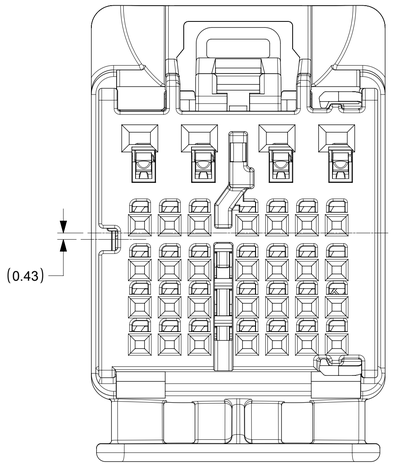
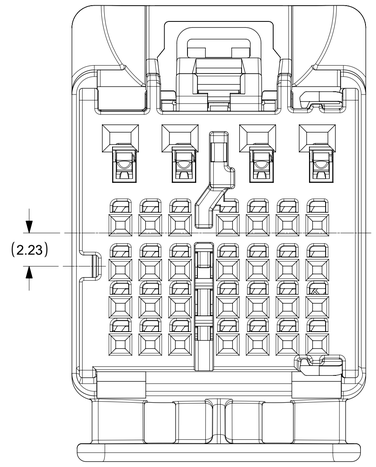
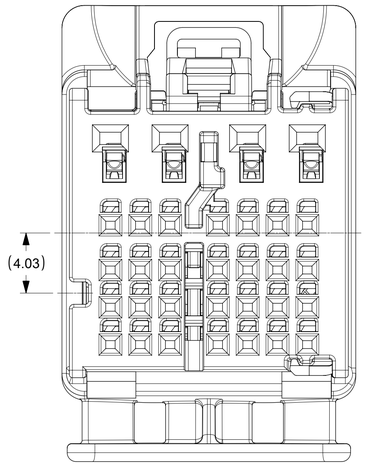


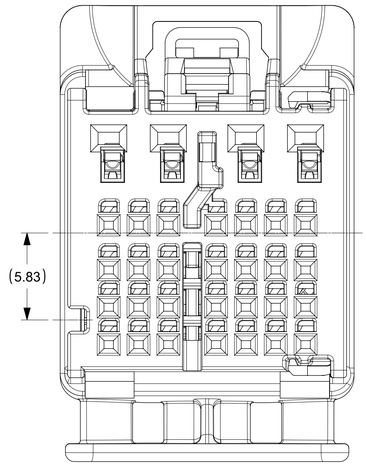
32WAY CONNECTOR ASSEMBLY
KEY 1 & KEY 5



32WAY CONNECTOR ASSEMBLY
KEY 2 & KEY 6



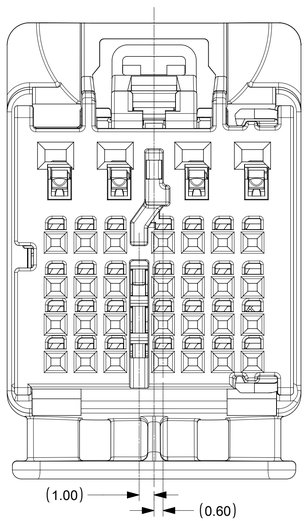
32WAY CONNECTOR ASSEMBLY
KEY 3 & KEY 7



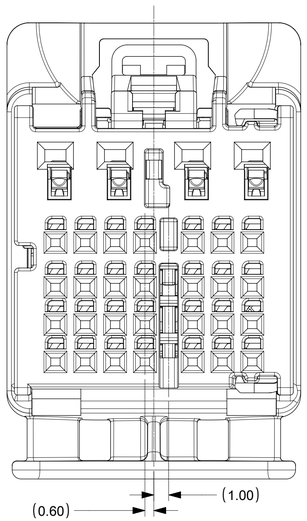
32WAY CONNECTOR ASSEMBLY
KEY 4 & KEY 8

PART NUMBER	PLATING	SUPPLIER	WIRE GAGE (mm2)	TERMINAL FAMILY	WIRE SPECIFICATION
200096-0101	TIN PLATING	MOLEX	0.35	TAK FAMILY (0.5 mm)	VW 60306 OR GMW 15626 (SEE APPLICATION SPECIFICATION FOR MORE DETAILS)
200096-0201			0.13		
2272196-2		TE	0.35	Generation 50 Locking Lance (0.5mm)	SAE/ J1128 THIN WALL INSULATION
2272196-1			0.13		
35072403		DELPHI	0.35 - 0.5	TAXI TERM OCS 1.2	
35072405			0.8 - 1.0		
35072406			1.25 - 1.5		
35072404			0.75 - 0.8		
SMSA-A031T-M1.2		JST	0.5 - 0.75	MSA 1.2mm TERMINAL	GMW 15626 INSULATION TYPE FLR (REGULAR THIN WALL)
SMSA-A041T-M1.2			1.0 - 1.5		

RIB OPTION A



RIB OPTION B



DOCUMENT STATUS	P1	RELEASE DATE	2019/08/13	14:53:57

NOTES: VALID UNLESS OTHERWISE SPECIFIED
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)

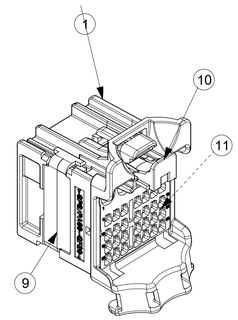
2. DESIGN - MATERIALS:
a. SEE BOM TABLE

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 Y14.5M-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

