

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:

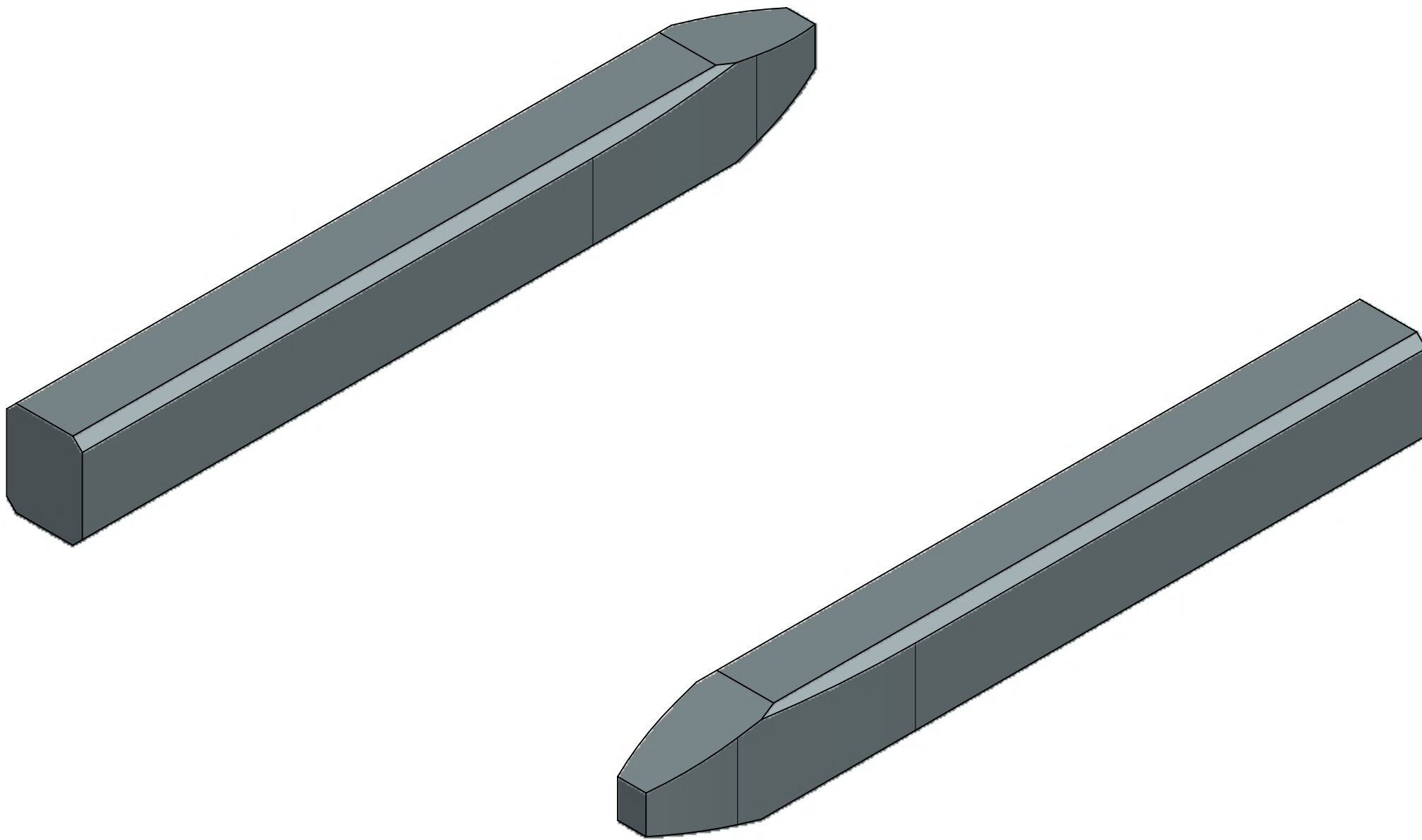
- 2.1. BASE MATERIAL TYPE : COPPER ALLOY

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.



