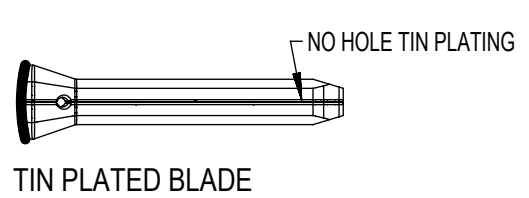
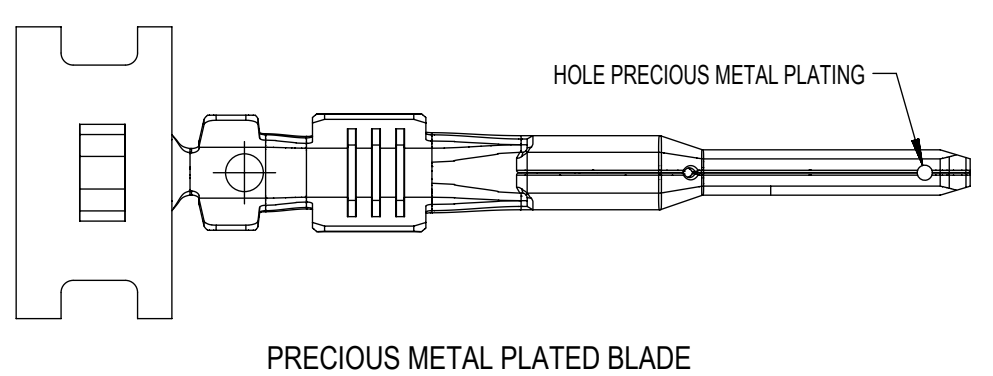


- GENERAL NOTES: (UNLESS OTHERWISE SPECIFIED)
- MATING TERMINAL SHOWN ON SD-33012-002
 - MATERIAL: ASTM B422, UNS C19025, HR04
THICKNESS: 0.30 mm ±0.01
TEMPER: FULL HARD (REF)
TENSILE: 496-572 MPA
 - TIN PLATED TERMINAL FINISH:
OVERALL UNDERPLATE ELECTRODEPOSITED NICKEL
OVERALL ELECTRODEPOSITED REFLOW TIN
 - GOLD PLATED TERMINAL FINISH
OVERALL UNDERPLATE ELECTRODEPOSITED DUCTILE SULFAMATE NICKEL
CONTACT AREA - ELECTRODEPOSITED GOLD
GRIP AREA - ELECTRODEPOSITED 100% TIN MATTE FINISH
 - SILVER PLATED TERMINAL FINISH
OVERALL UNDERPLATE ELECTRODEPOSITED DUCTILE SULFAMATE NICKEL
CONTACT AREA - ELECTRODEPOSITED PURE SILVER (0.5% MAX IMPURITIES) SEMI-BRIGHT FINISH
- SILVER ANTI-TARNISH : EVABRITE
GRIP AREA - ELECTRODEPOSITED 100% TIN MATTE FINISH
 - MEETS CRIMP PERFORMANCE SPECIFICATION SAE/USCAR-21 (8/2001)
 - MEETS PERFORMANCE STANDARD FOR AUTOMOTIVE ELECTRICAL CONNECTOR SYSTEMS SAE/USCAR-2 REV 3 (APRIL 2001)
 - MEETS FIELD CORRELATED LIFE TEST SAE/USCAR-20 (11/2001)
 - MEETS WIRING COMPONENT DESIGN GUIDELINES SAE/USCAR-12 REV 2 (12/2001)
 - MEETS ELECTRICAL CONNECTION SYSTEM DESIGN SPECIFICATION (SDS) REV 11 (5/2002)
 - REFERENCE PK-31300-516 FOR REEL DIRECTION
 - REFERENCE AS-33000-001 FOR CRIMP INFORMATION



SYMBOLS										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:																			
mm					4:1					EC NO: 631014																			
GENERAL TOLERANCES (UNLESS SPECIFIED)										DRWN: NVENKATESHSH 2019/05/11																			
ANGULAR TOL ± 3.0°										CHK'D: ADHIR 2020/03/06																			
4 PLACES ±										APPR: ADHIR 2020/03/06																			
3 PLACES ±										INITIAL REVISION:																			
2 PLACES ± 0.10										DRWN: LPULLIAM 2006/01/31																			
1 PLACE ± 0.3										APPR: bmoser 2006/02/02																			
0 PLACES ±										DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS																			
THIRD ANGLE PROJECTION					DRAWING					SERIES					MATERIAL NUMBER					CUSTOMER					SHEET NUMBER				
C-SIZE					33000					SEE TABLE					GENERAL MARKET					1 OF 5									

FAMILY	GENDER	SEALING	PLATING	PART NUMBER	PAYOFF DIRECTION	GRIP CODE	WIRE SIZES*	A ±0.30	B ±0.30	C ±0.30	D ±0.30	SPECIAL CHARACTERISTICS
MX150	BLADE	MAT SEAL UNSEALED	Sn	33000-0001	RIGHT (B)	14	14AWG	3.9	3.8	1.7	1.6	HIGH PERFORMANCE Sn
				33000-1001	LEFT (D)		1.50-2.00mm ²					
				33000-0002	RIGHT (B)	18	20/18/16AWG	3.3	3.1	1.3	1.4	
				33000-1002	LEFT (D)		0.75-1.25mm ²					
				33000-0003	RIGHT (B)	22	22AWG	2.5	2.6	0.9	1.0	
				33000-1003	LEFT (D)							
			33000-0004	RIGHT (B)	M3	0.35-0.50mm ²	2.5	2.7	0.9	1.54 ±0.1		
			33000-1004	LEFT (D)								
			Au	33011-1002	RIGHT (B)	14	14AWG	3.9	3.8	1.7	1.6	HIGH PERFORMANCE Au
				33011-0002	LEFT (D)		1.50-2.00mm ²					
				33011-1004	RIGHT (B)	18	20/18/16AWG	3.3	3.1	1.3	1.4	
				33011-0004	LEFT (D)		0.75-1.25mm ²					
				33011-1006	RIGHT (B)	22	22AWG	2.5	2.6	0.9	1.0	
				33011-0006	LEFT (D)							
			33011-1008	RIGHT (B)	M3	0.35-0.50mm ²	2.5	2.7	0.9	1.54 ±0.1		
			33011-0008	LEFT (D)								
			Ag	33011-2003	RIGHT (B)	14	14AWG	3.9	3.8	1.7	1.6	HIGH PERFORMANCE Ag
				33011-3003	LEFT (D)		1.50-2.00mm ²					
				33011-2002	RIGHT (B)	18	20/18/16AWG	3.3	3.1	1.3	1.4	
				33011-3002	LEFT (D)		0.75-1.25mm ²					
				33011-2001	RIGHT (B)	22	22AWG	2.5	2.6	0.9	1.0	
33011-3001	LEFT (D)											
33011-2004	RIGHT (B)	M3	0.35-0.50mm ²	2.5	2.7	0.9	1.54 ±0.1					
33011-3004	LEFT (D)											

* REFERENCE AS-33000-001 FOR SPECIFIC WIRE TYPES

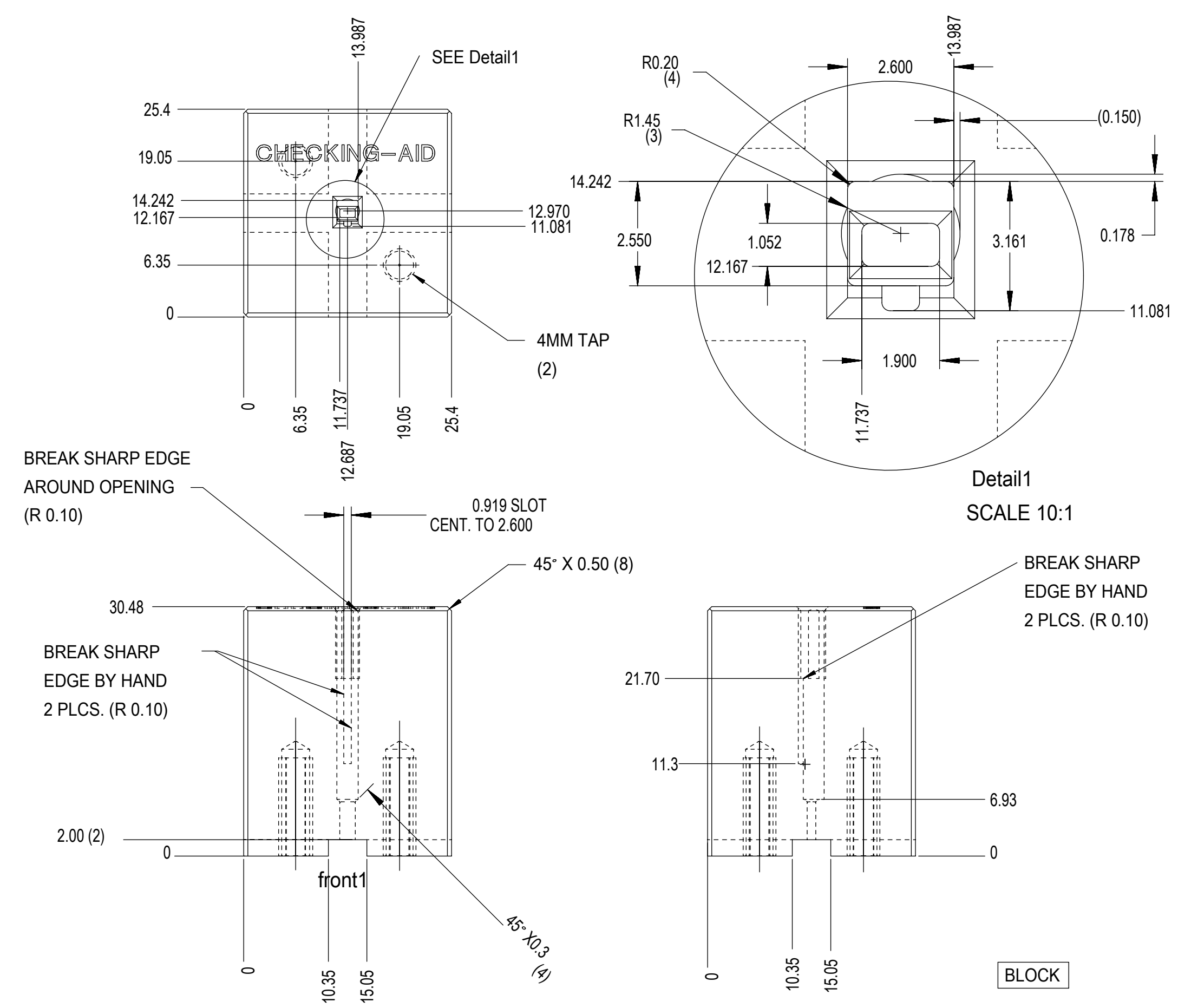
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	ANGULAR TOL ± 3.0°		CHK'D: ADHIR	2020/03/06		
	4 PLACES ±		APPR: ADHIR	2020/03/06		
	3 PLACES ±		INITIAL REVISION:			
	2 PLACES ± 0.10		DRWN: LPULLIAM	2006/01/31		
	1 PLACE ± 0.3		APPR: bmoser	2006/02/02		
	0 PLACES ±		THIRD ANGLE PROJECTION			
DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		DRAWING	SERIES	MATERIAL NUMBER	CUSTOMER	SHEET NUMBER
		C-SIZE	33000	SEE TABLE	GENERAL MARKET	2 OF 5



