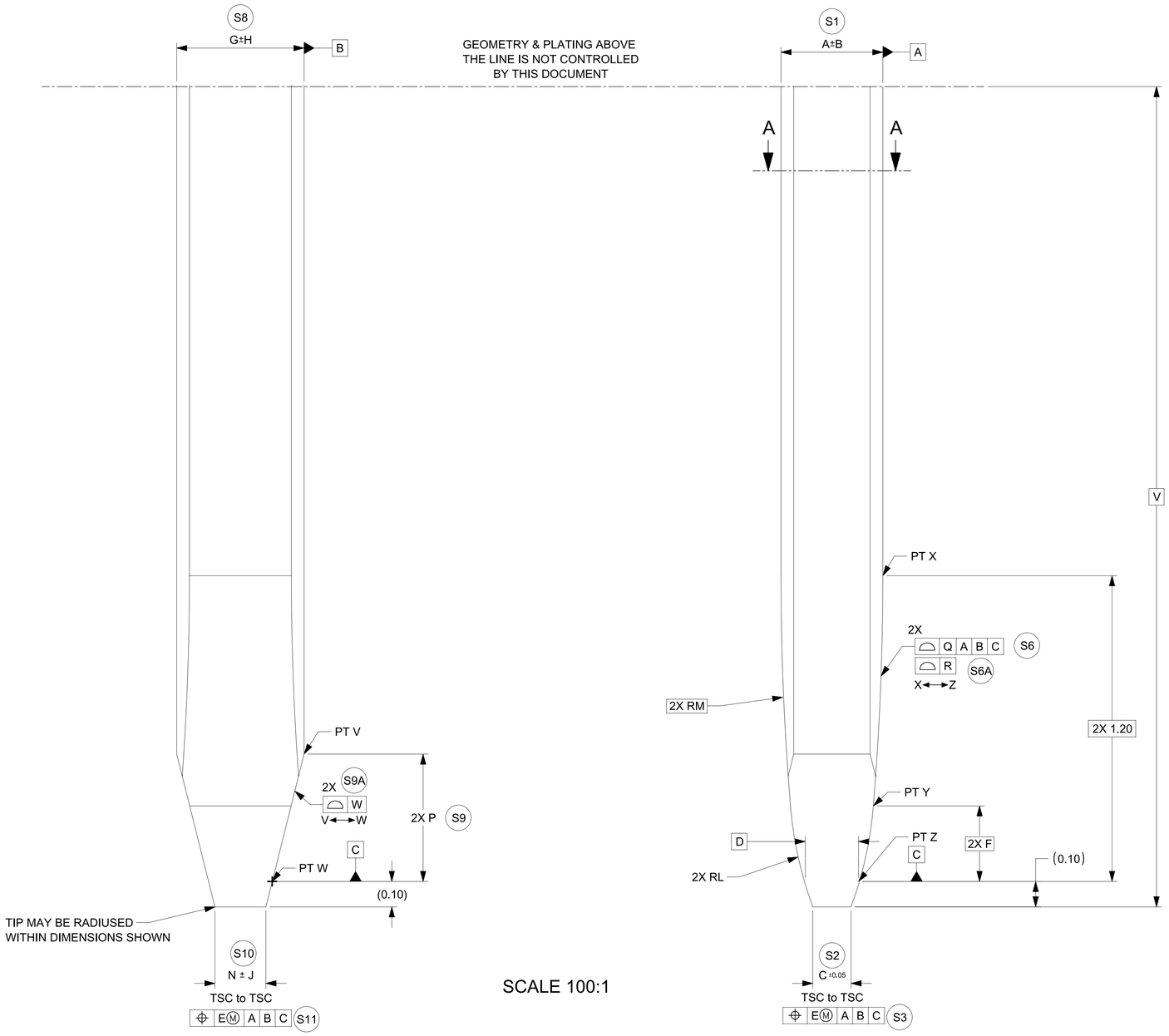
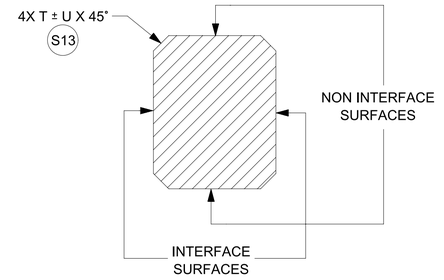


SCALE 100:1



SECTION A-A

TABLE 1			DRAWING DIMENSIONS																	
Model NO.	Description	Application	A	B	C	D	E	F	G	H	J	L	M	N	P	Q	R	T	U	V	W
34735-0004_FM_000	0.50mm BLADE	HEADER	0.40	0.015	0.15	0.216	0.05	0.296	0.50	0.03	0.05	1.5	11	0.20	0.50	0.10	0.06	0.05	0.03	4.0 MIN	0.08
34735-0001_FM_000	0.64mm BLADE NORMAL THICKNESS	HEADER	0.64	0.03	0.25	0.356	0.10	0.285	0.64	0.03	0.05	1	7	0.25	0.55	0.10	0.06	0.05	0.03	5.5 MIN	0.08
34735-0002_FM_000	0.64mm BLADE - REDUCED THICKNESS	HEADER	0.625	0.015	0.234	0.341	0.10	0.285	0.64	0.03	0.05	1	7	0.25	0.55	0.10	0.06	0.05	0.03	5.5 MIN	0.08
34735-0006_FM_000	1.20mm BLADE	HEADER	0.60	0.015	0.21	0.316	0.10	0.285	1.00	0.05	0.05	1	7	0.59	0.55	0.10	0.06	0.05	0.03	5.5 MIN	0.13
34735-0003_FM_000	1.50mm BLADE	HEADER	0.80	0.03	0.25	0.321	0.10	1.10	1.50	0.05	0.10	4.775	1.083	0.5	1.68	0.10	0.06	0.05	0.03	5.0 MIN	0.13
34735-0010_FM_000	2.8mm BLADE	HEADER	0.80	0.025	0.20	0.345	0.10	0.314	2.50	0.10	0.10	1	4	1.80	1.10	0.15	0.06	0.06	0.05	9.5 MIN	0.25
34735-0011_FM_000	6.3mm BLADE	HEADER	0.80	0.025	0.31	0.345	0.10	0.314	6.0	0.25	0.20	1	4	3.90	1.10	0.15	0.06	0.06	0.05	10.5 MIN	0.13
34735-0012_FM_000	1.20mm BLADE	INLINE	0.60	0.015	0.21	0.316	0.10	0.285	1.20	0.05	0.05	1	7	0.59	0.55	0.10	0.06	N/A	N/A	5.5 MIN	0.13

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: 100:1

GENERAL TOLERANCES (UNLESS SPECIFIED)

ANGULAR TOL	± 0.5 °
4 PLACES	± 0.00000
3 PLACES	± 0.0150
2 PLACES	± 0.050
1 PLACE	± 0.10
0 PLACES	± 0.00

DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS

CURRENT REV DESC:

PHASE: Design Production
EC NO: CO-000000508
DRWN: Raghavendra MV 2022-01-31
CHK'D: Nathan Song 2022-02-07
APPR: Deepak Patil 2022-02-09

INITIAL REVISION:
DRWN: Raghavendra MV 2022-01-31
APPR: Deepak Patil 2022-02-09

THIRD ANGLE PROJECTION
DRAWING: A1-SIZE
SERIES: 34735

molex

DESIGN STANDARD
HEADER PIN & BLADE TIP GEOMETRY FOR MATING TO HARNESS TERMINALS

PRODUCT SALES DRAWING

DOCUMENT NUMBER	DOC TYPE	DOC PART	REVISION
347350050	PSD	000	A21

MATERIAL NUMBER	CUSTOMER	SHEET NUMBER
		2 OF 2

NOTES

1. GENERAL:

1.1. ALL PRODUCT SPECIFICATIONS AND THEIR RELATED DOCUMENTS USING THIS FEATURE MUST REFERENCE THIS DOCUMENT AS THE CONTROLLING SPECIFICATION AND USE THE SAME BALLOON NUMBERS.

1.2. COMPLIANCY TO THIS DOCUMENT:

a) COMPLIANCY MAY BE CLAIMED BY MEETING THE REQUIREMENTS IN THIS SPECIFICATION WITH THE DEVIATION IDENTIFIED AND MAY BE REFERENCED IN OTHER DOCUMENTS (DRAWINGS, DVP&R, ETC.) AS 'CONFORMS TO MOLEX 347350050 REV X.X'.

b) PRODUCTS DESIGNED AFTER THE DATE OF RELEASE OF THIS DOCUMENT SHALL BE COMPLIANT TO THE CURRENT REVISION OF THIS DOCUMENT.

c) PRODUCTS THAT HAVE MET PREVIOUS REVISION(S) OF THIS DOCUMENT SPECIFICATION SHALL STILL BE CONSIDERED 'MOLEX STANDARDS COMPLIANT' TO THOSE REVISIONS AND DO NOT NEED TO BE RE-VALIDATED.

