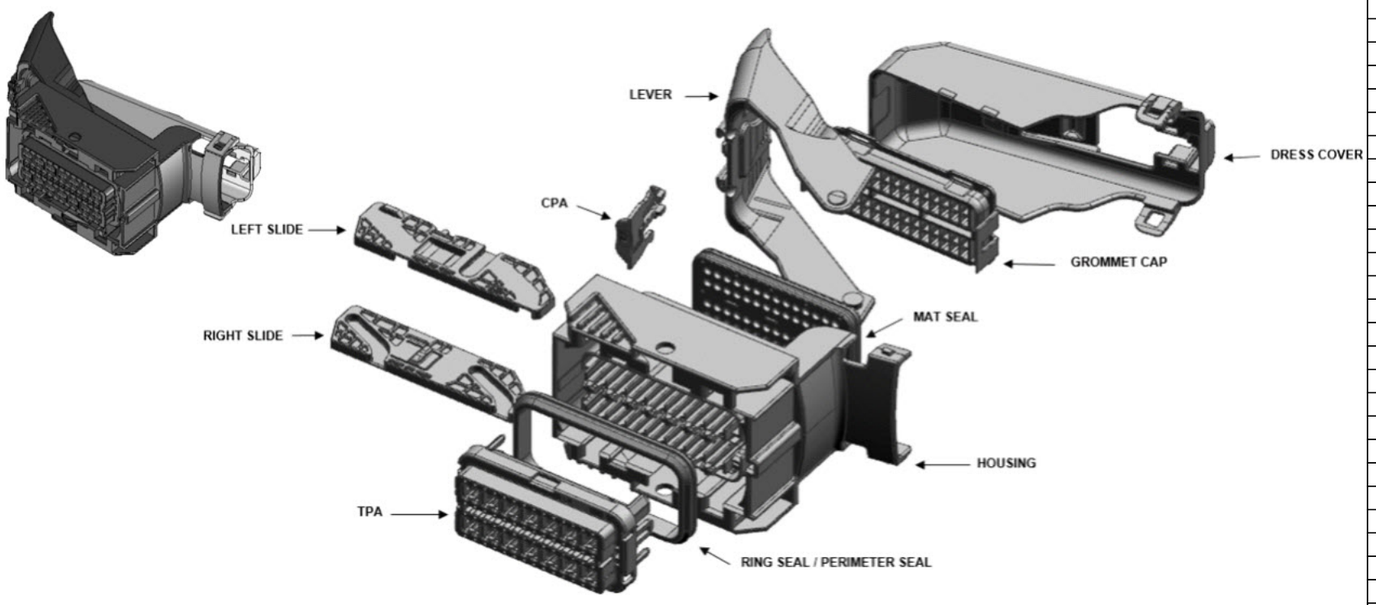
DOCUMENT NUMBER	DOC TYPE	DOC PART	SHEET NUMBER
1600990001-SD	PSD	000	17 OF 17

RELEASE STATUS	P1	RELEASE DATE	2021/11/16 03:27:51

FORMAT: molex-tb-prod-A1
REVISION: 1.0
DATE: 2017/03/09

molex

SDC56 SEALED RCPT ASSY (56 Ckt)
BOM & PIN OUT SHEET



ABBREVIATION	DESCRIPTION	COLOR	MATERIAL
G-CAP-0	GROMMET CAP OPTION 0	BLACK	SPS/NYLON GF30
G-CAP-9	GROMMET CAP OPTION 9	BLACK	SPS/NYLON GF30
C-HSG-G0	CONNECTOR HOUSING KEY G - WDC OPT 0	BLACK	SPS/NYLON GF30
C-HSG-H0	CONNECTOR HOUSING KEY H - WDC OPT 0	BLACK	SPS/NYLON GF30
C-HSG-J0	CONNECTOR HOUSING KEY J - WDC OPT 0	BLACK	SPS/NYLON GF30
C-HSG-K0	CONNECTOR HOUSING KEY K- WDC OPT 0	BLACK	SPS/NYLON GF30
C-HSG-M0	CONNECTOR HOUSING KEY M - WDC OPT 0	BLACK	SPS/NYLON GF30
C-HSG-G9	CONNECTOR HOUSING KEY G - WDC OPT 9	BLACK	SPS/NYLON GF30
C-HSG-H9	CONNECTOR HOUSING KEY H - WDC OPT 9	BLACK	SPS/NYLON GF30
C-HSG-J9	CONNECTOR HOUSING KEY J - WDC OPT 9	BLACK	SPS/NYLON GF30
C-HSG-K9	CONNECTOR HOUSING KEY K - WDC OPT 9	BLACK	SPS/NYLON GF30
C-HSG-M9	CONNECTOR HOUSING KEY M - WDC OPT 9	BLACK	SPS/NYLON GF30
C-HSG-Z0	CONNECTOR HOUSING KEY UNIVERSAL - WDC OPT 0	BLACK	SPS/NYLON GF30
C-HSG-Z9	CONNECTOR HOUSING KEY UNIVERSAL - WDC OPT 9	BLACK	SPS/NYLON GF30
TPA-G0	TERMINAL POSITION ASSURANCE (TPA) OPTION 0	BLUE	SPS/NYLON GF30
TPA-H0	TERMINAL POSITION ASSURANCE (TPA) OPTION 0	STONE GRAY	SPS/NYLON GF30
TPA-J0	TERMINAL POSITION ASSURANCE (TPA) OPTION 0	BLACK	SPS/NYLON GF30
TPA-K0	TERMINAL POSITION ASSURANCE (TPA) OPTION 0	GRAY	SPS/NYLON GF30
TPA-M0	TERMINAL POSITION ASSURANCE (TPA) OPTION 0	NATURAL	SPS/NYLON GF30
TPA-G9	TERMINAL POSITION ASSURANCE (TPA) OPTION 9	BLUE	SPS/NYLON GF30
TPA-H9	TERMINAL POSITION ASSURANCE (TPA) OPTION 9	STONE GRAY	SPS/NYLON GF30
TPA-J9	TERMINAL POSITION ASSURANCE (TPA) OPTION 9	BLACK	SPS/NYLON GF30
TPA-K9	TERMINAL POSITION ASSURANCE (TPA) OPTION 9	GRAY	SPS/NYLON GF30
TPA-M9	TERMINAL POSITION ASSURANCE (TPA) OPTION 9	NATURAL	SPS/NYLON GF30
MAL	MATE ASSIST LEVER	BLACK	SPS/NYLON GF30
MAL-1	MATE ASSIST LEVER - CONCEPT 1	BLACK	SPS/NYLON GF30
MAL-2	MATE ASSIST LEVER - CONCEPT 2	BLACK	SPS/NYLON GF30
MAL-3	MATE ASSIST LEVER - CONCEPT 3	BLACK	SPS/NYLON GF30
MAL-4	MATE ASSIST LEVER - CONCEPT 4	BLACK	SPS/NYLON GF30
RS	SLIDE - RIGHT	BLACK	PPE/PA 30% GF BLACK UL94HB
LS	SLIDE - LEFT	BLACK	PPE/PA 30% GF BLACK UL94HB
CVR YELLOW	DRESS COVER	YELLOW	PBT POLYESTER 30% GF YELLOW UL94HB
CPA	CONNECTOR POSITION ASSURANCE (CPA)	RED	PPE/PA 10% GF NATURAL UL94HB
MSEAL	MAT SEAL	RUST RED	INHERENTLY LUBRICATED SILICONE RUBBER
RSEAL	RING SEAL	RUST RED	INHERENTLY LUBRICATED SILICONE RUBBER