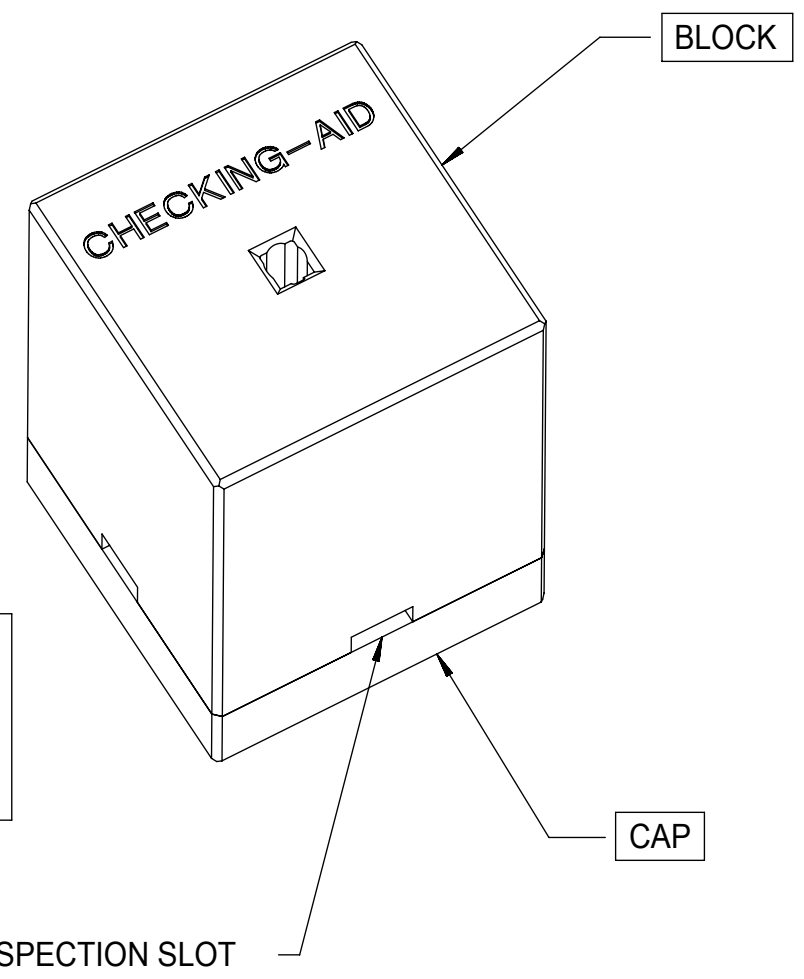
MX150 1.5MM BLADE TERMINAL

PRODUCT CUSTOMER DRAWING

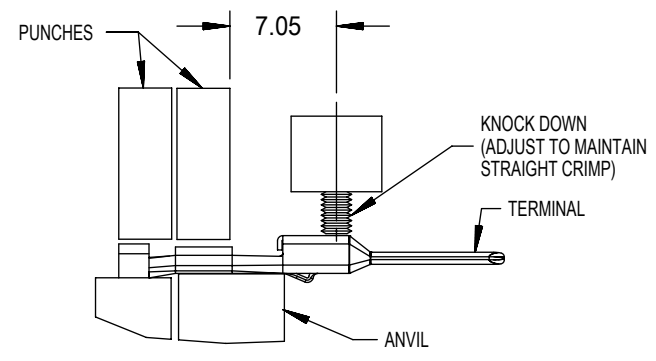
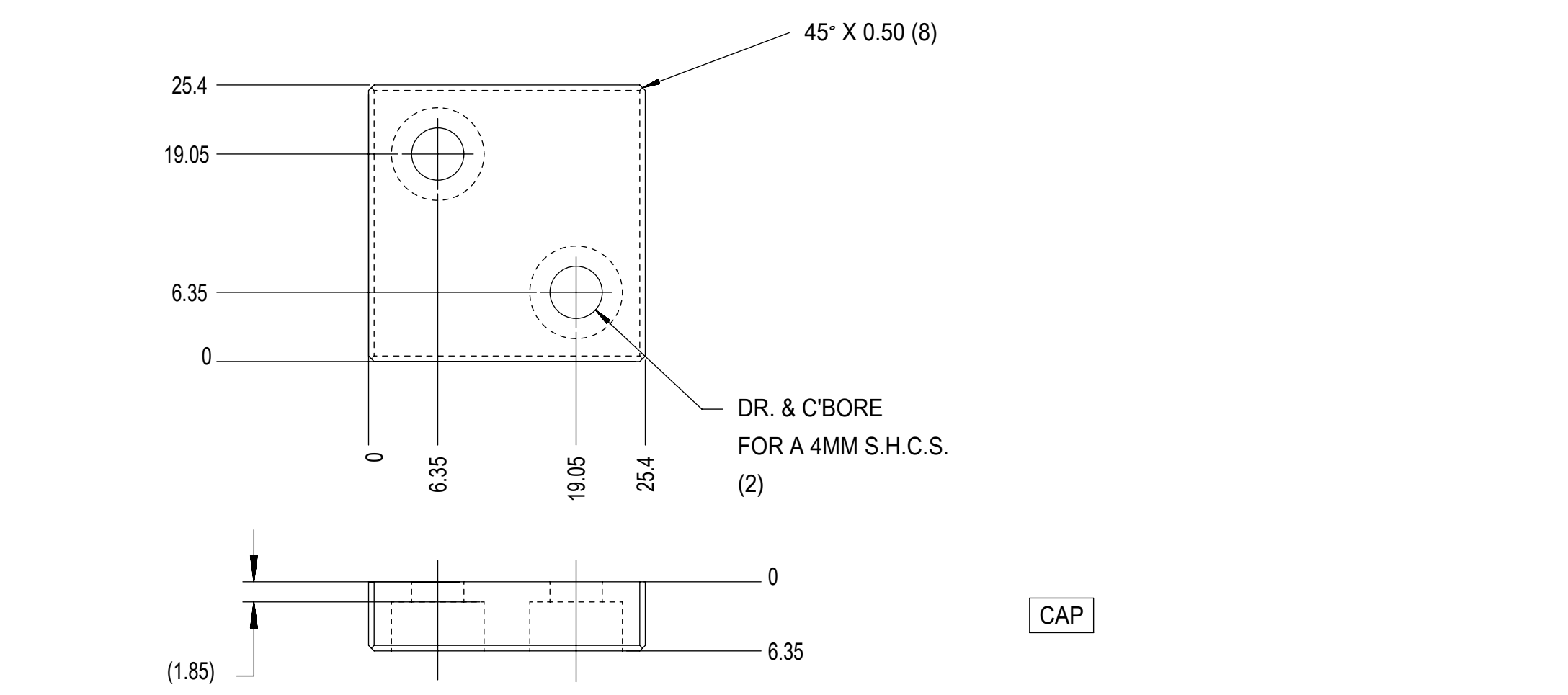
DOCUMENT NUMBER	DOC TYPE	DOC PART	REVISION
SD-33000-001	PSD	001	D2



CHECKING-AID
 2 PIECE ASM. A2 TOOL STEEL
 HARDEN & GRIND TO A ROCKWELL
 HARDNESS "C" SCALE OF 56-58



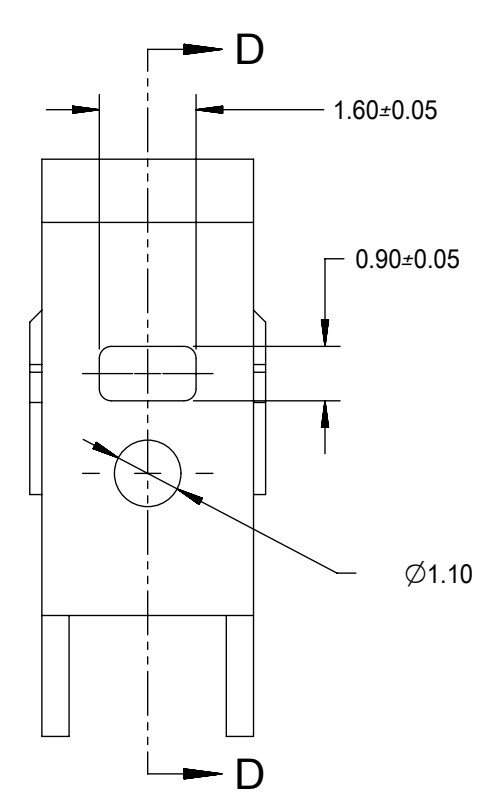
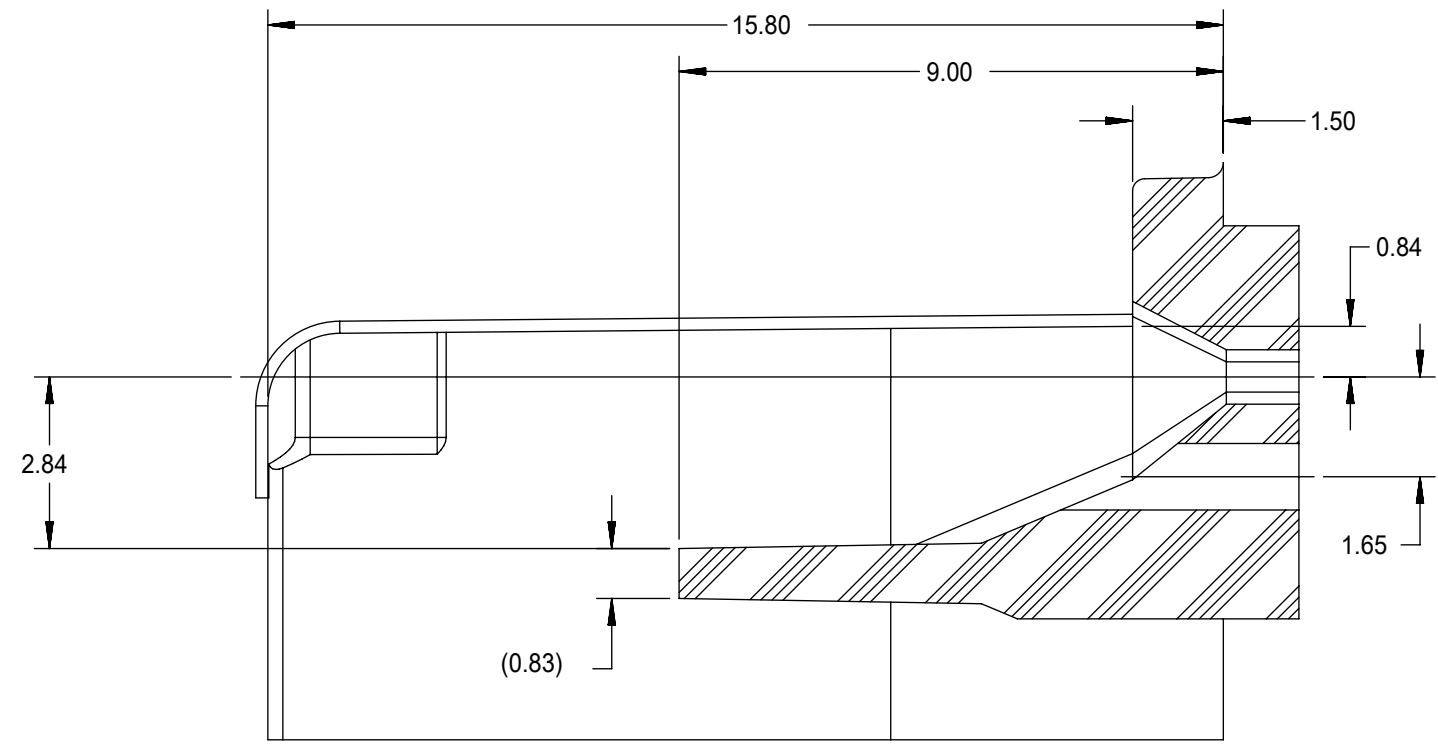
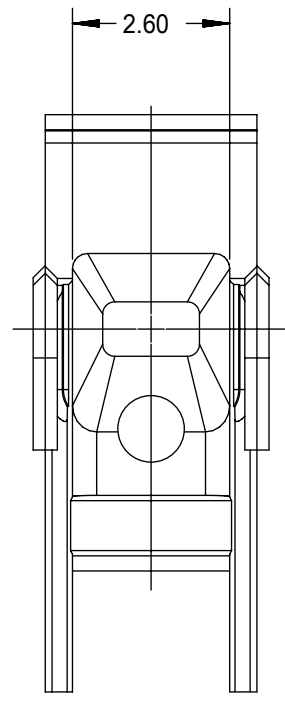
CHECKING AID TOLERANCE
 .XXX = .005
 .XX = .03
 .X = .3



