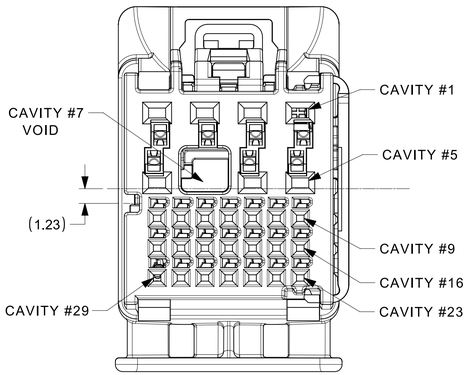
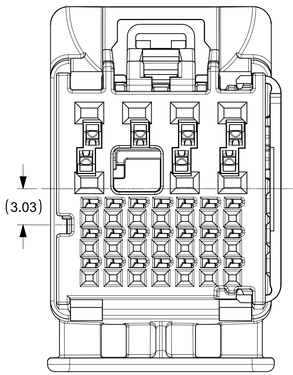
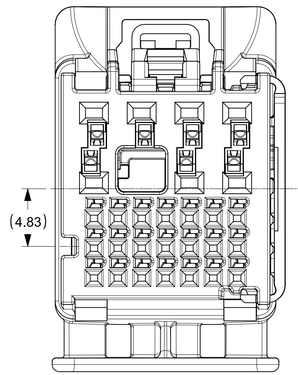


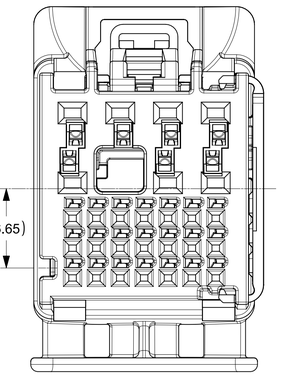
28 WAY CONNECTOR ASSY
(CAVITY #7 VOID)
KEY 1
P/N 1600140011



28 WAY CONNECTOR ASSY
(CAVITY #7 VOID)
KEY 2
P/N 1600140012



28 WAY CONNECTOR ASSY
(CAVITY #7 VOID)
KEY 3
P/N 1600140013



28 WAY CONNECTOR ASSY
(CAVITY #7 VOID)
KEY 4
P/N 1600140014

PART NUMBER	STATUS	PLATING	SUPPLIER	WIRE GAGE (mm2)	TERMINAL FAMILY	WIRE SPECIFICATION
200096-3101	ACTIVE	TIN PLATING	MOLEX	0.35	TAK FAMILY (0.5 mm)	VW 60306 or GMW 15626 (SEE APPLICATION SPECIFICATION FOR MORE DETAILS)
200096-3201	ACTIVE	TIN PLATING	MOLEX	0.13	TAK FAMILY (0.5 mm)	
2272196-2	ACTIVE	TIN PLATING	TE	0.35	Generation 50 Locking Lance (0.5mm)	SAE/ J1128 THIN WALL INSULATION GMW 15626 INSULATION TYPE FLR (REGULAR THIN WALL) B1
2272196-1	ACTIVE	TIN PLATING	TE	0.13	Generation 50 Locking Lance (0.5mm)	
35072403	ACTIVE	TIN PLATING	DELPHI	0.35 - 0.5	TAXI TERM OCS 1.2	
35072404	ACTIVE	TIN PLATING	DELPHI	0.75 - 0.8		
35072405	ACTIVE	TIN PLATING	DELPHI	0.8 - 1.0		
B ~~35072406~~	~~OBSOLETE~~	~~TIN PLATING~~	~~DELPHI~~	~~1.25 - 1.5~~		
B 35457252	ACTIVE	TIN PLATING	DELPHI	1.25 - 1.5		
SMSA-A031T-M1.2	ACTIVE	TIN PLATING	JST	0.5 - 0.75	MSA 1.2mm TERMINAL	
SMSA-A041T-M1.2	ACTIVE	TIN PLATING	JST	1.0 - 1.5	MSA 1.2mm TERMINAL	

NOTES: VALID UNLESS OTHERWISE SPECIFIED

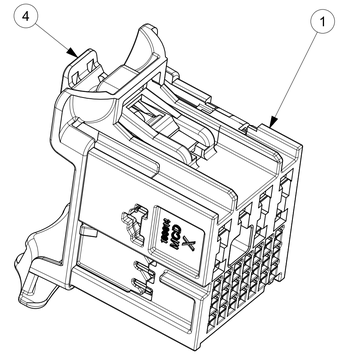
27WAY/28WAY ARE DEPOPULATED VARIANTS OF THE 29WAY