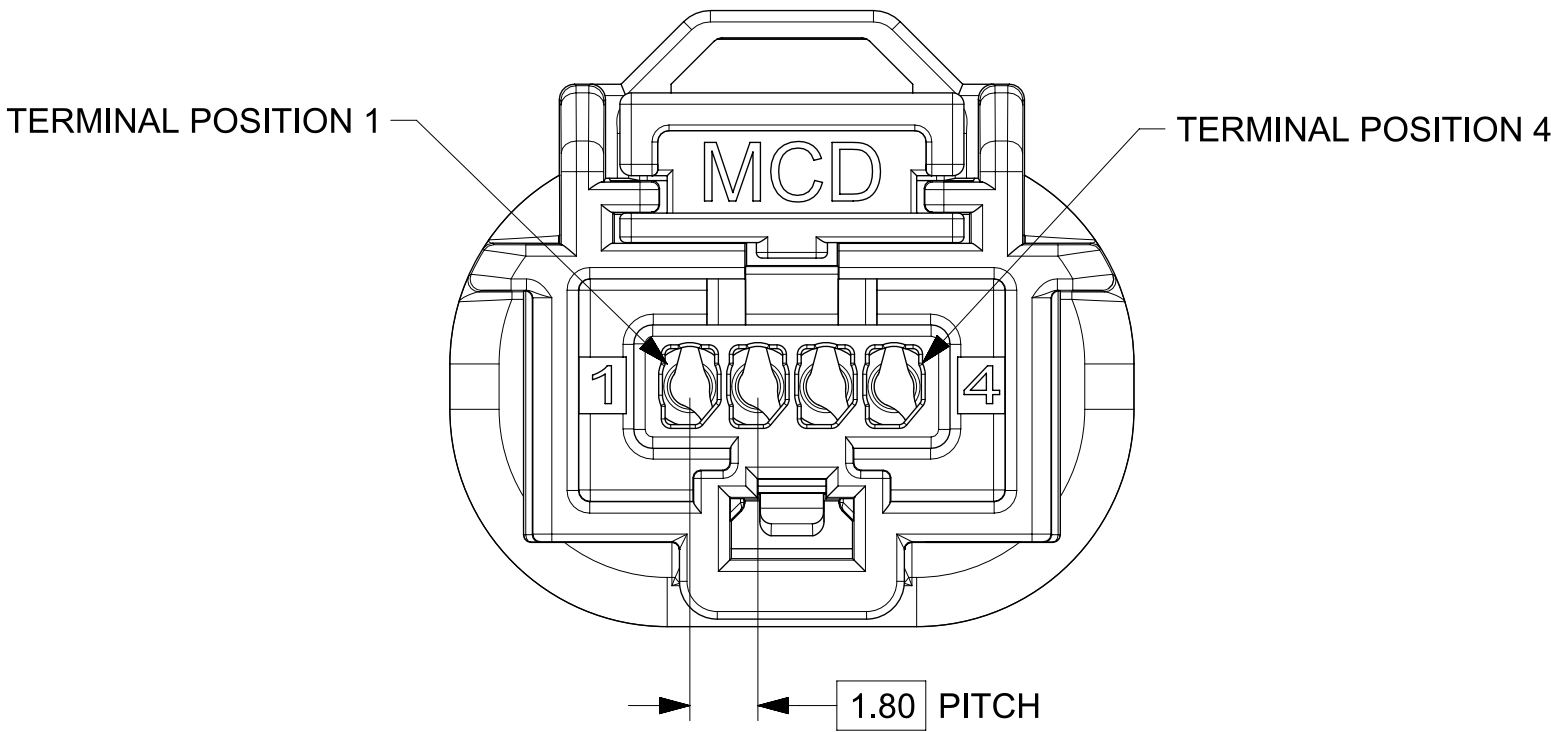
SCALE 50:1

0.5 MM PIN VIEW SHOWN FOR REPRESENTATION PURPOSES ONLY

FUNCTIONAL SYMBOLS		THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX ELECTRONIC TECHNOLOGIES, LLC AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION															
= 0		DIMENSION UNITS		SCALE		CURRENT REV DESC:											
		mm		50:1													
= 0		GENERAL TOLERANCES (UNLESS SPECIFIED)										PHASE: Design Production EC NO: CO-000000508 DRWN: Raghavendra MV2022-01-31 CHK'D: Nathan Song2022-02-07 APPR: Deepak Patil2022-02-09 INITIAL REVISION: DRWN: Raghavendra MV2022-01-31 APPR: Deepak Patil2022-02-09					
		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		PRODUCT SALES DRAWING											
DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS				THIRD ANGLE PROJECTION								DRAWING		SERIES		DOCUMENT NUMBER	
						A1-SIZE		34735		347350050		PSD		000		A21	
										MATERIAL NUMBER		CUSTOMER		SHEET NUMBER			
														1 OF 2			

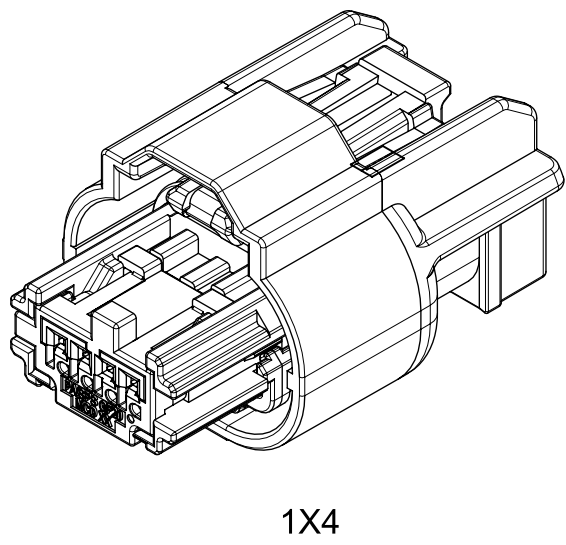
TABLE OF CONTENTS	
SHEET NO.	SHEET DESCRIPTION
1	NOTES AND BOM
2	CONFIGURATIONS
3	RECEPTACLE CONNECTOR ASSEMBLY

MATING INTERFACE CHART	
KEY	INTERFACE PART NUMBER
A	349684801
B	349684802
C	349684803
D	349684804

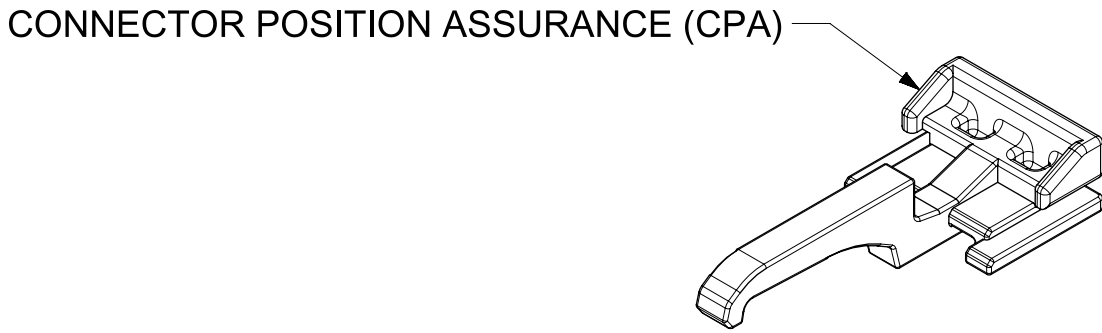


NOTES: VALID UNLESS OTHERWISE SPECIFIED

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 MATING INTERFACE CHART. SEE MOLEX DRAWING 349684800 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
4. FOR HAND CLEARANCES REQUIRED FOR MATING THE CONNECTOR, REFER TO USCAR 25-3 SECTION 8/8.2 FOR HAND PLUG CONNECTORS.