ASSEMBLY DESCRIPTION	ASSEMBLY PART NUMBER	CONNECTOR HOUSING	GROMMET CAP	TPA	RIGHT SLIDE	LEFT SLIDE	MATE ASSIST LEVER	CPA	MAT SEAL	RING SEAL	BLOCKED TERMINALS CAVITY WITH A NUMBER INDICATES BLOCKED TERMINAL POSITION CAVITY WITHOUT A NUMBER INDICATES OPEN TERMINAL POSITION	STATUS	COMMENTS	INTEGRAL COMPONENTS SOLD SEPARATELY DRESS COVER
SDC56 ASSY RCPT 56CKT BLU OPT 0 KEY G/56	1600990007	C-HSG-G0	G-CAP-0	TPA-G0	RS	LS	MAL	CPA	MSEAL	RSEAL	- -	SALEABLE		1600995001
SDC56 ASSY RCPT 56CKT GRY OPT 0 KEY H/56	1600990008	C-HSG-H0	G-CAP-0	TPA-H0	RS	LS	MAL	CPA	MSEAL	RSEAL	- -	SALEABLE		1600995001
SDC56 ASSY RCPT 56CKT BLK OPT 0 KEY J/56	1600990009	C-HSG-J0	G-CAP-0	TPA-J0	RS	LS	MAL	CPA	MSEAL	RSEAL	- -	SALEABLE		1600995001
SDC56 ASSY RCPT 56CKT 0 KEY K/56	1600990010	C-HSG-K0	G-CAP-0	TPA-K0	RS	LS	MAL	CPA	MSEAL	RSEAL	- -	CONCEPT		1600995001
SDC56 ASSY RCPT 56CKT NAT OPT 0 KEY M/56	1600990012	C-HSG-M0	G-CAP-0	TPA-M0	RS	LS	MAL	CPA	MSEAL	RSEAL	- -	SALEABLE		1600995001