1.3. DEVIATIONS TO THIS DOCUMENT ARE ALLOWABLE UNDER THE FOLLOWING CONDITIONS:

a) ALL DEVIATIONS SHALL SHOW EQUAL OR BETTER PERFORMANCE (ELECTRICAL/MECHANICAL) AS REQUIRED BY VALIDATION SPECIFICATION.

b) EXCEPTIONS ARE CLEARLY IDENTIFIED ON THE PRODUCT SPECIFICATION.

c) ALL DEVIATIONS ARE APPROVED BY THE FOLLOWING INDIVIDUALS:
- PERSON WHO HAS INTERFACE RESPONSIBILITY
- PERSON WITH DESIGN STANDARD APPROVER AUTHORITY

d) ALL RECORDS OF DEVIATION APPROVALS SHALL BE INCLUDED WITH CHANGE NOTICE DOCUMENTATION.

2. DESIGN - MATERIALS:

2.1. BASE MATERIAL TYPE : COPPER ALLOY

3. DESIGN - GEOMETRY:

3.1. THE 3-D CAD DATA IS BASIC (WITHOUT TOLERANCE) AND MASTER FOR THIS PART WITH EXCEPTION TO UNDERLINED DIMENSIONS. DIMENSIONAL INFORMATION NOT SHOWN ON THIS DRAWING IS DEFINED BY THE DATA FILE AT ITS LATEST REVISION.

3.2. PRODUCT DESIGN MODEL NUMBER(S): SEE BOM TABLE

3.3. GEOMETRIC DIMENSIONS AND TOLERANCES PER ASME Y14.5-2009

3.4. EDGES OF UNDEFINED SHAPE PER ISO 13715.

3.5. DIMENSIONS AND TOLERANCES APPLY BEFORE AND AFTER PLATING.

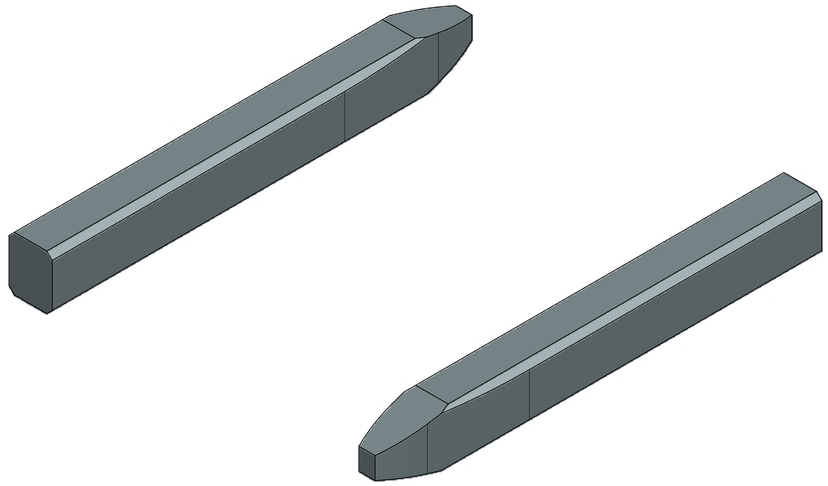
3.6. GENERAL TOLERANCES: SEE TITLE BLOCK

4. DESIGN - MANUFACTURING:

4.1. ANY REMAINING PROCESS LUBRICANT MUST NOT VARNISH OR DEGRADE ELECTRICAL PERFORMANCE. PROCESS LUBRICANTS SHOULD BE APPROVED BY THE RESPONSIBLE ENGINEER.

4.2. ALLOWABLE BURR: 0.03mm MAX UNLESS OTHERWISE SPECIFIED

4.3. FOR UNPLATES BLADES - TOOLING MARKS SPANNING ACROSS OR ALONG THE INTERFACING PROFILE OF THE BLADE SHOULD BE FURTHER INSPECTED. A TOOLING MARK DEEPER THAN 1 MICRON SHOULD NOT BE ACCEPTED.



SCALE 50:1

0.5 MM PIN VIEW SHOWN FOR REPRESENTATION PURPOSES ONLY

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

FUNCTIONAL SYMBOLS			
FA = 0	DIMENSION UNITS: mm	SCALE: 50:1	
FC = 0	GENERAL TOLERANCES (UNLESS SPECIFIED)		
FD = 0	ANGULAR TOL	± 0.5 °	
DIVISIONAL SYMBOLS	4 PLACES	± 0.00000	
	3 PLACES	± 0.0150	
	2 PLACES	± 0.050	
	1 PLACE	± 0.10	
	0 PLACES	± 0.00	
	DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		

CURRENT REV DESC:

PHASE: Design Production
EC NO: CO-000000508
DRWN: Raghavendra MV 2022-01-31
CHK'D: Nathan Song 2022-02-07
APPR: Deepak Patil 2022-02-09

INITIAL REVISION:
DRWN: Raghavendra MV 2022-01-31
APPR: Deepak Patil 2022-02-09

molex

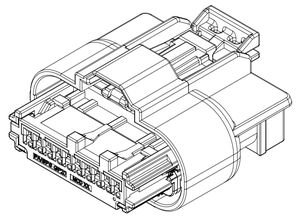
DESIGN STANDARD
HEADER PIN & BLADE TIP GEOMETRY FOR MATING TO HARNESS TERMINALS

PRODUCT SALES DRAWING

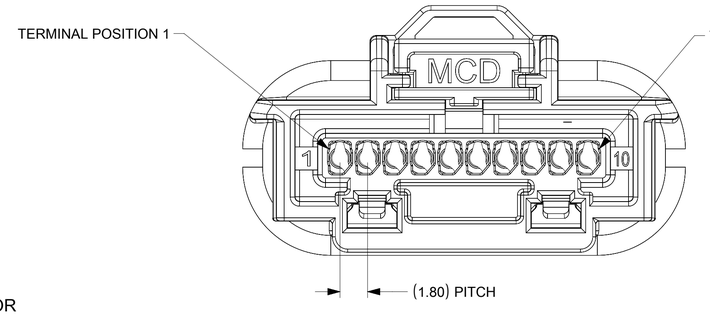
DOCUMENT NUMBER	DOC TYPE	DOC PART	REVISION
347350050	PSD	000	A21

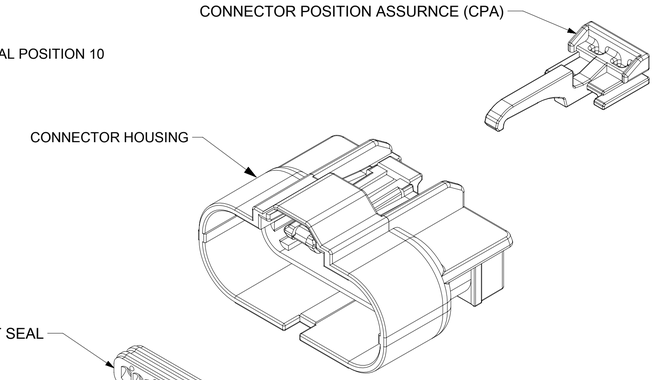
THIRD ANGLE PROJECTION	DRAWING	SERIES	MATERIAL NUMBER	CUSTOMER	SHEET NUMBER
	A1-SIZE	34735			1 OF 2

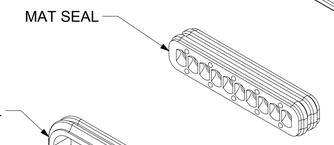
TABLE OF CONTENTS	
SHEET NO.	SHEET DESCRIPTION
1	NOTES AND PART NUMBER CHART
2	KEY CONFIGURATION
3	RECEPTACLE CONNECTOR ASSEMBLY

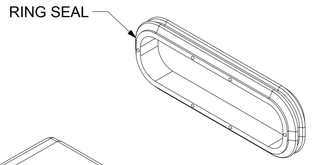


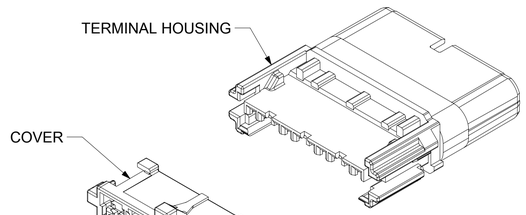
PART NUMBER AND MATING INTERFACE CHART					
PART NUMBER	KEY	COVER COLOR	TERMINAL POSITIONS PLUGGED	CPA INCLUDED	INTERFACE PART NUMER
349671001	A	BLACK	NONE	YES	349681801
349671002	B	LIGHT GRAY	NONE	YES	349681802
349671003	C	DARK GRAY	NONE	YES	349681803
349671004	D	STONE GRAY	NONE	YES	349681804
349671005	A	BLACK	NONE	NO	349681801
349671006	B	LIGHT GRAY	NONE	NO	349681802
349671007	C	DARK GRAY	NONE	NO	349681803
349671008	D	STONE GRAY	NONE	NO	349681804
349671151	A	BLACK	5, 6, 7, 8	YES	349681801