1X4



CONNECTOR HOUSING

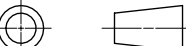
MAT SEAL

RING SEAL

TERMINAL HOUSING

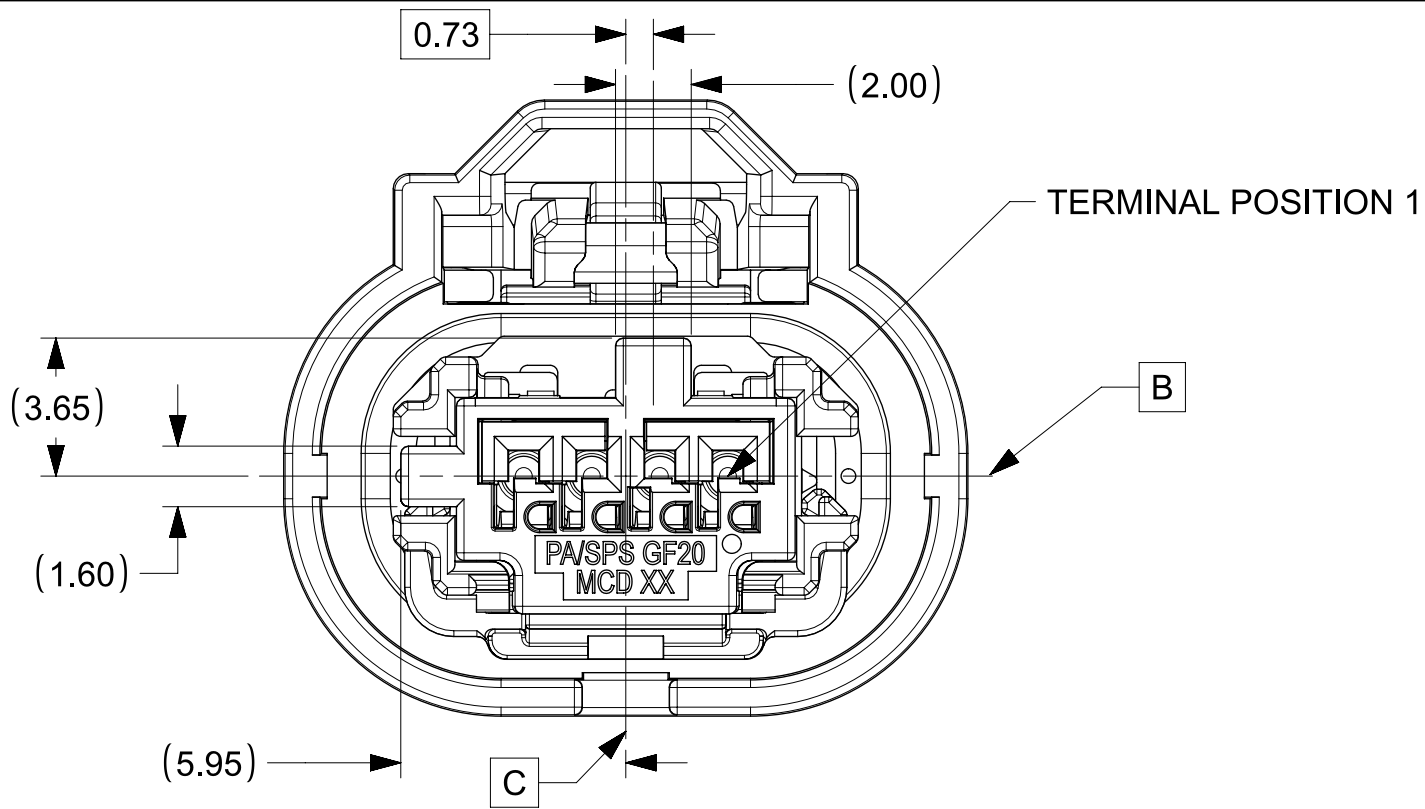
COVER

INDEPENDENT SECONDARY LOCK (ISL)

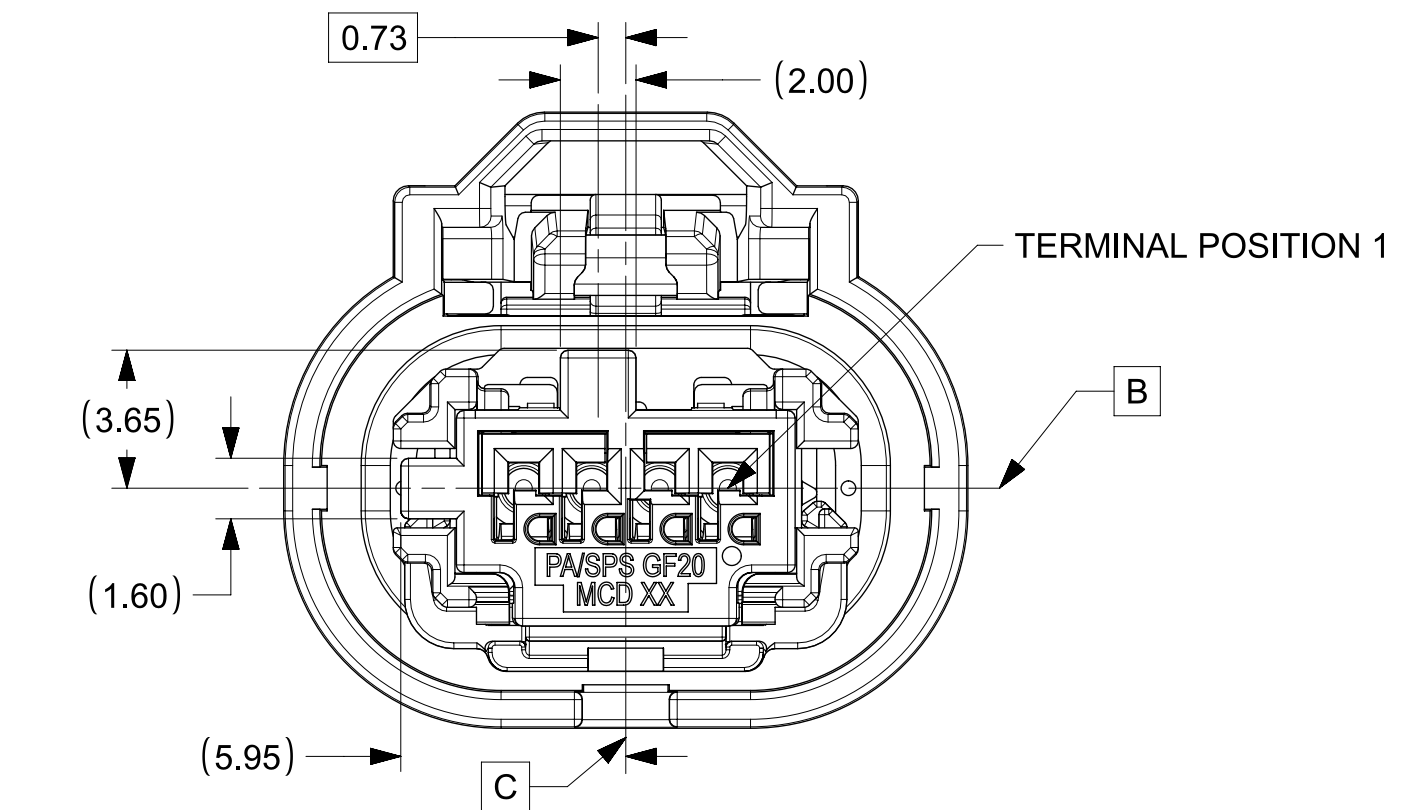
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DIVISIONAL SYMBOLS	DIMENSION UNITS		SCALE		CURRENT REV DESC: UPDATED PART NUMBER CHART TO SHOW MATING INTERFACE ONLY										
	mm		1:1		molex										
	GENERAL TOLERANCES (UNLESS SPECIFIED)														
	ANGULAR TOL ± 3°														
	4 PLACES ±														
	3 PLACES ±				MINI50 SEALED 1X4 RCPT ASSY										
	2 PLACES ± 0.100														
	1 PLACE ± 0.20														
0 PLACES ±				PRODUCT SALES DRAWING											
STATUS: Design Approved					DOCUMENT NUMBER		DOC TYPE		DOC PART		REVISION				
DRWN: Michael Li 2023-08-28					349674000		PSD		000		E4				
CHK'D: Michael Li 2023-08-29															
APPR: Suraj Ramani 2023-08-30															
DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS				THIRD ANGLE PROJECTION		DRAWING		SERIES		MATERIAL NUMBER		CUSTOMER		SHEET NUMBER	
						A1-SIZE		34967		SEE 349674001				1 OF 3	