SDC56 SEALED RCPT ASSY (56 Ckt)
BOM & PIN OUT SHEET

ASSEMBLY DESCRIPTION	ASSEMBLY PART NUMBER	CONNECTOR HOUSING	GROMMET CAP	TPA	RIGHT SLIDE	LEFT SLIDE	MATE ASSIST LEVER	CPA	MAT SEAL	RING SEAL	BLOCKED TERMINALS CAVITY WITH A NUMBER INDICATES BLOCKED TERMINAL POSITION CAVITY WITHOUT A NUMBER INDICATES OPEN TERMINAL POSITION	STATUS	COMMENTS	INTEGRAL COMPONENTS SOLD SEPARATELY DRESS COVER
SDC56 ASSY RCPT 56CKT BLU OPT 9 KEY G/56	1600990019	C-HSG-G9	G-CAP-9	TPA-G9	RS	LS	MAL	CPA	MSEAL	RSEAL	- -	SALEABLE		1600995001
SDC56 ASSY RCPT 56CKT GRY OPT 9 KEY H/56	1600990020	C-HSG-H9	G-CAP-9	TPA-H9	RS	LS	MAL	CPA	MSEAL	RSEAL	- -	SALEABLE		1600995001
SDC56 ASSY RCPT 56CKT BLK OPT 9 KEY J/56	1600990021	C-HSG-J9	G-CAP-9	TPA-J9	RS	LS	MAL	CPA	MSEAL	RSEAL	- -	SALEABLE		1600995001
SDC56 ASSY RCPT 56CKT 9 KEY K/56	1600990022	C-HSG-K9	G-CAP-9	TPA-K9	RS	LS	MAL	CPA	MSEAL	RSEAL	- -	CONCEPT		1600995001
SDC56 ASSY RCPT 56CKT NAT OPT 9 KEY M/56	1600990024	C-HSG-M9	G-CAP-9	TPA-M9	RS	LS	MAL	CPA	MSEAL	RSEAL	- -	SALEABLE		1600995001
SDC56 ASSY RCPT 56CKT GRY OPT 0 KEY H/47	1600990025	C-HSG-H0	G-CAP-0	TPA-H0	RS	LS	MAL	CPA	MSEAL	RSEAL	- - - - - - - 49 48 - - - - - - - - - - - - 35 34 - - - - - - - - - - - - 21 20 - - - - - - - 12 - - - - 7 6 - - - - -	SALEABLE		1600995001
SDC56 ASSY RCPT 56CKT BLK OPT 0 KEY J/21	1600990026	C-HSG-J0	G-CAP-0	TPA-J0	RS	LS	MAL	CPA	MSEAL	RSEAL	56 - 54 53 52 51 50 49 48 - - - - - 42 41 40 39 38 37 36 35 34 - - - - - 28 27 26 25 24 23 22 21 20 - - - - - 14 13 12 11 10 9 8 7 6 - - - - -	SALEABLE		1600995001
SDC56 ASSY RCPT 56CKT NAT OPT 0 KEY M/21	1600990027	C-HSG-M0	G-CAP-0	TPA-M0	RS	LS	MAL	CPA	MSEAL	RSEAL	56 - 54 53 52 51 50 49 48 - - - - - 42 41 40 39 38 37 36 35 34 - - - - - 28 27 26 25 24 23 22 21 20 - - - - - 14 13 12 11 10 9 8 7 6 - - - - -	SALEABLE		1600995001
SDC56 ASSY RCPT 56CKT BLU OPT 0 KEY G/40	1600990028	C-HSG-G0	G-CAP-0	TPA-G0	RS	LS	MAL	CPA	MSEAL	RSEAL	- - - - - - 50 49 48 47 - - - - - - - - - - - - - - 32 31 30 29 - - - - - - - - - - 18 17 16 15 - - - - 10 9 - - - - 4 3 - -	SALEABLE		1600995001
SDC56 ASSY RCPT 56CKT BLK OPT 0 KEY J/27	1600990029	C-HSG-J0	G-CAP-0	TPA-J0	RS	LS	MAL	CPA	MSEAL	RSEAL	- - - - - - 50 49 48 47 - - 44 43 - - - - - - 36 35 34 33 32 31 30 29 - - 26 - - - - - 20 19 18 17 16 15 - - - - - - 8 7 6 5 4 3 2 1	SALEABLE		1600995001
SDC56 ASSY RCPT 56CKT BLU OPT 0 KEY G/29	1600990030	C-HSG-G0	G-CAP-0	TPA-G0	RS	LS	MAL	CPA	MSEAL	RSEAL	- - - - 52 - - 49 48 - - 45 - - - 41 40 - - 37 36 35 34 - - 31 - - - - - - 24 23 22 21 20 19 18 17 16 15 - - - - - - - - 6 5 4 3 2 1	SALEABLE		1600995001
SDC56 ASSY RCPT 56CKT BLK OPT 0 KEY J/17	1600990031	C-HSG-J0	G-CAP-0	TPA-J0	RS	LS	MAL	CPA	MSEAL	RSEAL	56 55 - - - - 50 49 48 47 46 45 44 43 42 41 40 39 - - - - - - 32 31 30 29 28 27 26 - 24 23 22 21 20 19 18 17 16 15 - - - - 10 9 8 7 6 5 4 3 - -	SALEABLE		1600995001

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SDC56 SEALED RCPT ASSY (56 Ckt)
BOM & PIN OUT SHEET