CRIMP TOOLING
 SCALE 2:1

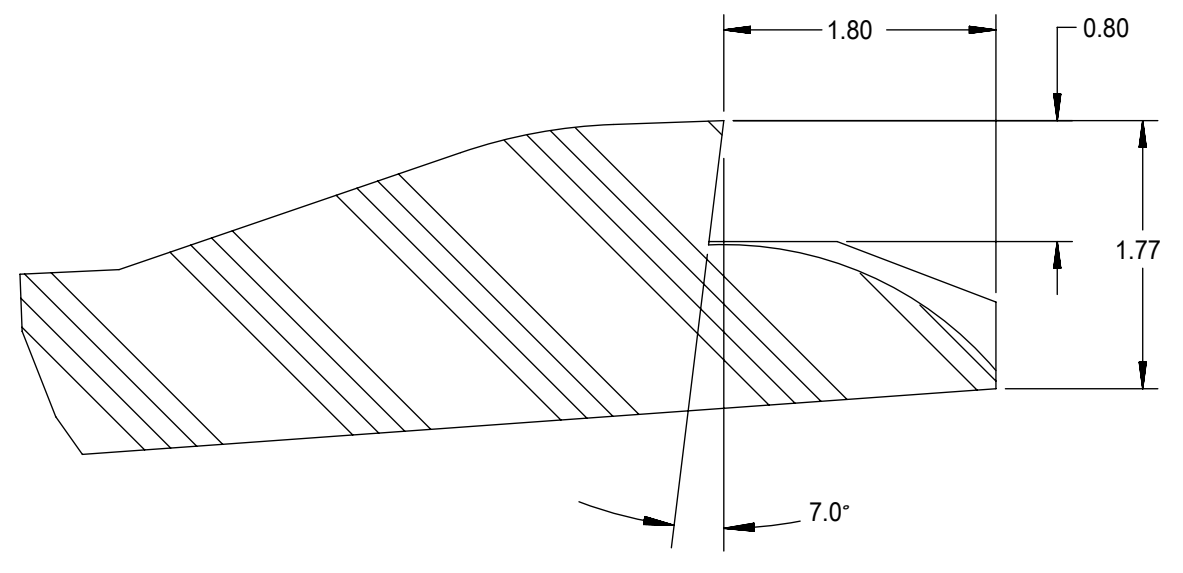
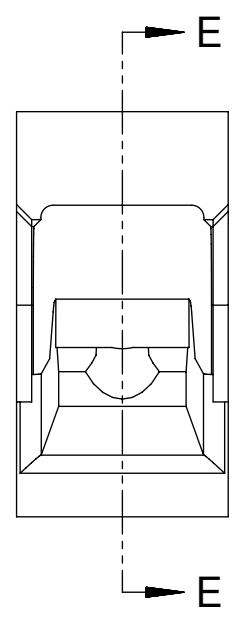
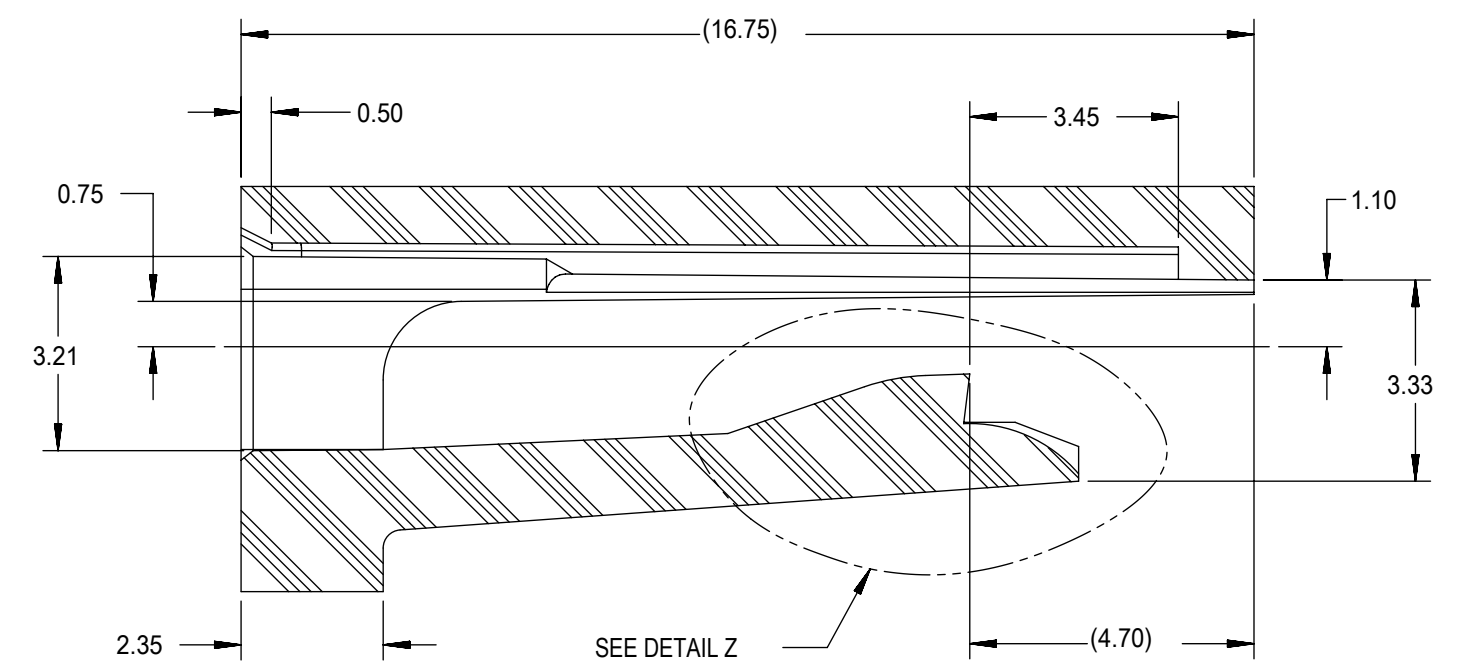
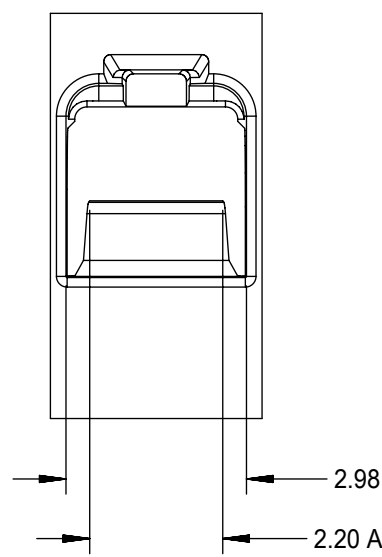
- CRIMP REQUIREMENTS:
1. CRIMP STRAIGHTNESS MUST BE MAINTAINED. USE A KNOCKDOWN TOOL LOCATED AS SHOWN. TERMINAL BOX MUST NOT BE DEFORMED
 2. AFTER CRIMPING, THE TERMINAL AND WIRE MUST FIT FREELY INTO THE CHECKING AID 33000-700. PROPER INSERTION DEPTH IS MET WHEN BLADE TIP STOPS ON CAP. SLOTS PROVIDED TO VISUALLY INSPECT STOPAGE OF PIN TIP.
 3. FOR OTHER MECHANICAL REQUIREMENTS ON CRIMPED TERMINALS, REFER TO SAE/USCAR-21 (5-13-02) SECTIONS 4.2 (VISUAL INSPECTION), 4.3 (CROSS SECTION ANALYSIS) AND 4.4 (CONDUCTOR CRIMP PULLOUT FORCE)

THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX ELECTRONIC TECHNOLOGIES, LLC AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION									
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▽ = 0		4 PLACES ±				APPR: ADHIR 2020/03/06			
▽ = 0		3 PLACES ±				INITIAL REVISION:			
▽ = 0		2 PLACES ± 0.10				DRWN: LPULLIAM 2006/01/31			
▽ = 0		1 PLACE ± 0.3				APPR: bmoser 2006/02/02			
▽ = 0		0 PLACES ±				THIRD ANGLE PROJECTION			
▽ = 0		DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS				DRAWING		SERIES	
		C-SIZE		33000		MATERIAL NUMBER		CUSTOMER	
						SEE TABLE		GENERAL MARKET	
						DOCUMENT NUMBER		DOC TYPE DOC PART REVISION	
						SD-33000-001		PSD 001 D2	
						SHEET NUMBER		3 OF 5	