SHEET DESCRIPTION

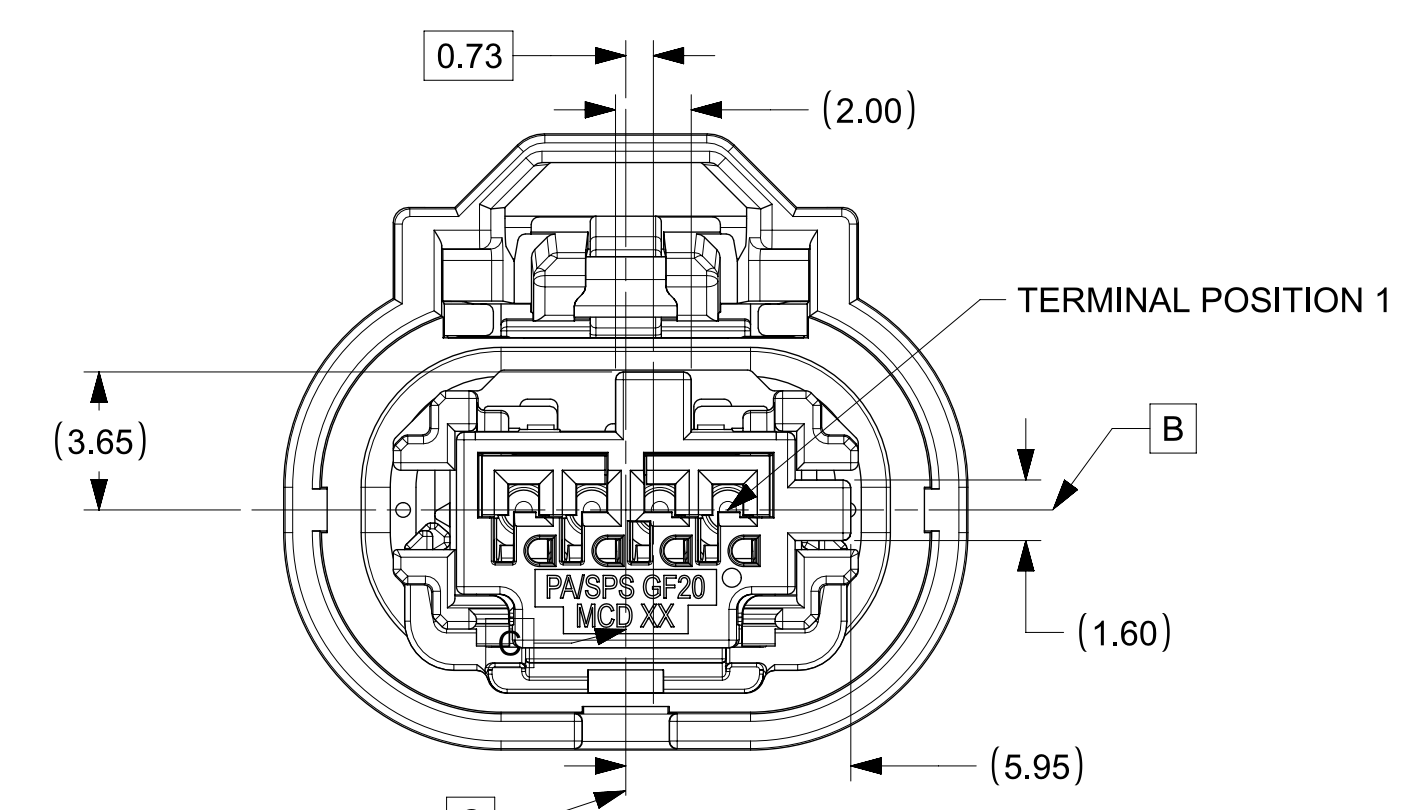
KEY CONFIGURATIONS



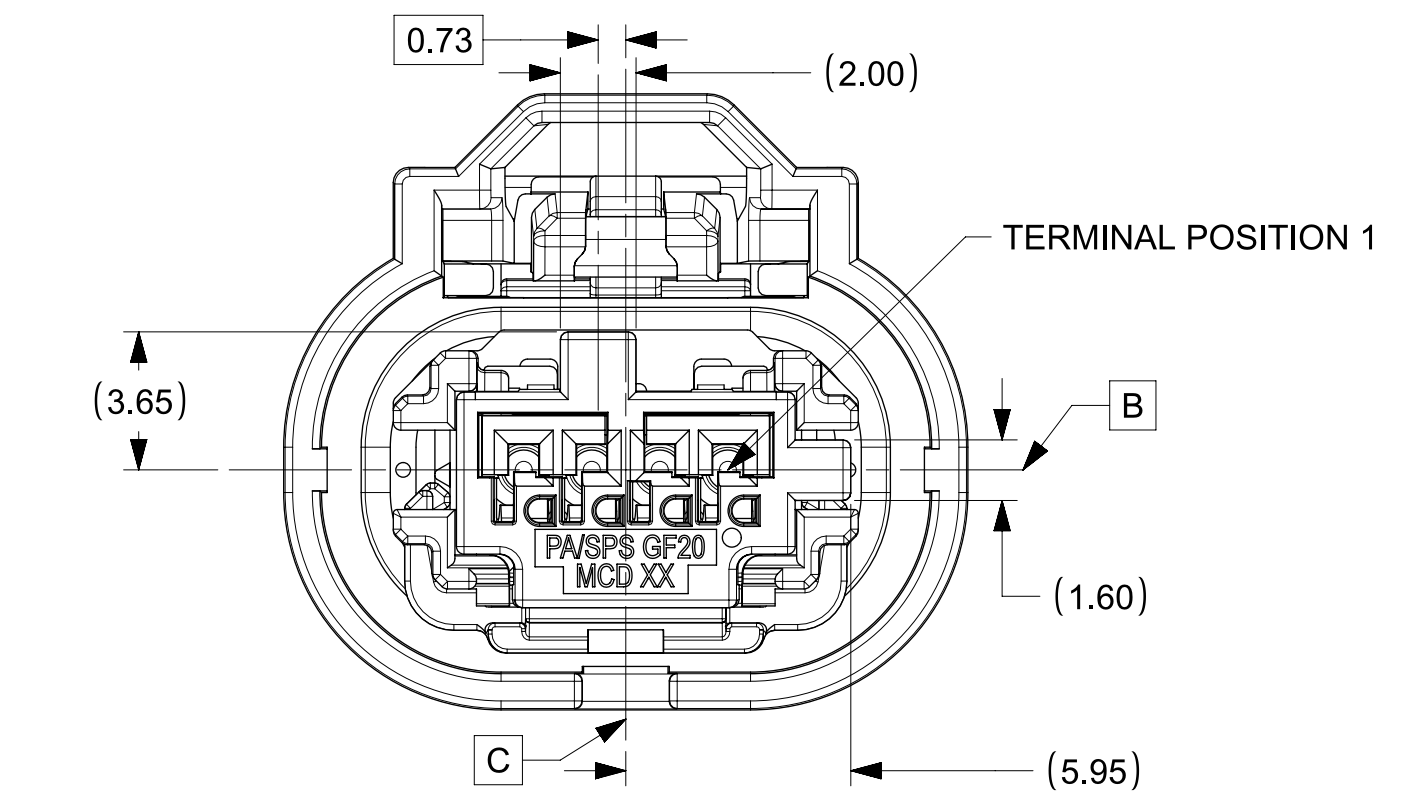
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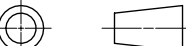
KEY B



