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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 FOR TYPE 1 AND 2167830001-SD FOR TYPE 2

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:

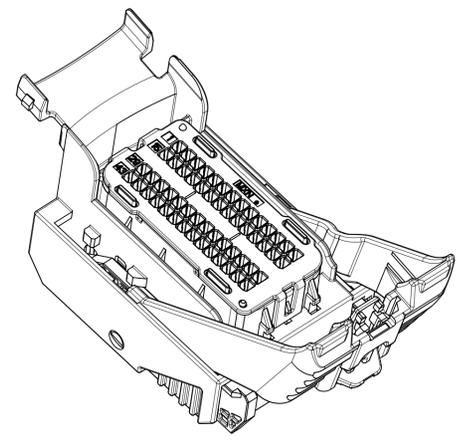
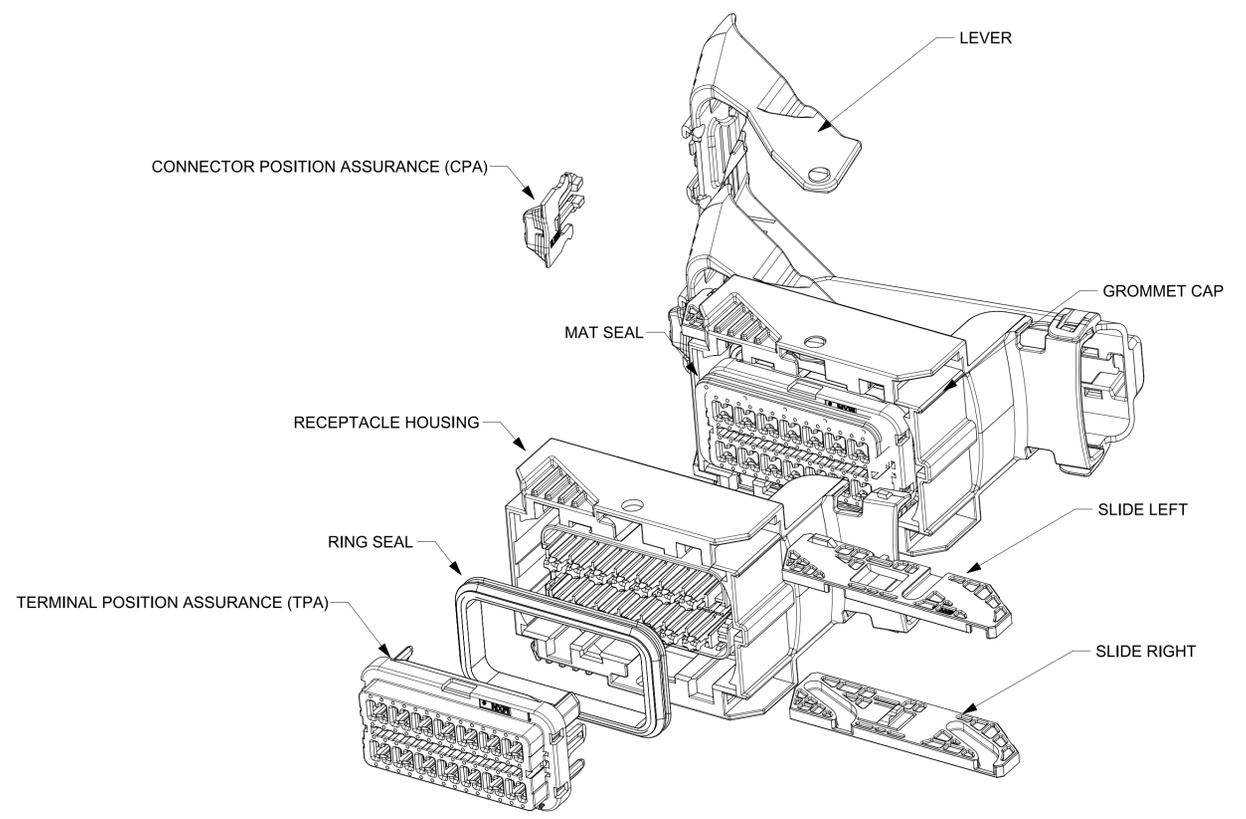
LINEAR:

X.X ±0.30

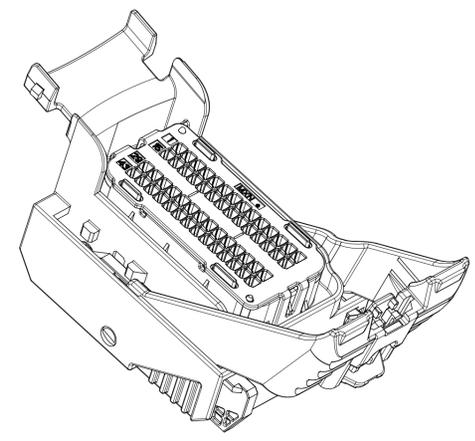
X.XX ±0.10

X.XXX ±0.10

ANGULAR X° ±3°



TYPE 2  
(P/N: 216783\*)

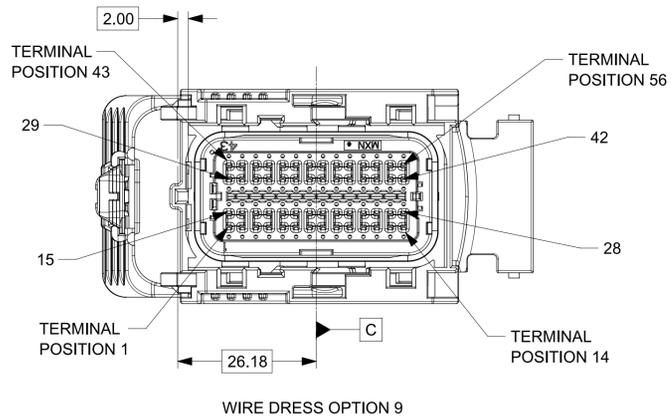
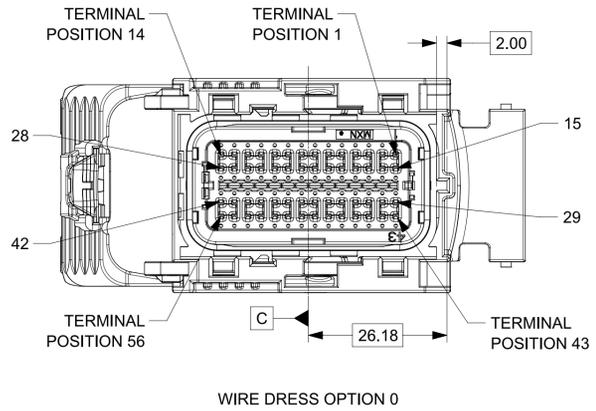


TYPE 1  
(P/N: 160099\*)

A9	BOM NUMBER 2167830001-SD ADDED
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
REV	DESCRIPTION

FUNCTIONAL SYMBOLS $\frac{E}{A} = 0$ $\frac{E}{C} = 0$ $\frac{E}{P} = 0$	THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX ELECTRONIC TECHNOLOGIES, LLC AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION DIMENSION UNITS: <b>mm</b> SCALE: <b>3:2</b> GENERAL TOLERANCES (UNLESS SPECIFIED) ANGULAR TOL: ± °	CURRENT REV DESC: SEE REVISION TABLE STATUS: Production DRWN: ADARSH SETTY CHK'D: Anil Kumar M S APPR: Brad Dick	<b>molex</b> SDC56 56CKT HRNS CONN ASSY PRODUCT SALES DRAWING		
	DIVISIONAL SYMBOLS 4 PLACES ± 3 PLACES ± 2 PLACES ± 1 PLACE ± 0 PLACES ±	DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS THIRD ANGLE PROJECTION	DRIVING SERIES: <b>A1-SIZE 160099</b>	DOCUMENT NUMBER: <b>1600990001-SD</b> DOC TYPE: PSD DOC PART: 000 REVISION: <b>A9</b>	MATERIAL NUMBER: _____ CUSTOMER: _____ SHEET NUMBER: <b>1 OF 17</b>

SHEET DESCRIPTION  
CONFIGURATIONS



FUNCTIONAL SYMBOLS	THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX ELECTRONIC TECHNOLOGIES, LLC AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION		CURRENT REV DESC: SEE REVISION TABLE	
	DIMENSION UNITS	SCALE		
$\frac{F}{A} = 0$	mm	1.5:1		
$\frac{F}{C} = 0$	GENERAL TOLERANCES (UNLESS SPECIFIED)			
$\frac{F}{P} = 0$	ANGULAR TOL ± °			
DIVISIONAL SYMBOLS	4 PLACES		±	
	3 PLACES		±	
	2 PLACES		±	
	1 PLACE		±	
	0 PLACES		±	
DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		THIRD ANGLE PROJECTION	DRAWING	SERIES
			A1-SIZE	160099
		STATUS: Production		2023-02-03
		DRWN: ADARSH SETTY		2023-03-08
		CHK'D: Anil Kumar M S		2023-03-08
		APPR: Brad Dick		
		DOCUMENT NUMBER		DOC TYPE   DOC PART   REVISION
		1600990001-SD		PSD   000   A9
		MATERIAL NUMBER		CUSTOMER
				SHEET NUMBER
				2 OF 17

**molex**

SDC56 56CKT HRNS CONN ASSY

PRODUCT SALES DRAWING

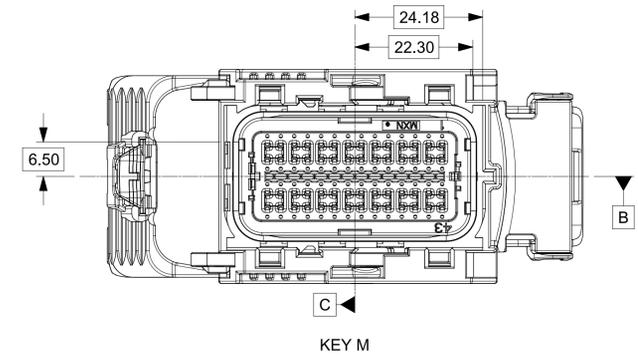
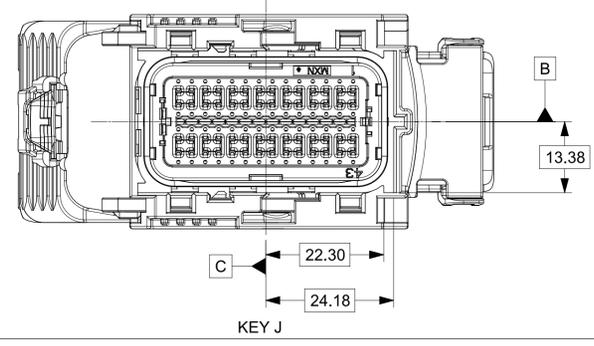
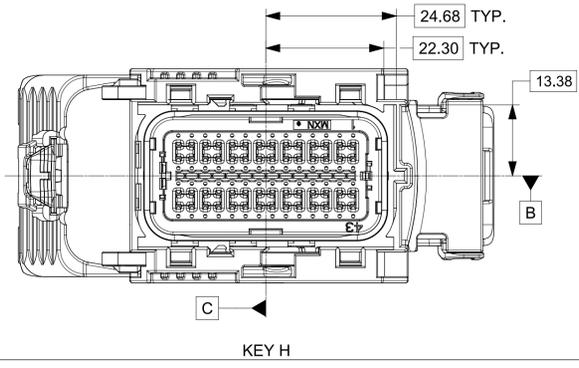
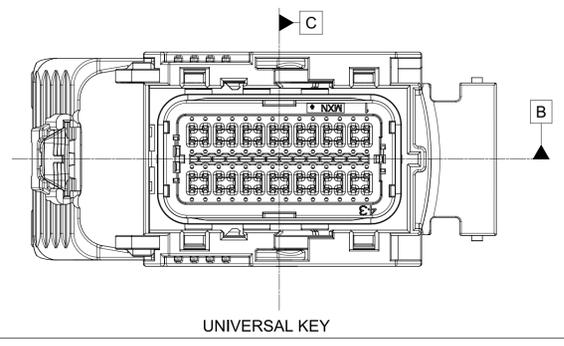
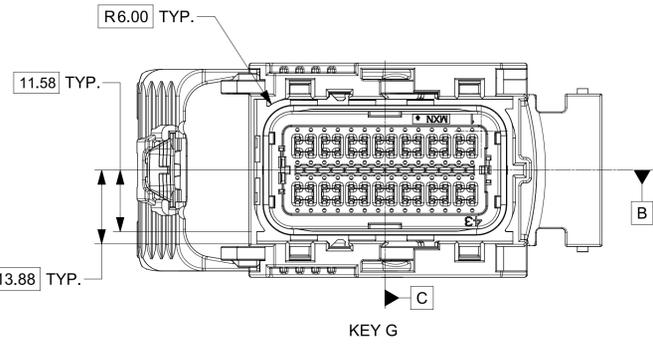
2023-02-03  
2023-03-08  
2023-03-08

STATUS: Production  
DRWN: ADARSH SETTY  
CHK'D: Anil Kumar M S  
APPR: Brad Dick

A1-SIZE 160099

2 OF 17

SHEET DESCRIPTION  
POLARIZATION

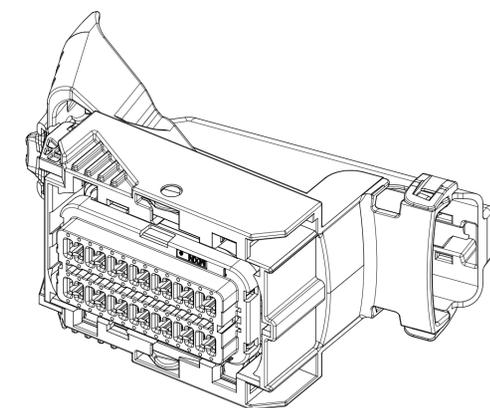


<b>FUNCTIONAL SYMBOLS</b> $\frac{E}{A} = 0$ $\frac{E}{C} = 0$ $\frac{E}{P} = 0$	THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX ELECTRONIC TECHNOLOGIES, LLC AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION	DIMENSION UNITS: <b>mm</b> SCALE: <b>1.5:1</b>	CURRENT REV DESC: SEE REVISION TABLE				
	GENERAL TOLERANCES (UNLESS SPECIFIED) ANGULAR TOL ± °	4 PLACES ± 3 PLACES ± 2 PLACES ± 1 PLACE ± 0 PLACES ±	STATUS: Production DRWN: ADARSH SETTY CHK'D: Anil Kumar M S APPR: Brad Dick				2023-02-03 2023-03-08 2023-03-08
<b>DIVISIONAL SYMBOLS</b>	DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS	THIRD ANGLE PROJECTION	DRAWING: <b>A1-SIZE</b>	SERIES: <b>160099</b>	MATERIAL NUMBER:	CUSTOMER:	SHEET NUMBER: <b>3 OF 17</b>