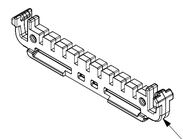












NOTES: VALID UNLESS OTHERWISE SPECIFIED

1. GENERAL:
   A. APPLICATION SPECIFICATION SEE: AS-34894-0001
      -CONTAINS: PRODUCT INTRODUCTION, PRODUCT SUMMARY, CONNECTOR ASSEMBLY, PACKAGING INFORMATION, CONNECTOR MATING, SERVICE INSTRUCTIONS, ELECTRICAL CONTINUITY CHECKING, CRIMPING, AND TROUBLESHOOTING.
   B. TERMINALS TO BE USED WITH THIS ASSEMBLY:
      MOLEX CTX50 SEALED RECEPTACLE TERMINALS
      FOR INFORMATION ON TERMINALS SEE MOLEX DRAWING 349050400 AND TERMINAL PRODUCT SPECIFICATION PS-34905-001.
   C. CONNECTOR PRODUCT SPECIFICATION SEE 349670001 PS
      CONTAINS: PRODUCT INTRODUCTION, PRODUCT SUMMARY, RATINGS AND PRODUCT VALIDATION.
      VALIDATED TO USCAR 2 REV 6.
      RATINGS: T3 V1 S2
   D. DESIGNED TO MATE WITH DEVICE INTERFACE AS SPECIFIED IN PART NUMBER AND INTERFACE CHART. SEE MOLEX DRAWING 349681800 FOR INTERFACE SPECIFICATION.
   E. ASSEMBLY SHIPPED WITH ISL IN PRE-LOCK POSITION (SEE ISL PRE-LOCK VIEW SHEET 3).
   F. PACKAGING SPECIFICATION PER MOLEX DRAWING: PK-31301-898
   G. PARTS MUST BE IN COMPLIANCE TO MOLEX CHEMICAL SUBSTANCES FOR PRODUCTS AND PACKAGING SPECIFICATION: ES-40000-5016
   H. DATA MUST BE SUBMITTED UNDER THE MOLEX PART NUMBER TO IMDS (COMPANY ID#13255)

2. DESIGN - MATERIALS:
   CONNECTOR HOUSING: SPS/NYLON GF20 BLACK
   TERMINAL HOUSING: SPS/NYLON GF20 BLACK
   COVER: SPS/NYLON GF20 COLORS IN PART NUMBER CHART
   ISL: SPS GF30 NATURAL
   MAT SEAL: INHERENTLY LUBRICATED SILICONE LIGHT BLUE
   RING SEAL: INHERENTLY LUBRICATED SILICONE RUST RED
   CPA (OPTIONAL): PBT GF30 RED

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. PARTS ARE LASER MARKED WITH PART NUMBER AND DATE CODE

REV	REV DESCRIPTION
G1	CHANGED BASIC DIMS TO REF DIMS
G	ADDED PART NUMBER
F	REMOVED DEVELOPMENT NOTICE. REMOVED TERMINAL TABLE FROM NOTES. ADDED REF DIMS TO ID DATUMS.
E1	REMOVED PART NUMBER
E	MODIFIED KEYS
D2	ADDED PART NUMBER
D1	UPDATED INFORMATION IN NOTES
D	ADDED PART NUMBER TO CHART. COVER GEOMETRY UPDATE. TOLERANCE CHANGES. NOTES CHANGES.
C2	UPDATED PART NUMBER CHART
C1	ADDED PART NUMBER. CORRECTIONS & CLARIFICATIONS
C	RELEASE

INSPECTION NUMBER LOG
LAST NUMBER: 15
ADDED:
REMOVED: 2,4,7,8,9,13,14

FUNCTIONAL SYMBOLS: FA = 0; FF = 0; FP = 0
DIVISIONAL SYMBOLS

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

DIMENSION UNITS	SCALE
mm	1:1

GENERAL TOLERANCES (UNLESS SPECIFIED)

ANGULAR TOL	± 0.3 °
4 PLACES	±
3 PLACES	±
2 PLACES	± 0.1
1 PLACE	± 0.2
0 PLACES	±

DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS

CURRENT REV DESC: CHANGED BASIC DIMS TO REF DIMS

EC NO: 657824
DRWN: MLI149 2021/03/09
CHK'D: JCONDON 2021/03/11
APPR: JCONDON 2021/03/11

INITIAL REVISION:
DRWN: MNS02 2016/04/26
APPR: KDEKOSKI 2016/05/19

THIRD ANGLE PROJECTION | DRAWING: A1-SIZE | SERIES: 34967

molex

MINI50 SEALED 1X10 RCPT ASSY

PRODUCT CUSTOMER DRAWING

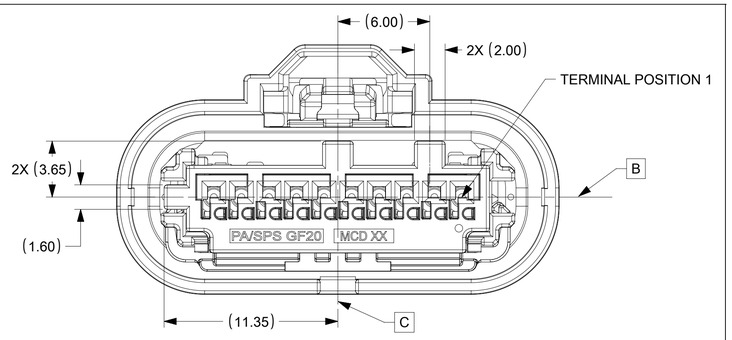
DOCUMENT NUMBER	DOC TYPE	DOC PART	REVISION
349671000	PSD	000	G1

MATERIAL NUMBER | CUSTOMER | SHEET NUMBER: 1 OF 3

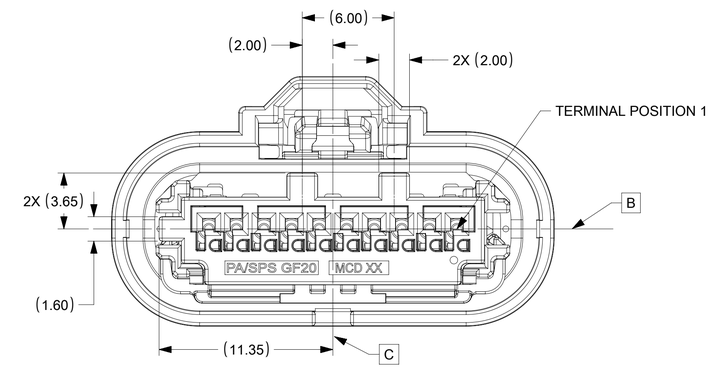
DOCUMENT STATUS	P1	RELEASE DATE	2021/03/11 00:54:54

SHEET DESCRIPTION

KEY CONFIGURATIONS



KEY A



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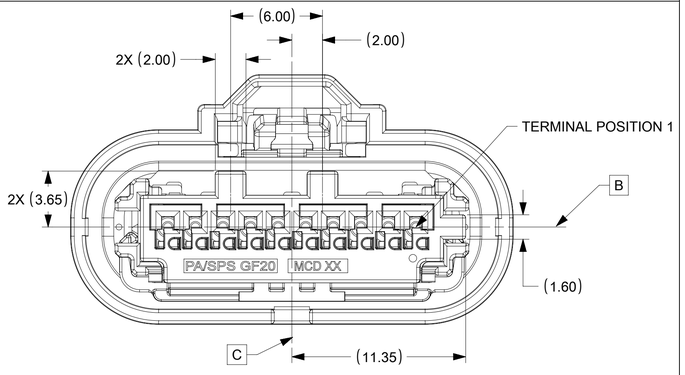

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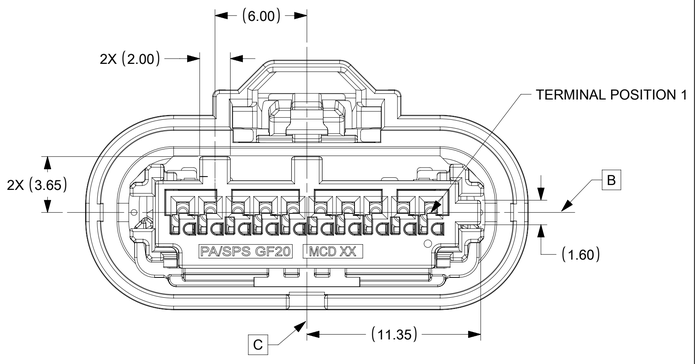


KEY D

DOCUMENT STATUS	P1	RELEASE DATE	2021/03/11 00:54:54

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
FD = 0

DIVISIONAL SYMBOLS

DIMENSION UNITS	SCALE
mm	1:1

GENERAL TOLERANCES (UNLESS SPECIFIED)