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

MOLEX ASSEMBLY PART NO.'S	
1600280001	KEY 1
1600280002	KEY 2
1600280003	KEY 3
1600280004	KEY 4
1600280005	KEY 5
1600280006	KEY 6
1600280007	KEY 7
1600280008	KEY 8

ITEM	DESCRIPTION	COLOR	RECYCLING CODE	WEIGHT (GRAMS)	RIB OPTION	NO OF ITEMS REQUIRED							
1	OUTER SHROUD - KEY 1	BLACK	SPS/PA66-GF20	3.2	A	1							
2	OUTER SHROUD - KEY 2	BLUE	SPS/PA66-GF20	3.2	A		1						
3	OUTER SHROUD - KEY 3	DARK GRAY	SPS/PA66-GF20	3.2	A			1					
4	OUTER SHROUD - KEY 4	PURPLE C	SPS/PA66-GF20	3.2	A				1				
5	OUTER SHROUD - KEY 5	PINK B	SPS/PA66-GF20	3.2	B					1			
6	OUTER SHROUD - KEY 6	TBD	SPS/PA66-GF20	3.2	B						1		
7	OUTER SHROUD - KEY 7	LIGHT BROWN	SPS/PA66-GF20	3.2	B							1	
8	OUTER SHROUD - KEY 8	TBD	SPS/PA66-GF20	3.2	B								1
9	ISL	NATURAL	SPS-GF30	0.37	N/A	1	1	1	1	1	1	1	1
10	CPA	NATURAL	PA66-GF50	0.08	N/A	1	1	1	1	1	1	1	1
11	INNER HOUSING	STONE GRAY	SPS/PA66-GF20	1.75	N/A	1	1	1	1				
12	INNER HOUSING	STONE GRAY	SPS/PA66-GF20	1.75	N/A					1	1	1	1



SCALE 2:1

B1	UPDATED WIRE GAGE RANGE OF 1.20MM TERMINAL HTGUO 02/20/2019
B	ADD TAK50 TERMINAL OPTS JCONDON 09/11/2017
A1	NX RE-MASTERING SAP # 10816434
A	UAU2016-0946 SAP # 10778144 JCONDON 05/25/2016
4	UAU2015-1899 SAP # 10698159 JCONDON 06/17/2015
3	UAU2015-1302 SAP # 10694008 JCONDON 05/29/2015
2	UAU2015-1606 SAP # 10685685 JCONDON 04/23/2015
1	UAU2014-1923 SAP # XXXXXXXX CBOWDEN 12/05/2013

SYMBOLS
▽A = 0
▽F = 0
▽E = 0
▽S = 0
▼ = 0
▽C = 0
☒ = 0
■ = 0
▽ = 0

DIMENSION UNITS: mm
SCALE:

GENERAL TOLERANCES (UNLESS SPECIFIED)