SHEET DESCRIPTION

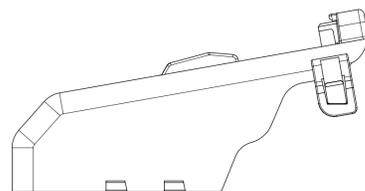
INTEGRAL COMPONENTS

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



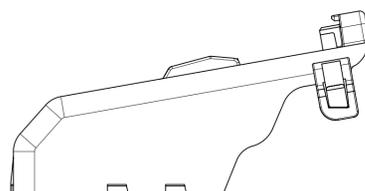
ASSEMBLED  
W/ INTEGRAL COMPONENTS

FOR HARNESS 160099\* ONLY



WIRE DRESS COVER  
1600995001

FOR HARNESS 216783\* ONLY

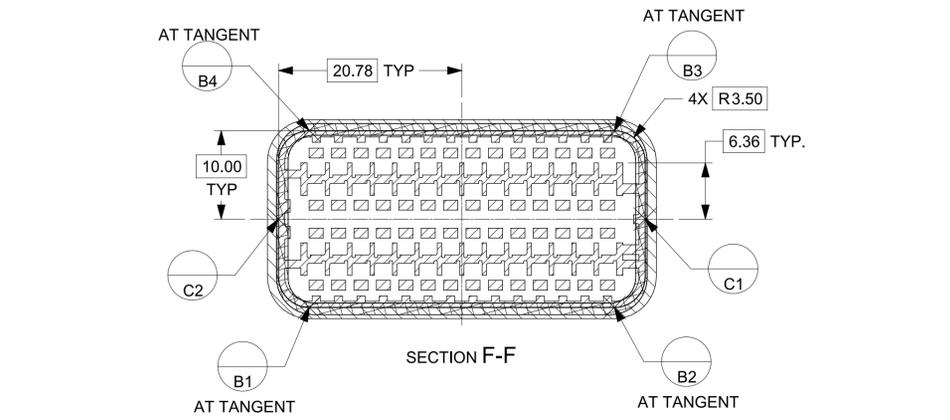
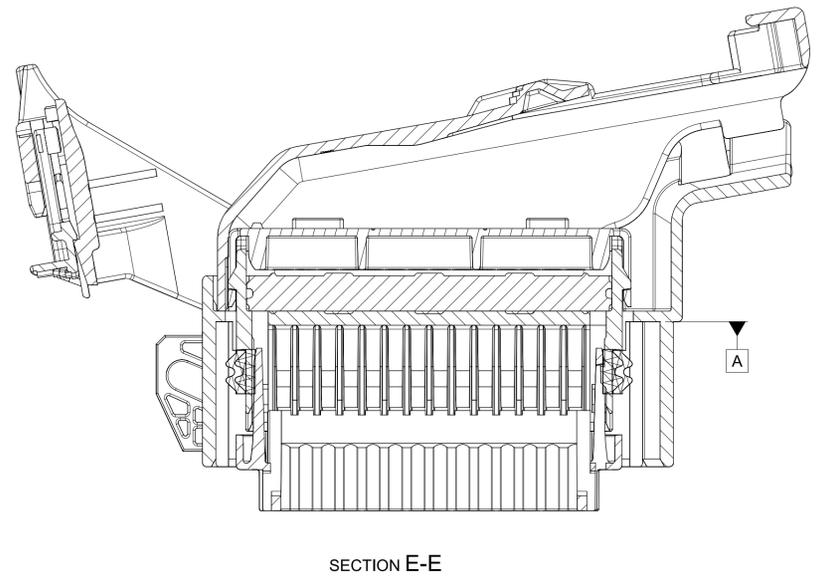
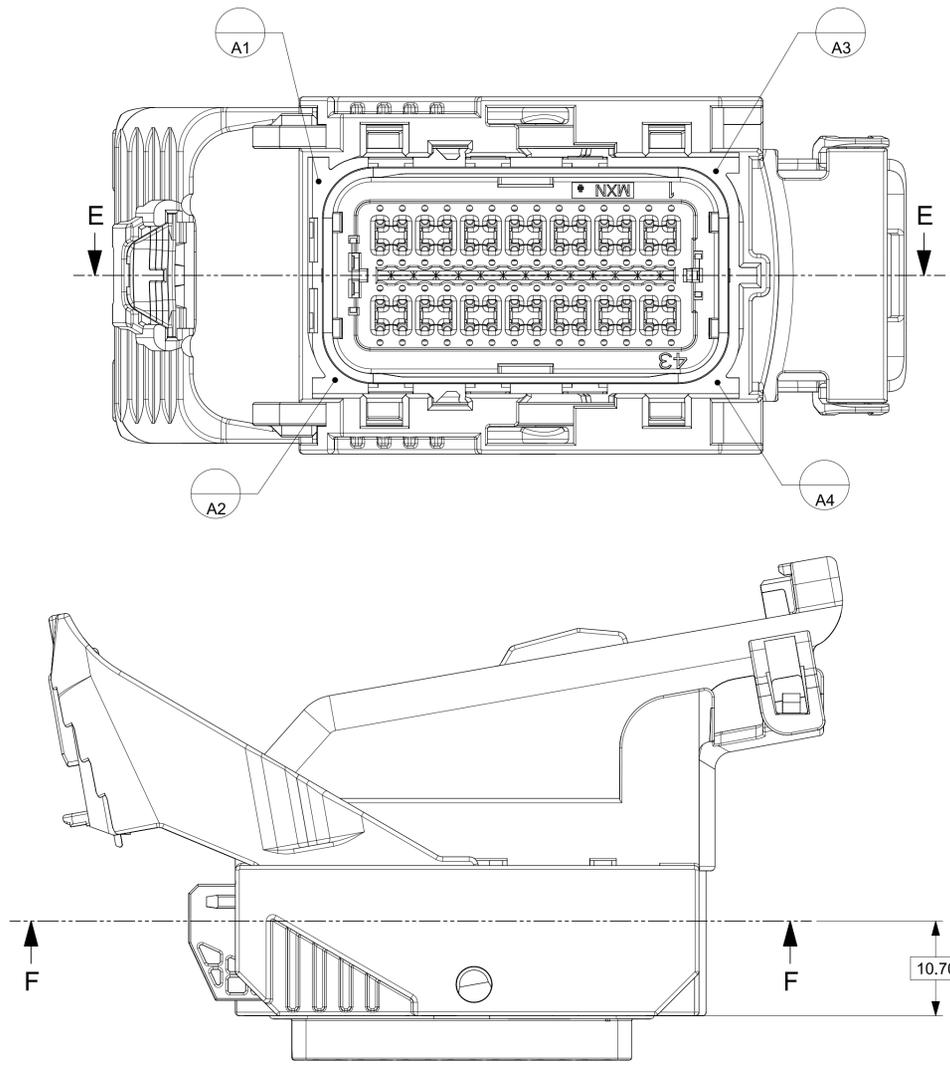


WIRE DRESS COVER  
1600995007

<b>FUNCTIONAL SYMBOLS</b> $\frac{F}{A} = 0$ $\frac{F}{C} = 0$ $\frac{F}{P} = 0$	THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX ELECTRONIC TECHNOLOGIES, LLC AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION		CURRENT REV DESC: SEE REVISION TABLE				
	DIMENSION UNITS	SCALE					
	mm	1:1					
	GENERAL TOLERANCES (UNLESS SPECIFIED)						
<b>DIVISIONAL SYMBOLS</b>	ANGULAR TOL	±			STATUS: Production DRWN: ADARSH SETTY CHK'D: Anil Kumar M S APPR: Brad Dick		
	4 PLACES	±					
	3 PLACES	±					
	2 PLACES	±					
	1 PLACE	±					
0 PLACES	±			2023-02-03 2023-03-08 2023-03-08			
DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS	THIRD ANGLE PROJECTION	DRAWING	SERIES	DOCUMENT NUMBER	DOC TYPE	DOC PART	REVISION
		A1-SIZE	160099	1600990001-SD	PSD	000	A9
				MATERIAL NUMBER	CUSTOMER	SHEET NUMBER	
						4 OF 17	

SHEET DESCRIPTION

DATUM TARGETS



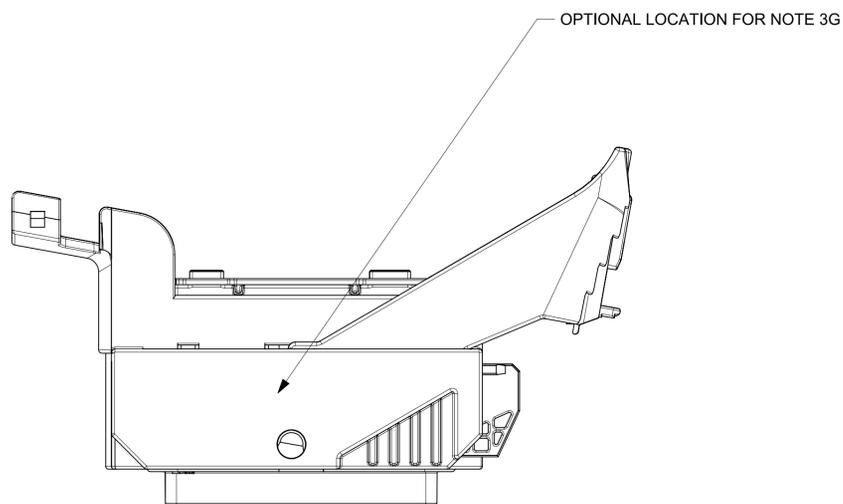
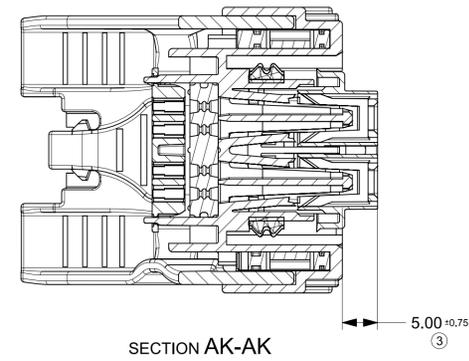
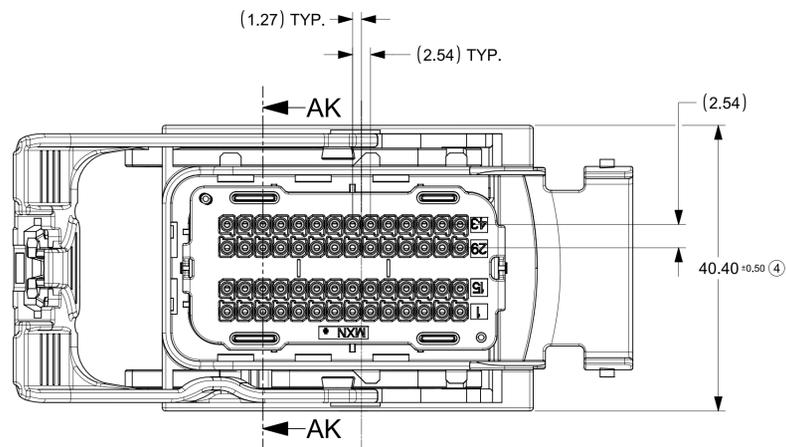
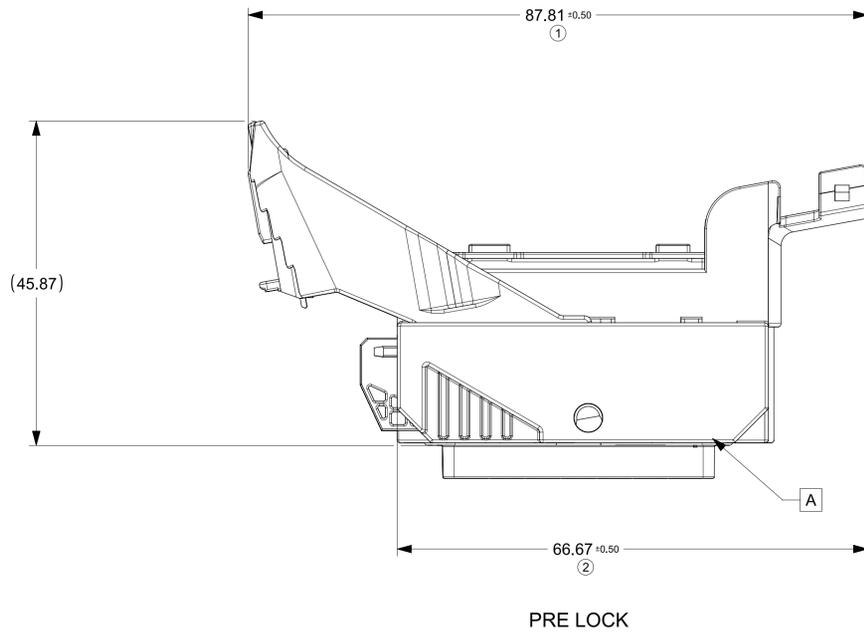
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	GENERAL TOLERANCES (UNLESS SPECIFIED) ANGULAR TOL: $\pm$ ° 4 PLACES: $\pm$ 3 PLACES: $\pm$ 2 PLACES: $\pm$ 1 PLACE: $\pm$ 0 PLACES: $\pm$	STATUS: Production DRWN: ADARSH SETTY CHK'D: Anil Kumar M S APPR: Brad Dick	2023-02-03 2023-03-08 2023-03-08
<b>DIVISIONAL SYMBOLS</b> DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS	THIRD ANGLE PROJECTION	DRAWING: <b>A1-SIZE</b> SERIES: <b>160099</b>	MATERIAL NUMBER: _____ CUSTOMER: _____ SHEET NUMBER: <b>5 OF 17</b>

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SDC56 56CKT HRNS CONN ASSY

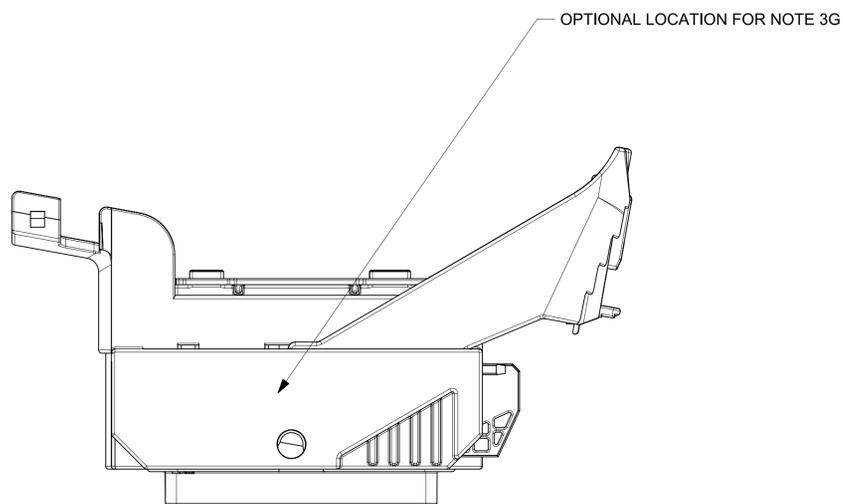
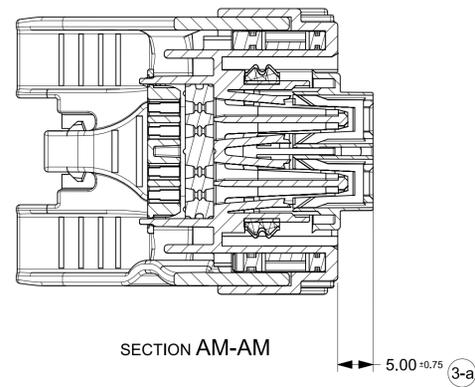
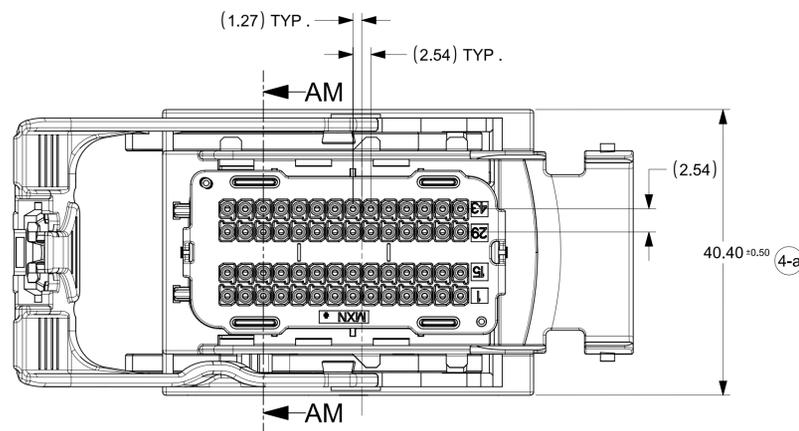
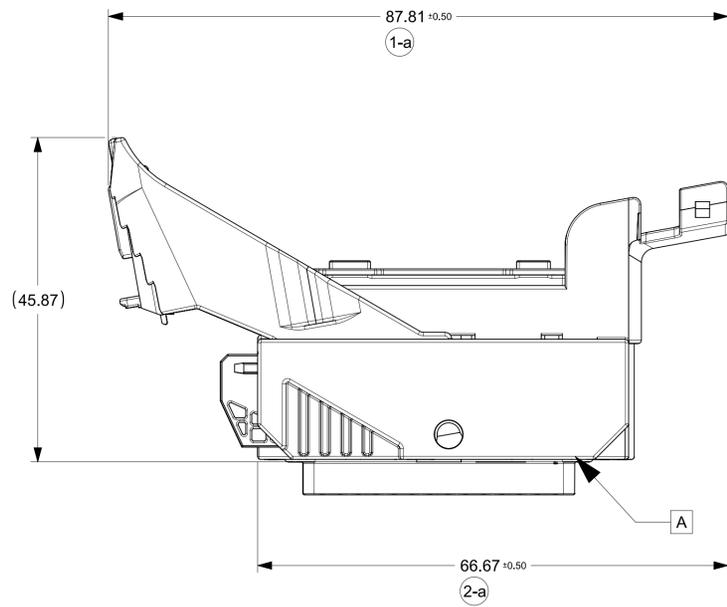
PRODUCT SALES DRAWING

SHEET DESCRIPTION  
PACKAGING DIMENSIONS -TYPE 1



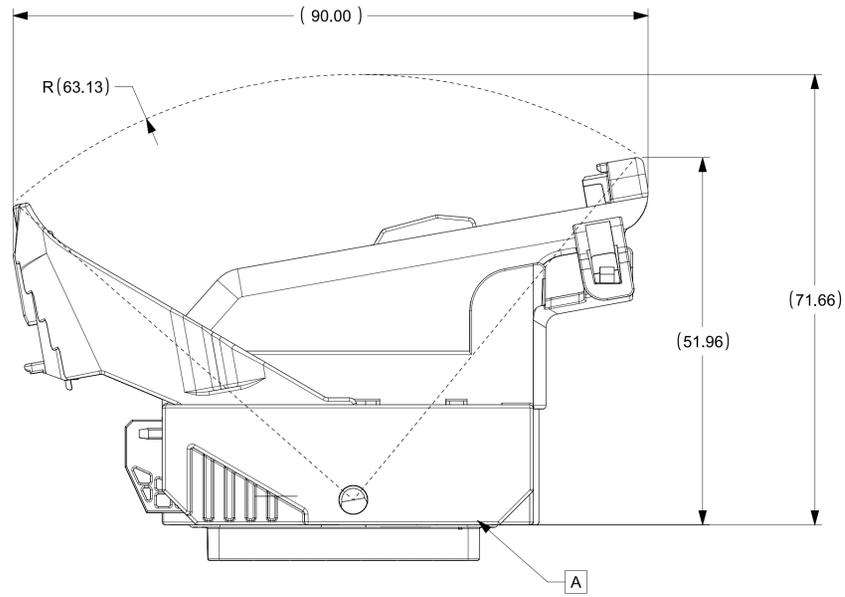
<b>FUNCTIONAL SYMBOLS</b> $\nabla/A = 0$ $\nabla/C = 0$ $\nabla/P = 0$ <b>DIVISIONAL SYMBOLS</b>	THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX ELECTRONIC TECHNOLOGIES, LLC AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION		CURRENT REV DESC: SEE REVISION TABLE				
	DIMENSION UNITS	SCALE					
	mm	2:1					
	GENERAL TOLERANCES (UNLESS SPECIFIED)						
ANGULAR TOL	± °						
4 PLACES	±	STATUS: Production DRWN: ADARSH SETTY CHK'D: Anil Kumar M S APPR: Brad Dick					
3 PLACES	±						
2 PLACES	±						
1 PLACE	±						
0 PLACES	±	2023-02-03	DOCUMENT NUMBER	DOC TYPE	DOC PART	REVISION	
DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		THIRD ANGLE PROJECTION	DRAWING	SERIES	MATERIAL NUMBER	CUSTOMER	SHEET NUMBER
			A1-SIZE	160099	1600990001-SD	PSD 000	A9
							6 OF 17