SECTION D-D

TPA/INSERT DETAIL

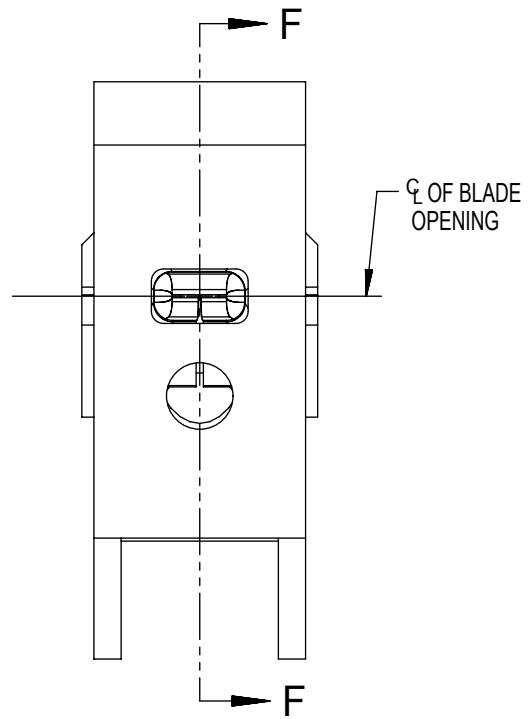
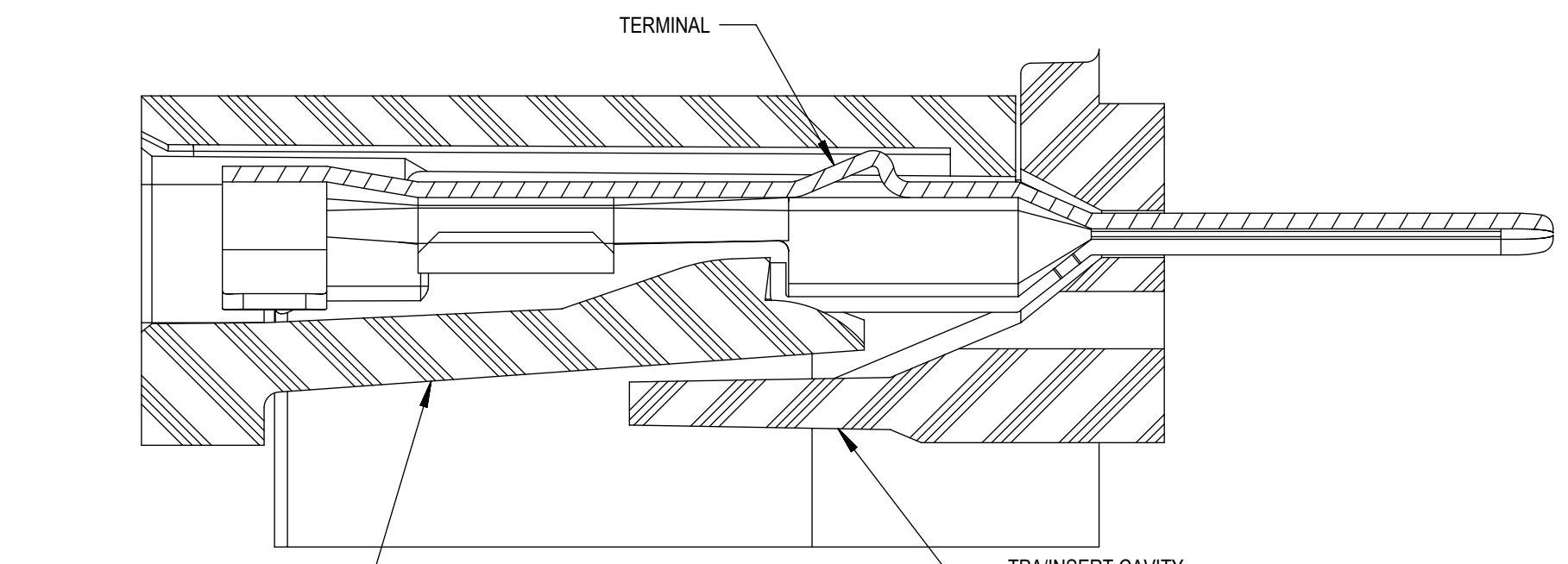
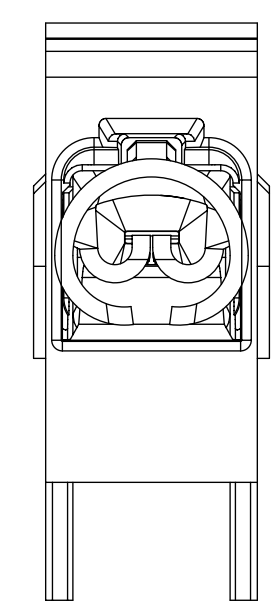


DETAIL Z
SCALE 20:1

SECTION E-E

HOUSING DETAIL

- NOTES: (UNLESS OTHERWISE SPECIFIED)
1. TOLERANCES: LINEAR ±0.10
ANGULAR 3°
 2. ALL DRAFT WITHIN TOLERANCE
 3. MAX RADII ON ALL CORNERS SHOWN SHARP: 0.10
 4. MAX FLASH PERMISSIBLE: 0.1
 5. EJECTOR PIN MARKS PERMISSIBLE IF FLUSH TO 0.25 BELOW SURFACE
 6. MATERIAL: HOUSING/FINGER SPECIFICATION ENGINEERED FOR MATERIAL WITH THE FOLLOWING PROPERTIES:
A. FLEXURAL MODULUS = 4,500 TO 9,400 MPa
PER ASTM TEST D790
B. ELONGATION AT YIELD = 2.3% OR BETTER
PER ASTM TEST D638 TYPE V
 7. CAVITY SPEC FOR USE ONLY WITH MOLEX BLADE TERMINAL PART NUMBERS (EXCEPT PIN'S FOR UNSEALED APPLICATIONS) SPECIFIED ELSEWHERE ON THIS DRAWING



BLADE TERMINAL HOUSING CAVITY

SECTION F-F

TPA/INSERT CAVITY

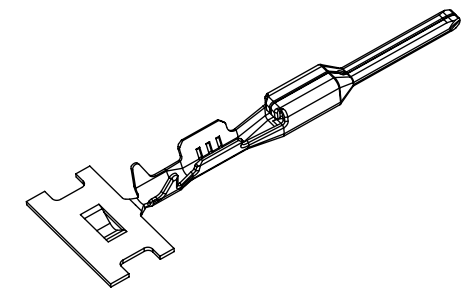
BLADE CAVITY ASSEMBLY VIEWS

THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX ELECTRONIC TECHNOLOGIES, LLC AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION									
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DOCUMENT NUMBER		SD-33000-001		DOC TYPE		PSD		DOC PART REVISION	
MATERIAL NUMBER		SEE TABLE		CUSTOMER		GENERAL MARKET		SHEET NUMBER	
								4 OF 5	

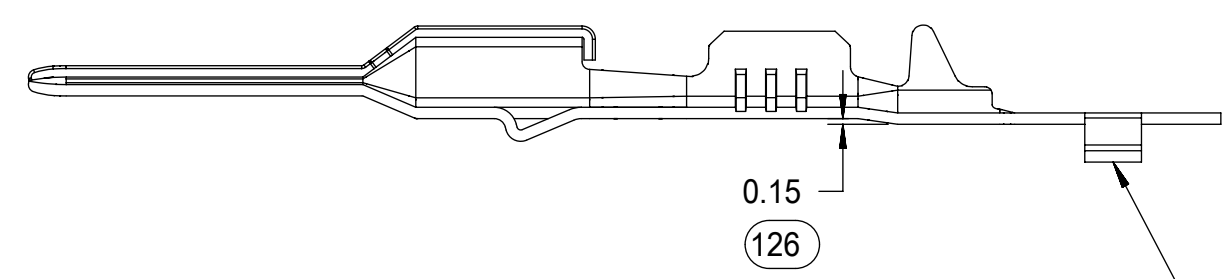
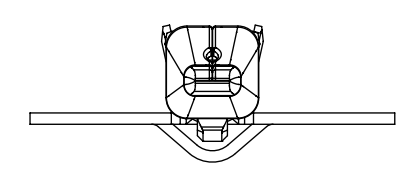
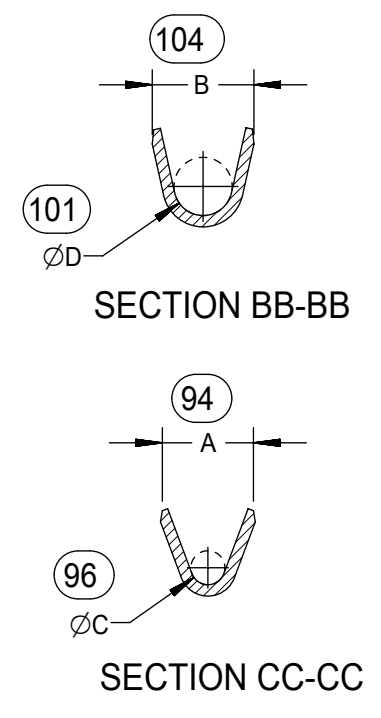
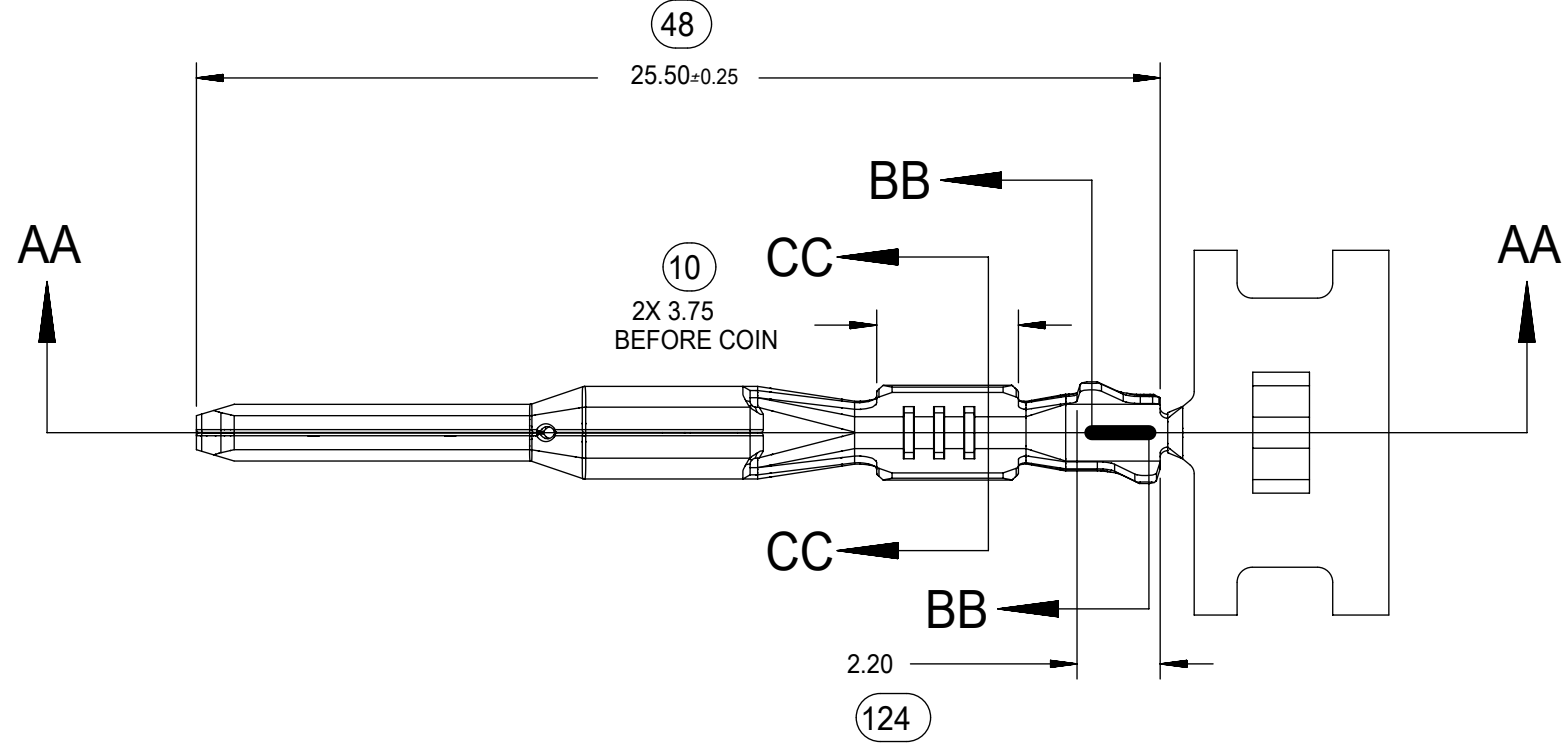
molex