ANGULAR TOL	±	3.0 °
4 PLACES	±	
3 PLACES	±	
2 PLACES	±	0.3
1 PLACE	±	0.3
0 PLACES	±	0.3

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

CURRENT REV DESC: SEE TABLE

EC NO: 622293
DRWN: HTGUO02 2019/08/13
CHK'D: JCONDON 2019/08/13
APPR: JCONDON 2019/08/13

INITIAL REVISION:
DRWN: VYARAPPA 2017/02/07
APPR: KDEKOSKI 2017/03/23

THIRD ANGLE PROJECTION | DRAWING: D-SIZE | SERIES: 160028

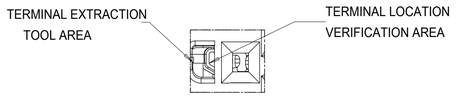
molex

32WAY STAK50H HYBRID CONNECTOR ASSEMBLY

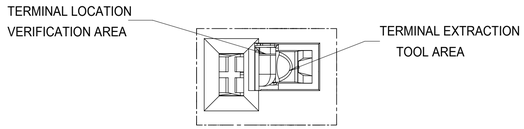
PRODUCT CUSTOMER DRAWING

DOCUMENT NUMBER	DOC TYPE	DOC PART	REVISION
SD-160028-0001	PSD	000	B2

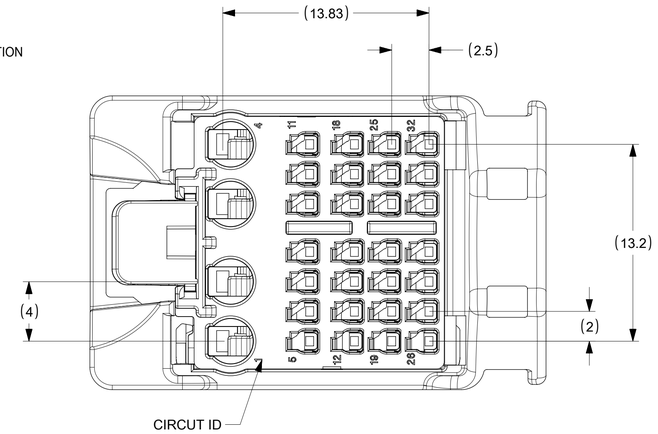
MATERIAL NUMBER	CUSTOMER	SHEET NUMBER
SEE CHART	GENERAL MARKET	1 OF 2

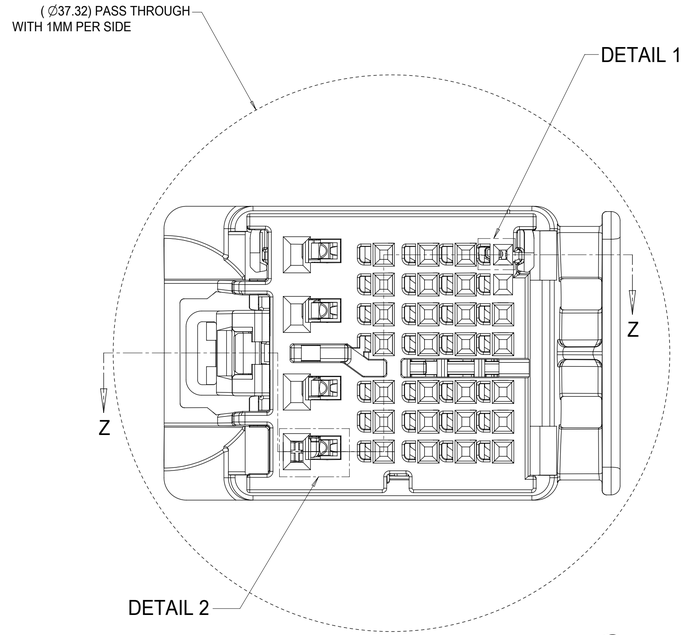


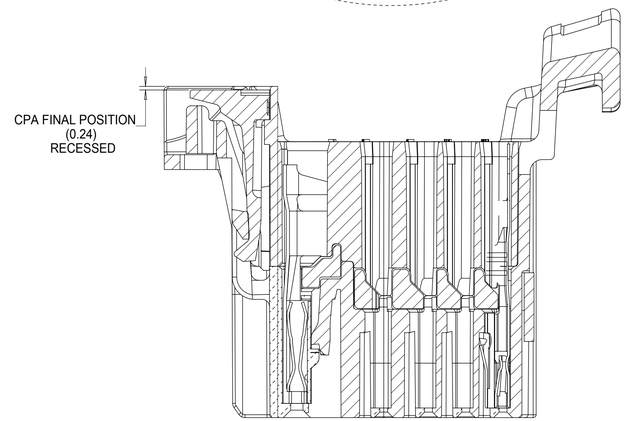
DETAIL 1
SCALE 10:1



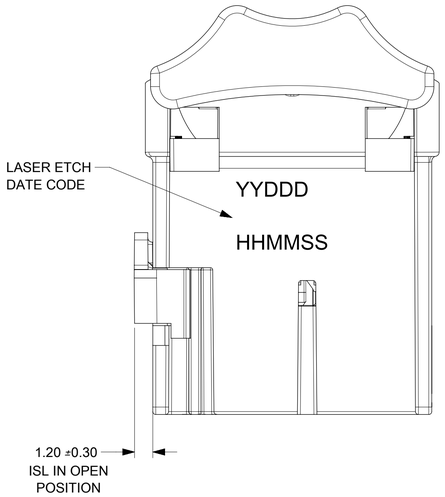
DETAIL 2
SCALE 10:1

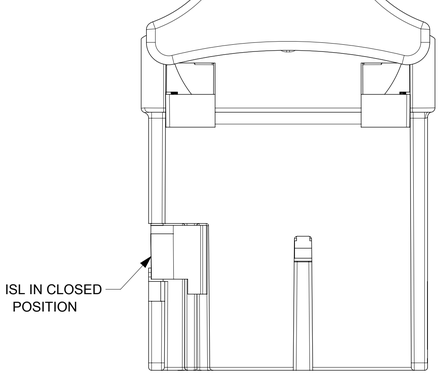


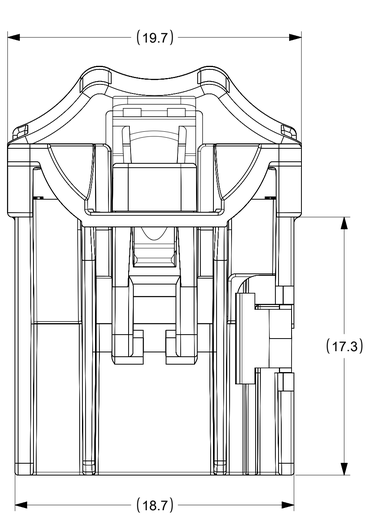


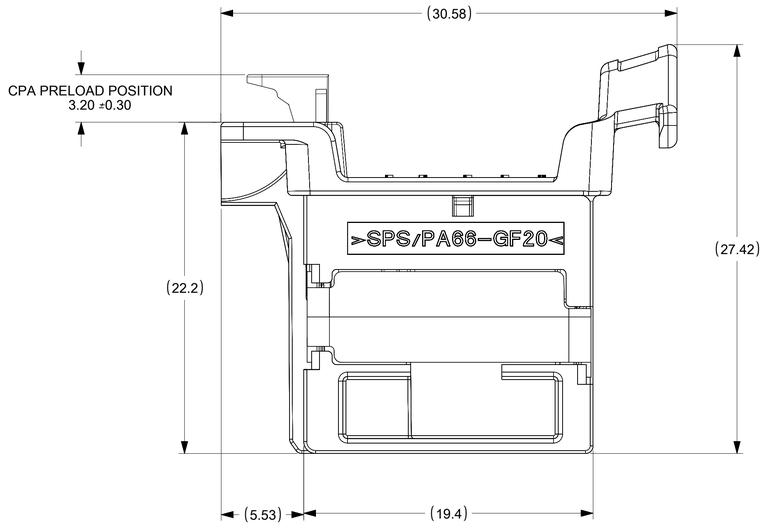


TERMINALS, ISL, AND CPA
SHOWN IN CLOSED POSITION
SECTION Z-Z



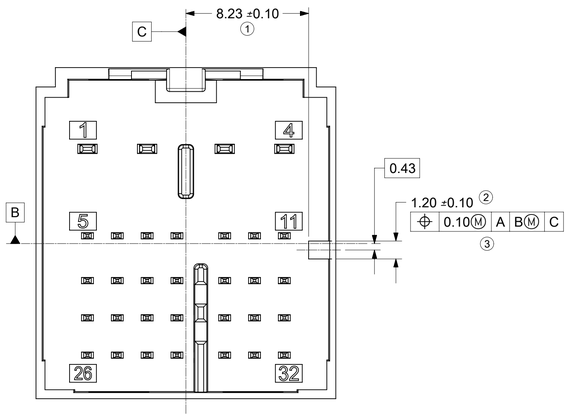




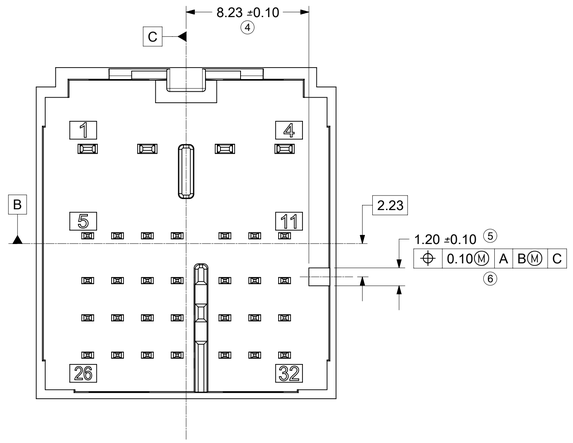


SYMBOLS	THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX ELECTRONIC TECHNOLOGIES, LLC AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION				