SHEET DESCRIPTION  
PACKAGING DIMENSIONS -TYPE 2

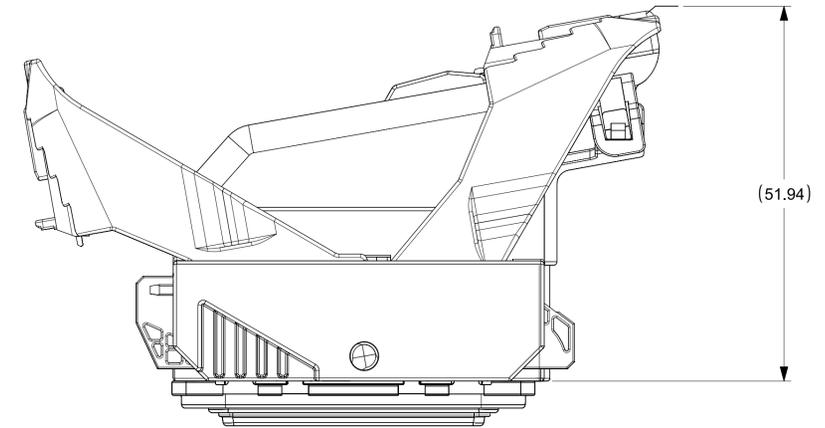


<b>FUNCTIONAL SYMBOLS</b> $\frac{F}{A} = 0$ $\frac{F}{C} = 0$ $\frac{F}{P} = 0$ <b>DIVISIONAL SYMBOLS</b>	THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX ELECTRONIC TECHNOLOGIES, LLC AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION		CURRENT REV DESC: SEE REVISION TABLE				
	DIMENSION UNITS	SCALE					
	GENERAL TOLERANCES (UNLESS SPECIFIED)				PRODUCT SALES DRAWING		
	ANGULAR TOL	±			DOCUMENT NUMBER	DOC TYPE	DOC PART
4 PLACES	±			1600990001-SD	PSD	000	A9
3 PLACES	±			STATUS: Production			
2 PLACES	±			DRWN: ADARSH SETTY			
1 PLACE	±			CHK'D: Anil Kumar M S			
0 PLACES	±			APPR: Brad Dick			
DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		THIRD ANGLE PROJECTION	DRAWING	SERIES	MATERIAL NUMBER	CUSTOMER	SHEET NUMBER
			A1-SIZE	160099			7 OF 17

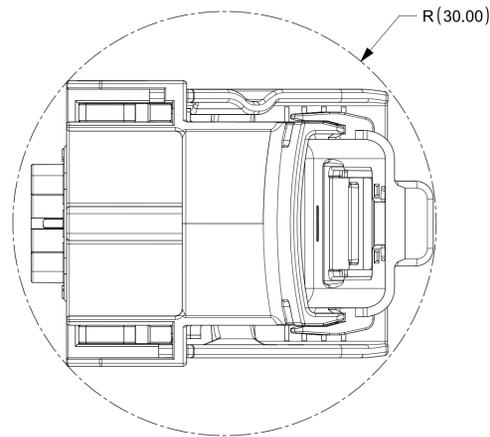
SHEET DESCRIPTION  
RECEPTACLE PACKAGING



PRE LOCK



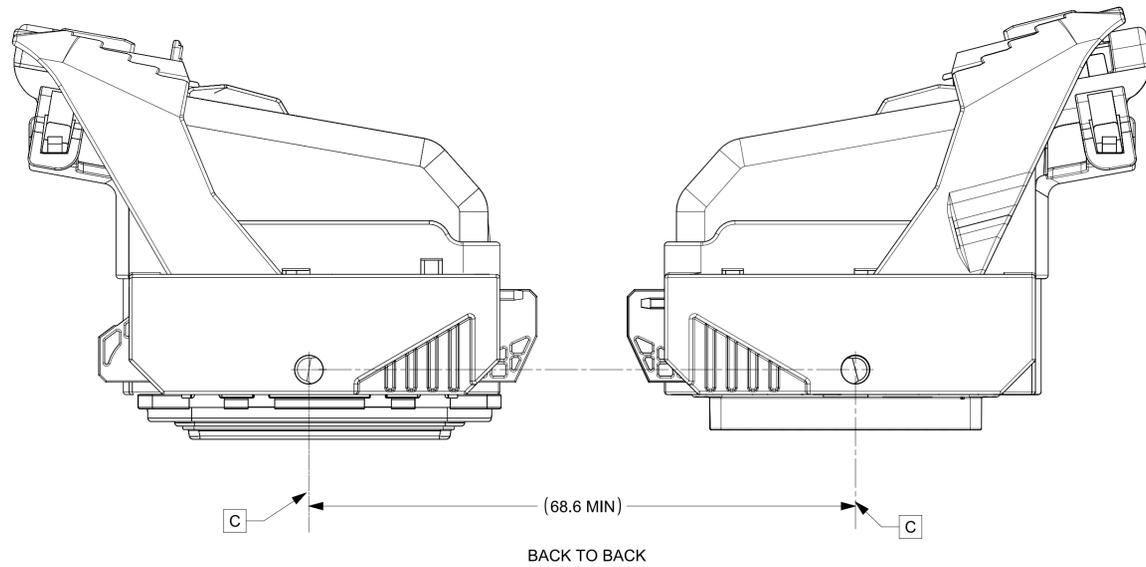
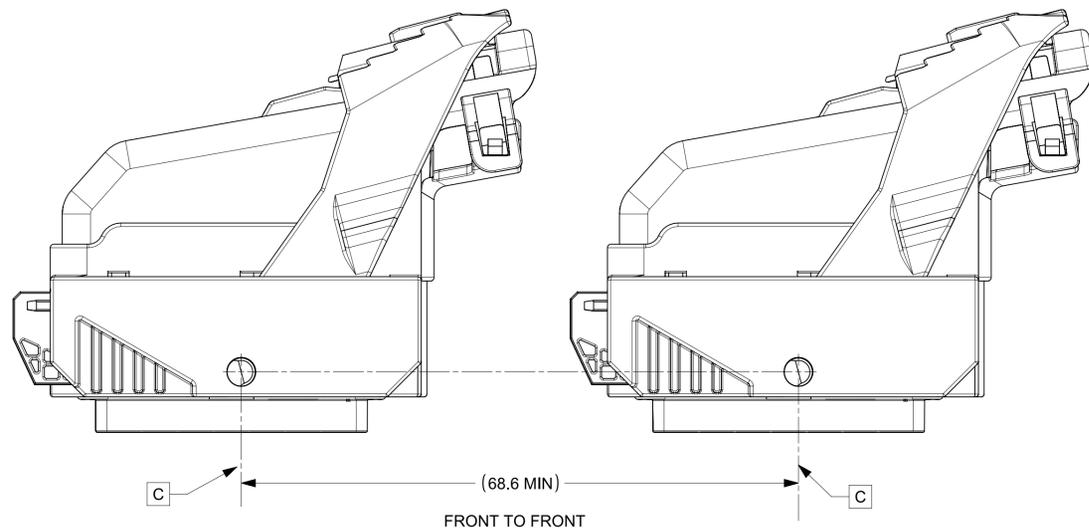
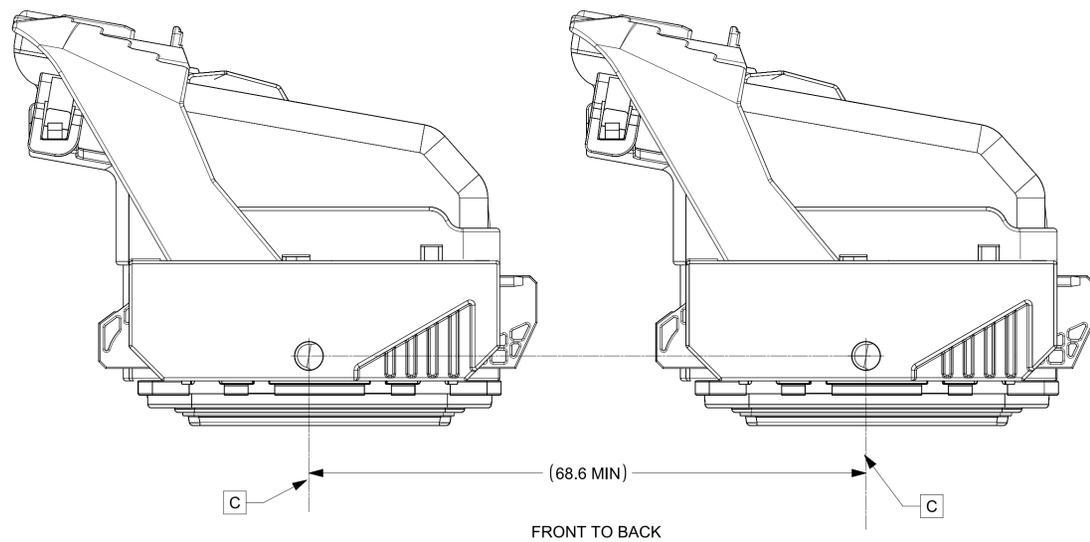
FINAL LOCK



MINIMUM SIZE HOLE TO PASS THROUGH

<b>FUNCTIONAL SYMBOLS</b> $\frac{E}{A} = 0$ $\frac{E}{C} = 0$ $\frac{E}{P} = 0$	THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX ELECTRONIC TECHNOLOGIES, LLC AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION	CURRENT REV DESC: SEE REVISION TABLE						
	DIMENSION UNITS	SCALE	GENERAL TOLERANCES (UNLESS SPECIFIED)					DOCUMENT NUMBER
	mm	2:1	ANGULAR TOL ± °		1600990001-SD	PSD	000	A9
	DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		THIRD ANGLE PROJECTION	DRAWING	SERIES	MATERIAL NUMBER	CUSTOMER	SHEET NUMBER
			A1-SIZE	160099			8 OF 17	
		STATUS: Production		PRODUCT SALES DRAWING				
		DRWN: ADARSH SETTY		2023-02-03				
		CHK'D: Anil Kumar M S		2023-03-08				
		APPR: Brad Dick		2023-03-08				

SHEET DESCRIPTION  
RECEPTACLE PACKAGING



FUNCTIONAL SYMBOLS	THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX ELECTRONIC TECHNOLOGIES, LLC AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION		CURRENT REV DESC: SEE REVISION TABLE		
	DIMENSION UNITS	SCALE			
$\frac{F}{A} = 0$	mm	5:1			
$\frac{F}{C} = 0$	GENERAL TOLERANCES (UNLESS SPECIFIED)				
$\frac{F}{P} = 0$	ANGULAR TOL ± °				
DIVISIONAL SYMBOLS	4 PLACES	±			
	3 PLACES	±			
	2 PLACES	±			
	1 PLACE	±			
	0 PLACES	±			
DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		THIRD ANGLE PROJECTION	DRAWING	SERIES	
			A1-SIZE	160099	
			STATUS: Production	2023-02-03	DOCUMENT NUMBER
			DRWN: ADARSH SETTY	2023-03-08	DOC TYPE   DOC PART   REVISION
			CHK'D: Anil Kumar M S	2023-03-08	1600990001-SD
			APPR: Brad Dick	2023-03-08	PSD 000 A9
					MATERIAL NUMBER
					CUSTOMER
					SHEET NUMBER
					9 OF 17

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SDC56 56CKT HRNS CONN ASSY

PRODUCT SALES DRAWING

TABLE OF CONTENTS	
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

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:

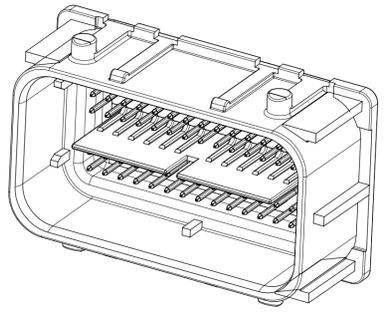
- a. HOUSING: SPS/NYLON 30% GLASS FILLED OR EQUIVALENT
- b. BLADE TERMINAL: FOR MATERIAL, DIMENSIONAL, AND COATING REQUIREMENTS AND ANY BLADE TERMINAL DESIGN INFORMATION NOT SHOWN ON THIS DRAWING SEE EWCAP DRW. NO. EWCAP-001
  - PLATING:
    - UNDERPLATING: ELECTRO-DEPOSITED NICKEL 1.27-2.24 MICROMETERS
    - 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). DEVIATION 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:

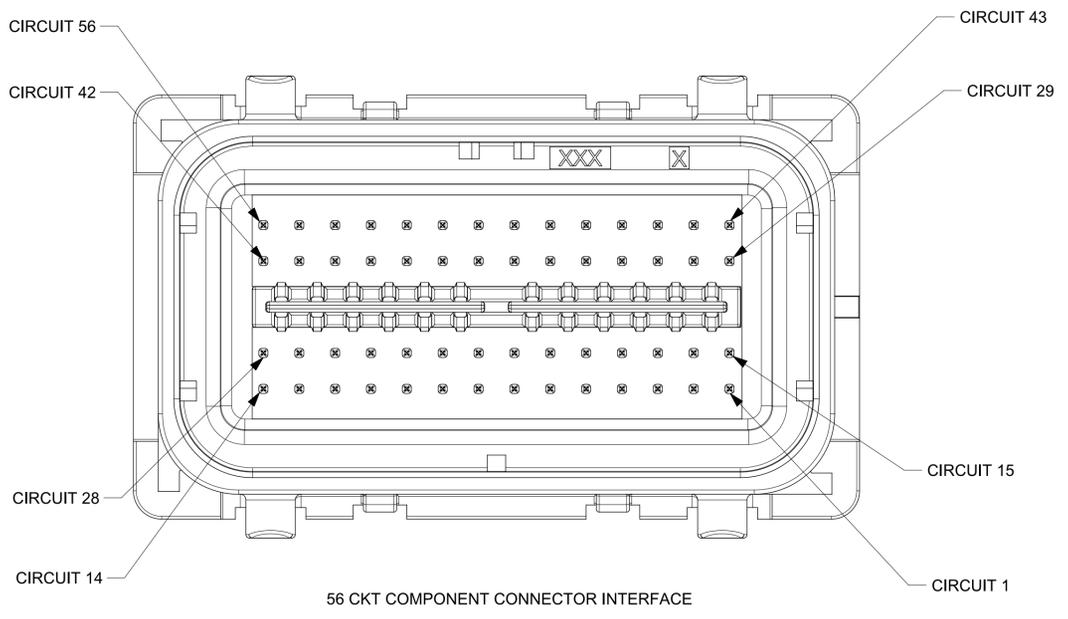
- a. ALLOWABLE FLASH MAX 0.20 HIGH BY MAX 0.13 THICK.
- b. ALLOWABLE SPLIT/PARTING LINE MISMATCH 0.2 MAX.
- c. EJECTOR PIN MARKS TO BE FLUSH TO 0.25 MAX DEPRESSED. LOCATION MUST BE APPROVED BY PRODUCT ENGINEERING. EJECTOR PIN MARKS NOT PERMISSIBLE ON OR NEAR DATUM TARGET AREA.
- d. ALLOWABLE GATE VESTIGE 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



SCALE 2:1

<b>FUNCTIONAL SYMBOLS</b> FA = 0 FC = 0 FP = 0 <b>DIVISIONAL SYMBOLS</b>	THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX ELECTRONIC TECHNOLOGIES, LLC AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION		CURRENT REV DESC: SEE REVISION TABLE		 SDC56 56CKT HRNS CONN ASSY		
	DIMENSION UNITS	SCALE	GENERAL TOLERANCES (UNLESS SPECIFIED)				
	mm	2:1	ANGULAR TOL ± °		PRODUCT SALES DRAWING		
	4 PLACES ±	3 PLACES ±	STATUS: Production		DOCUMENT NUMBER		
2 PLACES ±	1 PLACE ±	DRWN: ADARSH SETTY		DOC TYPE   DOC PART   REVISION			
0 PLACES ±	DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		CHK'D: Anil Kumar M S		1600990001-SD		
THIRD ANGLE PROJECTION		APPR: Brad Dick		2023-02-03		PSD	
		DRAWING		2023-03-08		000	
A1-SIZE		SERIES		2023-03-08		A9	
160099		MATERIAL NUMBER		CUSTOMER		SHEET NUMBER	
						10 OF 17	

SHEET DESCRIPTION  
CONFIGURATIONS



<b>FUNCTIONAL SYMBOLS</b> $\frac{F}{A} = 0$ $\frac{F}{C} = 0$ $\frac{F}{P} = 0$	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
	mm	1:1	
	GENERAL TOLERANCES (UNLESS SPECIFIED)		
<b>DIVISIONAL SYMBOLS</b>	ANGULAR TOL	±	'
	4 PLACES	±	
	3 PLACES	±	
	2 PLACES	±	
	1 PLACE	±	
	0 PLACES	±	
DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS	THIRD ANGLE PROJECTION	DRAWING	SERIES
		A1-SIZE	160099
STATUS: Production		2023-02-03	DOCUMENT NUMBER
DRWN: ADARSH SETTY		2023-03-08	1600990001-SD
CHK'D: Anil Kumar M S		2023-03-08	PSD
APPR: Brad Dick		2023-03-08	000
			A9
		MATERIAL NUMBER	CUSTOMER
			SHEET NUMBER
			11 OF 17