MX150 1.5MM BLADE TERMINAL

PRODUCT CUSTOMER DRAWING



ISO VIEW
SCALE 2:1



SECTION AA-AA
M3 GRIP CODE TERMINAL
SEE TABLE (SHEET 2) FOR PART NUMBERS

CARRIER BUMP DIRECTION
POINTS DOWN FOR TIN PLATED TERMINALS
POINTS UP FOR PRECIOUS METAL PLATED TERMINALS

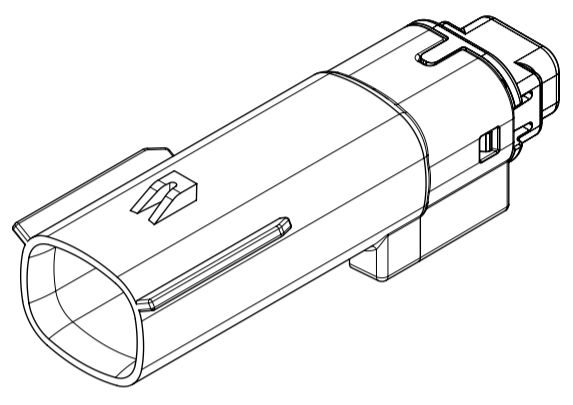
THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX ELECTRONIC TECHNOLOGIES, LLC AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION											
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▽ = 0 ▽ = 0 ▽ = 0 ▽ = 0 ▽ = 0 ▽ = 0 ▽ = 0 ▽ = 0		0 PLACES ±				33000		PS D 001 D2			

TABLE OF CONTENTS	
SHEET NO.	SHEET DESCRIPTION
1	NOTES AND BOM
2	CONFIGURATIONS
3-4	KEY CONFIGURATIONS
5	BLADE SEALED ASSEMBLY
6	SYSTEM PACKAGING
7	BACKSHELL NOTES
8	BACKSHELL
9	BACKSHELL CONFIGURATIONS

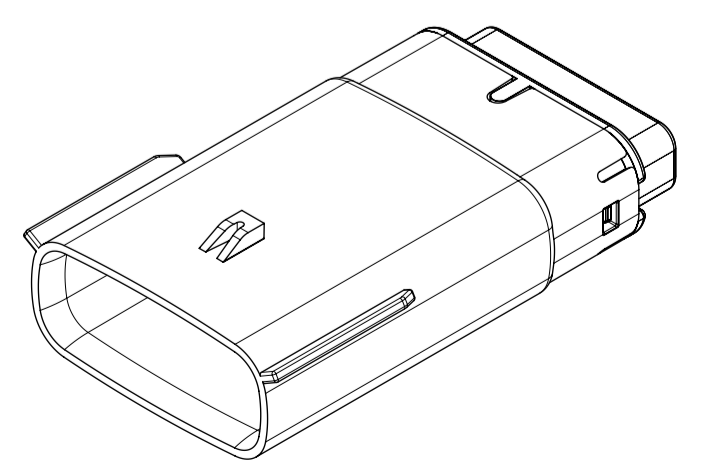
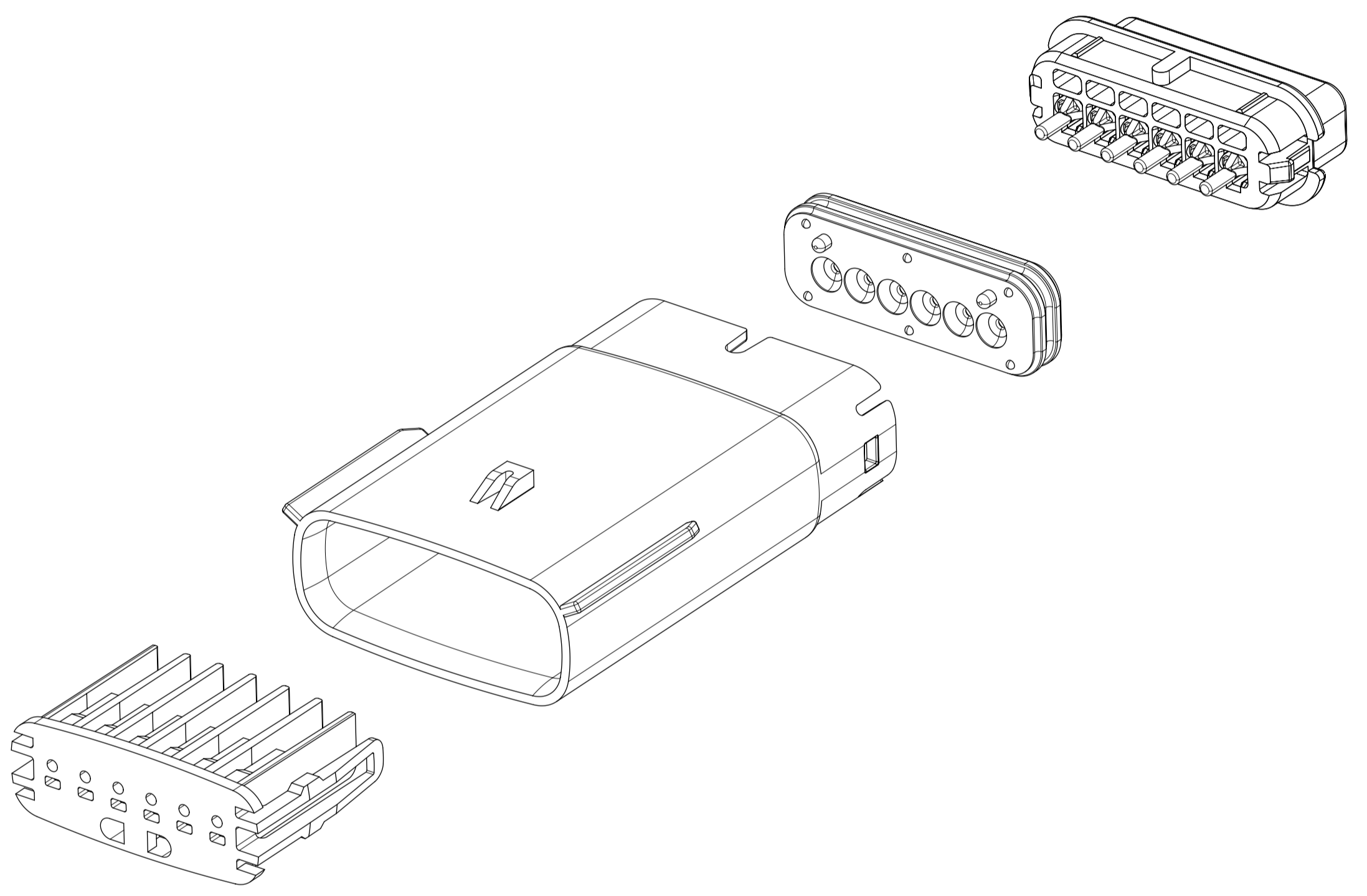
MATING CONNECTOR DRAWINGS	
DESCRIPTION	MOLEX INLINE
1X2	SD-33471-0001
1X6	SD-33471-0001

NOTES: VALID UNLESS OTHERWISE SPECIFIED

1. GENERAL:
- a. APPLICATION SPECIFICATION SEE: AS-33472-100
- CONTAINS: PRODUCT INTRODUCTION, PRODUCT SUMMARY, CONNECTOR ASSEMBLY, PACKAGING INFORMATION, CONNECTOR MATING, SERVICE INSTRUCTIONS, ELECTRICAL CONTINUITY CHECKING, CRIMPING, AND TROUBLESHOOTING.
 - DESIGNED TO MATE WITH RECEPTACLE SEALED ASSEMBLY AS SPECIFIED IN THE MATING CONNECTOR DRAWINGS CHART.
 - *DENOTES DRAWINGS THAT CAN BE ACCESSED AT <http://ewcap.uscarteams.org/>
 - ASSEMBLY SHIPPED WITH PLR IN PRE-LOCK POSITION (SEE PLR PRE-LOCK VIEW SHEET 5).
- b. PRODUCT SPECIFICATION SEE:
- STANDARD CONFIGURATION: PS-33471-000
 - UL V0 CONFIGURATION: PS-160105-0001
 - CONTAINS: PRODUCT INTRODUCTION, PRODUCT SUMMARY, RATINGS (CURRENT, TEMPERATURE, SEALING, AND FLAMMABILITY), TERMINALS, WIRE DIAMETER RANGE, PRODUCT VALIDATION, AND PRODUCT DEVIATIONS.
- c. PACKAGING SPECIFICATION PER MOLEX DRAWING: PK-31300-635 (PK-33471-000 FOR 1X5)
- 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. FOR BILL OF MATERIALS SEE:
- STANDARD CONFIGURATION: SD-33481-0002
 - UL V0 CONFIGURATION: SD-160106-0002
3. DESIGN - GEOMETRY:
- a. THE 3-D CAD DATA IS BASIC (WITHOUT TOLERANCE) AND MASTER FOR THIS PART WITH THE EXCEPTION OF UNDERLINED DIMENSIONS. DIMENSIONAL INFORMATION NOT SHOWN ON THIS DRAWING IS DEFINED BY 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:
- PART NUMBER
 - DAY OF THE YEAR
 - SHIFT
 - YEAR
- FOR ADDITIONAL INFORMATION SEE SECTION 5 UNDER PROCEDURES IN ES-34735-008.



1X2

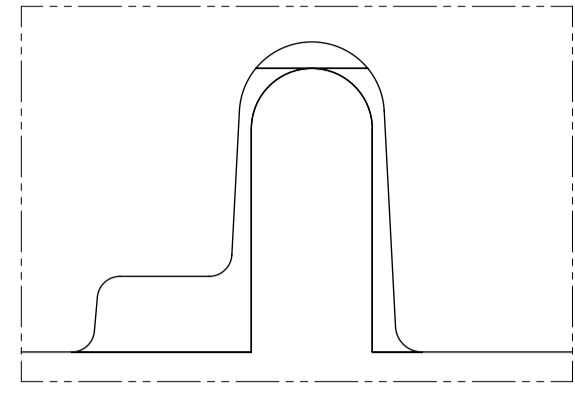


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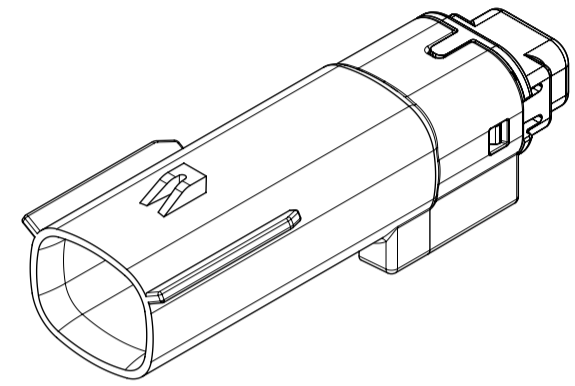
INSPECTION NUMBER LOG	
LAST NUMBER: 9	ADDED:
REMOVED:	REV
A1	NX REMASTERING , CHANGE PS DRAWING NUMBER FROM PS-160105-0001 TO PS-160074-0001 IN NOTES 1.b
A	MINOR GEOMETRY CHANGE FOR UL V0
2	UPDATED VIEWSETS
1	INITIAL RELEASE
REV	REV DESCRIPTION

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	GENERAL TOLERANCES (UNLESS SPECIFIED) ANGULAR TOL ± 1.0° 4 PLACES ± 3 PLACES ± 2 PLACES ± 0.1 1 PLACE ± 0.2 0 PLACES ±	PRODUCT CUSTOMER DRAWING DOCUMENT NUMBER: SD-33481-0001 DOC TYPE: PSD DOC PART: 001 REVISION: A1	
	DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS THIRD ANGLE PROJECTION DRAWING: A1-SIZE SERIES: 33481	MATERIAL NUMBER: SEE NOTE 2a. CUSTOMER: GENERAL MARKET SHEET NUMBER: 1 OF 9	