ASSEMBLY DESCRIPTION	ASSEMBLY PART NUMBER	CONNECTOR HOUSING	GROMMET CAP	TPA	RIGHT SLIDE	LEFT SLIDE	MATE ASSIST LEVER	CPA	MAT SEAL	RING SEAL	BLOCKED TERMINALS CAVITY WITH A NUMBER INDICATES BLOCKED TERMINAL POSITION CAVITY WITHOUT A NUMBER INDICATES OPEN TERMINAL POSITION	STATUS	COMMENTS	INTEGRAL COMPONENTS SOLD SEPARATELY DRESS COVER
SDC56 ASSY RCPT 56CKT BLU OPT 0 KEY G/44	1600990032	C-HSG-G0	G-CAP-0	TPA-G0	RS	LS	MAL	CPA	MSEAL	RSEAL	- 28 27 - - 24 23 - - - - 18 17 16 15 - - - - 10 9 - - - - 4 3 - -	SALEABLE		1600995001
SDC56 ASSY RCPT 56CKT GRY OPT 0 KEY H/28	1600990033	C-HSG-H0	G-CAP-0	TPA-H0	RS	LS	MAL	CPA	MSEAL	RSEAL	56 55 - - - - 50 49 48 47 - - - - 42 41 - - - - - - - - 32 31 30 29 28 27 - - 24 23 22 21 20 19 18 17 16 15 - - - - 10 9 - - - - 4 3 - -	SALEABLE		1600995001
SDC56 ASSY RCPT 56CKT BLU OPT 0 KEY G/42	1600990034	C-HSG-G0	G-CAP-0	TPA-G0	RS	LS	MAL	CPA	MSEAL	RSEAL	- 32 31 30 29 - - - - - - 22 21 20 19 18 17 16 15 - - - - - - - - - - 4 3 - -	SALEABLE		1600995001
SDC56 ASSY RCPT 56CKT BLU OPT 9 KEY G/34	1600990035	C-HSG-G9	G-CAP-9	TPA-G9	RS	LS	MAL	CPA	MSEAL	RSEAL	- - - - - - - 49 48 - - 45 - - - 41 - - - - - - 34 - - 31 - - - - - - 24 23 22 21 20 19 18 17 16 15 - - - - - - - - 6 5 4 3 2 1	SALEABLE		1600995001
SDC56 ASSY RCPT 56CKT NAT OPT 0 KEY M/26	1600990036	C-HSG-M0	G-CAP-0	TPA-M0	RS	LS	MAL	CPA	MSEAL	RSEAL	- - - - - - 50 49 48 47 46 45 44 43 - - - - - - 36 35 34 33 32 31 30 29 - - - - - - - - 20 19 18 17 16 15 - - - - - - 8 7 6 5 4 3 2 1	SALEABLE		1600995001
SDC56 ASSY RCPT 56CKT BLK OPT 0 KEY J/46	1600990037	C-HSG-J0	G-CAP-0	TPA-J0	RS	LS	MAL	CPA	MSEAL	RSEAL	- - - - - - 50 49 48 47 - - - - - - - - - 37 36 - 8 7 6 5 - - - -	SALEABLE		1600995001
SDC56 ASSY RCPT 56CKT BLU OPT 0 KEY G/34	1600990038	C-HSG-G0	G-CAP-0	TPA-G0	RS	LS	MAL	CPA	MSEAL	RSEAL	- - - - - - - 49 48 - - 45 - - - 41 - - - - - - 34 - - 31 - - - - - - 24 23 22 21 20 19 18 17 16 15 - - - - - - - - 6 5 4 3 2 1	SALEABLE		1600995001
SDC56 ASSY RCPT 56CKT BLU OPT 0 KEY Z/56	1600991001	C-HSG-Z0	G-CAP-0	TPA-Z0	RS	LS	MAL	CPA	MSEAL	RSEAL	- -	SALEABLE		
SDC56 ASSY RCPT 56CKT BLU OPT 9 KEY Z/56	1600991002	C-HSG-Z9	G-CAP-9	TPA-Z9	RS	LS	MAL	CPA	MSEAL	RSEAL	- -	SALEABLE		
SDC56 ASSY RCPT 56CKT BLK OPT 0 KEY J/17	1600991003	C-HSG-J0	G-CAP-0	TPA-J0	RS	LS	MAL	CPA	MSEAL	RSEAL	56 55 - - - - 50 49 48 47 46 45 44 43 42 41 40 39 - - - - - - 32 31 30 29 28 27 26 - 24 23 22 21 20 19 18 17 16 15 - - - - 10 9 8 7 6 5 4 3 - -	SALEABLE		1600995001
SDC56 ASSY RCPT 56CKT GRY OPT 0 KEY H/28	1600991004	C-HSG-H0	G-CAP-0	TPA-H0	RS	LS	MAL	CPA	MSEAL	RSEAL	56 55 - - - - 50 49 48 47 - - - - 42 41 - - - - - - - - 32 31 30 29 28 27 - - 24 23 22 21 20 19 18 17 16 15 - - - - 10 9 - - - - 4 3 - -	SALEABLE		1600995001
SDC56 ASSY RCPT 56CKT BLU OPT 0 KEY G/30	1600991005	C-HSG-G0	G-CAP-0	TPA-G0	RS	LS	MAL	CPA	MSEAL	RSEAL	- - - - 52 - - 49 48 - - 45 - - - 41 40 - - 37 - 35 34 - - 31 - - - - - - 24 23 22 21 20 19 18 17 16 15 - - - - - - - - 6 5 4 3 2 1	SALEABLE		1600995001

molex

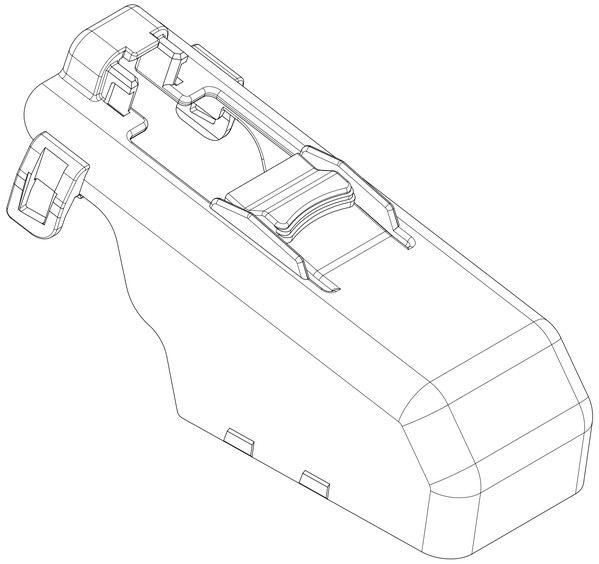
SDC56 SEALED RCPT ASSY (56 Ckt)
BOM & PIN OUT SHEET