= 0	DIMENSION UNITS: mm	SCALE	CURRENT REV DESC: SEE TABLE	molex	
= 0	GENERAL TOLERANCES (UNLESS SPECIFIED)			32WAY STAK50H HYBRID CONNECTOR ASSEMBLY	
= 0	ANGULAR TOL ± 3.0 °		EC NO: 622293		
= 0	4 PLACES ±		DRWN: HTGUO02 2019/08/13		
= 0	3 PLACES ±		CHK'D: JCONDON 2019/08/13		
= 0	2 PLACES ± 0.3		APPR: JCONDON 2019/08/13	PRODUCT CUSTOMER DRAWING	
= 0	1 PLACE ± 0.3		INITIAL REVISION:	DOCUMENT NUMBER: SD-160028-0001	DOC TYPE: PSD / DOC PART: 000 / REVISION: B2
= 0	0 PLACES ± 0.3		DRWN: VYARAPPA 2017/02/07		
= 0	DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		APPR: KDEKOSKI 2017/03/23		
= 0	THIRD ANGLE PROJECTION	DRAWING: D-SIZE	SERIES: 160028	MATERIAL NUMBER: SEE CHART	CUSTOMER: GENERAL MARKET / SHEET NUMBER: 2 OF 2

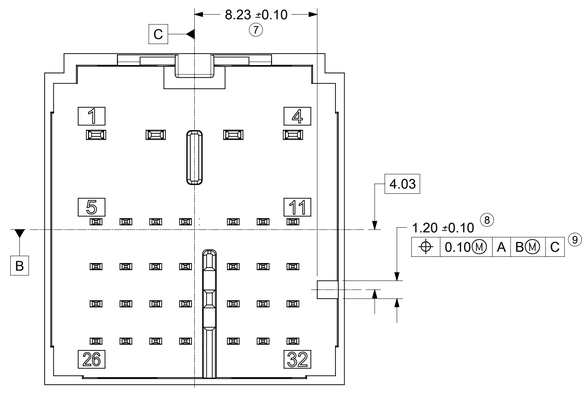
DOCUMENT STATUS	P1	RELEASE DATE	2019/08/13 14:53:57



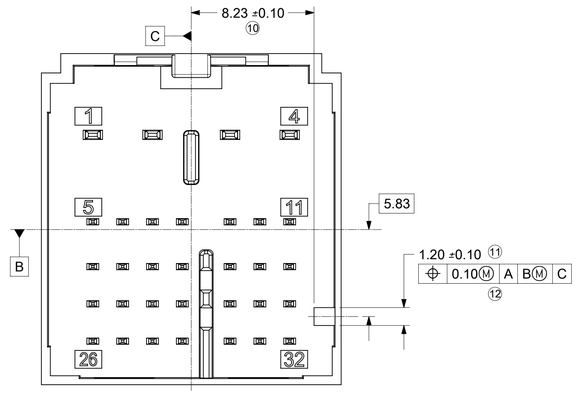
INTERFACE KEY 1 & KEY 5



INTERFACE KEY 2 & KEY 6



INTERFACE KEY 3 & KEY 7



INTERFACE KEY 4 & KEY 8

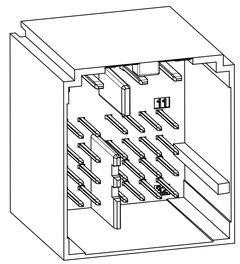
INTERFACE OPTIONS		
KEY	RIB OPTION	MATING CONNECTOR COLOR
1	OPTION A	BLACK
2	OPTION A	BLUE
3	OPTION A	DARK GRAY
4	OPTION A	PURPLE C
5	OPTION B	PINK B
6	OPTION B	TBD
7	OPTION B	LIGHT BROWN
8	OPTION B	TBD