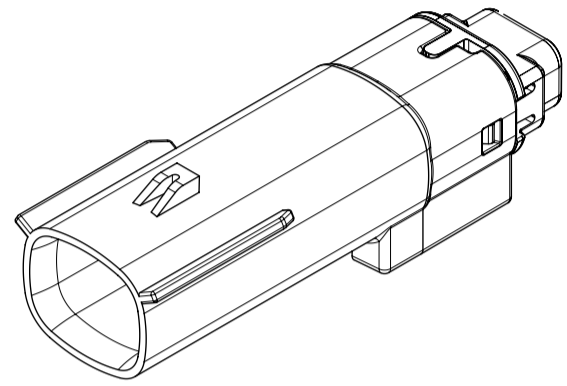
SHEET DESCRIPTION
CONFIGURATIONS



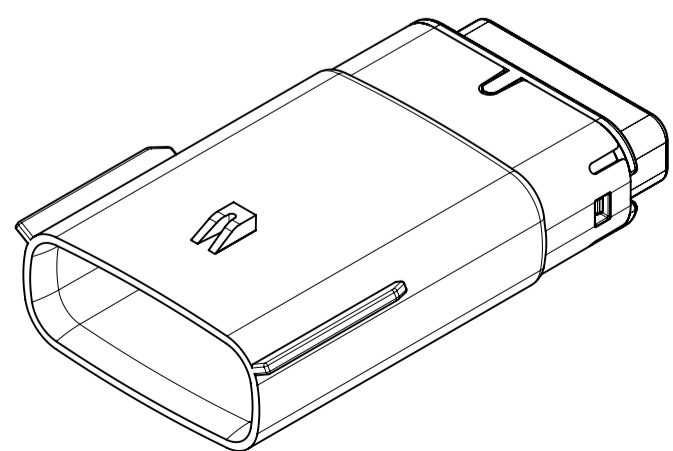
UL V0 UNIQUE FEATURE
Partial1
SCALE 10:1



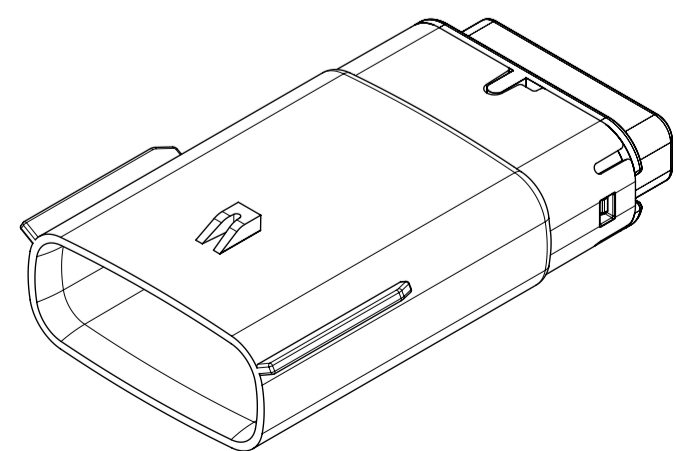
1x2 - STD



1X2 - UL V0*



1x6 - STD

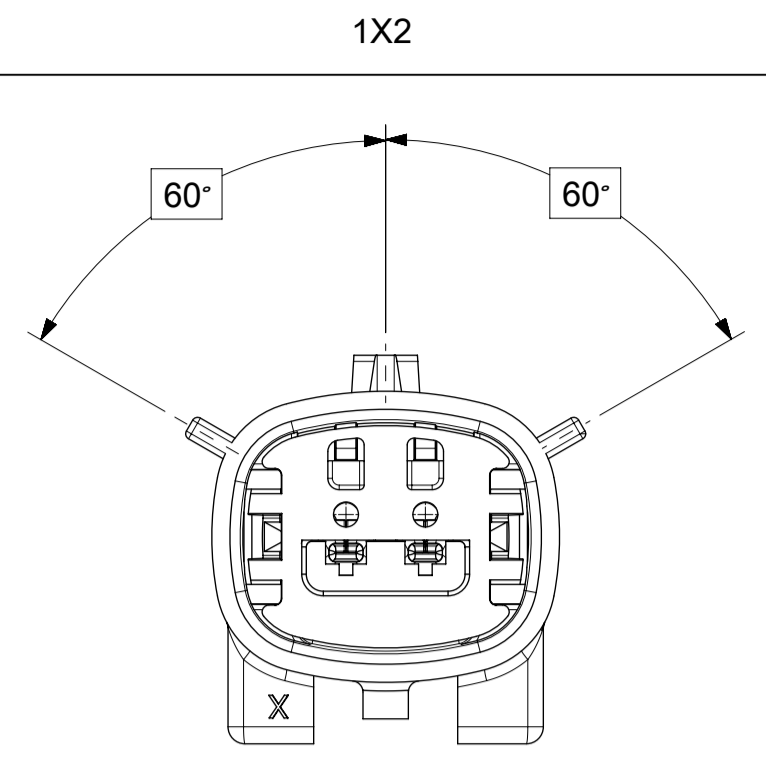


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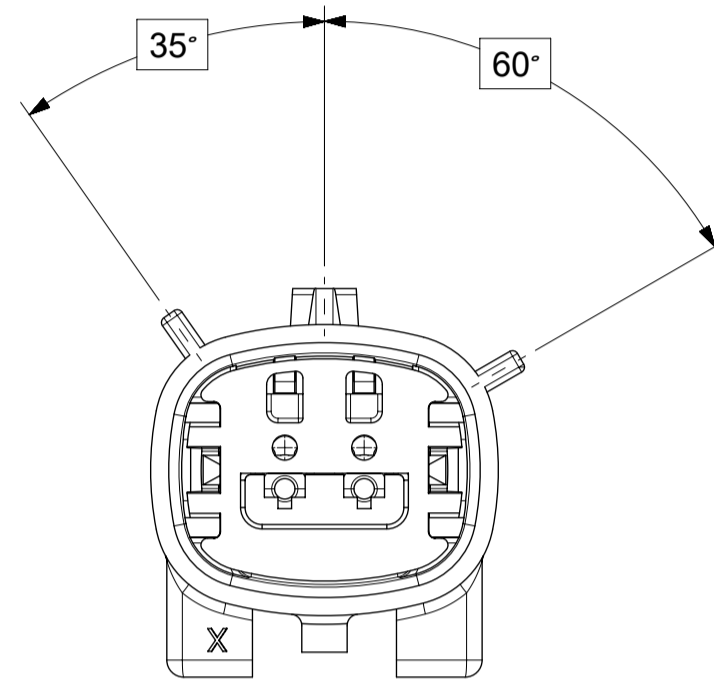
* MINOR GEOMETRY DIFFERENCE THAN STANDARD CONFIGURATION.
SEE NOTES 1 & 2 FOR MORE INFORMATION

SYMBOLS	THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX ELECTRONIC TECHNOLOGIES, LLC AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION		CURRENT REV DESC:				
	DIMENSION UNITS	SCALE					
▽ = 0	MM ONLY	1.5:1	GENERAL TOLERANCES (UNLESS SPECIFIED)		CHK'D: MVANSLAMBROU	2018/10/04	PRODUCT CUSTOMER DRAWING
▽ = 0	ANGULAR TOL ± 1.0°		APPR: MVANSLAMBROU		2018/10/04	DOCUMENT NUMBER	
▽ = 0	4 PLACES	±	INITIAL REVISION:		DRWN: APROFFITT	2015/07/21	SD-33481-0001
▽ = 0	3 PLACES	±	APPR: KDEKOSKI		2016/06/14	DOC TYPE	
▽ = 0	2 PLACES	± 0.1	THIRD ANGLE PROJECTION		DRAWING	SERIES	PSD 001
▽ = 0	1 PLACE	± 0.2	DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		A1-SIZE	33481	
▽ = 0	0 PLACES	±	MATERIAL NUMBER		CUSTOMER	SHEET NUMBER	A1
▽ = 0	DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		SEE NOTE 2a.		GENERAL MARKET	2 OF 9	