ASSEMBLY DESCRIPTION	ASSEMBLY PART NUMBER	CONNECTOR HOUSING	GROMMET CAP	TPA	RIGHT SLIDE	LEFT SLIDE	MATE ASSIST LEVER	CPA	MAT SEAL	RING SEAL	BLOCKED TERMINALS CAVITY WITH A NUMBER INDICATES BLOCKED TERMINAL POSITION CAVITY WITHOUT A NUMBER INDICATES OPEN TERMINAL POSITION	STATUS	COMMENTS	INTEGRAL COMPONENTS SOLD SEPARATELY DRESS COVER
SDC56 ASSY RCPT 56CKT BLU OPT 0 KEY G/40	1600991006	C-HSG-G0	G-CAP-0	TPA-G0	RS	LS	MAL	CPA	MSEAL	RSEAL	- 28 27 - - 24 23 22 21 20 19 18 17 16 15 - - - - 10 9 - - - - 4 3 - -	SALEABLE		1600995001
SDC56 ASSY RCPT 56CKT BLK OPT 0 KEY J/19	1600991007	C-HSG-J0	G-CAP-0	TPA-J0	RS	LS	MAL	CPA	MSEAL	RSEAL	- - - - - - 50 49 48 47 46 45 44 43 - - - - - - 36 35 34 33 32 31 30 29 - - 26 - 24 - 22 21 20 19 18 17 16 15 - - - 11 10 9 8 7 6 5 4 3 2 1	SALEABLE		1600995001
SDC56 ASSY RCPT 56CKT BLU OPT 0 KEY G/30	1600991008	C-HSG-G0	G-CAP-0	TPA-G0	RS	LS	MAL	CPA	MSEAL	RSEAL	- - - - - 51 50 49 48 - - 45 - - - 41 - - - - 36 35 34 - - 31 - - - - - - 24 23 22 21 20 19 18 17 16 15 - - - - - - - - 6 5 4 3 2 1	SALEABLE		1600995001
SDC56 ASSY RCPT 56CKT BLK OPT 0 KEY J/19	1600991009	C-HSG-J0	G-CAP-0	TPA-J0	RS	LS	MAL	CPA	MSEAL	RSEAL	- - - - 52 51 50 49 48 47 46 45 44 43 - - - - 38 37 36 35 34 33 - - 30 29 - - 26 - 24 - 22 21 20 19 18 17 - - - - - 11 10 9 8 7 6 5 4 3 2 1	SALEABLE		1600995001
SDC56 ASSY RCPT 56CKT BLU OPT 0 KEY G/39	1600991010	C-HSG-G0	G-CAP-0	TPA-G0	RS	LS	MAL	CPA	MSEAL	RSEAL	- - - - 52 51 50 - - - 46 45 - 43 - - - - - - - - - 33 - - - - 28 27 26 - - - - 21 - - 18 17 - - 14 13 12 - - - - - - - - 3 - -	SALEABLE		1600995001
SDC56 ASSY RCPT 56CKT BLK OPT 9 KEY J/30	1600991011	C-HSG-J9	G-CAP-9	TPA-J9	RS	LS	MAL	CPA	MSEAL	RSEAL	- - - - - 51 50 49 48 - - 45 - - - 41 - - - - 36 35 34 - - 31 - - - - - - 24 23 22 21 20 19 18 17 16 15 - - - - - - - - 6 5 4 3 2 1	SALEABLE		1600995001
SDC56 ASSY RCPT 56CKT BLU OPT 0 KEY G/17	1600991012	C-HSG-G0	G-CAP-0	TPA-G0	RS	LS	MAL	CPA	MSEAL	RSEAL	56 55 54 53 - - - 49 48 47 - - 44 - 42 41 40 39 38 37 36 35 34 - 32 31 30 29 - - - 25 24 23 22 - 20 19 - - 16 15 - - - 11 10 9 8 7 6 5 4 - 2 1	SALEABLE		1600995001

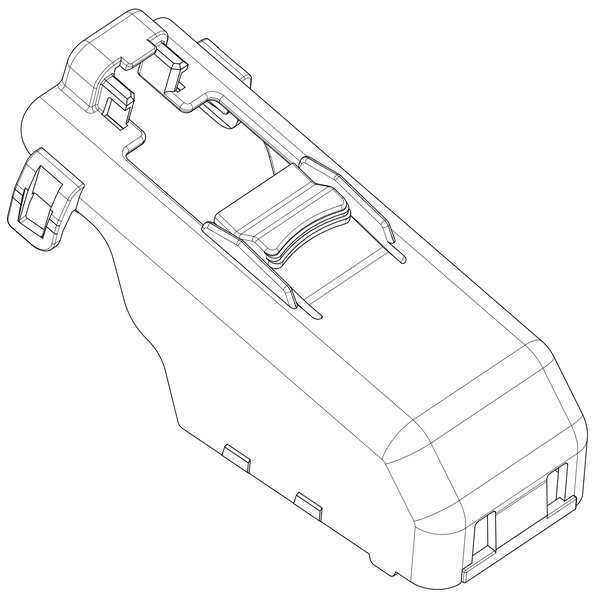
TABLE OF CONTENTS	
SHEET NO.	SHEET DESCRIPTION
1	NOTES AND BOM
2	DATUM TARGETS TYPE 2
3	DATUM TARGETS TYPE 1

BILL OF MATERIALS (BOM)

TYPE	DESCRIPTION	PART NUMBER	COLOR	MATERIAL	STATUS
1	ALL CKT, YELLOW	1600995001	YELLOW	PBT, G.F. 30%	SALEABLE
2	ALL CKT, YELLOW	1600995007	YELLOW	PBT, G.F. 30%	OK TO TOOL