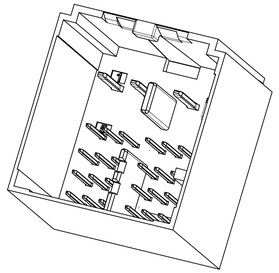
NOTES: VALID UNLESS OTHERWISE SPECIFIED

1. DESIGN - MATERIALS:
   a. RESIN MATERIAL: PBT+GF30 OR SPS+GF30 OR EQUIVALENT
   b. PIN/BLADE MATERIAL: ACCORDING TO USCAR DRAWING EWCAP-001 NOTE B2.
   c. PLATING: ACCORDING TO USCAR DRAWING EWCAP-001 TIN REFLOW WITH UNDERPLATE.
   d. PIN TIPS ACCORDING TO USCAR DRAWING EWCAP-001 (120-T002 & 050-T001)
   e. DEVIATION TO EWCAP-001 ACCEPTABLE IF PERFORMANCE (ELECTRICAL/MECHANICAL) IS SHOWN TO BE EQUAL OR BETTER AS REQUIRED BY VALIDATION TESTING.

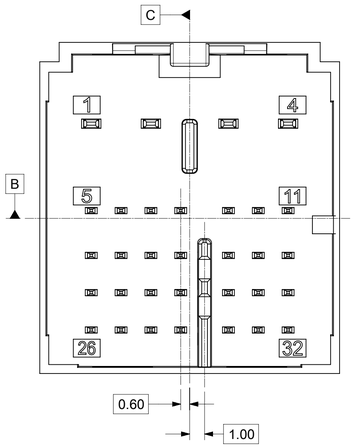
2. DESIGN - GEOMETRY:
   a. ALL GRAPHIC DATA IS BASIC (NO TOLERANCE) AND MUST BE TAKEN FROM THE DATA FILE AT ITS LATEST REVISION.
   b. GEOMETRIC DIMENSIONS AND TOLERANCES PER ASME Y14.5M-2009
   c. GENERAL TOLERANCES:
      LINEAR: PER DIN 16901 LINEAR CODE B FOR PRECISION ENGINEERING
      ANGULAR: ±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.
      (for small parts: LETTERING SHALL BE 0.10 MAX RAISED IN 0.15 MAX RECESS PAD)

3. DESIGN - MANUFACTURING:
   a. DRAFT TO BE WITHIN TOLERANCE.

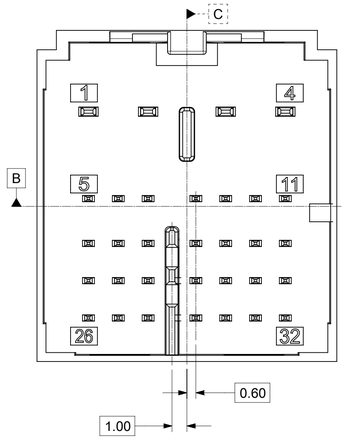




RIB OPTION A



RIB OPTION B



REV	DESCRIPTION
B1	ADDED BALLOONS JCONDON 08/02/2018
B	REMOVED 0.2MM FROM CONNECTOR LOCK TAB FEATURE
A1	ADDED NOTE 1.E JCONDON 11/13/2017
A	NX-REMASTERING SAP # 10867412
7	UAU2016-1182 SAP # 10762453 JCONDON 02/08/2016
6	UAU2015-1446 SAP # 10681629 JCONDON 03/25/2015
5	UAU2015-1212 SAP # 10674908 JCONDON 02/06/2015
4	UAU2015-0982 SAP # 10670199 JCONDON 12/22/2014
3	UAU2014-1679 SAP # XXXXXXXX KDEKOSKI 05/02/2014
2	UAU2014-1221 SAP # XXXXXXXX MYOUNG01 02/06/2014
1	UAU2014-0715 SAP # XXXXXXXX MYOUNG01 01/02/2014

DOCUMENT STATUS	P1	RELEASE DATE	2018/08/03 19:41:34

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

SYMBOLS: E = 0; C = 0; D = 0; S = 0; ▼ = 0; C = 0; ☒ = 0; ■ = 0; V = 0

DIMENSION UNITS: mm | SCALE: 5:1

GENERAL TOLERANCES (UNLESS SPECIFIED)

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

DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS

SEE NOTES

CURRENT REV DESC: ADDED DIMENSION BALLOONS

EC NO:	602204	
DRWN:	JCONDON	2018/08/02
CHK'D:	JCONDON	2018/08/03
APPR:	MVANSLAMBROU	2018/08/03
INITIAL REVISION:		
DRWN:	MYOUNG01	2013/11/14
APPR:	KDEKOSKI	2014/01/02