ANGULAR TOL	± 0.3 °
4 PLACES	±
3 PLACES	±
2 PLACES	± 0.1
1 PLACE	± 0.2
0 PLACES	±

DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS

CURRENT REV DESC: CHANGED BASIC DIMS TO REF DIMS

EC NO: 657824
DRWN: MLI149 2021/03/09
CHK'D: JCONDON 2021/03/11
APPR: JCONDON 2021/03/11

INITIAL REVISION:
DRWN: MNS02 2016/04/26
APPR: KDEKOSKI 2016/05/19

THIRD ANGLE PROJECTION | DRAWING: A1-SIZE | SERIES: 34967 | MATERIAL NUMBER | CUSTOMER

molex

MINI50 SEALED 1X10 RCPT ASSY

PRODUCT CUSTOMER DRAWING

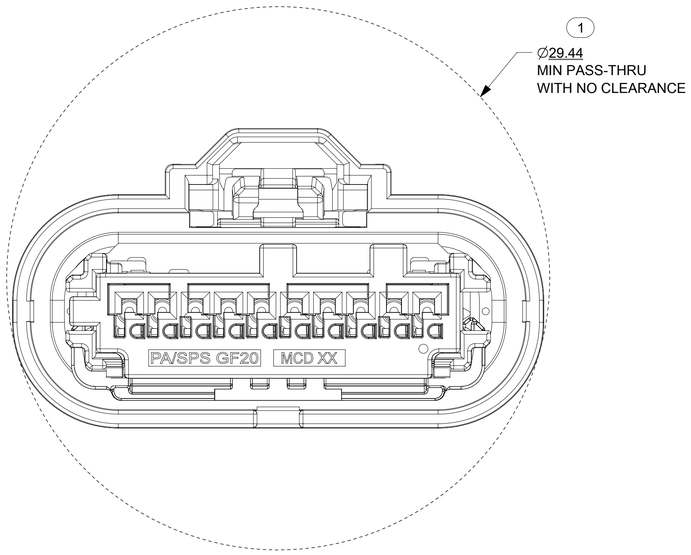
DOCUMENT NUMBER	DOC TYPE	DOC PART	REVISION
349671000	PSD	000	G1

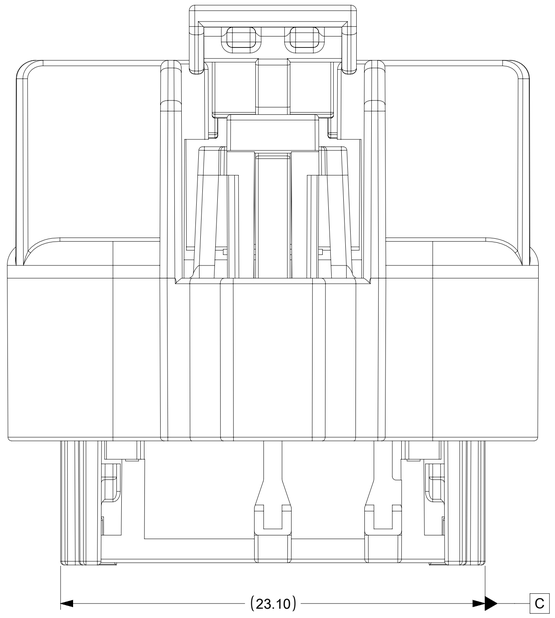
SHEET NUMBER: 2 OF 3

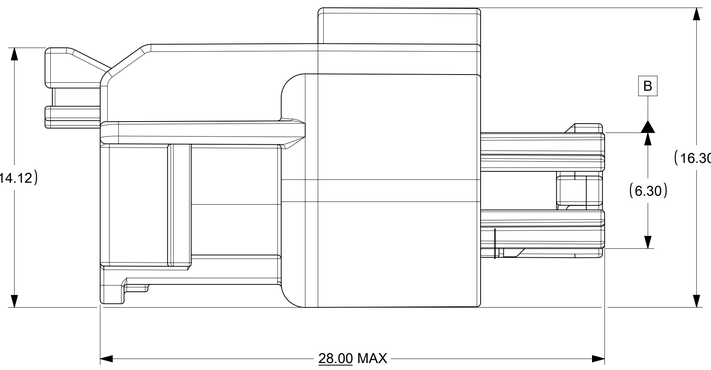
FORMAT_master-fit-print A1
DATE: 2020/01/14

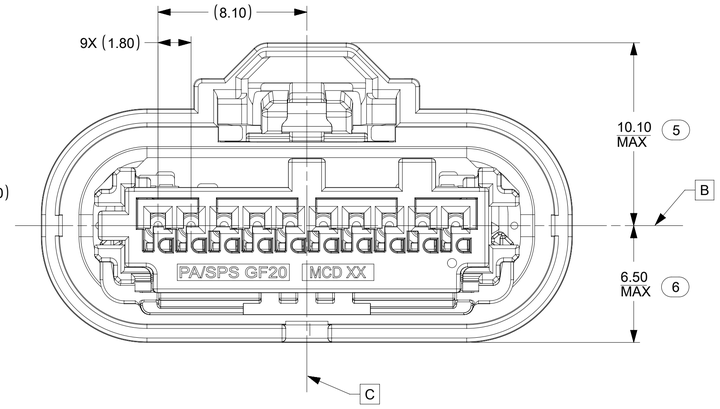
SHEET DESCRIPTION

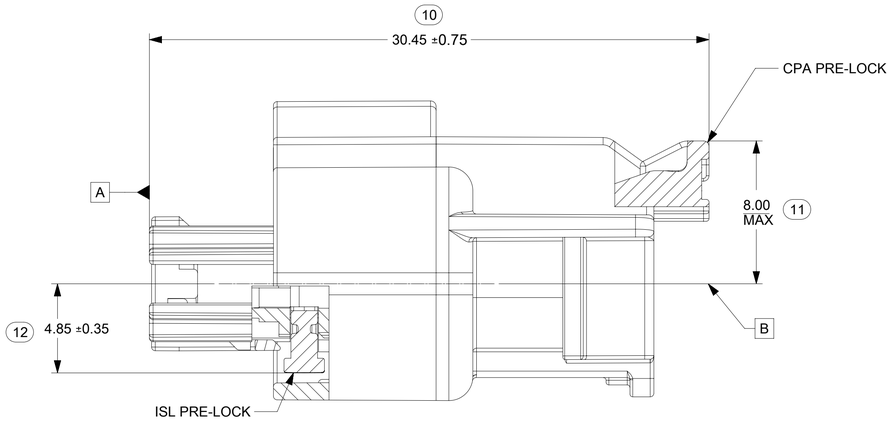
RECEPTACLE CONNECTOR ASSEMBLY

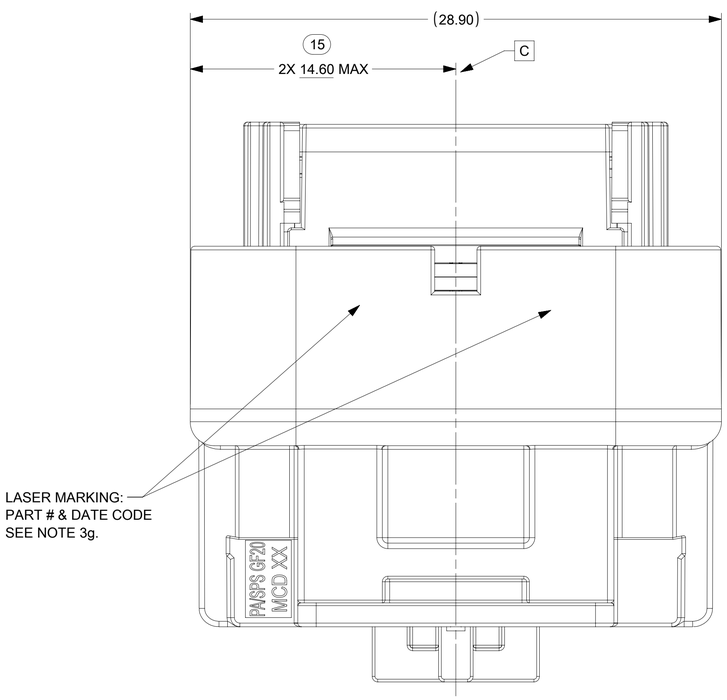


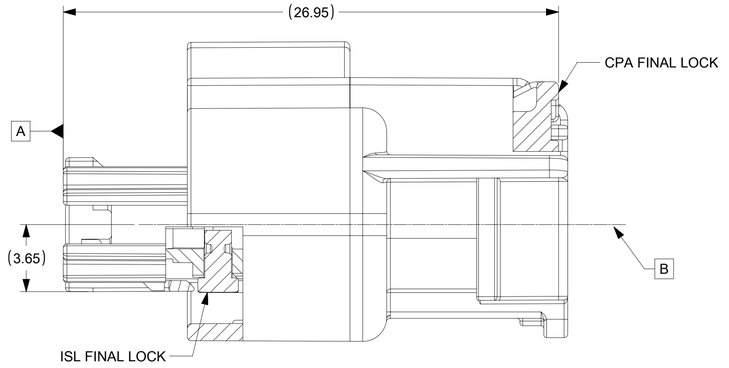












DOCUMENT STATUS	P1	RELEASE DATE	2021/03/11	00:54:54	

FORMAT: molex-tb-prod-A1
DATE: 2020/11/10
DATE: 2020/11/10

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: 1:1	CURRENT REV DESC: CHANGED BASIC DIMS TO REF DIMS
FC = 0	GENERAL TOLERANCES (UNLESS SPECIFIED)		
FB = 0	ANGULAR TOL ± 0.3 °		
DIVISIONAL SYMBOLS	4 PLACES ±		EC NO: 657824
	3 PLACES ±		DRWN: MLI149 2021/03/09
	2 PLACES ± 0.1		CHK'D: JCONDON 2021/03/11
	1 PLACE ± 0.2		APPR: JCONDON 2021/03/11
	0 PLACES ±		INITIAL REVISION:
	DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		DRWN: MNS02 2016/04/26
			APPR: KDEKOSKI 2016/05/19