1. GENERAL:
a. APPLICATION SPECIFICATION SEE: AS-160014-001
b. PRODUCT SPECIFICATION SEE: PS-160014-001
c. PACKAGING SPECIFICATION PER MOLEX DRAWING: PK-31302-266
d. PARTS MUST BE IN COMPLIANCE TO MOLEX CHEMICAL SUBSTANCES FOR PRODUCTS AND PACKAGING SPECIFICATION: ES-40000-5016
e. DATA MUST BE SUBMITTED UNDER THE MOLEX PART NUMBER TO IMDS (COMPANY ID#13255)

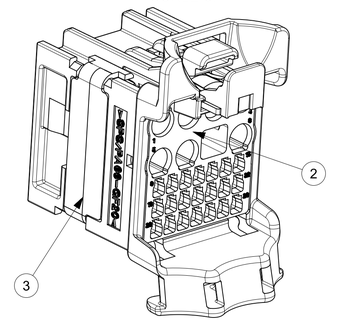
2. DESIGN - MATERIALS:
a. SEE BOM TABLE

3. DESIGN - GEOMETRY:
a. ALL GRAPHIC DATA IS BASIC (NO TOLERANCE) AND MUST BE TAKEN FROM THE DATA FILE AT ITS LATEST REVISION.
b. PRODUCT DESIGN MODEL NUMBER(S): SEE BOM TABLE
c. GEOMETRIC DIMENSIONS AND TOLERANCES PER ASME Y14.5-2009
d. EDGES AND UNDIMENSIONED DETAILS PER ISO13715
e. CORNERS SHOWN AS SHARP TO BE R 0.2 MAX.
f. MARKED TEXT TO INCLUDE RECYCLING CODE, CAVITY ID, VENDOR IDENTIFICATION, AND CUSTOMER MATERIAL NUMBER.
1. LASER ETCHED DATE CODE
1ST THROUGH 2ND DIGIT = CALENDAR YEAR
3RD THROUGH 5TH DIGIT = "DAY #" OF YEAR
6TH THROUGH 7TH DIGIT = HOUR OF DAY
8TH THROUGH 9TH DIGIT = MINUTE OF HOUR
10TH THROUGH 11TH DIGIT = SECOND OF MINUTE
2. LASER ETCHED ASSEMBLY LINE
"_X" DENOTES CAPACITY ASSEMBLY LINE SUCH AS "_2" OR MORE IN FUTURE

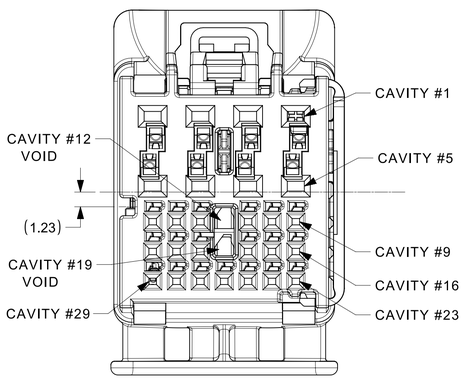
4. DESIGN - MANUFACTURING:
a. VISUAL DEFECTS SHALL MEET COSMETIC STANDARD PS-45499-002 (Class B)



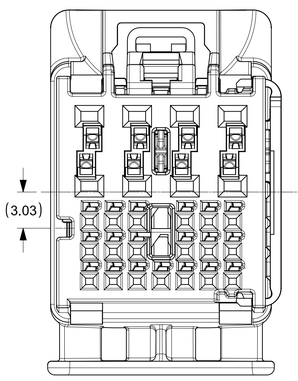
SCALE 3:1



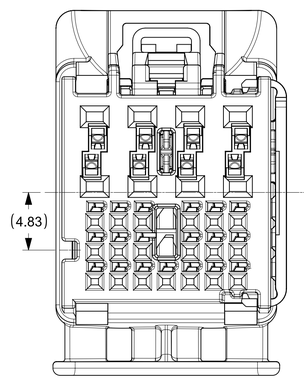
SCALE 3:1



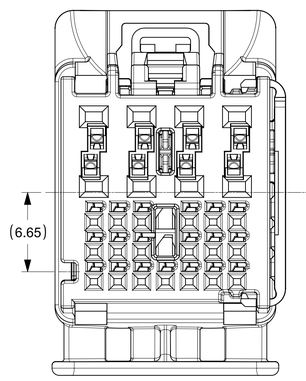
27 WAY CONNECTOR ASSY
(CAVITIES #12 & #19 VOID)
KEY 1
P/N 1600290011