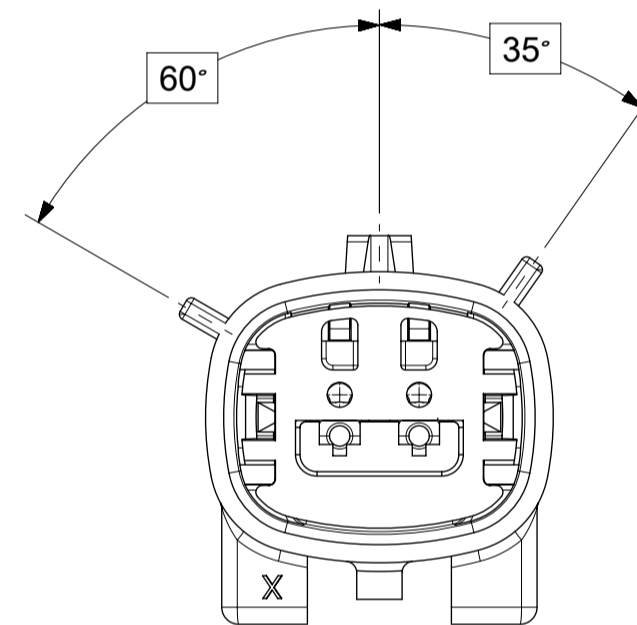
SHEET DESCRIPTION
KEY CONFIGURATIONS



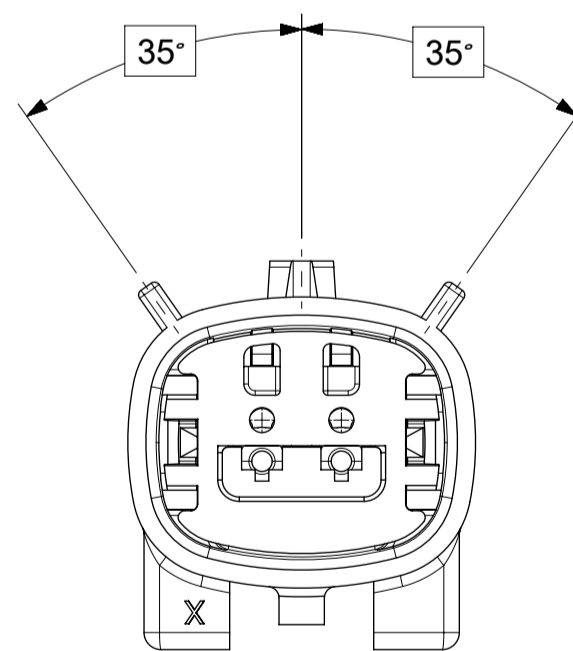
KEY A



KEY B



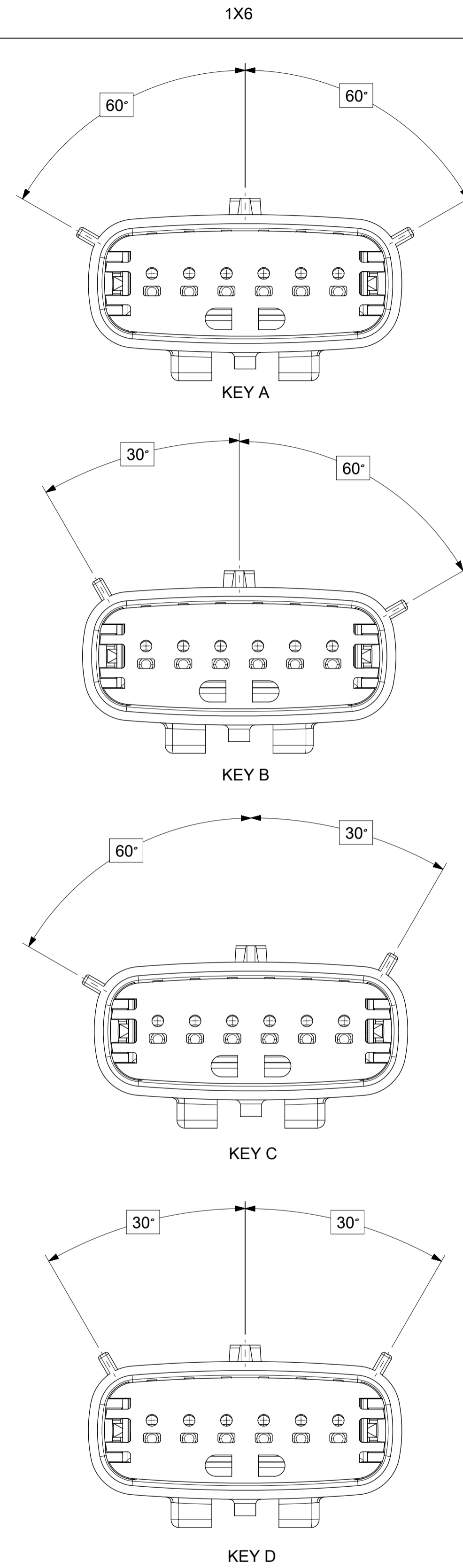
KEY C



KEY D

SYMBOLS = 0 = 0 = 0 = 0 = 0 = 0 = 0 = 0 = 0 = 0	THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX ELECTRONIC TECHNOLOGIES, LLC AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION		CURRENT REV DESC: EC NO: 602373 DRWN: DSHETTY01 2018/05/25 CHK'D: MVANSLAMBROU 2018/10/04 APPR: MVANSLAMBROU 2018/10/04			 MX150 BLADE SINGLE ROW SEALED ASSY MAT SEAL			
	DIMENSION UNITS	SCALE							PRODUCT CUSTOMER DRAWING
	MM ONLY	3:1	INITIAL REVISION:			DOCUMENT NUMBER	DOC TYPE	DOC PART	REVISION
	GENERAL TOLERANCES (UNLESS SPECIFIED)		DRWN: APROFFITT 2015/07/21			SD-33481-0001	PSD	001	A1
	ANGULAR TOL ± 1.0°		APPR: KDEKOSKI 2016/06/14			CUSTOMER			SHEET NUMBER
	4 PLACES ±		THIRD ANGLE PROJECTION			SEE NOTE 2a.	GENERAL MARKET		3 OF 9
	3 PLACES ±		DRAWING	SERIES	MATERIAL NUMBER		CUSTOMER		
	2 PLACES ± 0.1		A1-SIZE	33481	33481				
	1 PLACE ± 0.2		DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS						
	0 PLACES ±								

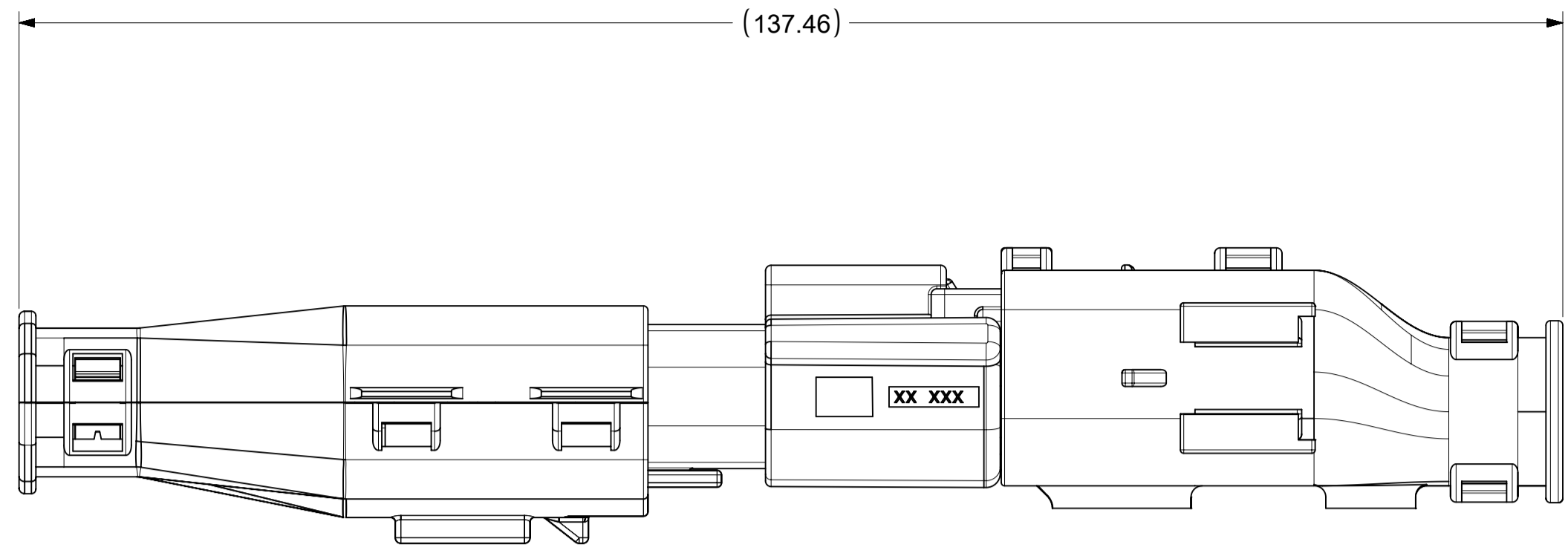
SHEET DESCRIPTION
KEY CONFIGURATIONS CONT.



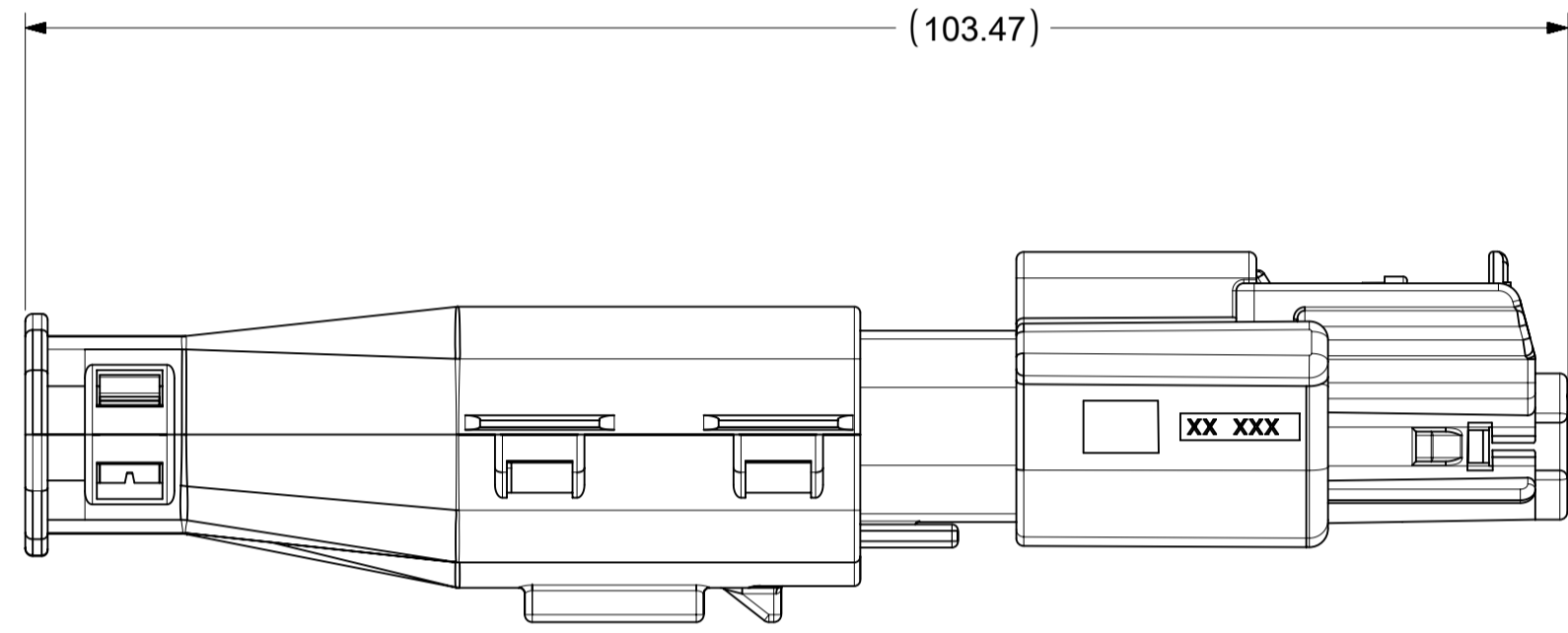
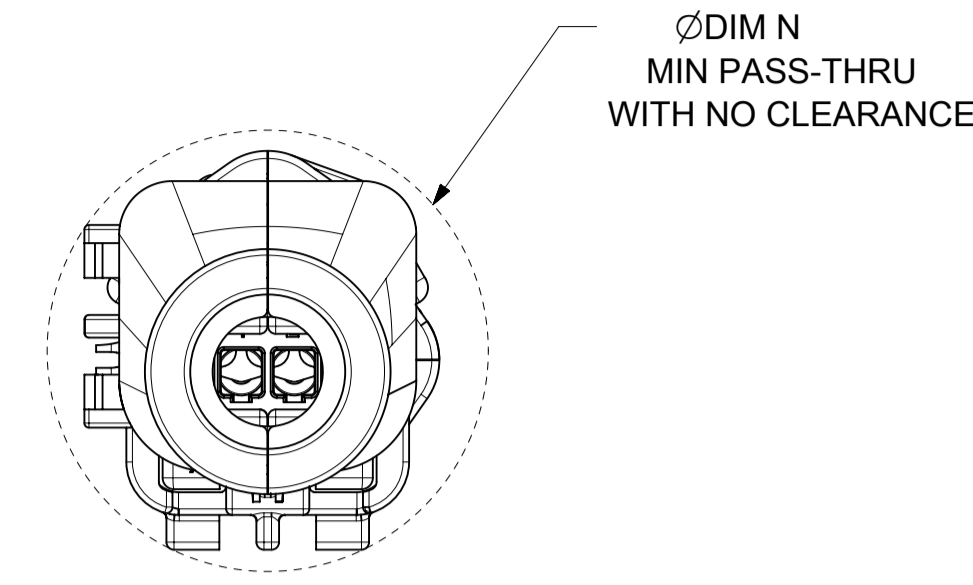
SYMBOLS = 0 = 0 = 0 = 0 = 0 = 0 = 0 = 0 = 0	THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX ELECTRONIC TECHNOLOGIES, LLC AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION DIMENSION UNITS: MM ONLY SCALE: 3:1	CURRENT REV DESC: EC NO: 602373 DRWN: DSHETTY01 2018/05/25 CHK'D: MVANSLAMBROU 2018/10/04 APPR: MVANSLAMBROU 2018/10/04	 MX150 BLADE SINGLE ROW SEALED ASSY MAT SEAL		
	GENERAL TOLERANCES (UNLESS SPECIFIED) ANGULAR TOL ± 1.0° 4 PLACES ± 3 PLACES ± 2 PLACES ± 0.1 1 PLACE ± 0.2 0 PLACES ±	INITIAL REVISION: DRWN: APROFFITT 2015/07/21 APPR: KDEKOSKI 2016/06/14			
DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS	THIRD ANGLE PROJECTION 	DRAWING: A1-SIZE SERIES: 33481	MATERIAL NUMBER: SEE NOTE 2a. CUSTOMER: GENERAL MARKET	SHEET NUMBER: 4 OF 9	