THIRD ANGLE PROJECTION | DRAWING: D-SIZE | SERIES: 160028

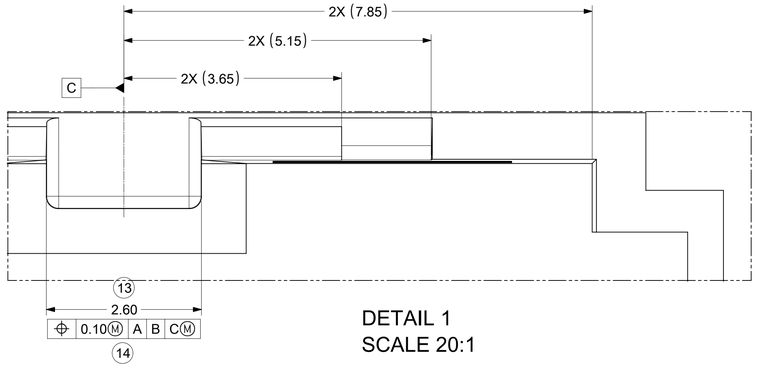
molex

32WAY STAK50H
INTERFACE DRAWING

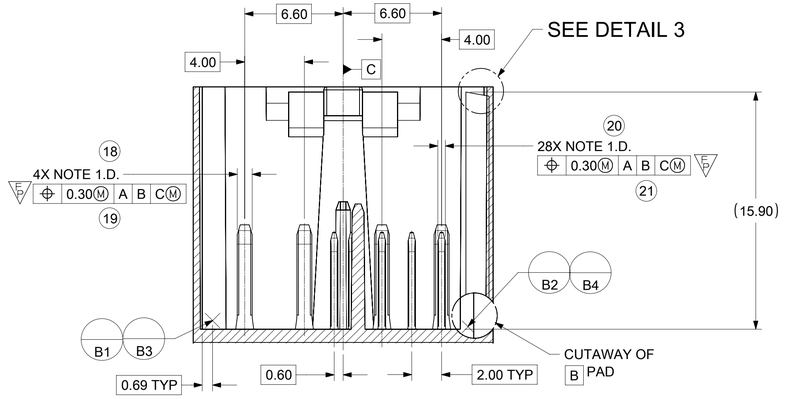
PRODUCT CUSTOMER DRAWING

DOCUMENT NUMBER	DOC TYPE	DOC PART	REVISION
SD-160028-002	PSD	001	B1

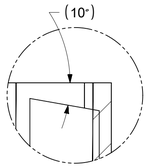
MATERIAL NUMBER	CUSTOMER	SHEET NUMBER
	GENERAL MARKET	1 OF 3



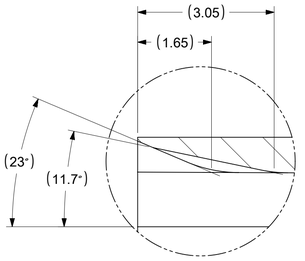
DETAIL 1
SCALE 20:1



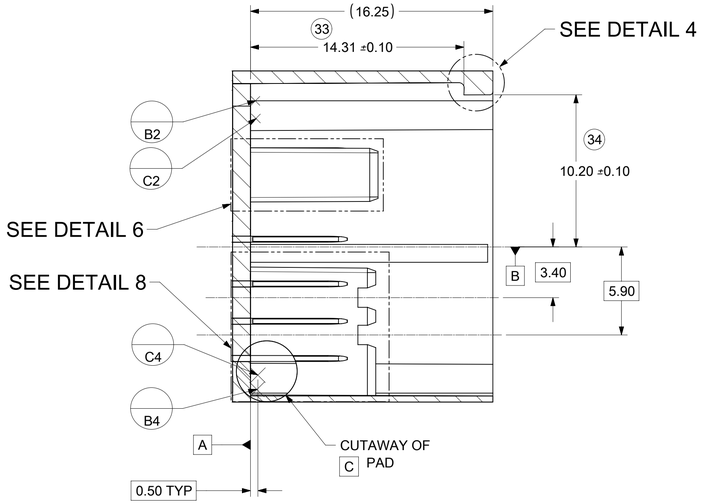
SECTION X-X



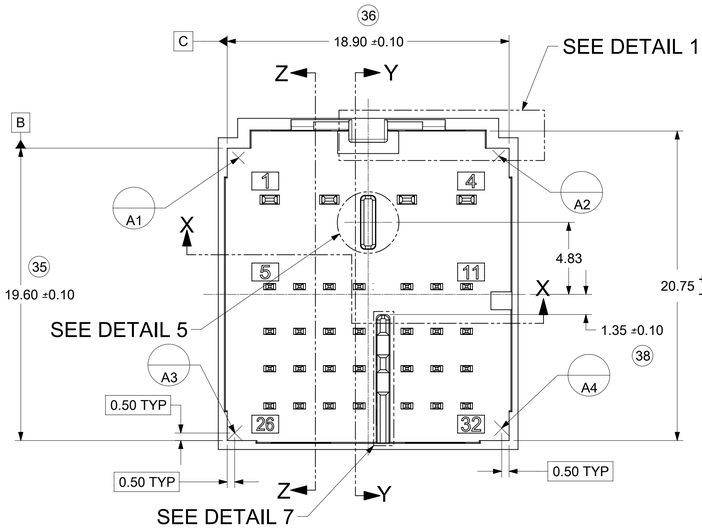
DETAIL 3
SCALE 15:1

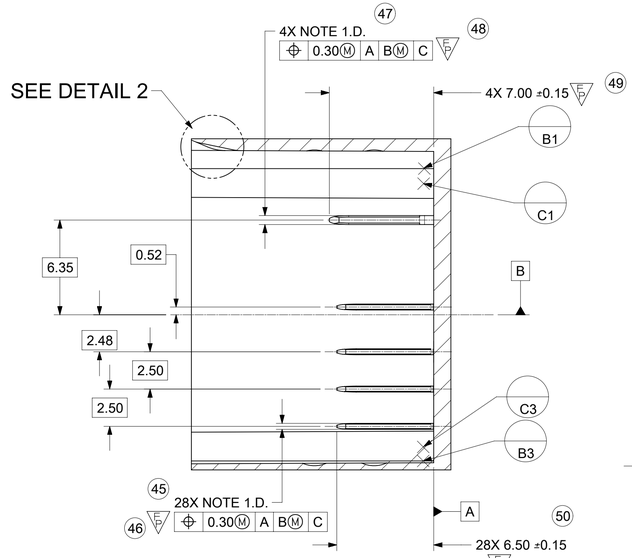


DETAIL 2
SCALE

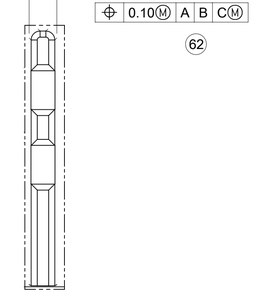


SECTION Y-Y

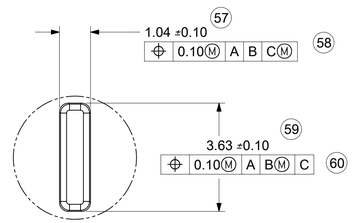