27 WAY CONNECTOR ASSY
(CAVITIES #12 & #19 VOID)
KEY 2
P/N 1600290012



27 WAY CONNECTOR ASSY
(CAVITIES #12 & #19 VOID)
KEY 3
P/N 1600290013



27 WAY CONNECTOR ASSY
(CAVITIES #12 & #19 VOID)
KEY 4
P/N 1600290014

MOLEX ASSEMBLY PART NO.'S	CIRCUIT COUNT	KEY	OUTER SHROUD COLOR	COMPONENTS						
				ITEM 1				ITEM 2	ITEM 3	ITEM 4
				OUTER SHROUD KEY 1	OUTER SHROUD KEY 2	OUTER SHROUD KEY 3	OUTER SHROUD KEY 4	INNER HOUSING	ISL	CPA
				SPS/PA66-GF20	SPS/PA66-GF20	SPS/PA66-GF20	SPS/PA66-GF20	SPS/PA66-GF20	SPS-GF30	PA66-GF50
				1600140511	1600140512	1600140513	1600140514	1600140701	1600140601	1600140703
1600140011	28	1	DARK GRAY	1				STONE GRAY	1	1
1600140012	28	2	LT GREEN A		1			STONE GRAY	1	1
1600140013	28	3	LT GRAY			1		STONE GRAY	1	1
1600140014	28	4	BLACK				1	STONE GRAY	1	1
				1600290511	1600290512	1600290513	1600290514	1600290701	1600290601	1600140703
1600290011	27	1	BLACK	1				DARK GRAY	1	1
1600290012	27	2	LT GREEN B		1			DARK GRAY	1	1
1600290013	27	3	LT BLUE B			1		DARK GRAY	1	1
1600290014	27	4	PURPLE C				1	DARK GRAY	1	1

REVISION	DESCRIPTION
B1	UPDATED WIRE SPEC. FOR JST TERMINAL
B	UPDATED DELPHI 1.2 TERMINAL PN BOM
A8	UPDATED VIEW OF CAVITY NUMBER AND VOID CAVITY NUMBER
A7	UPDATED LASER MARK TO INCLUDE NEW CAPACITY ASSEMBLY LINE

INSPECTION BALLOON NUMBER LOG
PER DRAWING REVISION: B1
LAST BALLOON NUMBER: 2
ADDED BALLOON NUMBER: NONE
DELETED BALLOON NUMBER: NONE

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

FUNCTIONAL SYMBOLS: FA = 0, FC = 0, FP = 0
DIVISIONAL SYMBOLS

DIMENSION UNITS: mm
SCALE: 4:1

GENERAL TOLERANCES (UNLESS SPECIFIED)

ANGULAR TOL	± 3'
4 PLACES	±
3 PLACES	±
2 PLACES	± 0.300
1 PLACE	± 0.30
0 PLACES	± 0.30

DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS

CURRENT REV DESC: SEE REVISION SHEET

STATUS: Production
DRWN: Kenneth Dai 2024-08-19
CHK'D: Yann Chen 2024-10-18
APPR: Ringo Hu 2024-10-28

THIRD ANGLE PROJECTION | DRAWING: D-SIZE | SERIES: 160014

molex

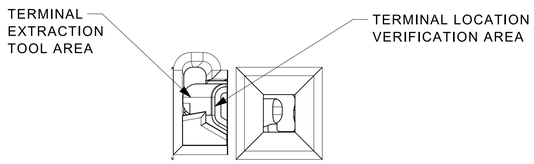
27/28 WAY STAK50H HYBRID ASSEMBLY
CONNECTOR ASSEMBLY

PRODUCT CUSTOMER DRAWING

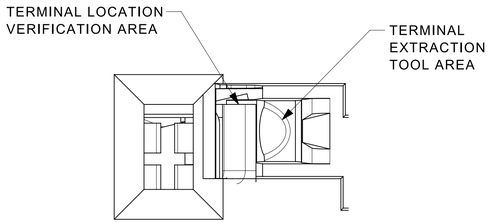
DOCUMENT NUMBER	DOC TYPE	DOC PART	REVISION
1600140011	PSD	000	B1