TYPE 1



TYPE 2

NOTES: VALID UNLESS OTHERWISE SPECIFIED

1. GENERAL:
   a. APPLICATION SPECIFICATION SEE: AS-34566-001
      -CONTAINS: PRODUCT INTRODUCTION, PRODUCT SUMMARY, CONNECTOR ASSEMBLY, PACKAGING INFORMATION, CONNECTOR MATING, SERVICE INSTRUCTIONS, ELECTRICAL CONTINUITY CHECKING, CRIMPING, AND TROUBLESHOOTING.
   b. PRODUCT SPECIFICATION SEE: 1600990001-PS
      CONTAINS: PRODUCT INTRODUCTION, PRODUCT SUMMARY, RATINGS (CURRENT, TEMPERATURE, AND FLAMMABILITY), AND PRODUCT VALIDATION.
   c. PACKAGING SPECIFICATION PER MOLEX DRAWING: PK-31300-180
   d. PARTS MUST BE IN COMPLIANCE TO MOLEX CHEMICAL SUBSTANCES FOR PRODUCTS AND PACKAGING SPECIFICATION: QEHS-699000-300
   e. DATA MUST BE SUBMITTED UNDER THE MOLEX PART NUMBER TO IMDS (COMPANY ID#13255)

2. DESIGN - MATERIALS:
   a. SEE BOM TABLE / REGRIND 30% MAX BY WEIGHT

3. DESIGN - GEOMETRY:
   a. ALL GRAPHIC DATA IS BASIC (NO TOLERANCE) AND MUST BE TAKEN FROM THE DATA FILE AT ITS LATEST REVISION.
   b. GEOMETRIC DIMENSIONS AND TOLERANCES PER ASME Y14.5M-2009
   c. GENERAL TOLERANCES:
      LINEAR:
      X.X ±0.30
      X.XX ±0.10
      X.XXX ±0.10
      ANGULAR X° ±3°
   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: N/A

REV	DESCRIPTION
A6	UPDATED DESIGN FOR TYPE 2
A5	ADD P/N 1600995007
A4	CHANGED THE DOC TYPE TO GENERAL MARKET
A3	ADDED BALLOON NUMBERS
A2	UPDATED TOLERANCES BASED ON DIMENSIONAL REPORT
A1	PRODUCTION RELEASE
A	PRE-PRODUCTION RELEASE
1	INITAL RELEASE

QUALITY SYMBOLS
A = 0
E = 0
F = 0
▼ = 0
C = 0
☒ = 0
■ = 0
V = 0

EC NO: 685152
DRWN: HKANG03 2021/11/12
CHK'D: STTAN 2021/11/16
APPR: STTAN 2021/11/16
REV A6

GENERAL TOLERANCES (UNLESS SPECIFIED)
ANGULAR TOL ± °
4 PLACES ±
3 PLACES ±
2 PLACES ±
1 PLACE ±
0 PLACES ±
DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS

THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX ELECTRONIC TECHNOLOGIES, LLC AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION

DIMENSION UNITS: mm
SCALE: 4:1
DRWN BY: APODDATURI DATE: 2017/01/20
CHK'D BY: SKRAJENDRANA DATE: 2017/01/20
APPR BY: VKOSHY DATE: 2017/01/20
DRAWING SIZE: D
THIRD ANGLE PROJECTION