molex

MINI50 SEALED 1X10 RCPT ASSY

PRODUCT CUSTOMER DRAWING

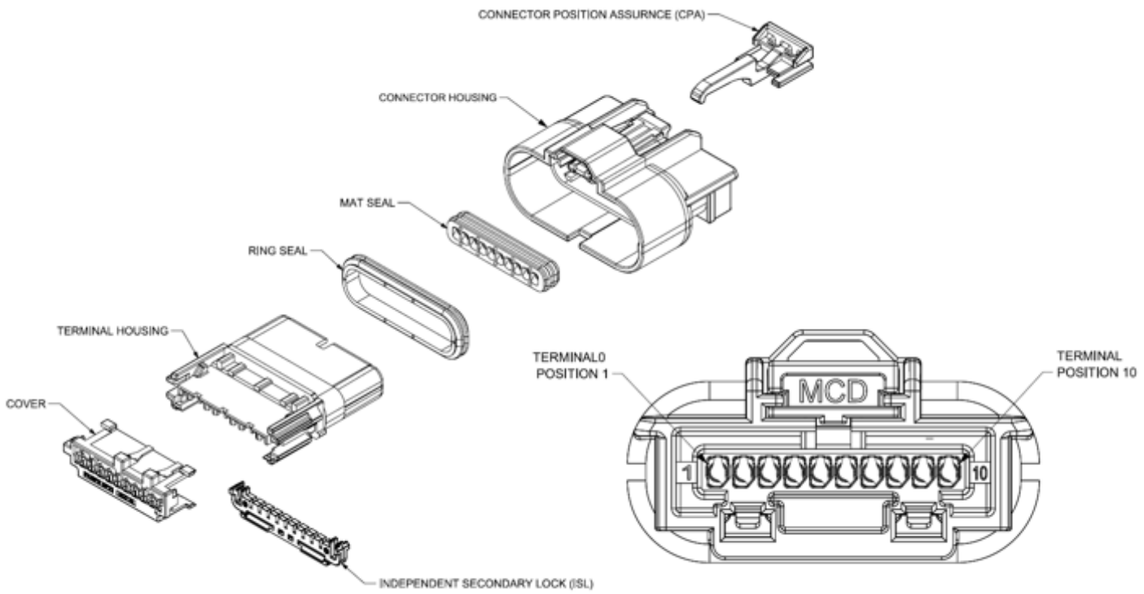
DOCUMENT NUMBER	DOC TYPE	DOC PART	REVISION
349671000	PSD	000	G1

THIRD ANGLE PROJECTION	DRAWING	SERIES	MATERIAL NUMBER	CUSTOMER	SHEET NUMBER
	A1-SIZE	34967			3 OF 3

molex

MINI50 SEALED 1x10 RECEPTACLE CONNECTOR

BOM AND PIN OUT SHEET



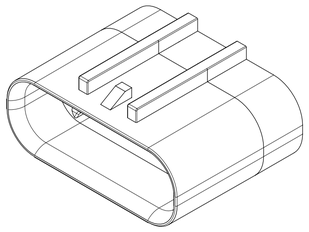
ABBREVIATION	DESCRIPTION	COLOR	MATERIAL
A-BLACK	COVER KEYING OPTION A	BLACK	SPS/NYLON GF20, 25% MAX REGRIND
B-LIGHT GRAY	COVER KEYING OPTION B	LIGHT GRAY	SPS/NYLON GF20, 25% MAX REGRIND
C-DARK GRAY	COVER KEYING OPTION C	DARK GRAY	SPS/NYLON GF20, 25% MAX REGRIND
D-STONE GRAY	COVER KEYING OPTION D	STONE GRAY	SPS/NYLON GF20, 25% MAX REGRIND
C-HSG-P	CONNECTOR HOUSING PLUGED, W/ BRIDGE	BLACK	SPS/NYLON GF20, 25% MAX REGRIND
C-HSG-O	CONNECTOR HOUSING OPEN, W/ BRIDGE	BLACK	SPS/NYLON GF20, 25% MAX REGRIND
T-HSG	TERMINAL HOUSING	BLACK	SPS/NYLON GF20, 25% MAX REGRIND
ISL	INDEPENDENT SECONDARY LOCK	NATURAL	SPS GF 30, 25% MAX REGRIND
CPA	CONNECTOR POSITION ASSURANCE	RED	PBT GF 30, 25% MAX REGRIND
M	MAT SEAL	LIGHT BLUE	NHERENTLY LUBRICATED SILICONE
R	RING SEAL	RUST RED	INHERENTLY LUBRICATED SILICONE

FOR ADDITIONAL INFORMATION SEE 1x10 - 349671000/PSD

ASSEMBLY DESCRIPTION	ASSEMBLY PART NUMBER	COMPONENT							BLOCKED TERMINALS										STATUS	COMMENTS	OPTIONAL ATTATCHMENTS SOLD SEPERATELY
		THE PRESENCE OF AN ABBREVIATION INDICATES THE PRESENCE OF THAT COMPONENT							CAVITY WITH A NUMBER INDICATES BLOCKED TERMINAL POSITION CAVITY WITHOUT A NUMBER INDICATES OPEN TERMINAL POSITION												BLACKSHELL P/N
		COVER KEY/ COLOR	CONNECTOR HOUSING	TERMINAL HOUSING	ISL	CPA	MAT SEAL	RING SEAL													
MINI50 SEALED 1X10 RCPT CONN KEY A CPA	349671001	A-BLACK	C-HSG-O	T-HSG	ISL	YES	M	R	-	-	-	-	-	-	-	-	-	-	SALEABLE		349671020
MINI50 SEALED 1X10 RCPT CONN KEY B CPA	349671002	B-LIGHT GRAY	C-HSG-O	T-HSG	ISL	YES	M	R	-	-	-	-	-	-	-	-	-	-	SALEABLE		349671020
MINI50 SEALED 1X10 RCPT CONN KEY C CPA	349671003	C-DARK GRAY	C-HSG-O	T-HSG	ISL	YES	M	R	-	-	-	-	-	-	-	-	-	-	SALEABLE		349671020
MINI50 SEALED 1X10 RCPT CONN KEY D CPA	349671004	D-STONE GRAY	C-HSG-O	T-HSG	ISL	YES	M	R	-	-	-	-	-	-	-	-	-	-	SALEABLE		349671020
MINI50 SEALED 1X10 RCPT CONN KEY A CPA	349671005	A-BLACK	C-HSG-O	T-HSG	ISL	NO	M	R	-	-	-	-	-	-	-	-	-	-	SALEABLE		349671020
MINI50 SEALED 1X10 RCPT CONN KEY B CPA	349671006	B-LIGHT GRAY	C-HSG-O	T-HSG	ISL	NO	M	R	-	-	-	-	-	-	-	-	-	-	SALEABLE		349671020
MINI50 SEALED 1X10 RCPT CONN KEY C CPA	349671007	C-DARK GRAY	C-HSG-O	T-HSG	ISL	NO	M	R	-	-	-	-	-	-	-	-	-	-	SALEABLE		349671020
MINI50 SEALED 1X10 RCPT CONN KEY D CPA	349671008	D-STONE GRAY	C-HSG-O	T-HSG	ISL	NO	M	R	-	-	-	-	-	-	-	-	-	-	SALEABLE		349671020
MINI50 SEALED 1X10 RCPT CONN KEY A CPA/4	349671151	A-BLACK	C-HSG-P	T-HSG	ISL	YES	M	R	-	-	-	-	5	6	7	8	-	-	SALEABLE		349671020
MINI50 SEALED 1X10 RCPT CON KEY A CPA/7	349671152	A-BLACK	C-HSG-P	T-HSG	ISL	YES	M	R	-	-	-	-	-	-	-	8	9	10	SALEABLE		349671020

TABLE OF CONTENTS	
SHEET NO.	SHEET DESCRITION
1	INTERFACE NOTES AND BOM
2	INTERFACE KEY CONFIGURATIONS
3	INTERFACE DEFINITION
4	INTERFACE DATUM TARGETS

MATING INTERFACE CHART			
DESCRIPTION	COLOR	MODEL NUMBER	KEY
1X10, KEY A, BLACK	BLACK	349681801	A
1X10, KEY B, LIGHT GRAY	LIGHT GRAY	349681802	B
1X10, KEY C, DARK GRAY	DARK GRAY	349681803	C
1X10, KEY D, STONE GRAY	STONE GRAY	349681804	D



1X10

NOTES: VALID UNLESS OTHERWISE SPECIFIED

1. GENERAL:

REFER TO "SAE/USCAR 12 CONNECTOR GUIDELINES" AND "SAE/USCAR 2 PERFORMANCE SPECIFICATION FOR AUTOMOTIVE ELECTRICAL CONNECTOR SYSTEMS" FOR ADDITIONAL REQUIREMENTS.