**molex**

SDC56 56CKT HRNS CONN ASSY

PRODUCT SALES DRAWING

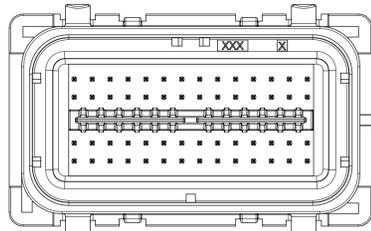
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DOC TYPE: PSD  
DOC PART: 000  
REVISION: A9

STATUS: Production  
DRWN: ADARSH SETTY  
CHK'D: Anil Kumar M S  
APPR: Brad Dick

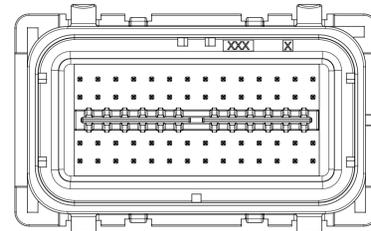
DRAWING: A1-SIZE  
SERIES: 160099

MATERIAL NUMBER: CUSTOMER: SHEET NUMBER: 11 OF 17

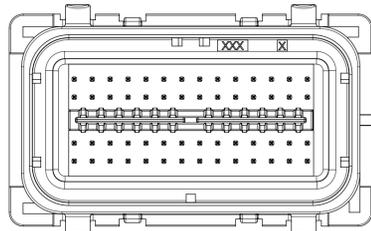
SHEET DESCRIPTION  
POLARIZATION



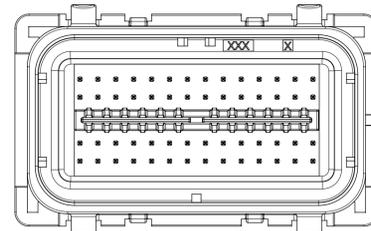
KEY OPTION "G"  
(BLUE)



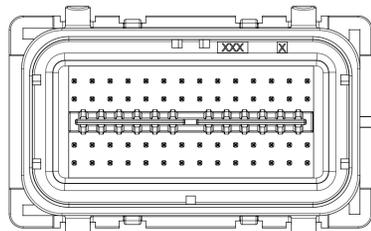
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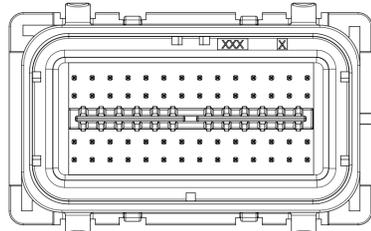
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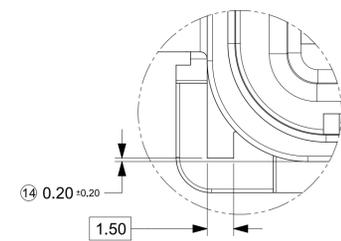
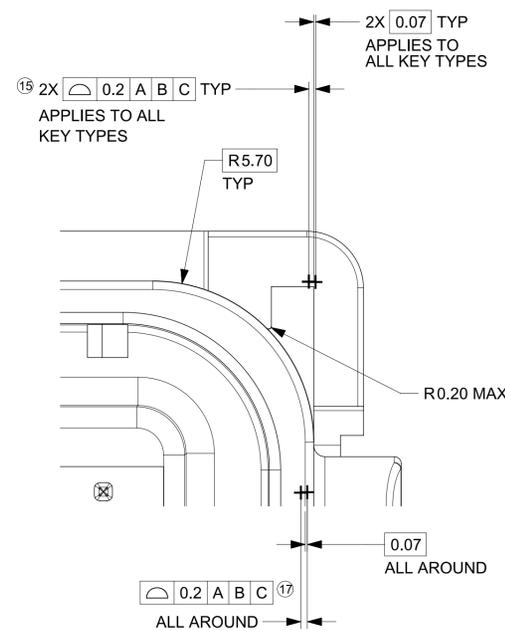
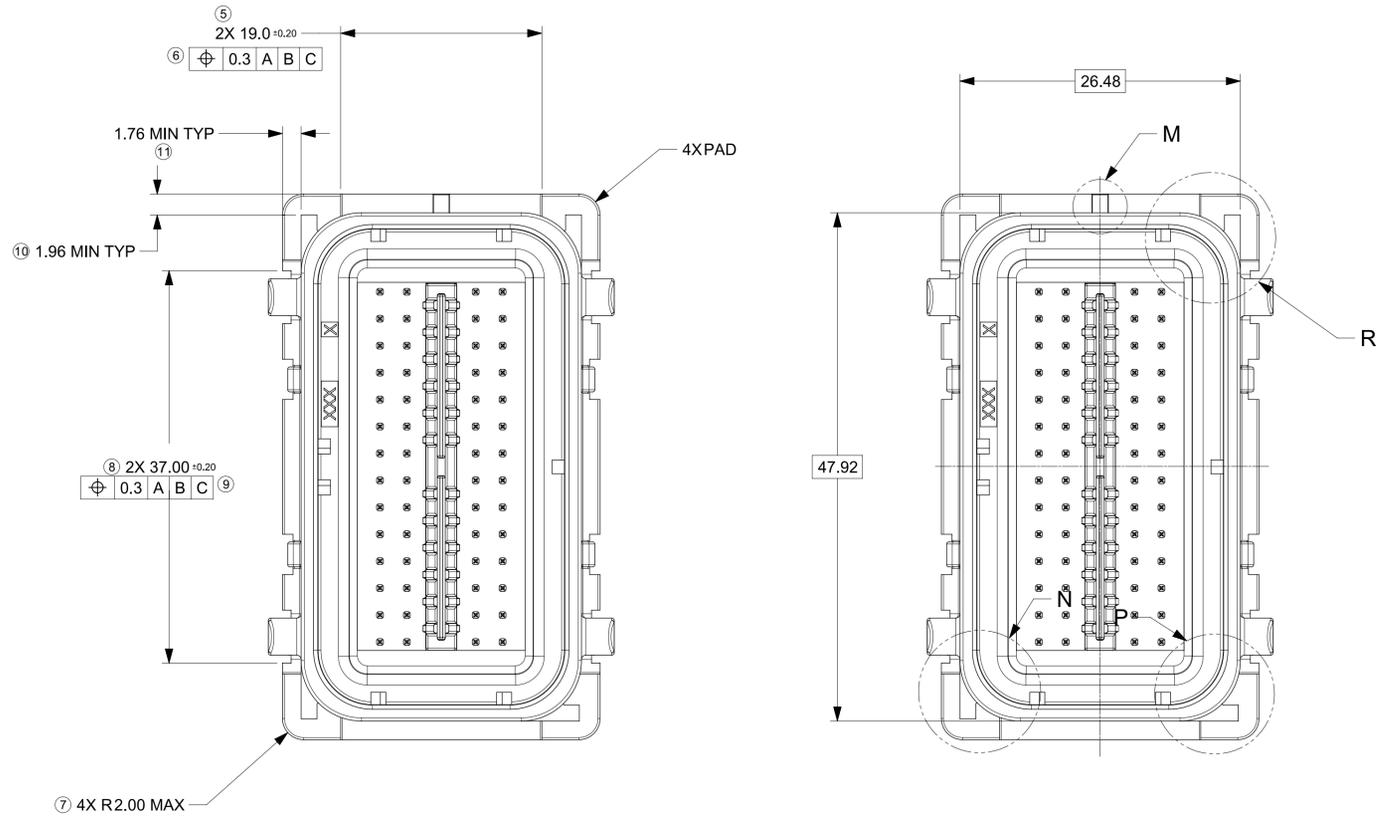
KEY OPTION "M"  
(NATURAL)



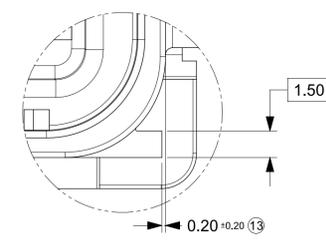
KEY OPTION "J"  
(BLACK)



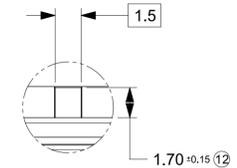
KEY OPTION "K"  
(BROWN)



DETAIL N  
SCALE 5:1



DETAIL P  
SCALE 5:1

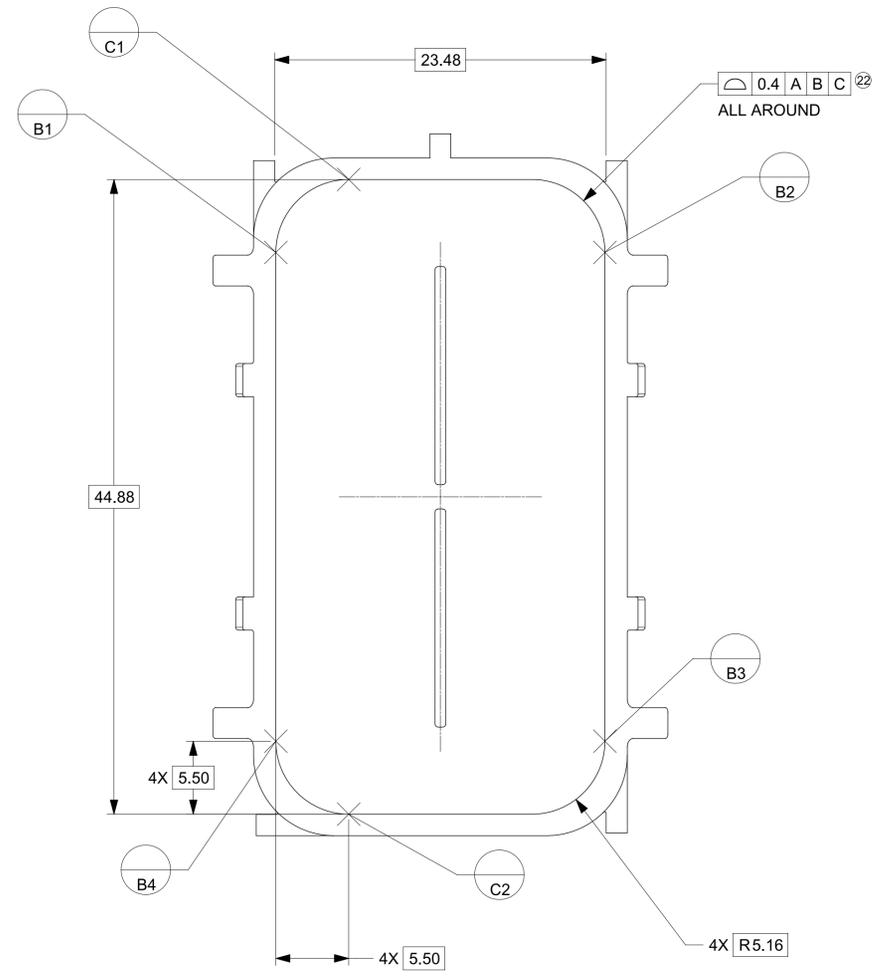
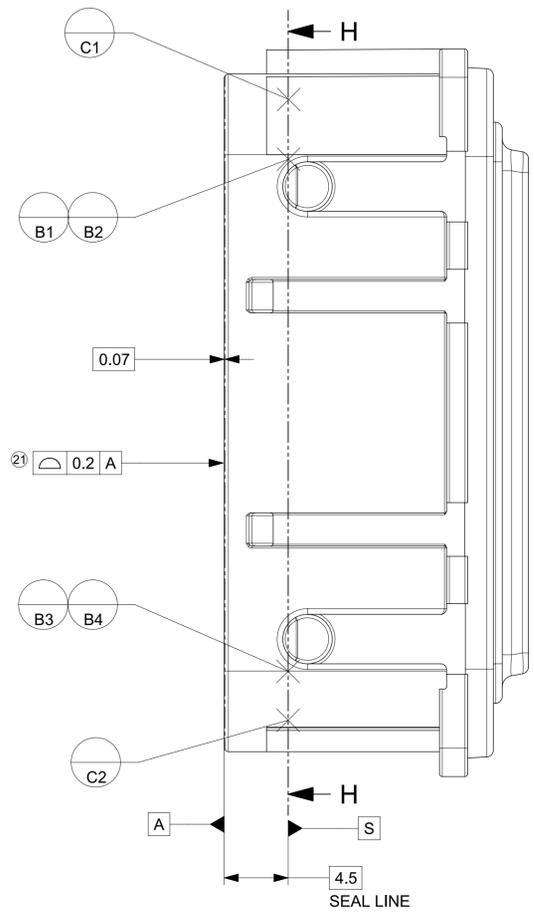
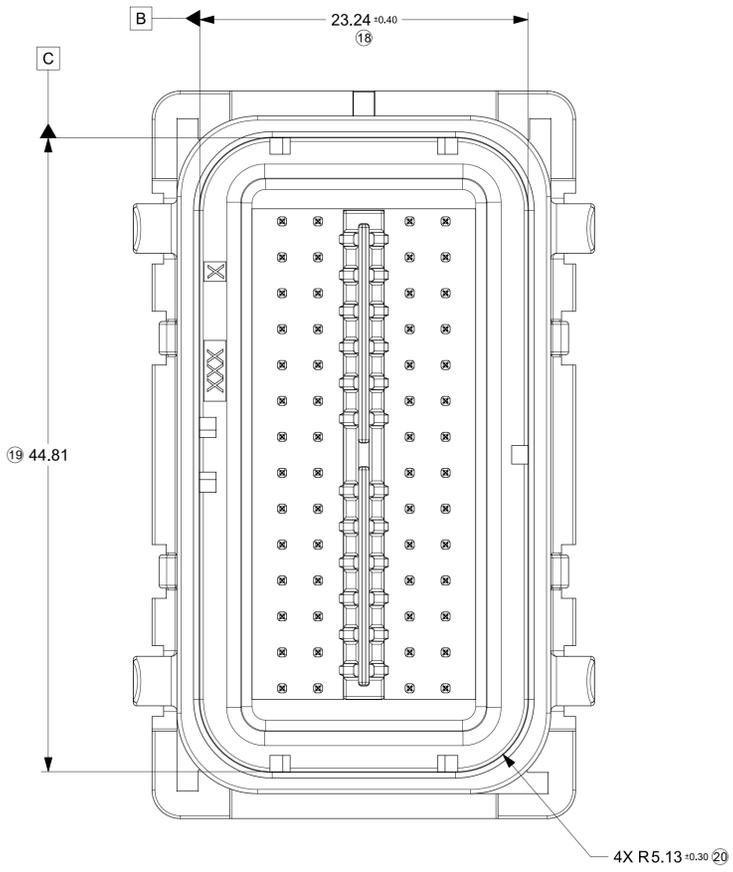


DETAIL M  
SCALE 5:1

DETAIL R  
SCALE 8:1

FUNCTIONAL SYMBOLS $\frac{E}{A} = 0$ $\frac{E}{C} = 0$ $\frac{E}{P} = 0$	THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX ELECTRONIC TECHNOLOGIES, LLC AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION	DIMENSION UNITS: <b>mm</b> SCALE: <b>1:1</b>	CURRENT REV DESC: SEE REVISION TABLE			
	GENERAL TOLERANCES (UNLESS SPECIFIED) ANGULAR TOL $\pm$ ° 4 PLACES $\pm$ 3 PLACES $\pm$ 2 PLACES $\pm$ 1 PLACE $\pm$ 0 PLACES $\pm$	STATUS: Production DRWN: ADARSH SETTY CHK'D: Anil Kumar M S APPR: Brad Dick	2023-02-03 2023-03-08 2023-03-08			
DIVISIONAL SYMBOLS DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS	THIRD ANGLE PROJECTION	DRAWING <b>A1-SIZE</b>	SERIES <b>160099</b>	MATERIAL NUMBER CUSTOMER	SHEET NUMBER <b>12 OF 17</b>	PRODUCT SALES DRAWING SDC56 56CKT HRNS CONN ASSY