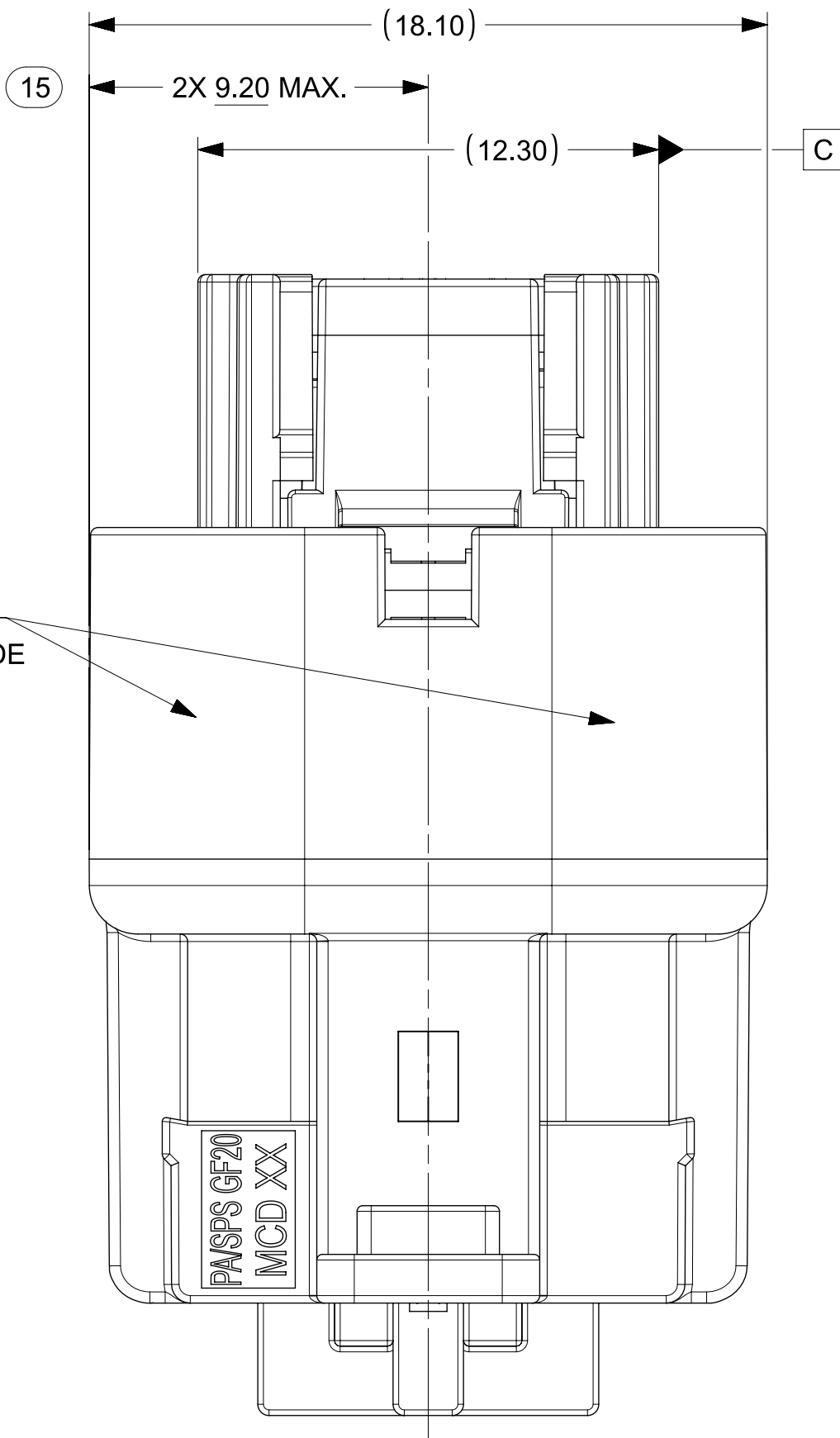
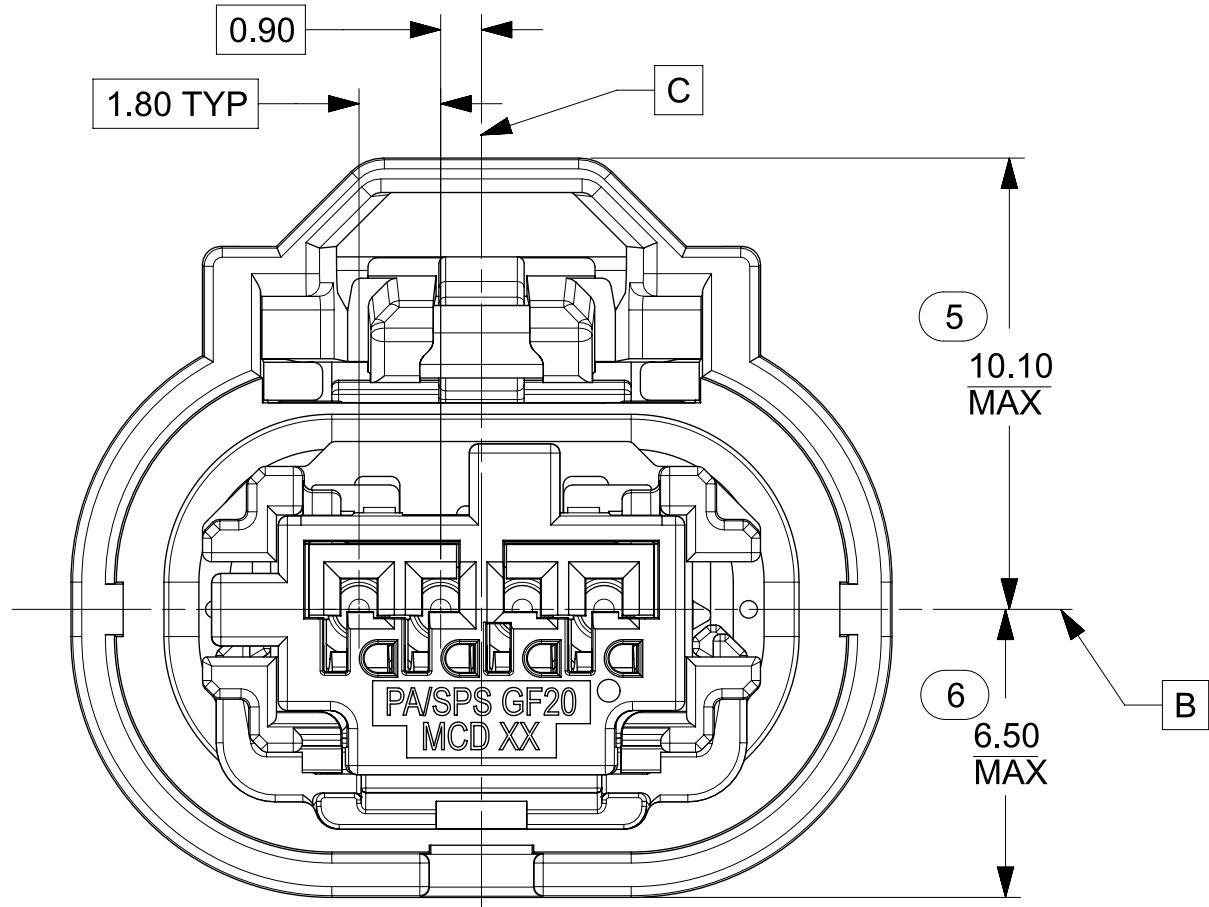