2. DESIGN - MATERIALS:

a. HOUSING: SPS/NYLON 20% GLASS FILLED OR EQUIVALENT
FLAMMABILITY REQUIREMENT: PER ISO3795 OR GM3191
1. BURN RATE 100mm/MIN MAXIMUM
2. MATERIAL MUST BE SELF EXTINGUISHING

b. BLADE TERMINAL: SEE MOLEX SALES DRAWING 347350050. FOR MATERIAL, DIMENSIONAL, PLATING AND COATING REQUIREMENTS AND ANY BLADE TERMINAL DESIGN INFORMATION NOT SHOWN ON REFERENCED OR THIS DRAWING SEE EWCAP DWG NO. EWCAP-001.
1. TIN PLATING: 2.5-4.0 MICROMETERS MATTE TIN OVER 1.25-2.25 MICROMETERS DUCTILE SULFAMATE NICKEL
2. SILVER PLATING: 1.9-3.3 MICROMETERS SILVER OVER 1.0-1.8 MICROMETERS DUCTILE SULFAMATE NICKEL.
ANTI-TARNISH: SYNTHETIC HYDROCARBON CONTACT SURFACE FINISH OR EQUIVALENT APPLIED WITHOUT VOID TO CONTACT AREA

c. STANDARD COLORS FOR KEYING (SEE CHART). DEVATION REQUIRES APPROVAL OF AUTHORIZED PERSON.

3. DESIGN - GEOMETRY:

a. THE 3-D CAD DATA IS BASIC (WITHOUT TOLERANCE) AND THE MASTER FOR THIS PART WITH THE EXCEPTION OF UNDERLINED DIMENSIONS. DIMENSIONAL INFORMATION NOT SHOWN IN THIS DRAWING IS DEFINED BY THE DATA FILE AT ITS LATEST REVISION.
b. PRODUCT DESIGN MODEL NUMBER(S): SEE MATING INTERFACE CHART
c. GEOMETRIC DIMENSIONS AND TOLERANCES PER ASME Y14.5M - 2009
d. GENERAL TOLERANCES: SEE TITLE BLOCK
e. EDGES AND UNDIMENSIONED DETAILS PER ISO13715
f. CORNERS SHOWN AS SHARP TO BE R 0.2 MAX.
g. LETTERING SHALL BE 0.15 MAX RAISED IN 0.25 MAX RECESS PAD.
THIS INCLUDES RECYCLING CODE, CAVITY ID, VENDOR IDENTIFICATION, AND CUSTOMER MATERIAL NUMBER.
(FOR SMALL PARTS: LETTERING SHALL BE 0.10 MAX RAISED IN 0.15 MAX RECESS PAD)

4. DESIGN - MANUFACTURING:

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

INSPECTION NUMBER LOG
LAST NUMBER: ICD-30
ADDED:
REMOVED: ICD-27A

REV	REV DESCRIPTION
D1	REMOVED ICD-27A. CHANGED ICD-12 AND ICD-28
D	CHANGED RIB REMOVAL FOR KEYING: SEE VIEWS SHEET 2. ADDED SEE NOTE 2 TO PIN DETAIL SHEET 3. REVISED NOTE 4f.
C1	REVISED NOTES AND DIMENSIONS
C	RELEASE

QUALITY SYMBOLS
= 0
= 0
= 0
= 0
= 0
= 0
= 0
= 0
= 0

2021/02/26
2021/03/24
2021/03/24

EC NO: 659036
DRWN: MLI149
CHK'D: JCONDON
APPR: JCONDON

D1 REV

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

GENERAL TOLERANCES (UNLESS SPECIFIED)

ANGULAR TOL ± 3.0 °	
4 PLACES	±
3 PLACES	±
2 PLACES	± 0.1
1 PLACE	± 0.2
0 PLACES	±

DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS

DIMENSION UNITS: mm
SCALE: 1:1
DRWN BY: MNS02 DATE: 2016/04/21
CHK'D BY: DATE:
APPR BY: KDEKOSKI DATE: 2016/05/04
DRAWING SIZE: A1
THIRD ANGLE PROJECTION

molex®

MINI50 SEALED 1X10 INTERFACE

PRODUCT CUSTOMER DRAWING

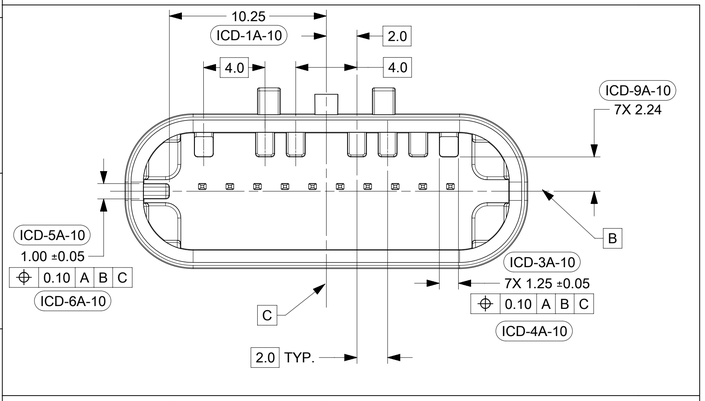
SERIES	MATERIAL NUMBER	CUSTOMER
34968	SEE CHART	

DOCUMENT NUMBER	DOC TYPE	DOC PART	SHEET NUMBER
349681800	PSD	000	1 OF 4

RELEASE STATUS	P1	RELEASE DATE	2021/03/24 15:08:37

SHEET DESCRIPTION

KEY CONFIGURATIONS



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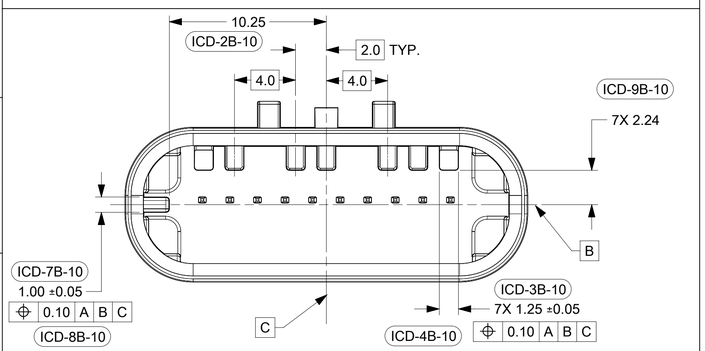

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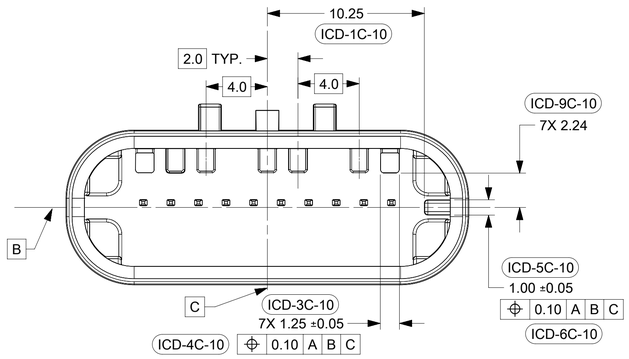

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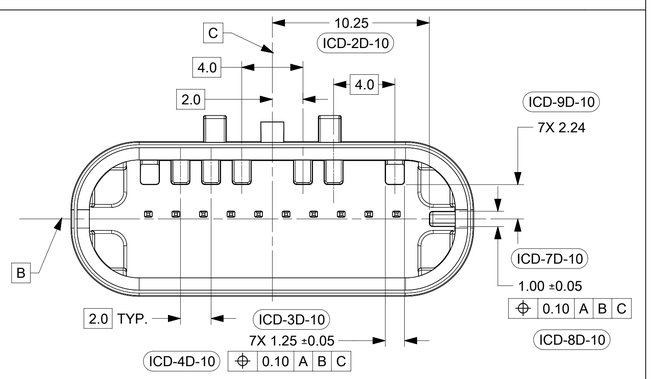

KEY OPTION D

RELEASE STATUS	P1	RELEASE DATE	2021/03/24 15:08:37

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QUALITY SYMBOLS

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FC = 0
FP = 0
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C = 0
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= 0
= 0
= 0

EC NO: 659036
DRWN: ML1149 2021/02/26
CHK'D: JCONDON 2021/03/24
APPR: JCONDON 2021/03/24
REV D1

GENERAL TOLERANCES (UNLESS SPECIFIED)

ANGULAR TOL ±	3.0	°
4 PLACES	±	
3 PLACES	±	
2 PLACES	±	0.1
1 PLACE	±	0.2
0 PLACES	±	

DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS

DIMENSION UNITS	SCALE
mm	1:1
DRWN BY	DATE
MNS02	2016/04/21
CHK'D BY	DATE
APPR BY	DATE
KDEKOSKI	2016/05/04
DRAWING SIZE	THIRD ANGLE PROJECTION
A1	

molex®

MINI50 SEALED 1X10 INTERFACE

PRODUCT CUSTOMER DRAWING

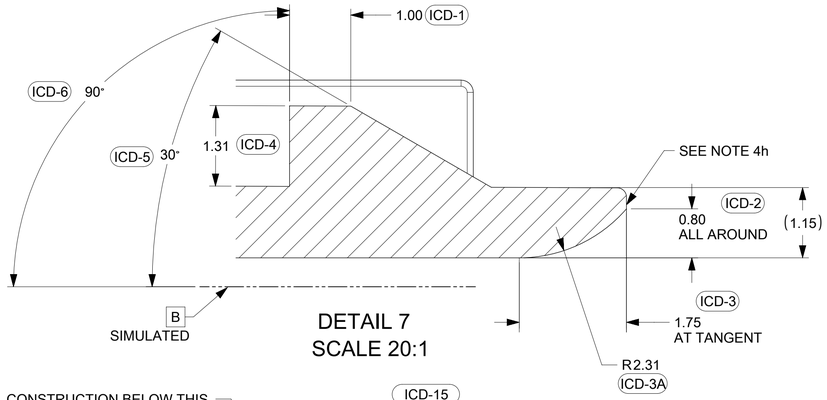
SERIES	MATERIAL NUMBER	CUSTOMER
34968	SEE CHART	