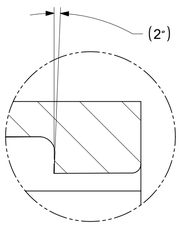
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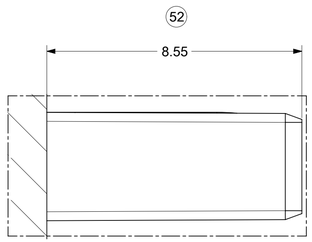
DETAIL 7
SCALE



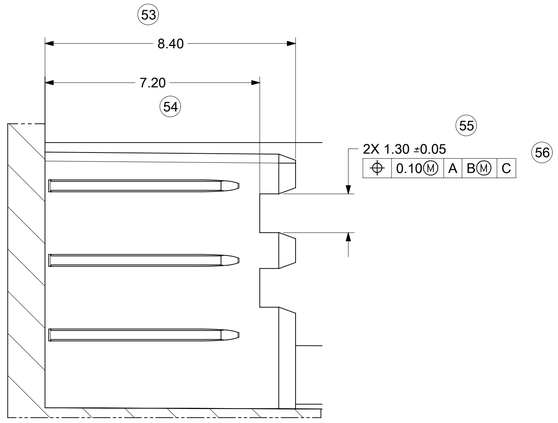
DETAIL 5
SCALE 10:1



DETAIL 4
SCALE 15:1



DETAIL 6
SCALE 10:1



DETAIL 8
SCALE 10:1

SYMBOLS	THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX ELECTRONIC TECHNOLOGIES, LLC AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION
F = 0	DIMENSION UNITS: mm — SCALE: 5:1
E = 0	GENERAL TOLERANCES (UNLESS SPECIFIED)
B = 6	ANGULAR TOL ± °
S = 0	4 PLACES ±
= 0	3 PLACES ±
C = 0	2 PLACES ±
= 0	1 PLACE ±
= 0	0 PLACES ±
= 0	DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS