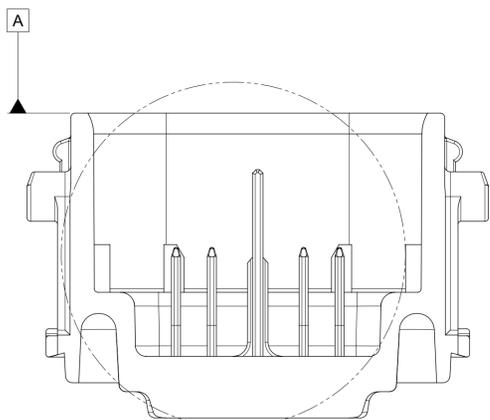
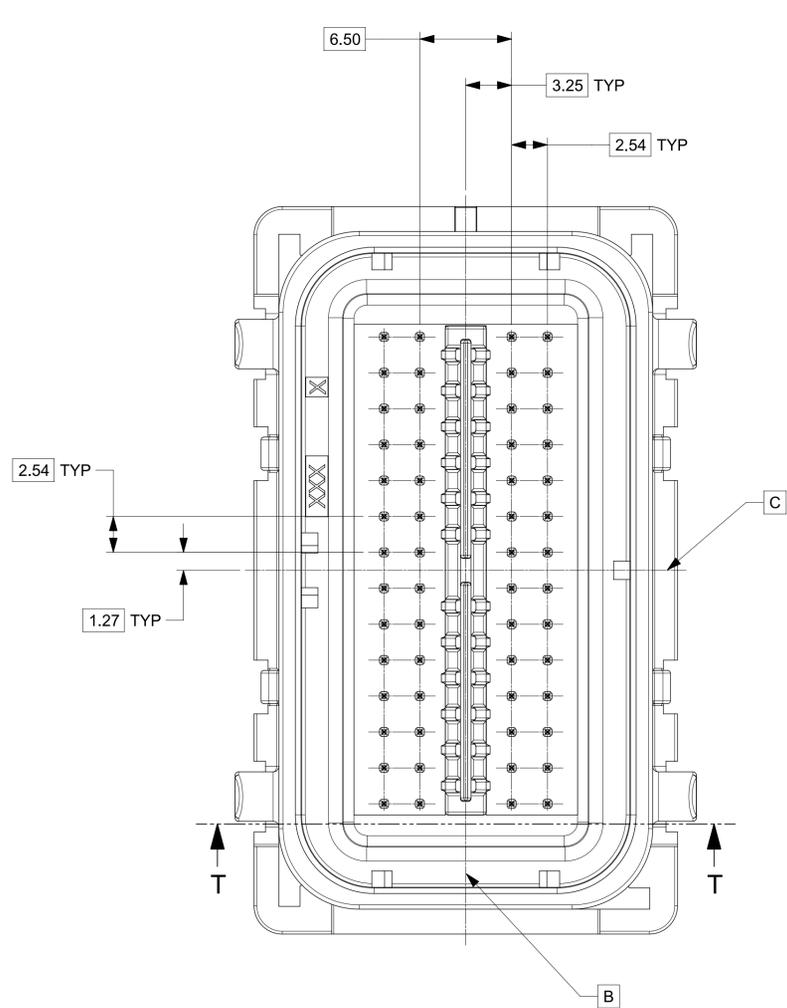
SHEET DESCRIPTION  
DATUM TARGETS



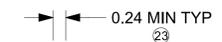
UNLESS SPECIFIED, TOLERANCE OF THE DEVICE INTERFACE TO BE  $\text{0.13 A B C}$

<b>FUNCTIONAL SYMBOLS</b> $\text{FA} = 0$ $\text{FC} = 0$ $\text{FP} = 0$ <b>DIVISIONAL SYMBOLS</b>	THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX ELECTRONIC TECHNOLOGIES, LLC AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION		CURRENT REV DESC: SEE REVISION TABLE				
	DIMENSION UNITS	SCALE	 SDC56 56CKT HRNS CONN ASSY PRODUCT SALES DRAWING				
	mm	2:1					
	GENERAL TOLERANCES (UNLESS SPECIFIED)						
ANGULAR TOL	± °						
4 PLACES	±	STATUS: Production DRWN: ADARSH SETTY CHK'D: Anil Kumar M S APPR: Brad Dick	2023-02-03	DOCUMENT NUMBER	DOC TYPE	DOC PART	REVISION
3 PLACES	±		2023-03-08	1600990001-SD	PSD	000	A9
2 PLACES	±		2023-03-08	MATERIAL NUMBER	CUSTOMER	SHEET NUMBER	
1 PLACE	±					13 OF 17	
0 PLACES	±						
DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		THIRD ANGLE PROJECTION	DRAWING	SERIES			
			A1-SIZE	160099			

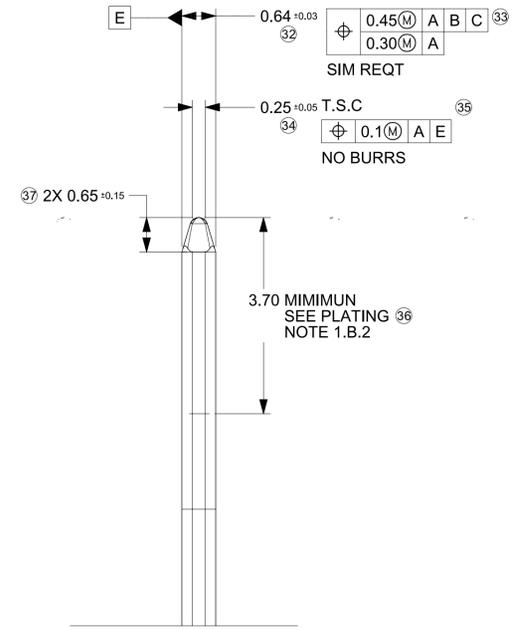
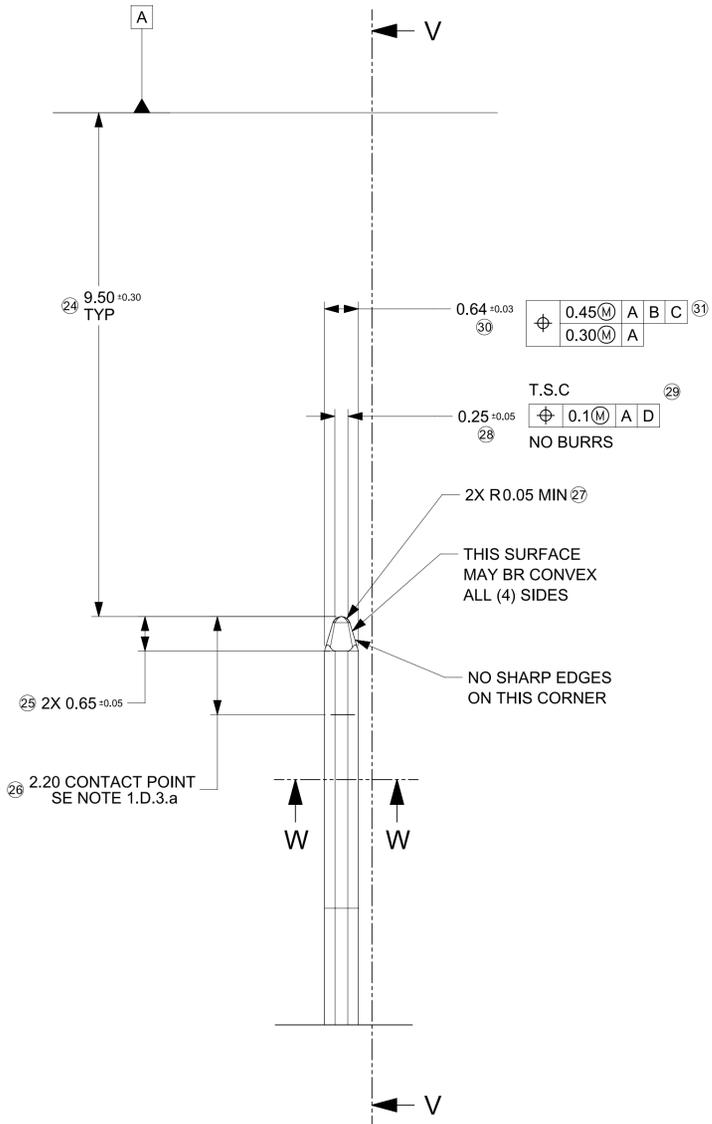
SHEET DESCRIPTION  
INTERFACE PARTITION DEFINITION



SECTION T-T



SECTION W-W

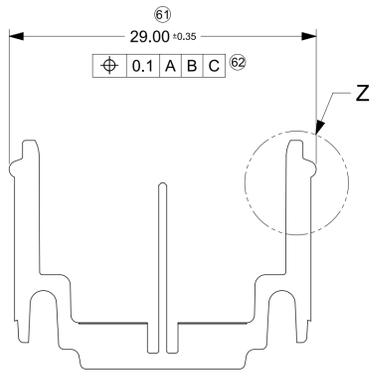
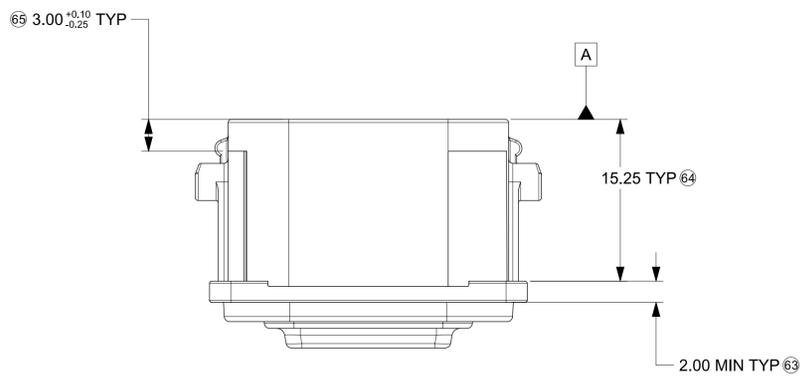
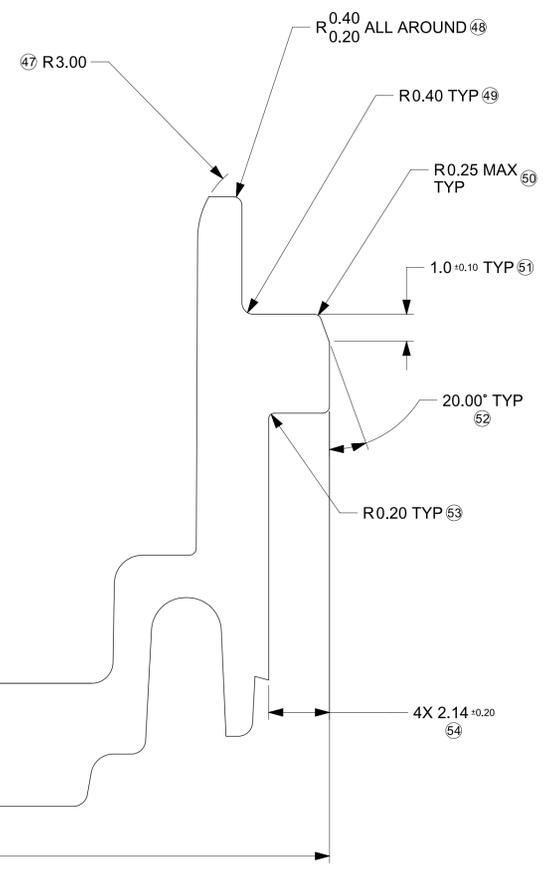
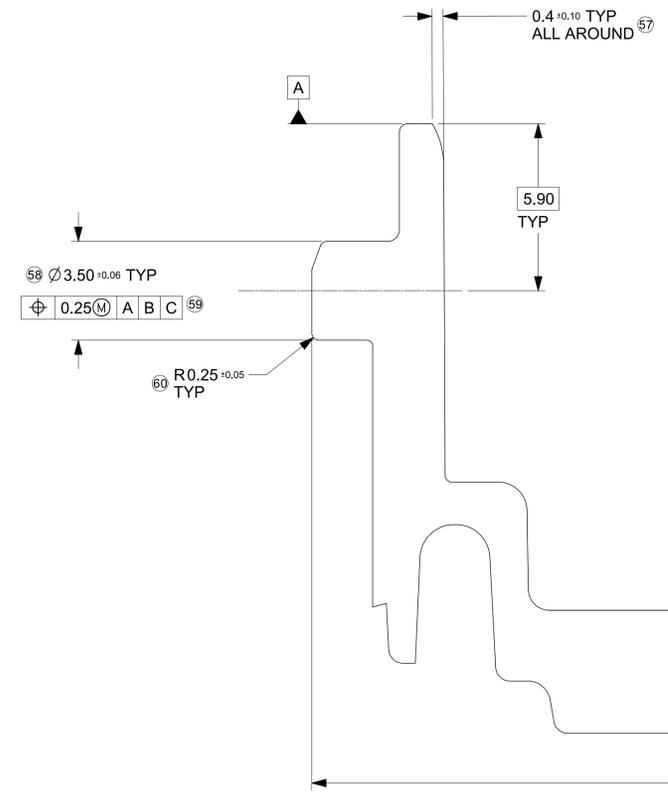
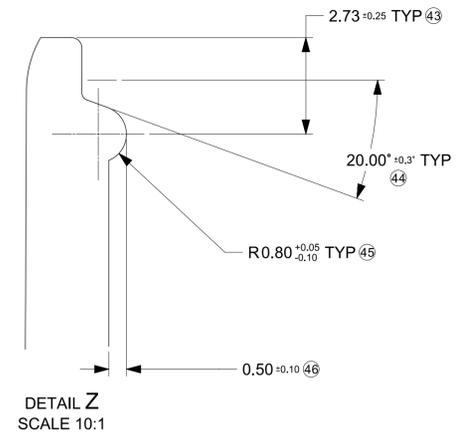
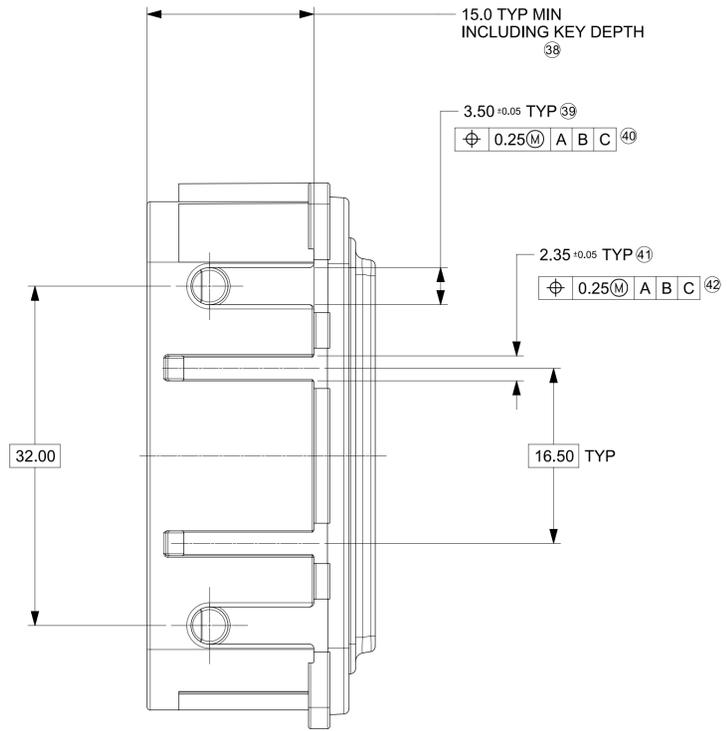
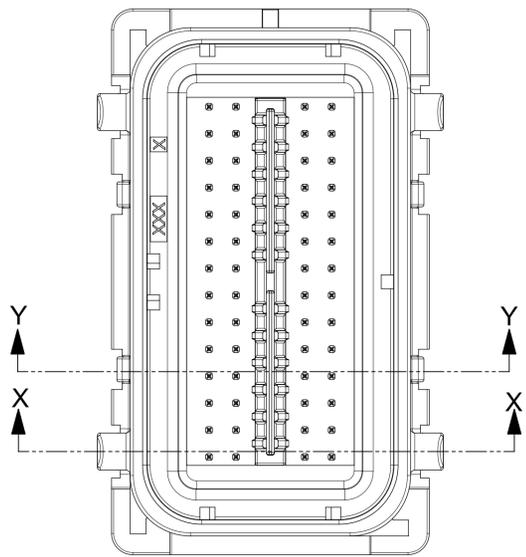


DETAIL U  
SCALE 15:1

<b>FUNCTIONAL SYMBOLS</b> $\frac{F}{A} = 0$ $\frac{F}{C} = 0$ $\frac{F}{P} = 0$	THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX ELECTRONIC TECHNOLOGIES, LLC AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION		CURRENT REV DESC: SEE REVISION TABLE		
	DIMENSION UNITS	SCALE	 SDC56 56CKT HRNS CONN ASSY PRODUCT SALES DRAWING		
	mm	1:1			
	GENERAL TOLERANCES (UNLESS SPECIFIED)				
ANGULAR TOL	± °				
<b>DIVISIONAL SYMBOLS</b>	4 PLACES	±	STATUS: Production DRWN: ADARSH SETTY CHK'D: Anil Kumar M S APPR: Brad Dick		
	3 PLACES	±			
	2 PLACES	±			
	1 PLACE	±			
DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		THIRD ANGLE PROJECTION	DRAWING	SERIES	2023-02-03 2023-03-08 2023-03-08
			A1-SIZE	160099	DOCUMENT NUMBER: 1600990001-SD DOC TYPE: PSD DOC PART: 000 REVISION: A9
					MATERIAL NUMBER: 1600990001-SD CUSTOMER:
					SHEET NUMBER: 14 OF 17

SHEET DESCRIPTION

INTERFACE PARTITION DEFINITION



SECTION Y-Y

SECTION X-X  
(CAM POST)