MATERIAL NUMBER	CUSTOMER	SHEET NUMBER
	GENERAL MARKET	1 OF 2

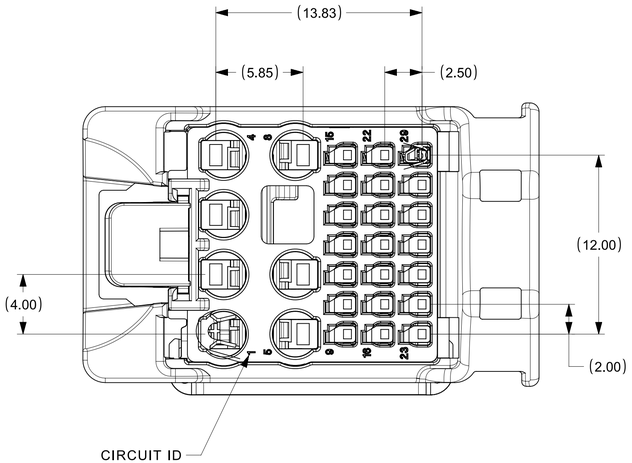
NOTE: 28 WAY CONNECTOR VARIANT SHOWN.
DIMENSIONS APPLY TO ALL CONNECTOR VARIANTS OF 29 WAY

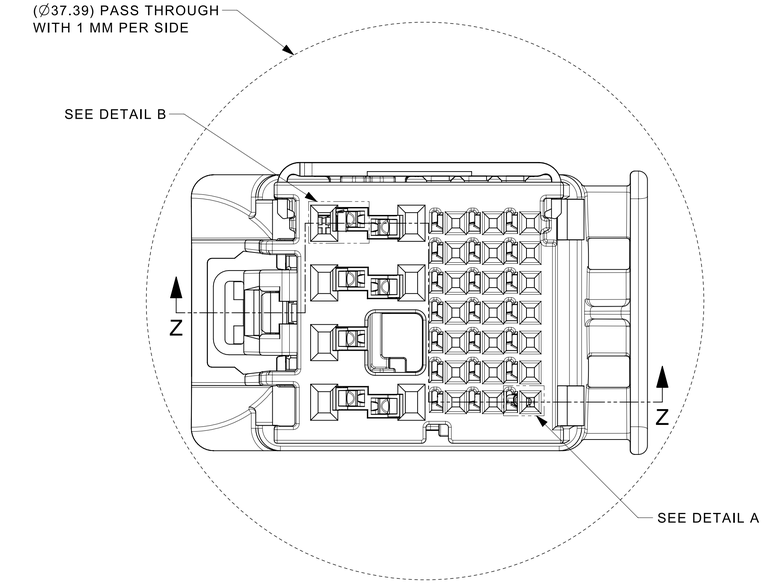


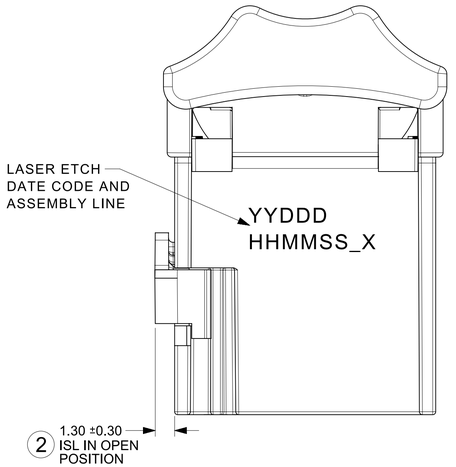
DETAIL A
SCALE 20:1

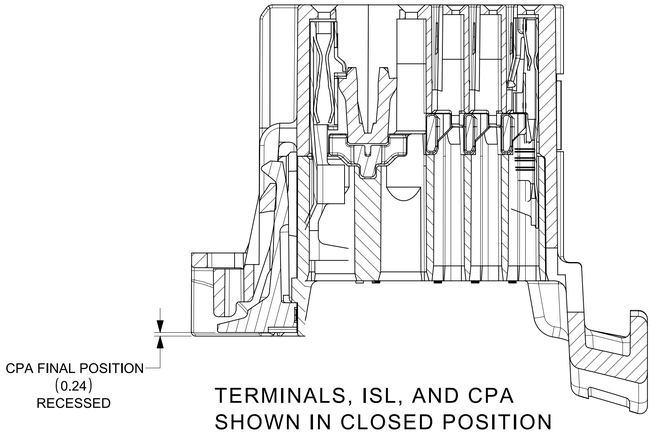


DETAIL B
SCALE 20:1



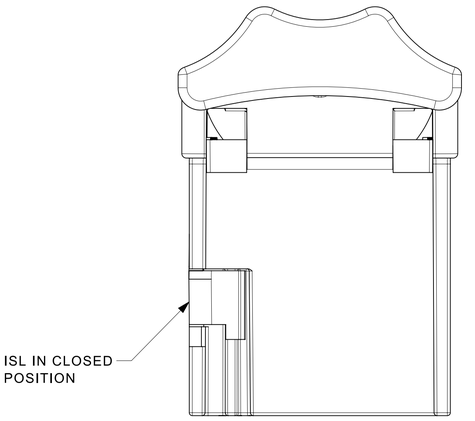


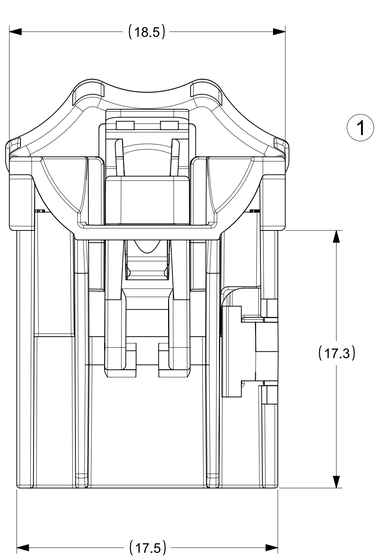


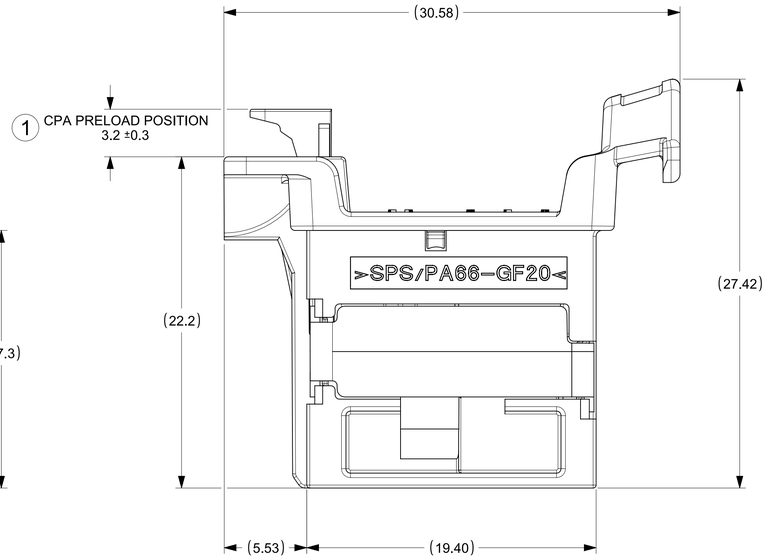


TERMINALS, ISL, AND CPA
SHOWN IN CLOSED POSITION

SECTION Z-Z







FUNCTIONAL SYMBOLS	THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX ELECTRONIC TECHNOLOGIES, LLC AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION		
FA = 0	DIMENSION UNITS: mm	SCALE: 5:1	CURRENT REV DESC: SEE REVISION SHEET
FC = 0	GENERAL TOLERANCES (UNLESS SPECIFIED)		
FP = 0	ANGULAR TOL ± 3°		
DIVISIONAL SYMBOLS	4 PLACES ±		
	3 PLACES ±		
	2 PLACES ± 0.300		
	1 PLACE ± 0.30		
	0 PLACES ± 0.30		
	DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		

STATUS: Production
DRWN: Kenneth Dai 2024-08-19
CHK'D: Yann Chen 2024-10-18
APPR: Ringo Hu 2024-10-28

THIRD ANGLE PROJECTION | DRAWING: D-SIZE | SERIES: 160014

molex

27/28 WAY STAK50H HYBRID ASSEMBLY
CONNECTOR ASSEMBLY

PRODUCT CUSTOMER DRAWING

DOCUMENT NUMBER	DOC TYPE	DOC PART	REVISION
1600140011	PSD	000	B1

MATERIAL NUMBER	CUSTOMER	SHEET NUMBER
	GENERAL MARKET	2 OF 2