CURRENT REV DESC: ADDED DIMENSION BALLOONS

EC NO: 602204
DRWN: JCONDON 2018/08/02
CHK'D: JCONDON 2018/08/03
APPR: MVANSLAMBROU 2018/08/03

INITIAL REVISION:
DRWN: MYOUNG01 2013/11/14
APPR: KDEKOSKI 2014/01/02

SEE NOTES

THIRD ANGLE PROJECTION | DRAWING: D-SIZE | SERIES: 160028

molex

32WAY STAK50H
INTERFACE DRAWING

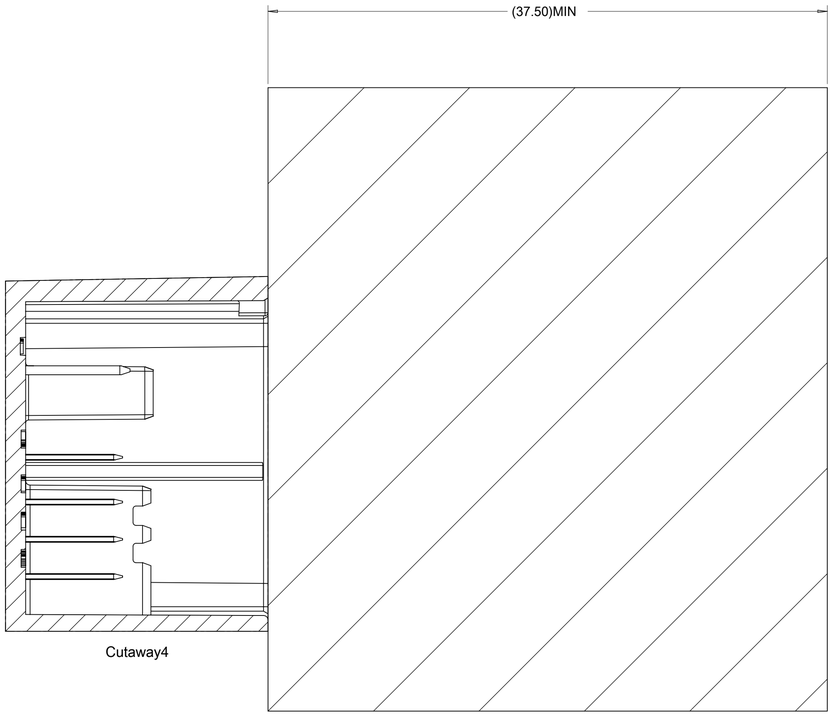
PRODUCT CUSTOMER DRAWING

DOCUMENT NUMBER	DOC TYPE	DOC PART	REVISION
SD-160028-002	PSD	001	B1

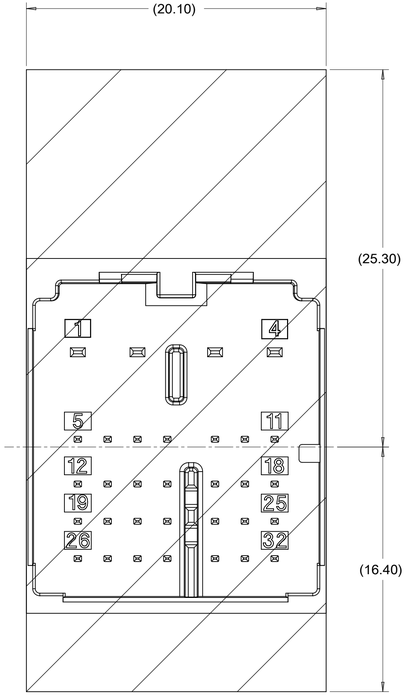
MATERIAL NUMBER	CUSTOMER	SHEET NUMBER
	GENERAL MARKET	2 OF 3

DOCUMENT STATUS	P1	RELEASE DATE	2018/08/03 19:41:34

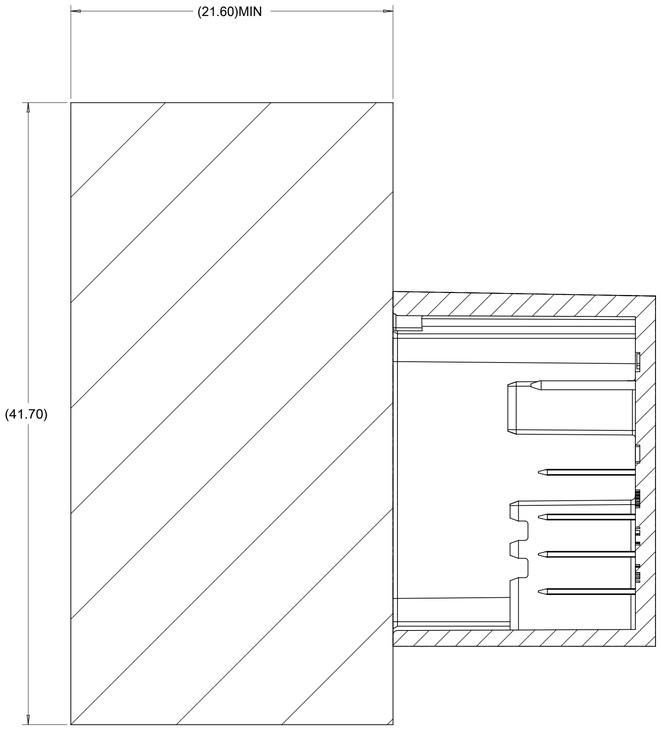
PACKAGE SPACE
FOR UNMATED
CONNECTOR



PACKAGE SPACE
FOR CONNECTOR



PACKAGE SPACE
FOR MATED
CONNECTOR
WITH COVER



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: ADDED DIMENSION BALLOONS	molex
FC = 0	GENERAL TOLERANCES (UNLESS SPECIFIED)			32WAY STAK50H INTERFACE DRAWING
FB = 0	ANGULAR TOL ± °		EC NO: 602204	
S = 0	4 PLACES ±		DRWN: JCONDON 2018/08/02	
= 0	3 PLACES ±		CHK'D: JCONDON 2018/08/03	PRODUCT CUSTOMER DRAWING
C = 0	2 PLACES ±	SEE NOTES	APPR: MVANSLAMBROU 2018/08/03	
= 0	1 PLACE ±		INITIAL REVISION:	DOCUMENT NUMBER: SD-160028-002 | DOC TYPE: PSD | DOC PART: 001 | REVISION: B1
= 0	0 PLACES ±		DRWN: MYOUNG01 2013/11/14	
= 0	DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		APPR: KDEKOSKI 2014/01/02	
V = 0	THIRD ANGLE PROJECTION	DRAWING: D-SIZE	SERIES: 160028	MATERIAL NUMBER | CUSTOMER: GENERAL MARKET | SHEET NUMBER: 3 OF 3

DOCUMENT STATUS	P1	RELEASE DATE	2018/08/03 19:41:34