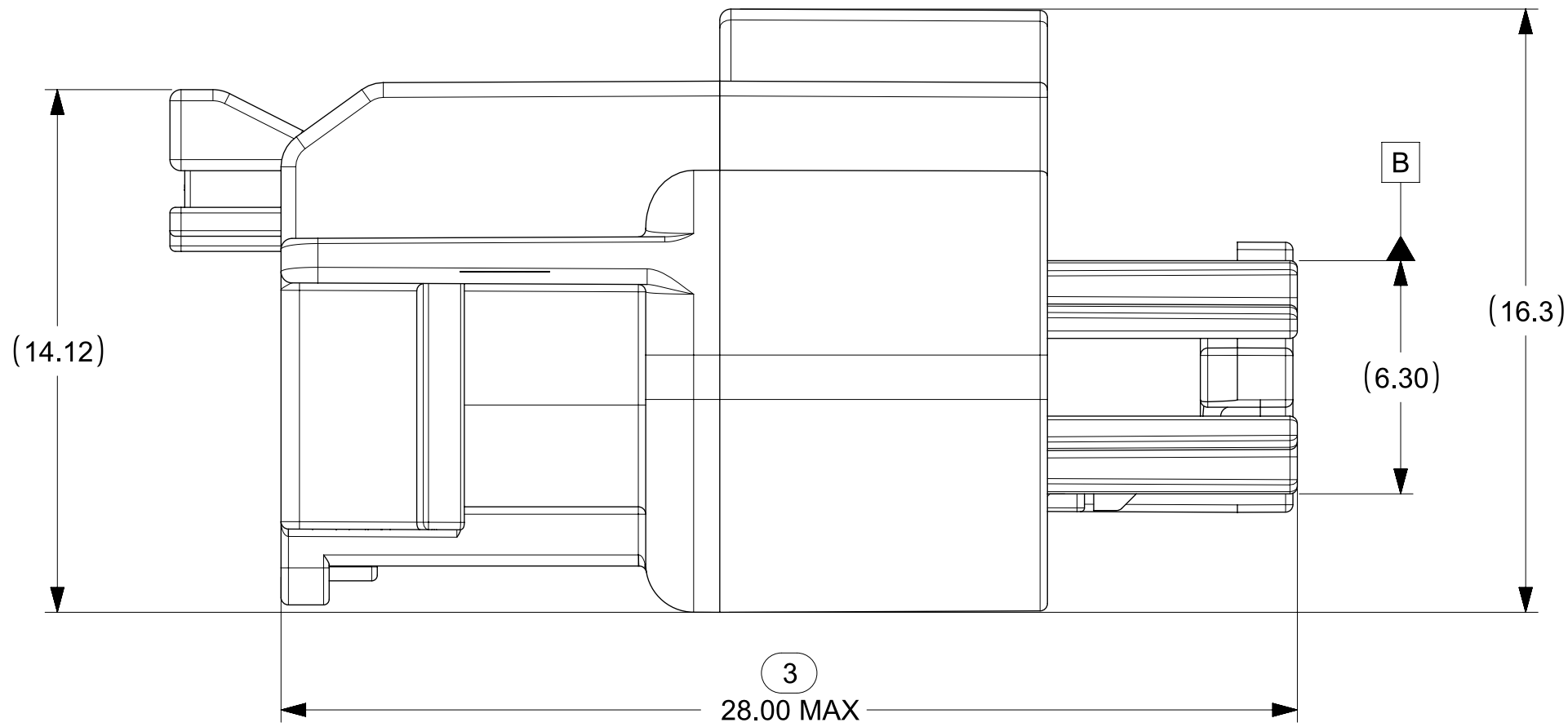