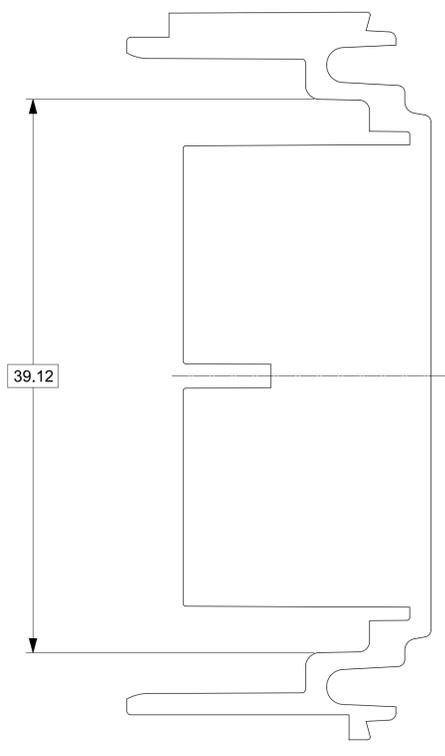
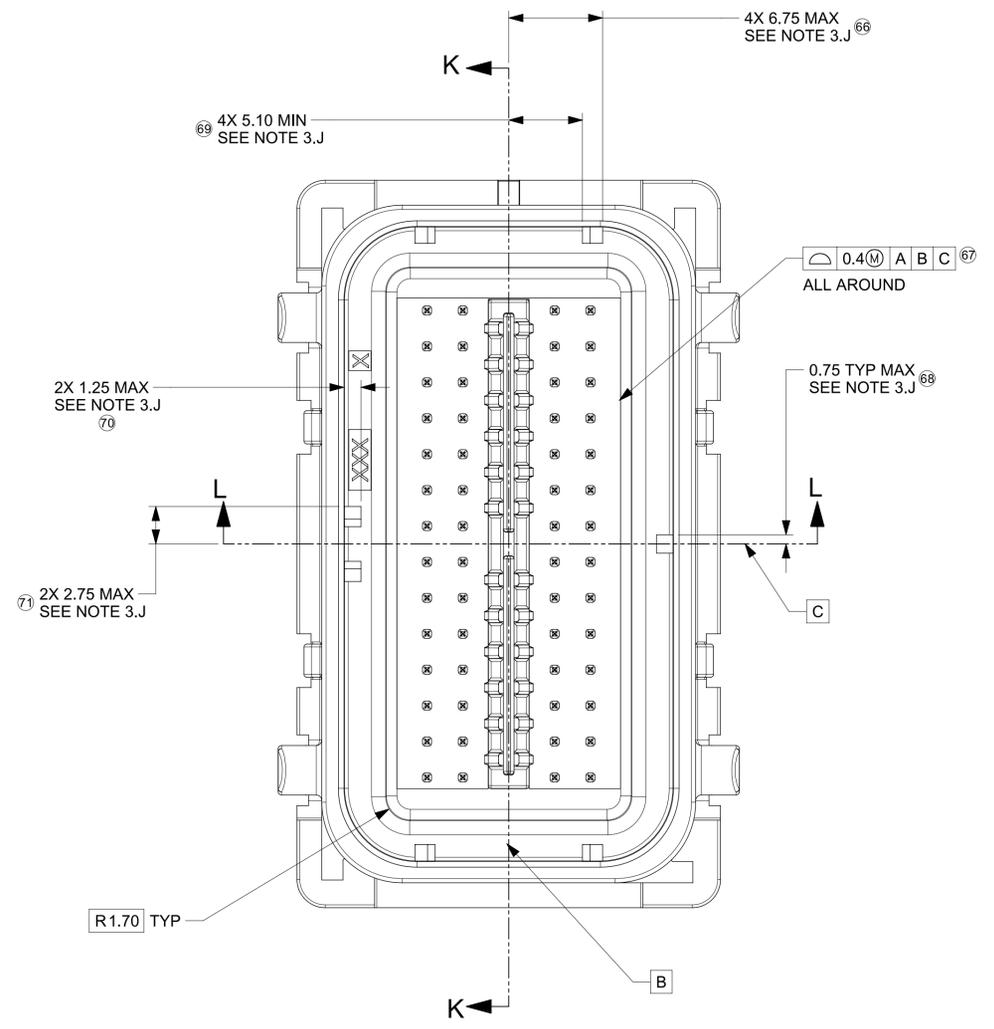
FUNCTIONAL SYMBOLS	THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX ELECTRONIC TECHNOLOGIES, LLC AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION		CURRENT REV DESC: SEE REVISION TABLE	
	DIMENSION UNITS	SCALE		
$\frac{F}{A} = 0$	mm	1:1		
$\frac{F}{C} = 0$	GENERAL TOLERANCES (UNLESS SPECIFIED)			
$\frac{F}{P} = 0$	ANGULAR TOL ± °			
DIVISIONAL SYMBOLS	4 PLACES	±		
	3 PLACES	±		
	2 PLACES	±		
	1 PLACE	±		
	0 PLACES	±		
DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		THIRD ANGLE PROJECTION	DRAWING	SERIES
			A1-SIZE	160099
		STATUS: Production		2023-02-03
		DRWN: ADARSH SETTY		2023-03-08
		CHK'D: Anil Kumar M S		2023-03-08
		APPR: Brad Dick		
		DOCUMENT NUMBER		DOC TYPE   DOC PART   REVISION
		1600990001-SD		PSD   000   A9
		MATERIAL NUMBER		CUSTOMER
				SHEET NUMBER
				15 OF 17

**molex**

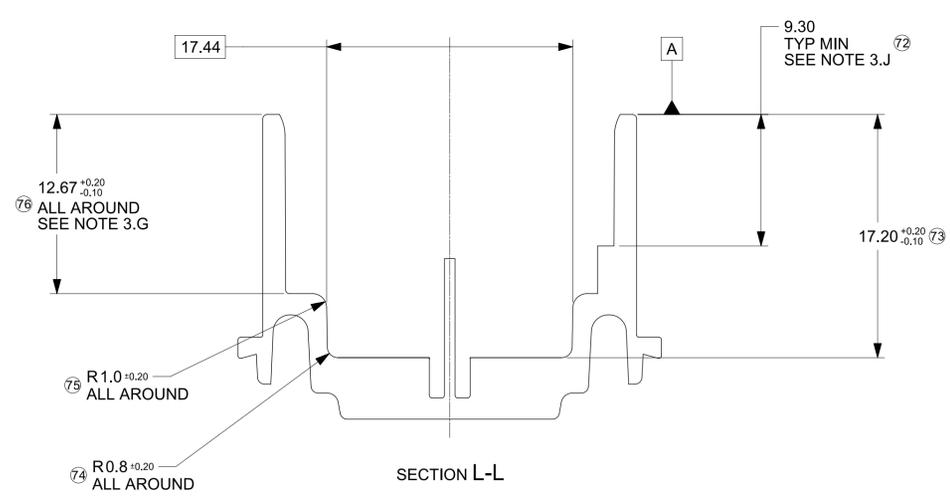
SDC56 56CKT HRNS CONN ASSY

PRODUCT SALES DRAWING

SHEET DESCRIPTION  
CONNECTOR PARTITION DEFINITION



SECTION K-K

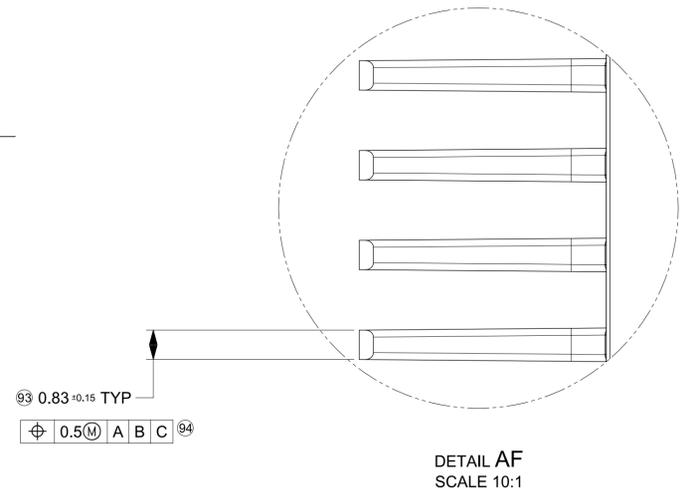
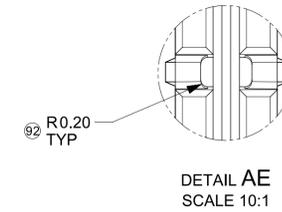
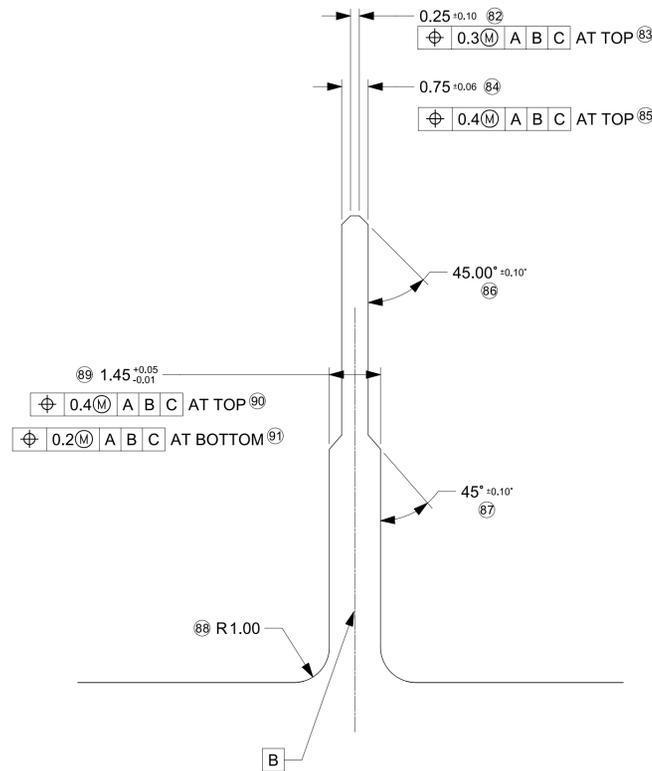
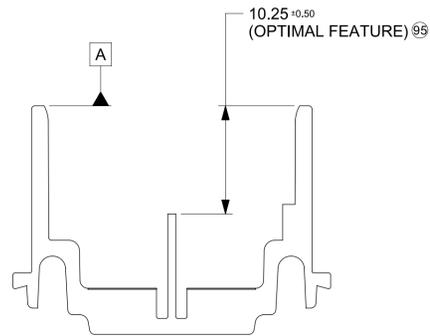
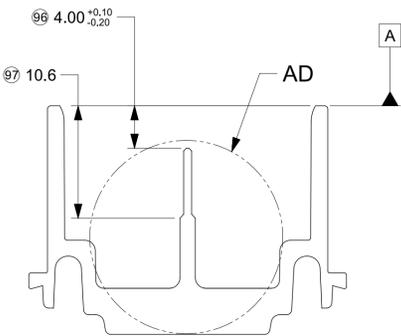
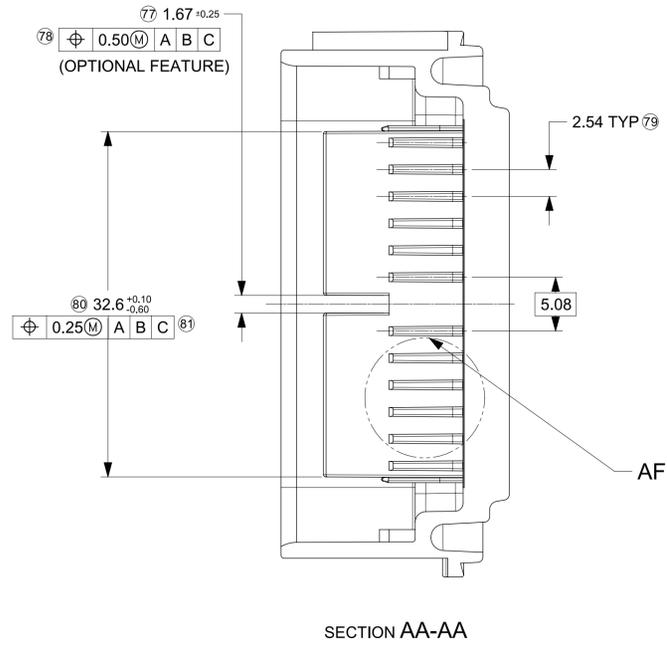
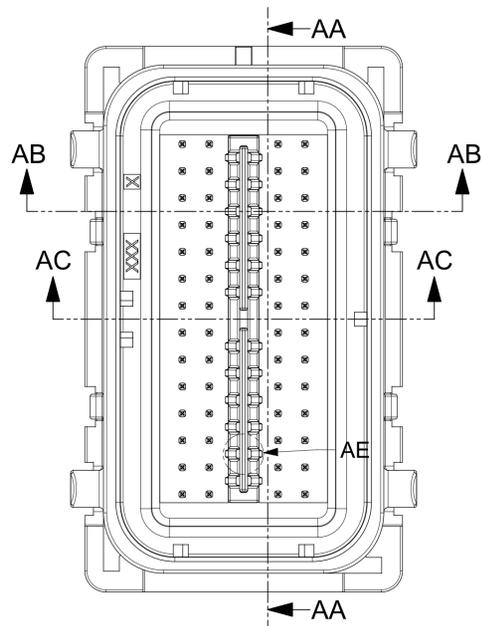


SECTION L-L

<b>FUNCTIONAL SYMBOLS</b> $\frac{F}{A} = 0$ $\frac{F}{C} = 0$ $\frac{F}{P} = 0$ <b>DIVISIONAL SYMBOLS</b>	THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX ELECTRONIC TECHNOLOGIES, LLC AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION		CURRENT REV DESC: SEE REVISION TABLE				
	DIMENSION UNITS	SCALE	 SDC56 56CKT HRNS CONN ASSY PRODUCT SALES DRAWING				
	mm	1:1					
	GENERAL TOLERANCES (UNLESS SPECIFIED)						
ANGULAR TOL	± °						
4 PLACES	±	STATUS: Production DRWN: ADARSH SETTY CHK'D: Anil Kumar M S APPR: Brad Dick	2023-02-03	DOCUMENT NUMBER	DOC TYPE	DOC PART	REVISION
3 PLACES	±		2023-03-08	1600990001-SD	PSD	000	A9
2 PLACES	±		2023-03-08				
1 PLACE	±						
0 PLACES	±						
DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		THIRD ANGLE PROJECTION	DRAWING	SERIES	MATERIAL NUMBER	CUSTOMER	SHEET NUMBER
			A1-SIZE	160099			16 OF 17

SHEET DESCRIPTION

CONNECTOR PARTITION DEFINITION - ANTI SCOOP RIB



<b>FUNCTIONAL SYMBOLS</b> $\frac{F}{A} = 0$ $\frac{F}{C} = 0$ $\frac{F}{P} = 0$	THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX ELECTRONIC TECHNOLOGIES, LLC AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION	DIMENSION UNITS: <b>mm</b> SCALE: <b>1:1</b>	CURRENT REV DESC: SEE REVISION TABLE				
	GENERAL TOLERANCES (UNLESS SPECIFIED) ANGULAR TOL ± °	STATUS: Production DRWN: ADARSH SETTY CHK'D: Anil Kumar M S APPR: Brad Dick	2023-02-03 2023-03-08 2023-03-08				DOCUMENT NUMBER: <b>1600990001-SD</b> DOC TYPE: PSD DOC PART: 000 REVISION: <b>A9</b>
	<b>DIVISIONAL SYMBOLS</b> 4 PLACES ± 3 PLACES ± 2 PLACES ± 1 PLACE ± 0 PLACES ±	DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS	THIRD ANGLE PROJECTION	DRAWING: <b>A1-SIZE</b> SERIES: <b>160099</b>	MATERIAL NUMBER:	CUSTOMER:	SHEET NUMBER: <b>17 OF 17</b>
	PRODUCT SALES DRAWING			SDC56 56CKT HRNS CONN ASSY			



ASSEMBLY DESCRIPTION	ASSEMBLY PART NUMBER	CONNECTOR HOUSING	GROMMET CAP	TPA	RIGHT SLIDE	LEFT SLIDE	MATE ASSIST LEVER	CPA	MAT SEAL	RING SEAL	BLOCKED TERMINALS																STATUS	COMMENTS	INTEGRAL COMPONENTS SOLD SEPARATELY DRESS COVER	
											CAVITY WITH A NUMBER INDICATES BLOCKED TERMINAL POSITION CAVITY WITHOUT A NUMBER INDICATES OPEN TERMINAL POSITION																			
											1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16				
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	
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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	
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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	
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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	-	-	-	-	-	-	-	SALEABLE		1600995001	
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											-	-	12	-	-	-	-	-	7	6	-	-	-	-	-	-				-
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	-	-	-	-	-	-	SALEABLE		1600995001		
											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	-	-	-	-	-	-				-	-
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	-	-	-	-	-	-	SALEABLE		1600995001		
											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	-	-	-	-	-	-				-	-
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	-	-	-	-	-	SALEABLE		1600995001		
											-	-	-	-	-	-	-	-	-	-	32	31	30	29	-				-	
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											-	-	-	-	10	9	-	-	-	-	4	3	-	-	-				-	-
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	-	SALEABLE		1600995001		
											-	-	-	-	-	-	36	35	34	33	32	31	30	29	-				-	
											-	-	26	-	-	-	-	-	20	19	18	17	16	15	-				-	-
											-	-	-	-	-	-	8	7	6	5	4	3	2	1	-				-	-
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	-	-	-	SALEABLE		1600995001		
											-	41	40	-	-	37	36	35	34	-	-	31	-	-	-				-	
											-	-	-	-	24	23	22	21	20	19	18	17	16	15	-				-	-
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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	-	SALEABLE		1600995001		
											42	41	40	39	-	-	-	-	-	-	32	31	30	29	-				-	
											28	27	26	-	24	23	22	21	20	19	18	17	16	15	-				-	-
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ASSEMBLY DESCRIPTION	ASSEMBLY PART NUMBER	CONNECTOR HOUSING	GROMMET CAP	TPA	RIGHT SLIDE	LEFT SLIDE	MATE ASSIST LEVER	CPA	MAT SEAL	RING SEAL	BLOCKED TERMINALS																STATUS	COMMENTS	INTEGRAL COMPONENTS SOLD SEPARATELY DRESS COVER	
											CAVITY WITH A NUMBER INDICATES BLOCKED TERMINAL POSITION CAVITY WITHOUT A NUMBER INDICATES OPEN TERMINAL POSITION																			
											1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16				17
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	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	SALEABLE		1600995001	
											-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-				-
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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	-	-	-	-	-	-	SALEABLE		1600995001	
											42	41	-	-	-	-	-	-	-	-	32	31	30	29	-	-				-
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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	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	SALEABLE		1600995001	
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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	-	-	-	-	-	SALEABLE		1600995001	
											-	41	-	-	-	-	-	-	34	-	-	31	-	-	-	-				
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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	-	-	-	SALEABLE		1600995001	
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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	-	-	-	-	-	-	-	SALEABLE		1600995001	
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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	-	-	-	-	-	SALEABLE		1600995001	
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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			
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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			
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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	-	-	SALEABLE		1600995001	
											42	41	40	39	-	-	-	-	-	-	32	31	30	29	-	-				
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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	-	-	-	-	-	-	SALEABLE		1600995001	
											42	41	-	-	-	-	-	-	-	-	32	31	30	29	-	-				
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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	-	-	-	-	SALEABLE		1600995001	
											-	41	40	-	-	37	-	35	34	-	-	31	-	-	-	-				
											-	-	-	-	24	23	22	21	20	19	18	17	16	15	-	-				-
											-	-	-	-	-	-	-	-	6	5	4	3	2	1	-	-				-