molex®

SDC56 56CKT DRESS COVER

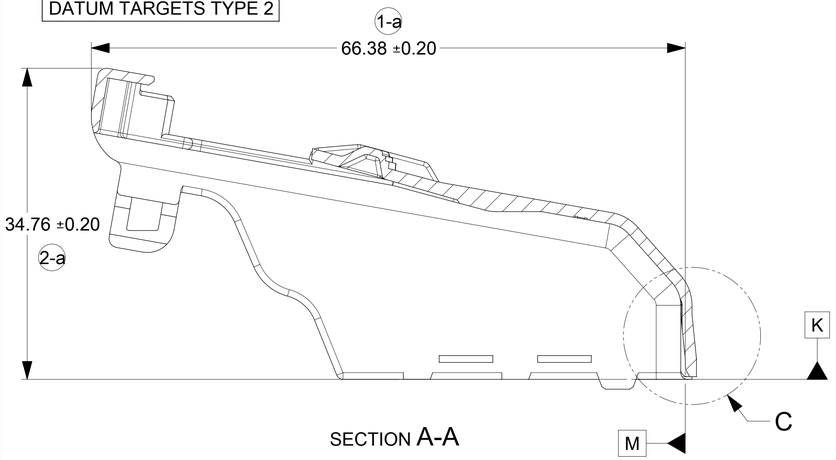
PRODUCT CUSTOMER DRAWING

SERIES	MATERIAL NUMBER	CUSTOMER
160099		

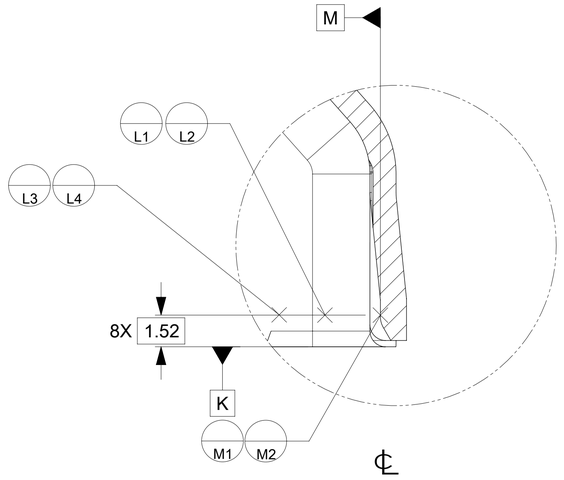
DOCUMENT NUMBER	DOC TYPE	DOC PART	SHEET NUMBER
1600995001-SD	PSD	000	1 OF 3

RELEASE STATUS	P1	RELEASE DATE	2021/11/16 03:27:51

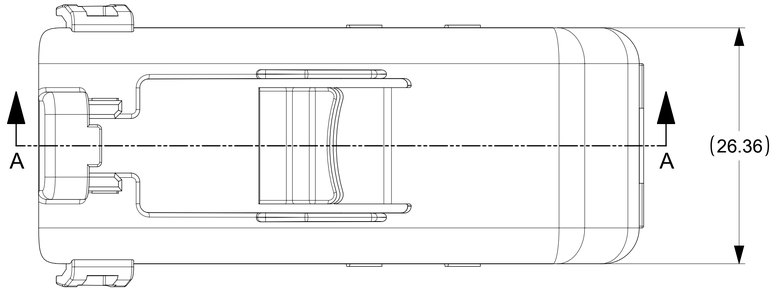
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DATUM TARGETS TYPE 2