DOCUMENT NUMBER	DOC TYPE	DOC PART	SHEET NUMBER
349681800	PSD	000	2 OF 4

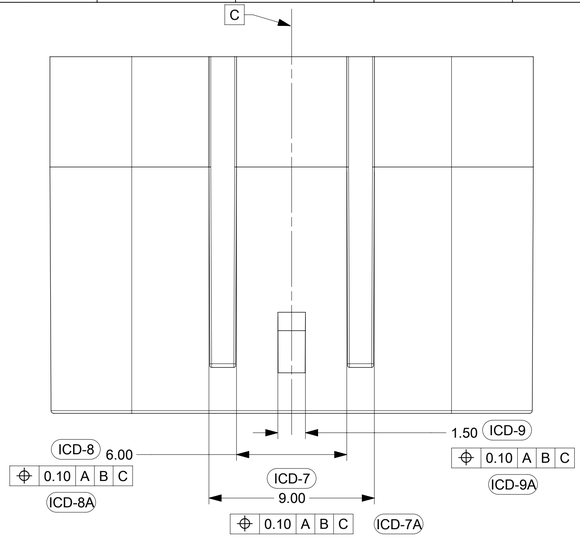
COPYRIGHT, molex-lit-print-A1
DATE: 2021/03/24
DATE: 2016/04/04

SHEET DESCRIPTION

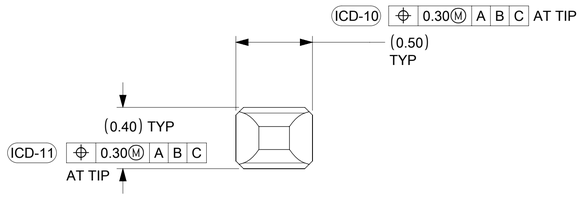
CONNECTOR INTERFACE DEFINITION



DETAIL 7
SCALE 20:1



SEE NOTE 2
REFER TO MOLEX SALES DWG 347350050
AND EWCAP DWG. NO. EWCAP-001 REV. P 050-T001
0.50 TERMINAL BLADE CONFIGURATION



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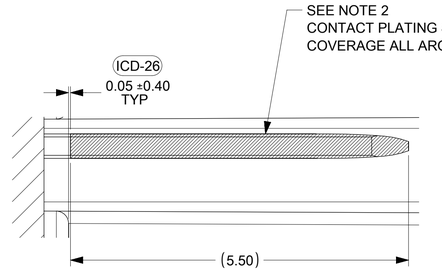
SCALE 50:1



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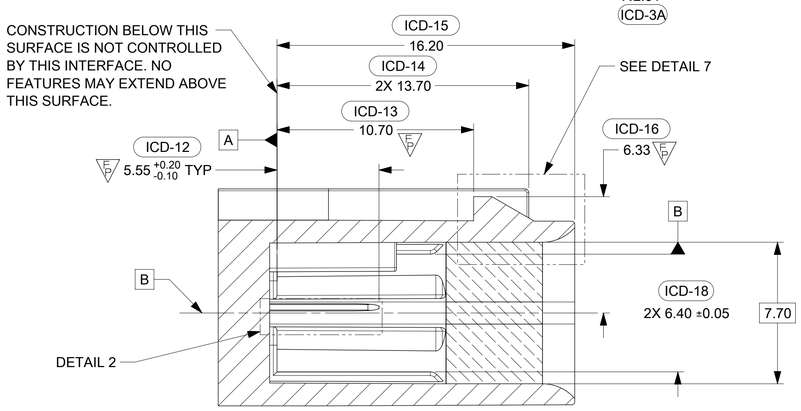

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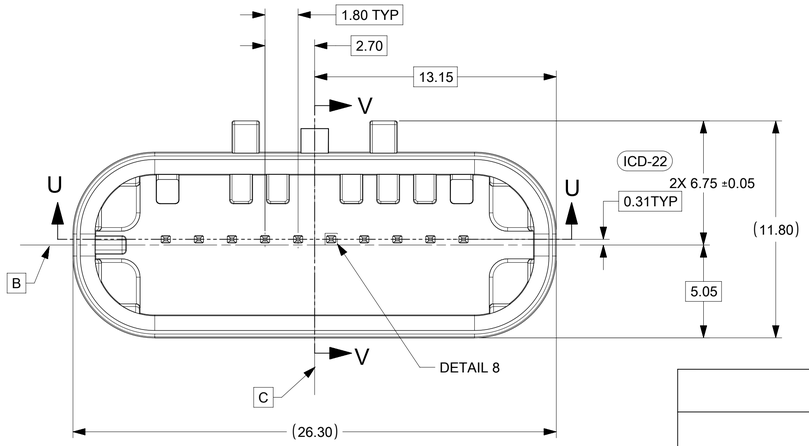
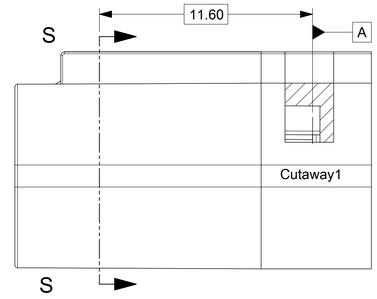
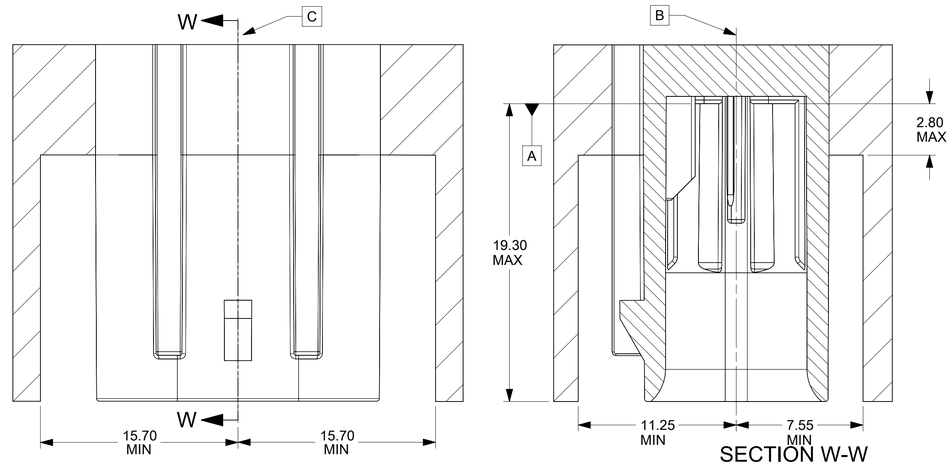




PACKAGING FRAME

IF HEADER IS RECESSED INTO A POCKET, THESE DIMENSIONS REPRESENT
THE MINIMUM CLEARANCE REQUIRED FOR THE MATING CONNECTOR SHROUD.



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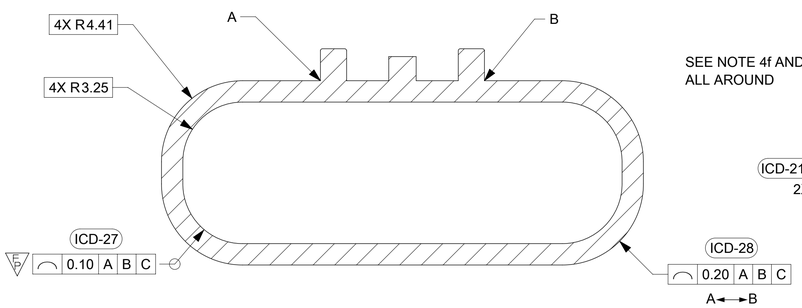
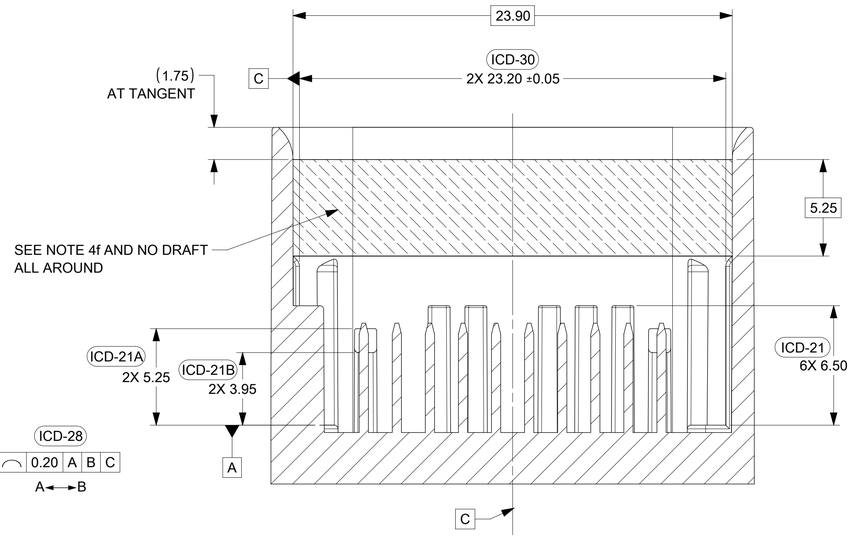