ASSEMBLY DESCRIPTION	ASSEMBLY PART NUMBER	CONNECTOR HOUSING	GROMMET CAP	TPA	RIGHT SLIDE	LEFT SLIDE	MATE ASSIST LEVER	CPA	MAT SEAL	RING SEAL	BLOCKED TERMINALS																STATUS	COMMENTS	INTEGRAL COMPONENTS SOLD SEPARATELY DRESS COVER	
											CAVITY WITH A NUMBER INDICATES BLOCKED TERMINAL POSITION CAVITY WITHOUT A NUMBER INDICATES OPEN TERMINAL POSITION																			
											1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16				17
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	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	SALEABLE		1600995001	
											-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-				-
											28	27	-	-	24	23	22	21	20	19	18	17	16	15	-	-				-
											-	-	-	-	10	9	-	-	-	-	4	3	-	-	-	-				-
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	-	-	-	SALEABLE		1600995001
											-	-	-	-	-	-	-	36	35	34	33	32	31	30	29	-	-			
											-	-	26	-	24	-	22	21	20	19	18	17	16	15	-	-	-			
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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	-	-	-	-	SALEABLE		1600995001	
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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	-	-	-	SALEABLE		1600995001
											-	-	-	-	38	37	36	35	34	33	-	-	30	29	-	-				
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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	-	-	SALEABLE		1600995001	
											-	-	-	-	-	-	-	-	-	33	-	-	-	-	-	-				
											28	27	26	-	-	-	-	21	-	-	18	17	-	-	-	-				
											14	13	12	-	-	-	-	-	-	-	-	3	-	-	-	-				-
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	-	-	-	SALEABLE		1600995001		
											-	41	-	-	-	-	36	35	34	-	-	31	-	-	-				-	
											-	-	-	-	24	23	22	21	20	19	18	17	16	15	-				-	-
											-	-	-	-	-	-	-	-	6	5	4	3	2	1	-				-	-
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	-	-	SALEABLE		1600995001		
											42	41	40	39	38	37	36	35	34	-	32	31	30	29	-				-	
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											-	-	-	11	10	9	8	7	6	5	4	-	2	1	-				-	-
SDC56 ASSY RCPT 56CKT BLK OPT 0 KEY J/22	1600991013	C-HSG-J0	G-CAP-0	TPA-J0	RS	LS	MAL	CPA	MSEAL	RSEAL	-	-	-	-	-	-	50	49	48	47	46	45	44	43	-	-	SALEABLE		1600995001	
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											-	-	26	-	-	-	22	21	20	19	18	17	16	15	-	-				-
											-	-	-	-	-	9	8	7	6	5	4	3	2	1	-	-				-
SDC56 ASSY RCPT 56CKT BLU OPT 0 KEY G/42	1600991014	C-HSG-G0	G-CAP-0	TPA-G0	RS	LS	MAL	CPA	MSEAL	RSEAL	-	-	-	-	52	51	50	-	-	-	-	-	-	-	-	SALEABLE		1600995001		
											-	41	40	-	-	37	-	-	34	-	-	31	-	-	-				-	
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SDC56 ASSY RCPT 56CKT GRY OPT 0 KEY H/42	1600991015	C-HSG-H0	G-CAP-0	TPA-H0	RS	LS	MAL	CPA	MSEAL	RSEAL	-	-	-	-	52	51	50	-	-	-	-	-	-	-	-	SALEABLE		1600995001		
											-	41	40	-	-	37	-	-	34	-	-	31	-	-	-				-	
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SDC56 ASSY RCPT 56CKT BLU OPT 0 KEY G/41	1600991016	C-HSG-G0	G-CAP-0	TPA-G0	RS	LS	MAL	CPA	MSEAL	RSEAL	-	-	-	-	52	51	50	-	-	-	-	45	-	-	-	SALEABLE		1600995001		
											-	41	40	-	-	37	-	-	34	-	-	31	-	-	-				-	
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SDC56 ASSY RCPT 56CKT GRY OPT 0 KEY H/46	1600991017	C-HSG-H0	G-CAP-0	TPA-H0	RS	LS	MAL	CPA	MSEAL	RSEAL	-	-	-	-	-	-	-	-	48	47	-	-	-	-	-	SALEABLE		1600995001		
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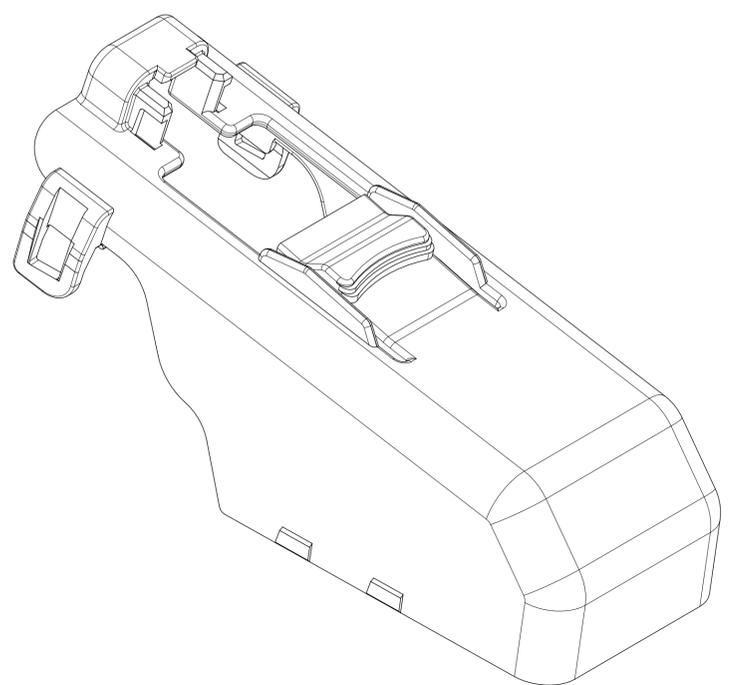


ASSEMBLY DESCRIPTION	ASSEMBLY PART NUMBER	CONNECTOR HOUSING	GROMMET CAP	TPA	RIGHT SLIDE	LEFT SLIDE	MATE ASSIST LEVER	CPA	MAT SEAL	RING SEAL	BLOCKED TERMINALS								STATUS	COMMENTS	INTEGRAL COMPONENTS SOLD SEPARATELY DRESS COVER								
											CAVITY WITH A NUMBER INDICATES BLOCKED TERMINAL POSITION CAVITY WITHOUT A NUMBER INDICATES OPEN TERMINAL POSITION																		
											1	2	3	4	5	6	7	8				9	10	11	12	13	14	15	16
SDC56 ASSY RCPT 56CKT BLK OPT 0 KEY J/33	1600991030	C-HSG-J0	G-CAP-0	TPA-J0	RS	LS	MAL	CPA	MSEAL	RSEAL	-	-	-	-	-	50	49	48	47	-	-	44	43	SALEABLE		1600995001			
											-	-	-	-	-	-	36	35	-	-	-	-	30				29		
											-	-	-	-	24	-	22	21	-	-	18	17	16				15		
											-	-	-	-	-	-	8	7	6	5	-	-	2				1		
SDC56 ASSY RCPT 56CKT BLU OPT 0 KEY G/25	1600991031	C-HSG-G0	G-CAP-0	TPA-G0	RS	LS	MAL	CPA	MSEAL	RSEAL	-	-	54	53	52	51	50	49	48	-	-	45	-	-	SALEABLE		1600995001		
											-	41	40	-	-	37	36	35	34	-	-	31	-	-					
											-	-	-	-	24	23	22	21	20	19	18	17	16	15					
											-	-	-	-	-	-	-	-	6	5	4	3	2	1					
SDC56 ASSY RCPT 56CKT BLU OPT 9 KEY G/29	1600991032	C-HSG-G9	G-CAP-9	TPA-G9	RS	LS	MAL	CPA	MSEAL	RSEAL	-	-	-	-	52	-	-	49	48	-	-	45	-	-	SALEABLE		1600995001		
											-	41	40	-	-	37	36	35	34	-	-	31	-	-					
											-	-	-	-	24	23	22	21	20	19	18	17	16	15					
											-	-	-	-	-	-	-	-	6	5	4	3	2	1					
SDC56 ASSY RCPT 56CKT BLU OPT 0 KEY G/30	1600991033	C-HSG-G0	G-CAP-0	TPA-G0	RS	LS	MAL	CPA	MSEAL	RSEAL	56	55	54	-	52	51	50	49	-	47	-	-	-	-	SALEABLE		1600995001		
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											-	-	26	25	24	-	-	-	-	19	18	-	-	-					
											-	-	-	-	-	-	-	-	-	-	-	-	2	1					
SDC56 ASSY RCPT 56CKT BLK OPT 0 KEY J/34	1600991034	C-HSG-J0	G-CAP-0	TPA-J0	RS	LS	MAL	CPA	MSEAL	RSEAL	-	-	-	-	-	50	49	48	47	-	-	44	43	SALEABLE		1600995001			
											-	-	-	-	-	-	36	35	-	-	32	31	30				29		
											-	-	26	-	-	-	22	21	20	19	-	-	-				-		
											-	-	-	-	-	9	8	7	6	5	-	-	-				-		
SDC56 ASSY RCPT 56CKT BLU OPT 0 KEY G/41	1600991035	C-HSG-G0	G-CAP-0	TPA-G0	RS	LS	MAL	CPA	MSEAL	RSEAL	-	-	-	-	-	51	50	-	-	-	46	-	-	-	SALEABLE		1600995001		
											-	41	-	-	38	-	36	-	34	33	-	-	-	-					
											-	-	-	25	-	-	-	-	-	-	18	-	-	-					
											-	13	12	11	10	9	-	-	-	-	-	-	-	-					
SDC56 ASSY RCPT 56CKT BLU OPT 0 KEY G/31	1600991036	C-HSG-G0	G-CAP-0	TPA-G0	RS	LS	MAL	CPA	MSEAL	RSEAL	-	55	-	53	52	51	50	49	48	47	-	-	44	-	SALEABLE		1600995001		
											-	41	-	-	38	-	36	-	-	-	32	31	30	-					
											-	27	26	25	24	-	-	-	-	19	18	-	-	-					
											-	-	-	-	-	-	-	-	-	5	4	3	2	-					
SDC56 ASSY RCPT 56CKT BLU OPT 0 KEY G/28	1600991037	C-HSG-G0	G-CAP-0	TPA-G0	RS	LS	MAL	CPA	MSEAL	RSEAL	-	-	-	-	52	51	50	49	48	-	-	45	-	-	SALEABLE		1600995001		
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											-	-	-	-	24	23	22	21	20	19	18	17	16	15					
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											-	-	-	25	-	-	-	-	-	-	18	-	-	-					
											-	-	12	11	10	9	-	-	-	-	-	-	-	-					
SDC56 ASSY RCPT 56CKT BLU OPT 0 KEY G/32	1600991039	C-HSG-G0	G-CAP-0	TPA-G0	RS	LS	MAL	CPA	MSEAL	RSEAL	-	55	-	53	52	51	50	49	48	47	-	-	44	-	SALEABLE		1600995001		
											-	41	-	-	38	-	36	-	-	-	32	31	30	-					
											-	-	26	25	24	-	-	-	-	19	18	-	-	-					
											-	-	-	-	-	-	-	-	-	5	4	3	2	-					
SDC56 ASSY RCPT 56CKT BLK OPT 0 KEY J/23	1600991040	C-HSG-J0	G-CAP-0	TPA-J0	RS	LS	MAL	CPA	MSEAL	RSEAL	-	-	-	-	-	50	49	48	47	46	45	44	43	SALEABLE		1600995001			
											-	-	-	-	-	-	36	35	34	33	32	31	30				29		
											-	-	-	-	24	-	22	21	20	19	18	17	16				15		
											-	-	-	-	-	-	8	7	6	5	4	3	2				1		
SDC56 ASSY RCPT 56CKT NAT OPT 0 KEY M/19	1600991041	C-HSG-M0	G-CAP-0	TPA-M0	RS	LS	MAL	CPA	MSEAL	RSEAL	-	-	-	-	52	51	50	49	48	47	46	45	44	43	SALEABLE		1600995001		
											-	-	-	-	38	37	36	35	34	33	32	31	30	29					
											-	-	-	-	24	-	22	21	20	19	18	17	16	15					
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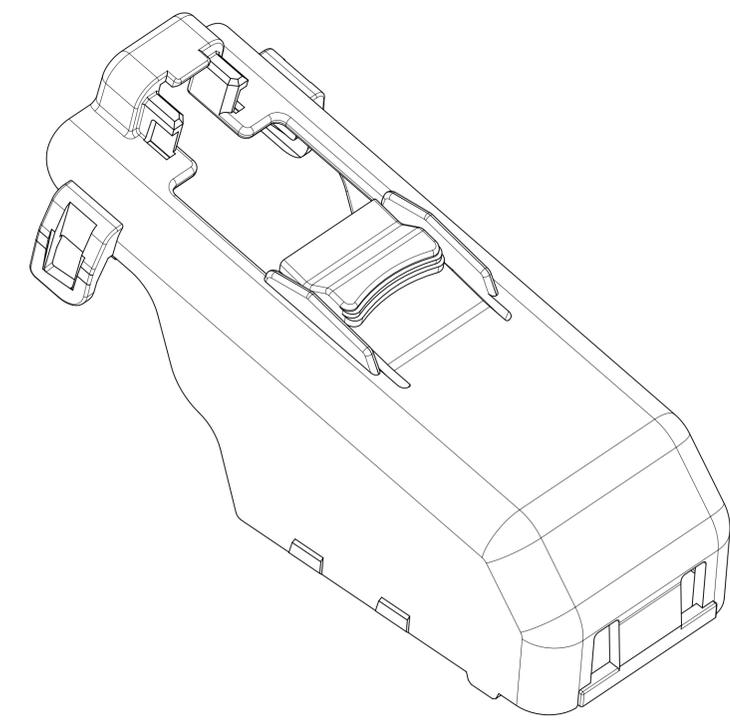