SHEET DESCRIPTION
BACKSHELL CONFIGURATIONS

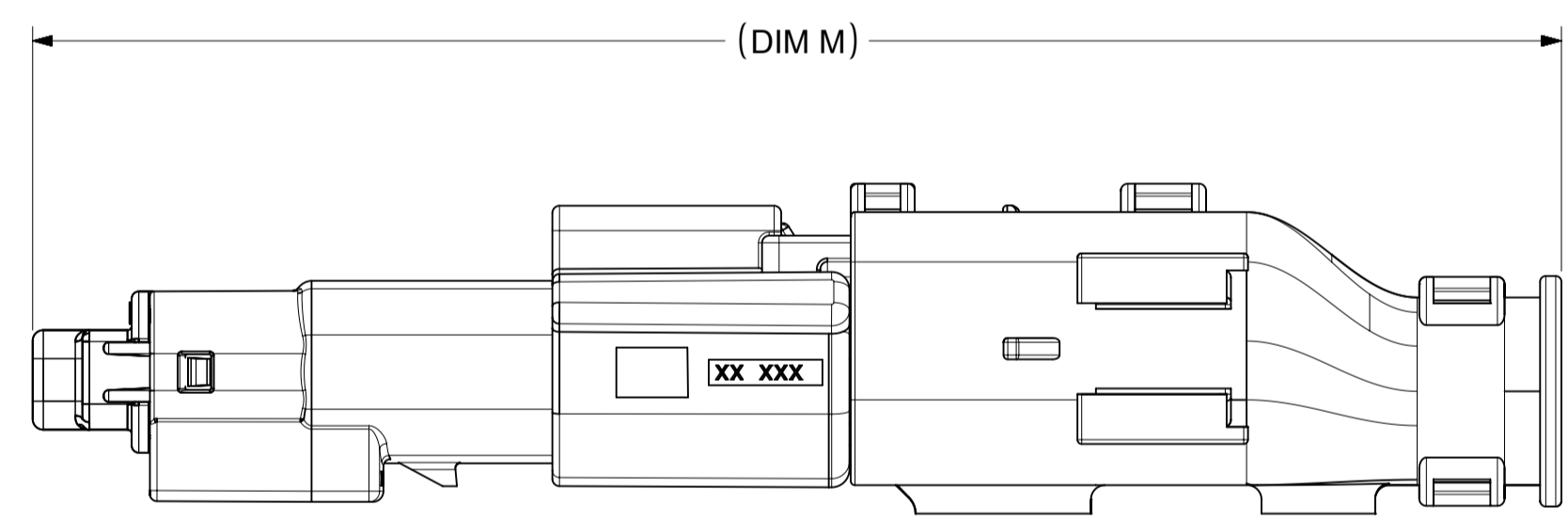
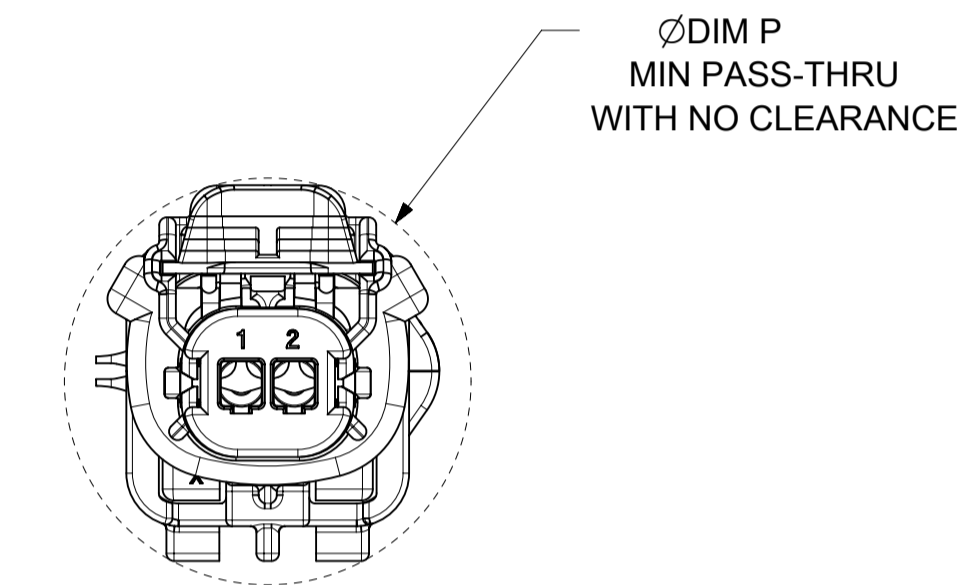
CKT	BLADE CONFIGURATION	RECEPTACLE CONFIGURATION	DIMENSIONS				
			M	N	P	R	S
1X2	STANDARD	STANDARD	107.84	29.50	27.00	26.25	25.00



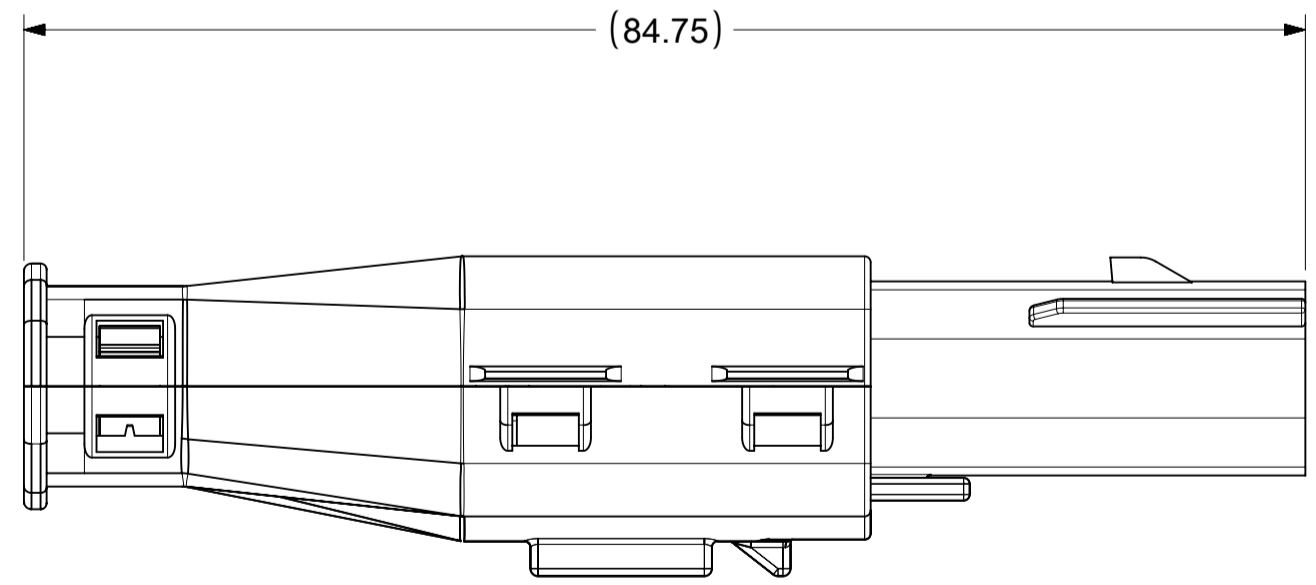
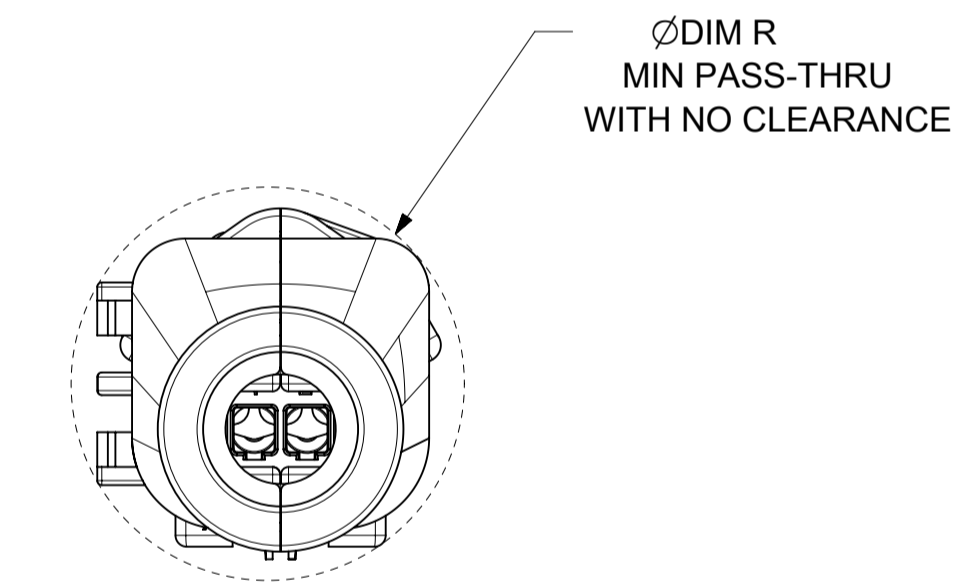
OVERALL MATED SYSTEM WITH BLADE AND RECEPTACLE BACKSHELL



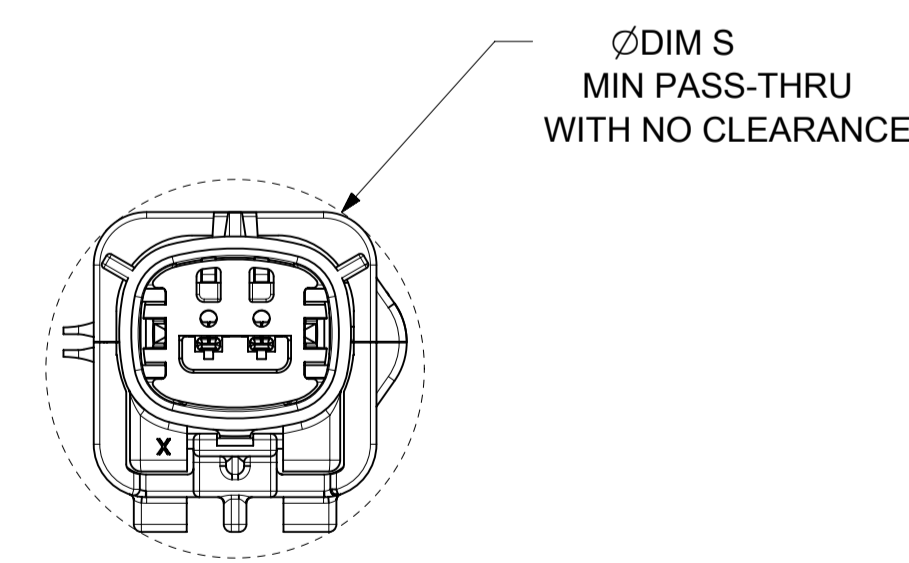
OVERALL MATED SYSTEM WITH BLADE BACKSHELL



OVERALL MATED SYSTEM WITH RECEPTACLE BACKSHELL



BLADE SEALED ASSEMBLY WITH BLADE BACKSHELL



SYMBOLS = 0 	THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX ELECTRONIC TECHNOLOGIES, LLC AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION DIMENSION UNITS: MM ONLY SCALE: 2:1 GENERAL TOLERANCES (UNLESS SPECIFIED) ANGULAR TOL ± 1.0° 4 PLACES ± 3 PLACES ± 2 PLACES ± 0.1 1 PLACE ± 0.2 0
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