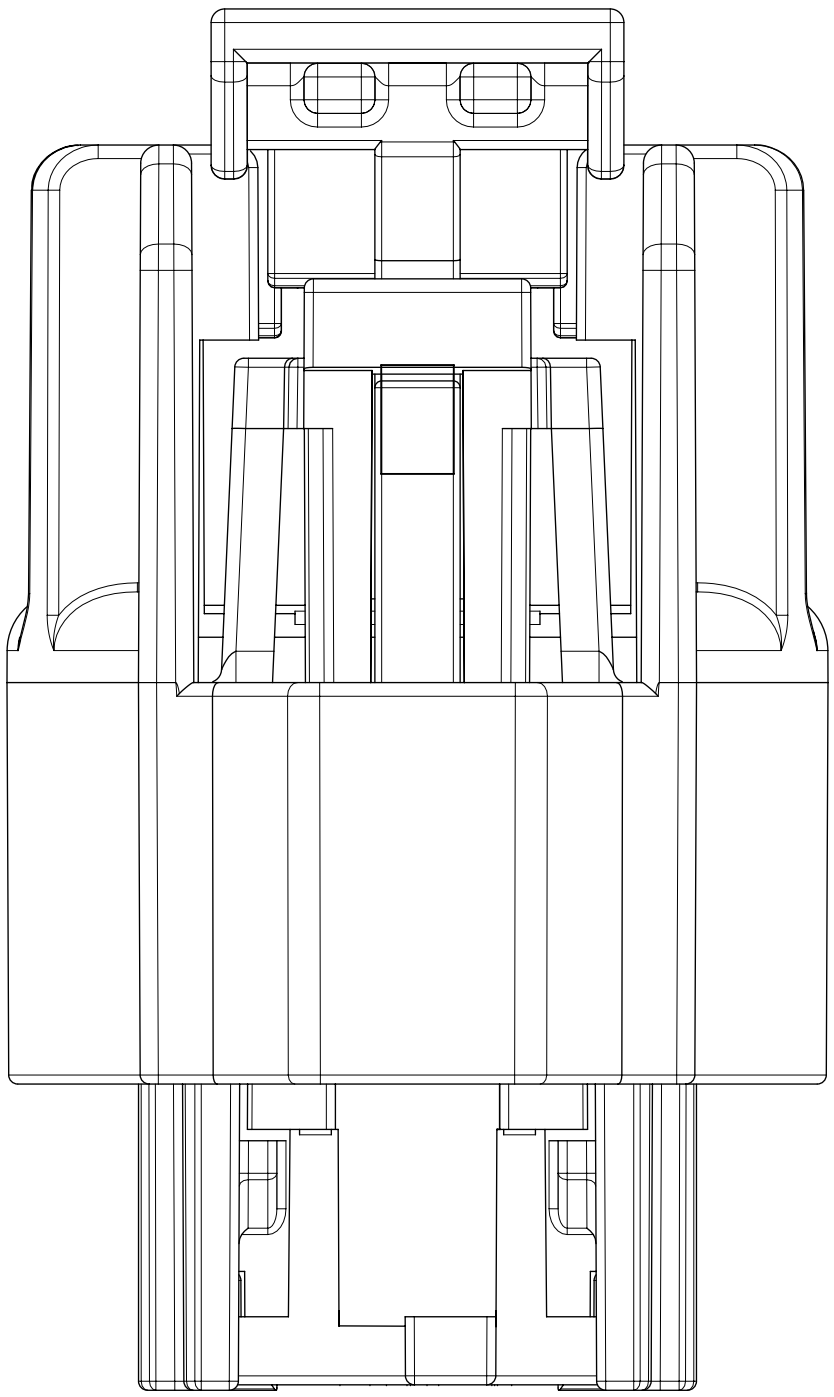
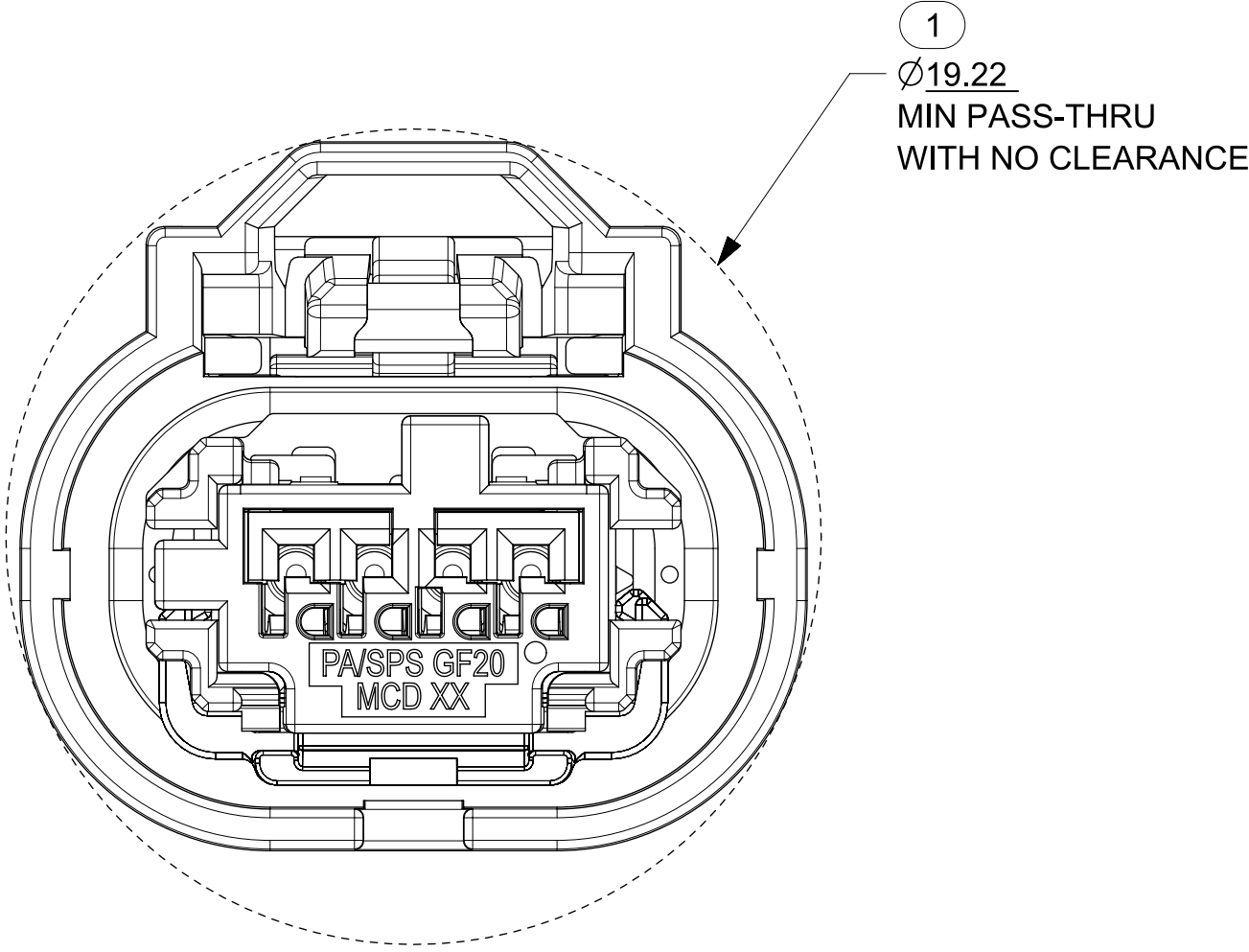
KEY C