TABLE OF CONTENTS	
SHEET NO.	SHEET DESCRIPTION
1	NOTES AND BOM
2	DATUM TARGETS TYPE 2
3	DATUM TARGETS TYPE 1

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

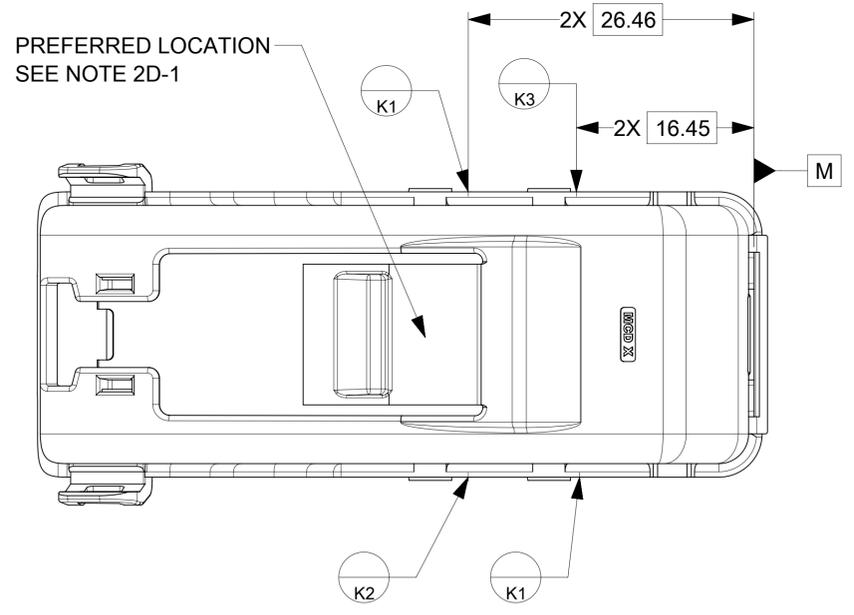
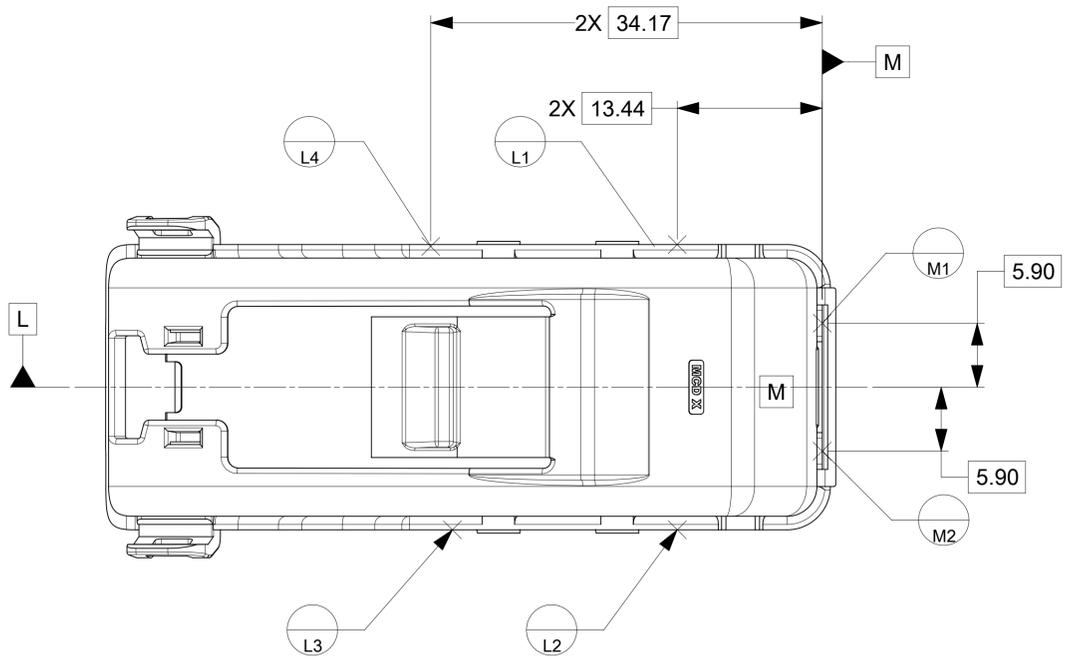
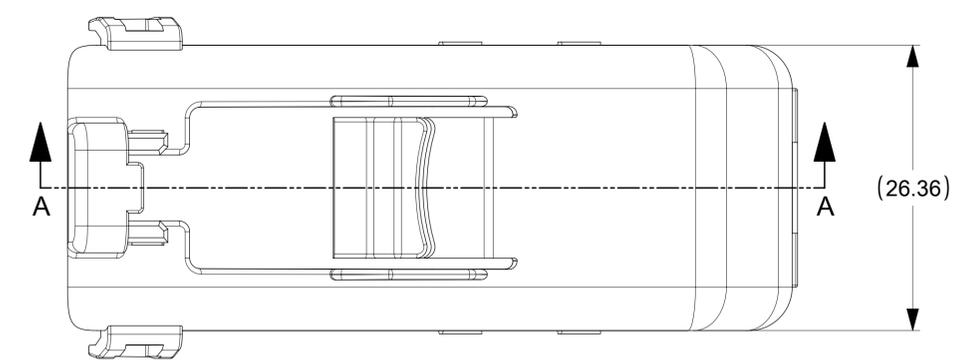
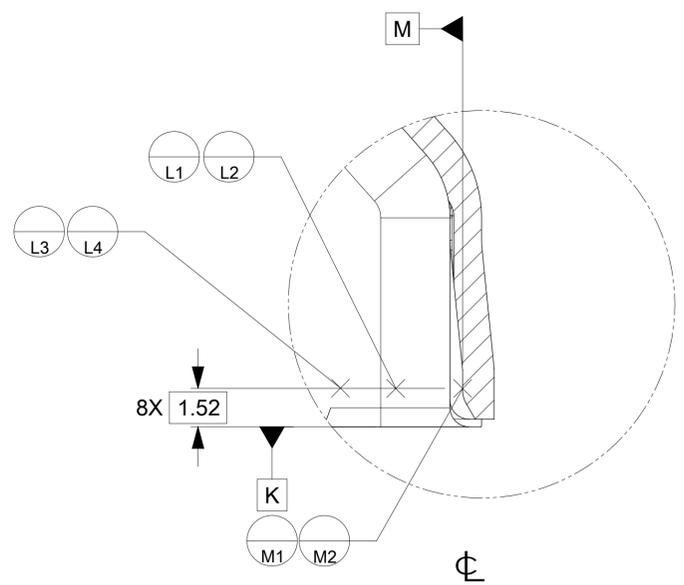
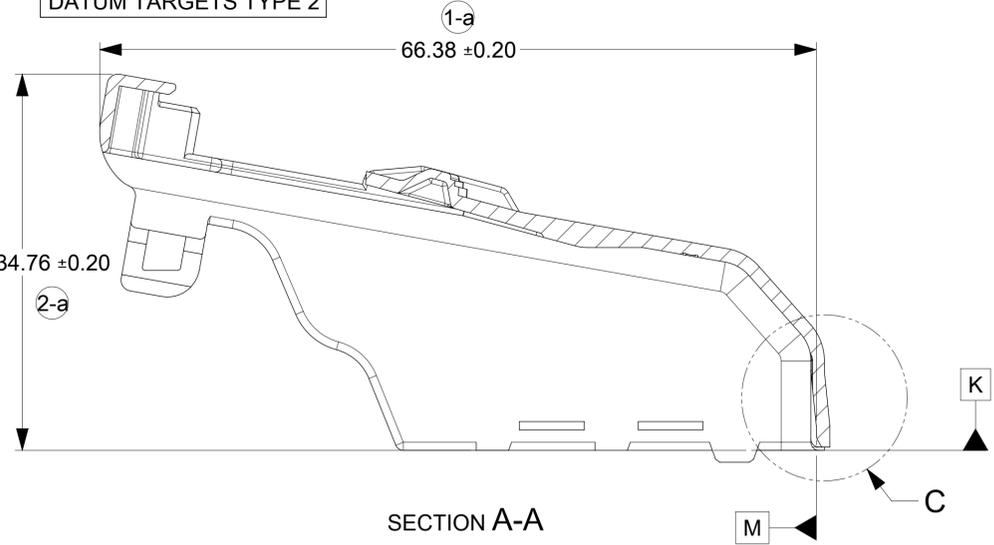
NOTES: VALID UNLESS OTHERWISE SPECIFIED

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°
  - d. EDGES AND UNDIMENSIONED DETAILS PER ISO13715
  - e. CORNERS SHOWN AS SHARP TO BE R 0.2 MAX.
  - f. 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.
  - g. VISUAL DEFECTS SHALL MEET COSMETIC STANDARD PS-45499-002 (Class B).
  - h. LASER MARKING: N/A

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	INITIAL RELEASE
REV	DESCRIPTION

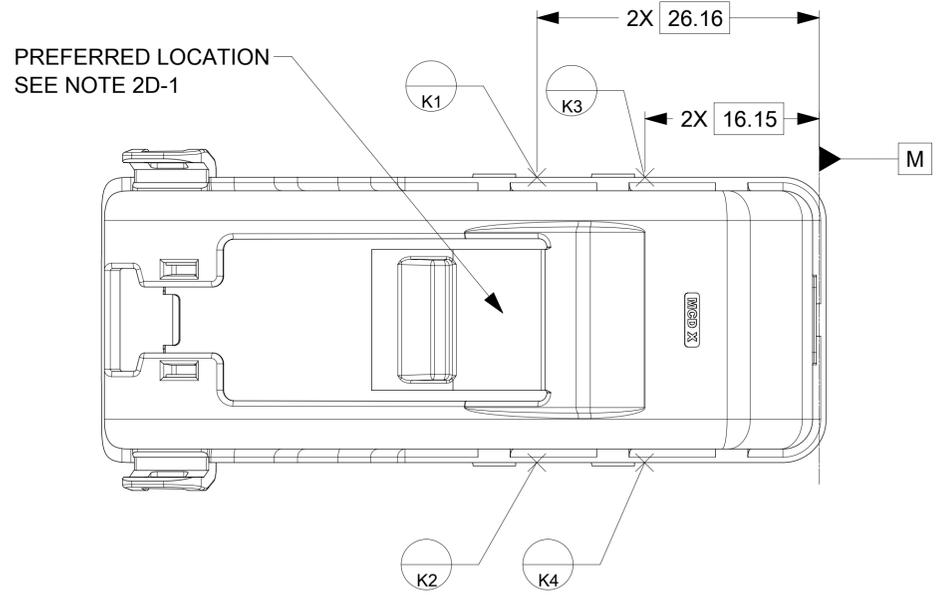
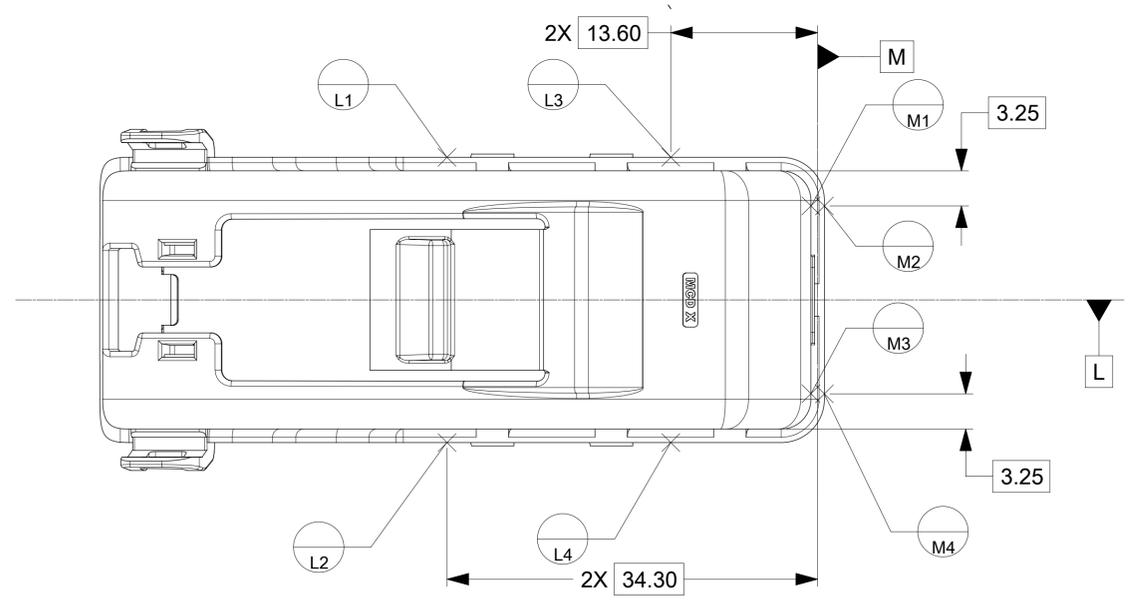
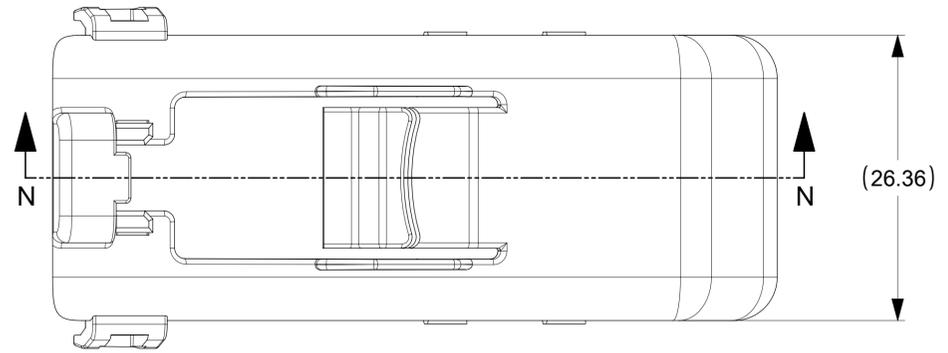
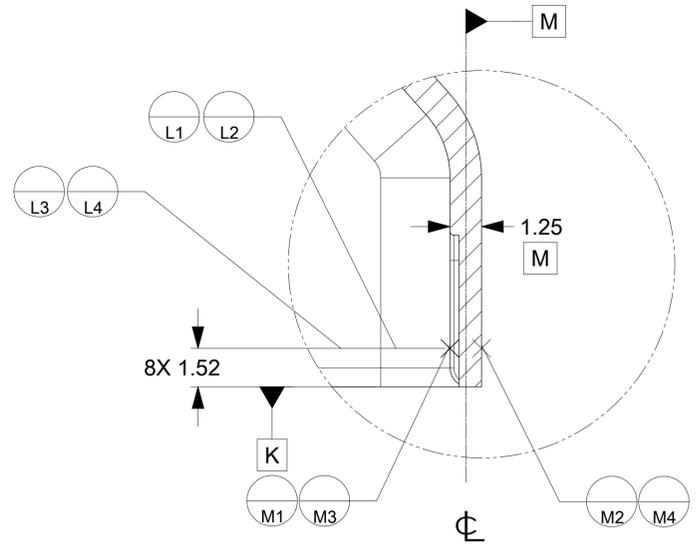
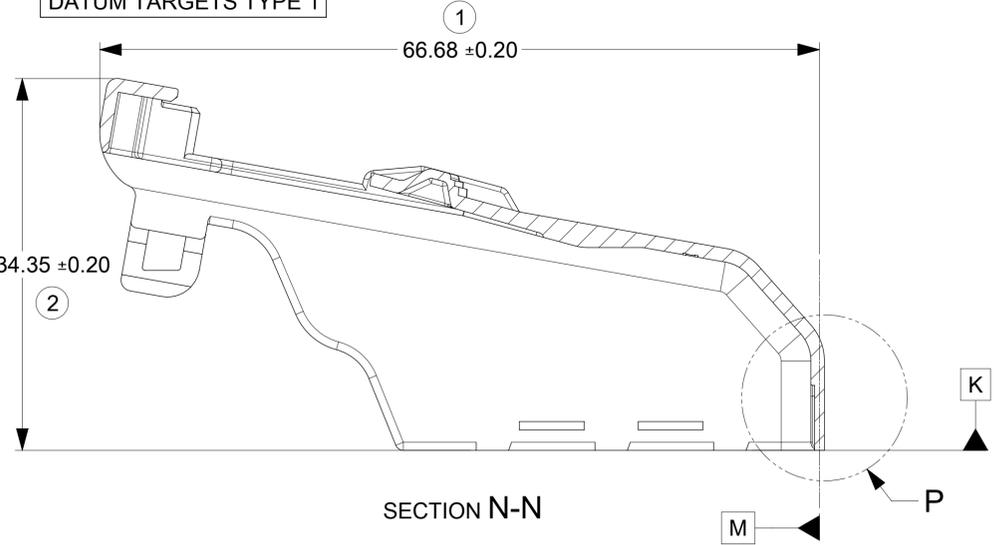
QUALITY SYMBOLS F = 0 E = 0 D = 0 C = 0 B = 0 A = 0 0 = 0 1 = 0 2 = 0 3 = 0 4 = 0 5 = 0 6 = 0 7 = 0 8 = 0 9 = 0 10 = 0 11 = 0 12 = 0 13 = 0 14 = 0 15 = 0 16 = 0 17 = 0 18 = 0 19 = 0	THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX ELECTRONIC TECHNOLOGIES, LLC AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION		DIMENSION UNITS <b>mm</b>	SCALE <b>4:1</b>	
	EC NO: 685152 DRWN: HKANG03 CHKD: STTAN REV 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	DRWN BY <b>APODDATURI</b>	
		DRWN BY <b>SKRAJENDRANA</b>	DATE <b>2017/01/20</b>		<b>PRODUCT CUSTOMER DRAWING</b>
		DRWN BY <b>VKOSHY</b>	DATE <b>2017/01/20</b>		
		DRAWING SIZE <b>D</b>	THIRD ANGLE PROJECTION		MATERIAL NUMBER <b>1600995001-SD</b>
				DOC TYPE <b>PSD</b>	DOC PART <b>000</b>
				SHEET NUMBER <b>1 OF 3</b>	

SHEET DESCRIPTION  
DATUM TARGETS TYPE 2



<b>QUALITY SYMBOLS</b> F = 0 E = 0 D = 0 C = 0 B = 0 A = 0 □ = 0 ■ = 0 ▽ = 0	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 CHKD: STTAN REV APPR: STTAN	2021/11/16 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: 2017/01/20 CHKD BY: SKRAJENDRANA DATE: 2017/01/20 APPR BY: VKOSHY DATE: 2017/01/20 DRAWING SIZE: D THIRD ANGLE PROJECTION	
				SDC56 56CKT DRESS COVER	
				PRODUCT CUSTOMER DRAWING	
			SERIES: 160099	MATERIAL NUMBER: 1600995001-SD	CUSTOMER: PSD 000
	RELEASE STATUS: P1		RELEASE DATE: 2021/11/16 03:27:51	DOCUMENT NUMBER: 1600995001-SD	
			DOC TYPE: PSD		DOC PART: 000
			SHEET NUMBER: 2 OF 3		

SHEET DESCRIPTION  
DATUM TARGETS TYPE 1



<b>QUALITY SYMBOLS</b> F = 0 E = 0 D = 0 C = 0 B = 0 A = 0 8 = 0 7 = 0	THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX ELECTRONIC TECHNOLOGIES, LLC AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION			
	2021/11/16	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION UNITS
	2021/11/16	ANGULAR TOL ± °		SCALE
	2021/11/16	4 PLACES ±	mm	2:1
	EC NO: 685152 DRWN: HKANG03 CHKD: STTAN REV APPR: STTAN	3 PLACES ±	DRWN BY	DATE
		2 PLACES ±	APODDATURI	2017/01/20
		1 PLACE ±	CHKD BY	DATE
		0 PLACES ±	SKRAJENDRANA	2017/01/20
	DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS	APPR BY	DATE	
		VKOSHY	2017/01/20	
	DRAWING SIZE	THIRD ANGLE PROJECTION		
	D			
	SERIES		CUSTOMER	
	160099			
	DOCUMENT NUMBER	DOC TYPE	DOC PART SHEET NUMBER	
	1600995001-SD	PSD	000 3 OF 3	