SECTION S-S
SCALE 10:1



SECTION U-U

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C	= 0
	= 0
	= 0
	= 0

2021/02/26 EC NO: 659036
2021/03/24 DRWN: MLI149
2021/03/24 CHK'D: JCONDON
APPR: JCONDON

GENERAL TOLERANCES (UNLESS SPECIFIED)

ANGULAR TOL ±	3.0	°
4 PLACES	±	
3 PLACES	±	
2 PLACES	±	0.1
1 PLACE	±	0.2
0 PLACES	±	

DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS

REV D1

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DIMENSION UNITS	mm
SCALE	1:1
DRWN BY	MNS02
DATE	2016/04/21
CHK'D BY	
DATE	
APPR BY	KDEKOSKI
DATE	2016/05/04
DRAWING SIZE	A1
	THIRD ANGLE PROJECTION

molex®

MINI50 SEALED 1X10 INTERFACE

PRODUCT CUSTOMER DRAWING

SERIES	MATERIAL NUMBER	CUSTOMER
34968	SEE CHART	

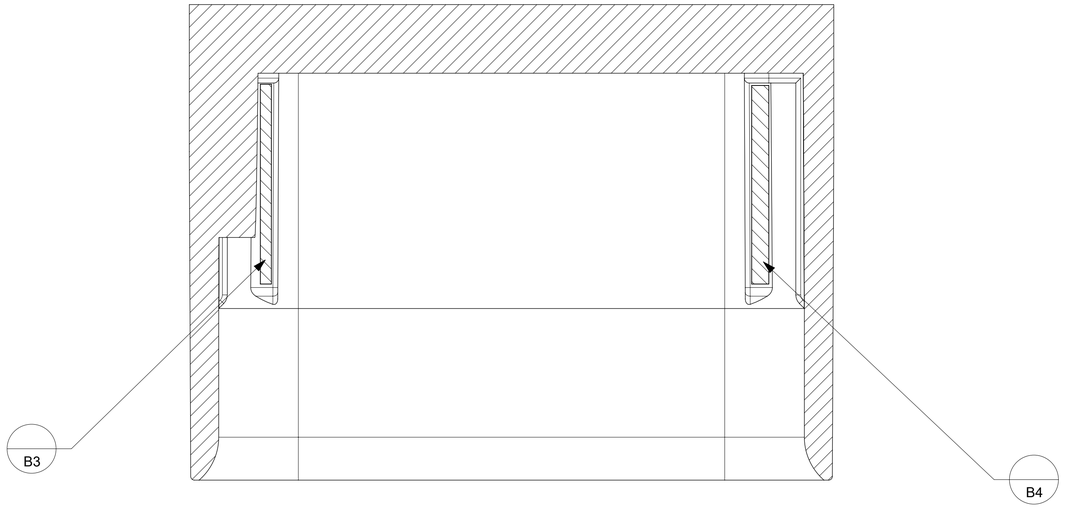
DOCUMENT NUMBER	DOC TYPE	DOC PART	SHEET NUMBER
349681800	PSD	000	3 OF 4

RELEASE STATUS	P1	RELEASE DATE	2021/03/24 15:08:37

PDM#PT: base-drpdm47
Rev: 2016/04/14
Set#: 2016/04/14

SHEET DESCRIPTION

DATUM TARGETS



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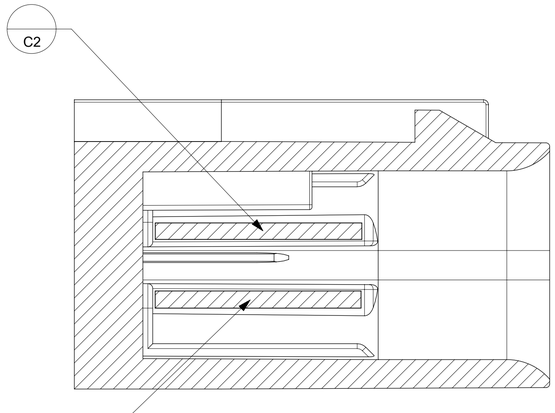

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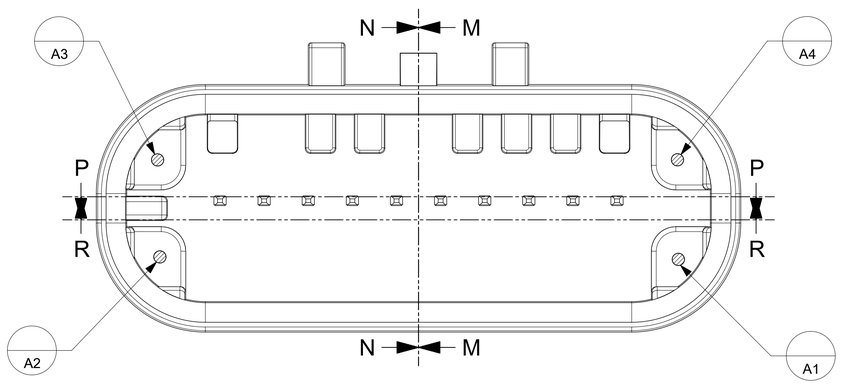

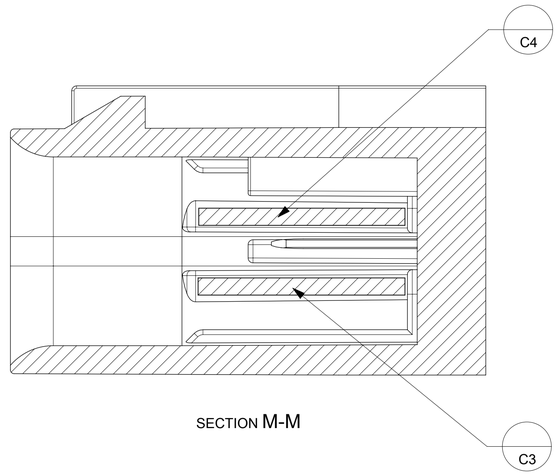

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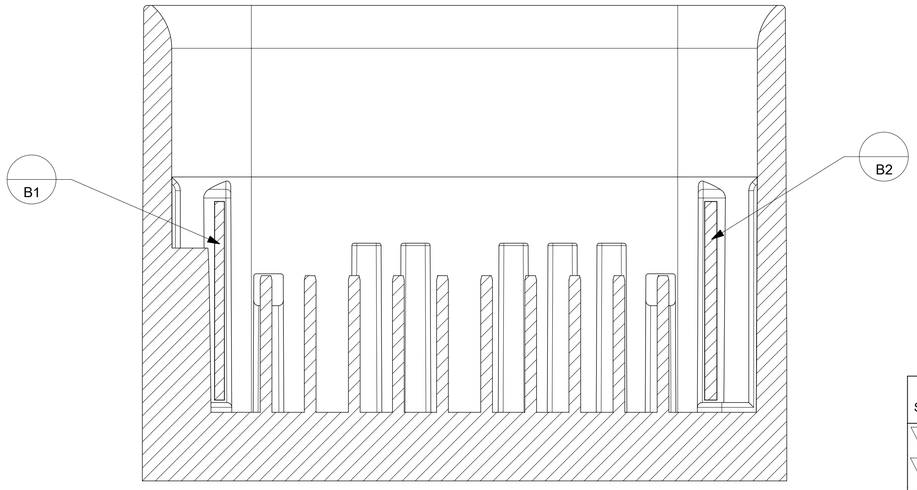

SECTION R-R

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EC NO: 659036 2021/02/26
DRWN: MLI149 2021/03/24
CHK'D: JCONDON 2021/03/24
APPR: JCONDON

GENERAL TOLERANCES (UNLESS SPECIFIED)	
ANGULAR TOL ± 3.0 °	
4 PLACES	±
3 PLACES	±
2 PLACES	± 0.1
1 PLACE	± 0.2
0 PLACES	±

DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS

REV: D1

DIMENSION UNITS: mm
SCALE: 8:1
DRWN BY: MNS02
DATE: 2016/04/21
CHK'D BY:
DATE:
APPR BY: KDEKOSKI
DATE: 2016/05/04
DRAWING SIZE: A1
THIRD ANGLE PROJECTION

molex®

MINI50 SEALED 1X10 INTERFACE

PRODUCT CUSTOMER DRAWING

SERIES	MATERIAL NUMBER	CUSTOMER
34968	SEE CHART	

DOCUMENT NUMBER	DOC TYPE	DOC PART	SHEET NUMBER
349681800	PSD	000	4 OF 4

RELEASE STATUS	P1	RELEASE DATE	2021/03/24 15:08:37

Created in standard product
REVISION: D
DATE: 2016/04/04