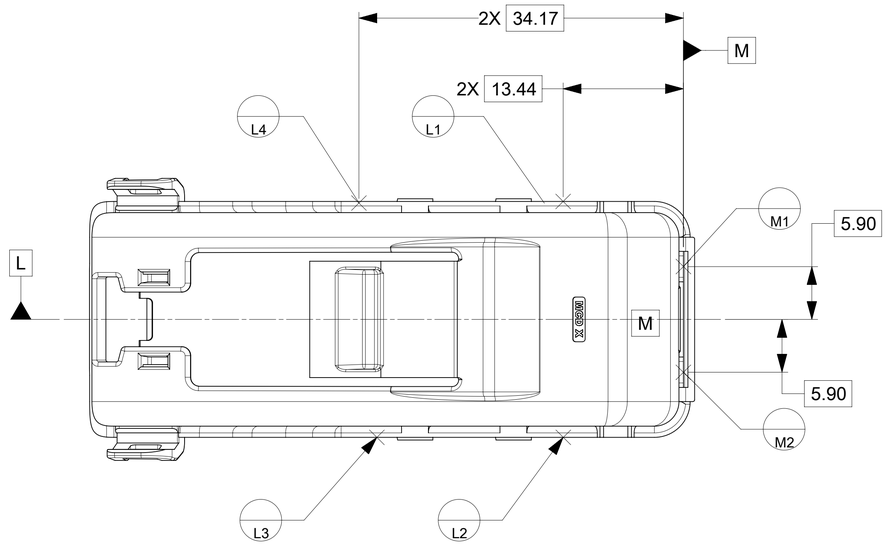


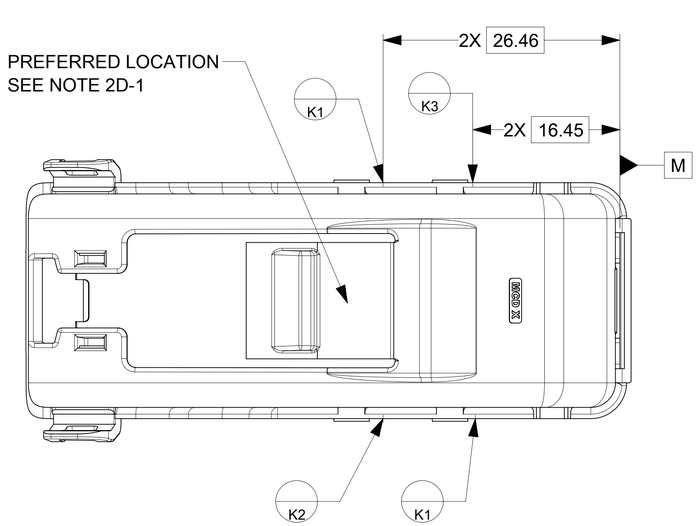
SECTION A-A



DETAIL C
SCALE 7:1

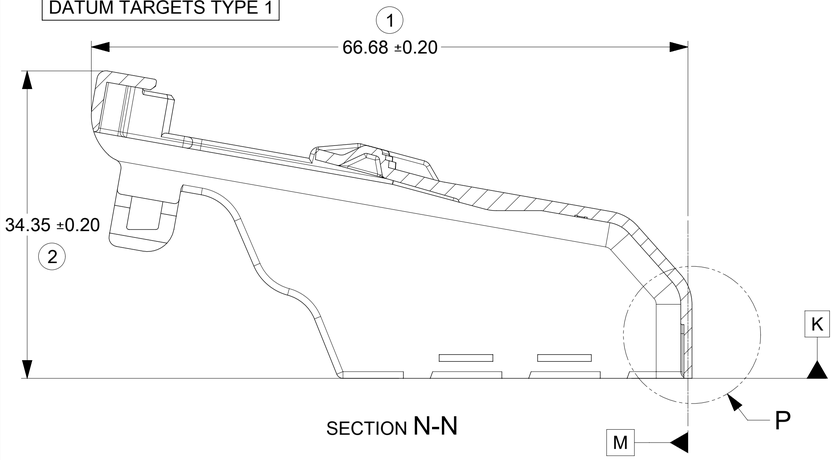




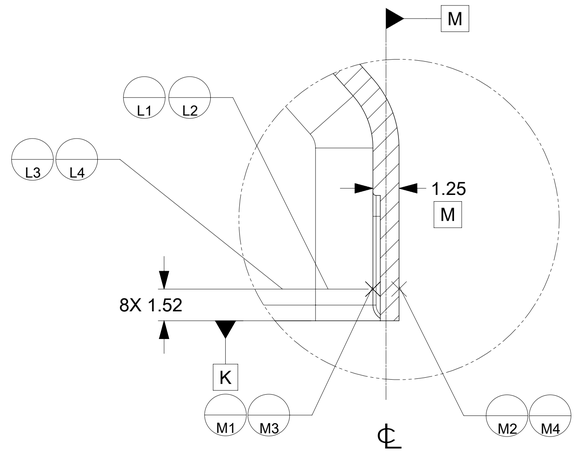


| QUALITY SYMBOLS | | |

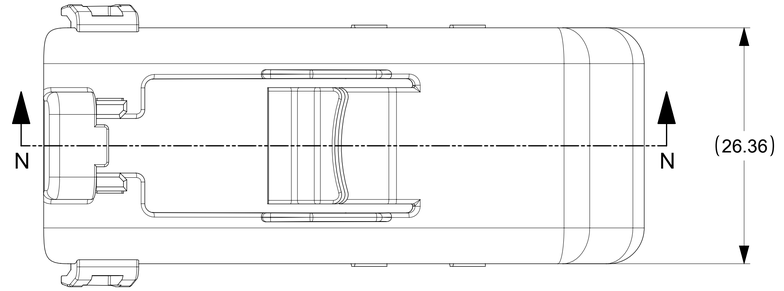
SHEET DESCRIPTION
DATUM TARGETS TYPE 1

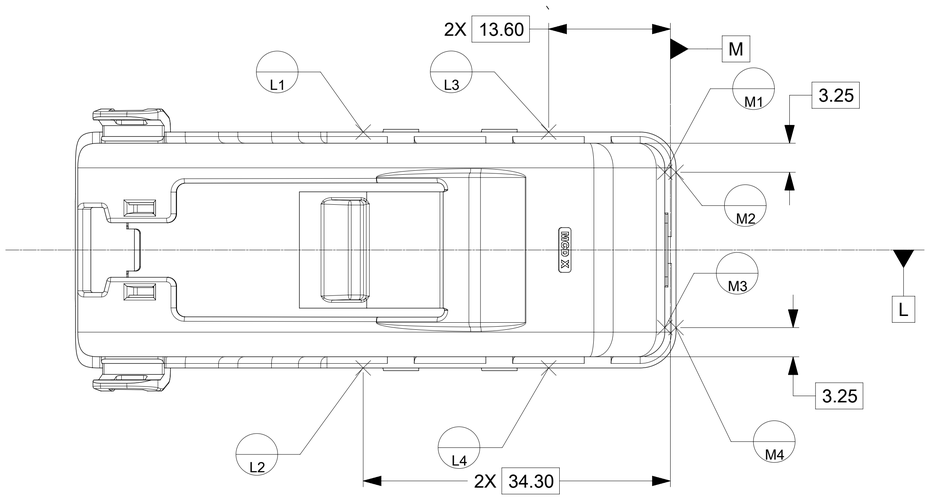


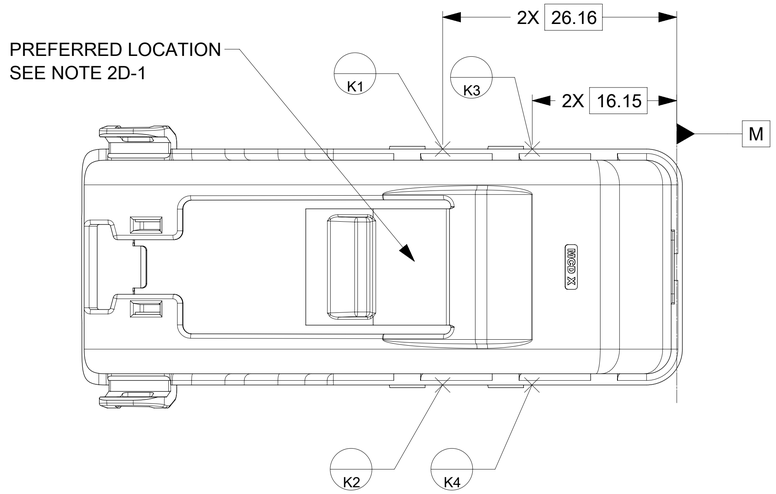
SECTION N-N



DETAIL P
SCALE 7:1







QUALITY SYMBOLS	
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E	= 0
F/D	= 0
	= 0
C	= 0
	= 0
	= 0
C	= 0

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EC NO: 685152 2021/11/12
DRWN: HKANG03 2021/11/16
CHK'D: STTAN 2021/11/16
APPR: STTAN

REV: A6

GENERAL TOLERANCES (UNLESS SPECIFIED)

ANGULAR TOL ±	°
4 PLACES	±
3 PLACES	±
2 PLACES	±
1 PLACE	±
0 PLACES	±

DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS

DIMENSION UNITS	SCALE
mm	2:1

DRWN BY	DATE
APODDATURI	2017/01/20
CHK'D BY	DATE
SKRAJENDRANA	2017/01/20
APPR BY	DATE
VKOSHY	2017/01/20

DRAWING SIZE: D

THIRD ANGLE PROJECTION

molex®

SDC56 56CKT DRESS COVER

PRODUCT CUSTOMER DRAWING

SERIES	MATERIAL NUMBER	CUSTOMER
160099		

DOCUMENT NUMBER	DOC TYPE	DOC PART	SHEET NUMBER
1600995001-SD	PSD	000	3 OF 3

RELEASE STATUS	P1	RELEASE DATE	2021/11/16 03:27:51

TEMPLATE: molex-Sz-size-D
REVISION: 01
DATE: 2019/12/14