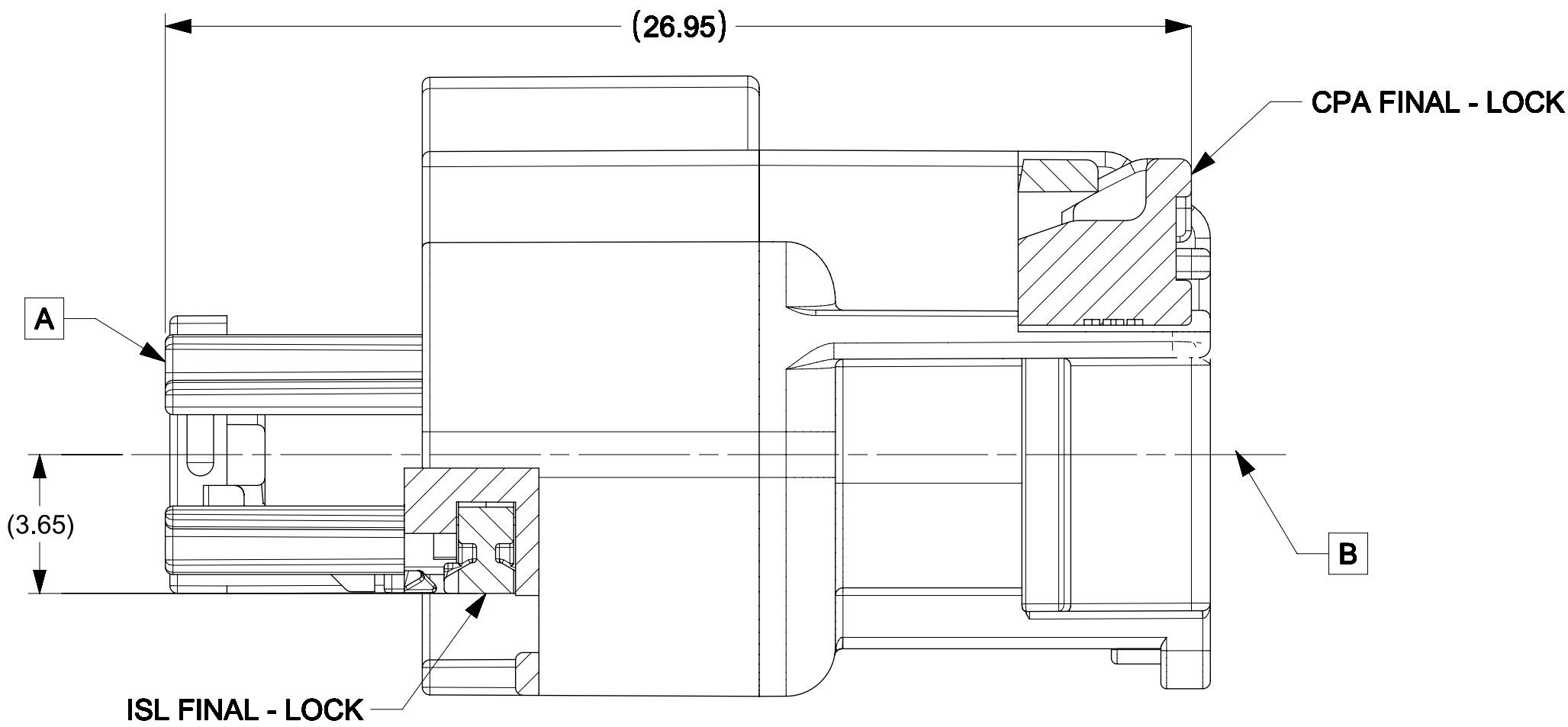
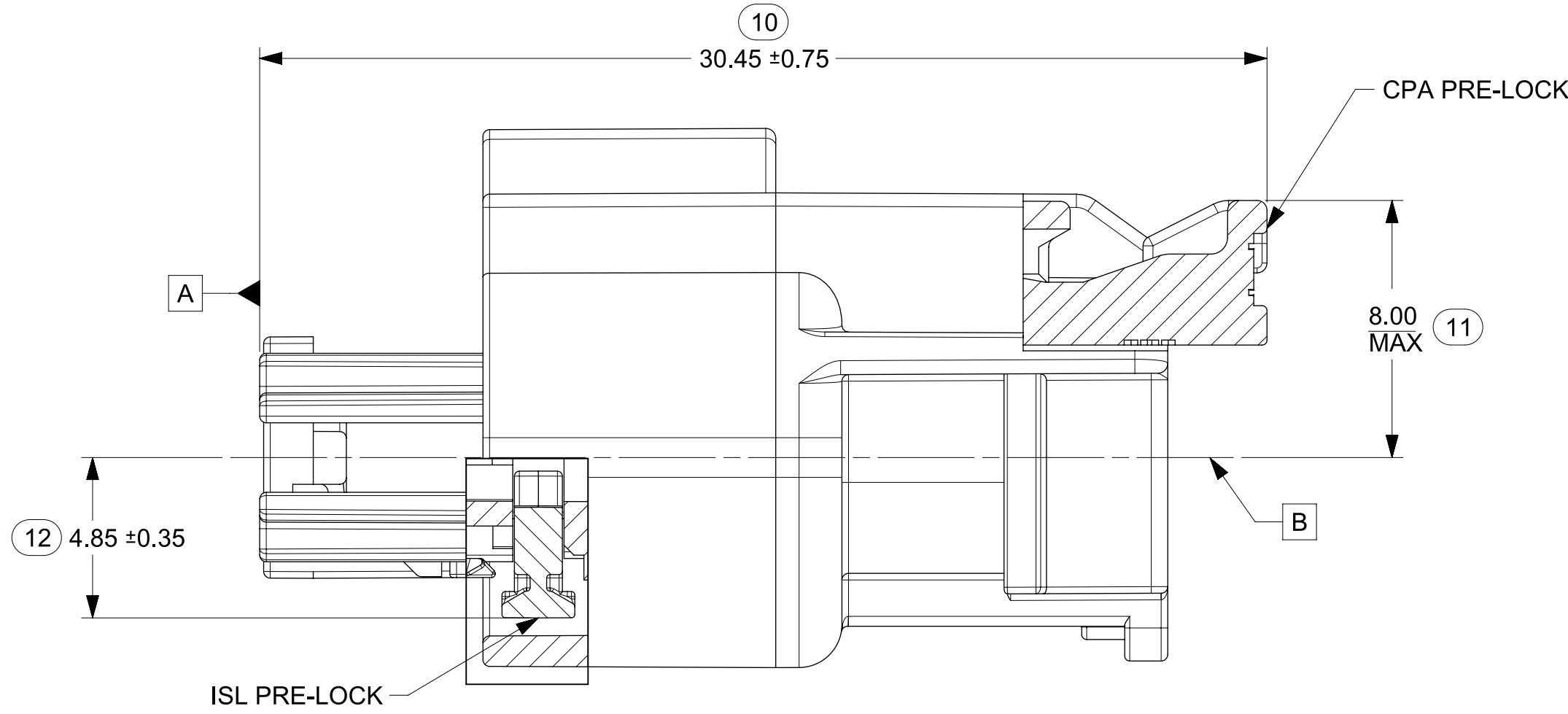
KEY D

FUNCTIONAL SYMBOLS	THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX ELECTRONIC TECHNOLOGIES, LLC AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION										molex				
	DIMENSION UNITS		SCALE		CURRENT REV DESC: UPDATED PART NUMBER CHART TO SHOW MATING INTERFACE ONLY										
	mm		1:1												
	GENERAL TOLERANCES (UNLESS SPECIFIED)		ANGULAR TOL ± 3°		MINI50 SEALED 1X4 RCPT ASSY										
	4 PLACES ±														
	3 PLACES ±														
	2 PLACES ± 0.100														
	1 PLACE ± 0.20														
	0 PLACES ±		PRODUCT SALES DRAWING												
	DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS														
DIVISIONAL SYMBOLS		STATUS: Design Approved		DRWN: Michael Li 2023-08-28 CHK'D: Michael Li 2023-08-29 APPR: Suraj Ramani 2023-08-30		DOCUMENT NUMBER		DOC TYPE		DOC PART		REVISION			
		THIRD ANGLE PROJECTION				DRAWING		SERIES		MATERIAL NUMBER		CUSTOMER		SHEET NUMBER	
						A1-SIZE		34967		SEE 349674001				2 OF 3	

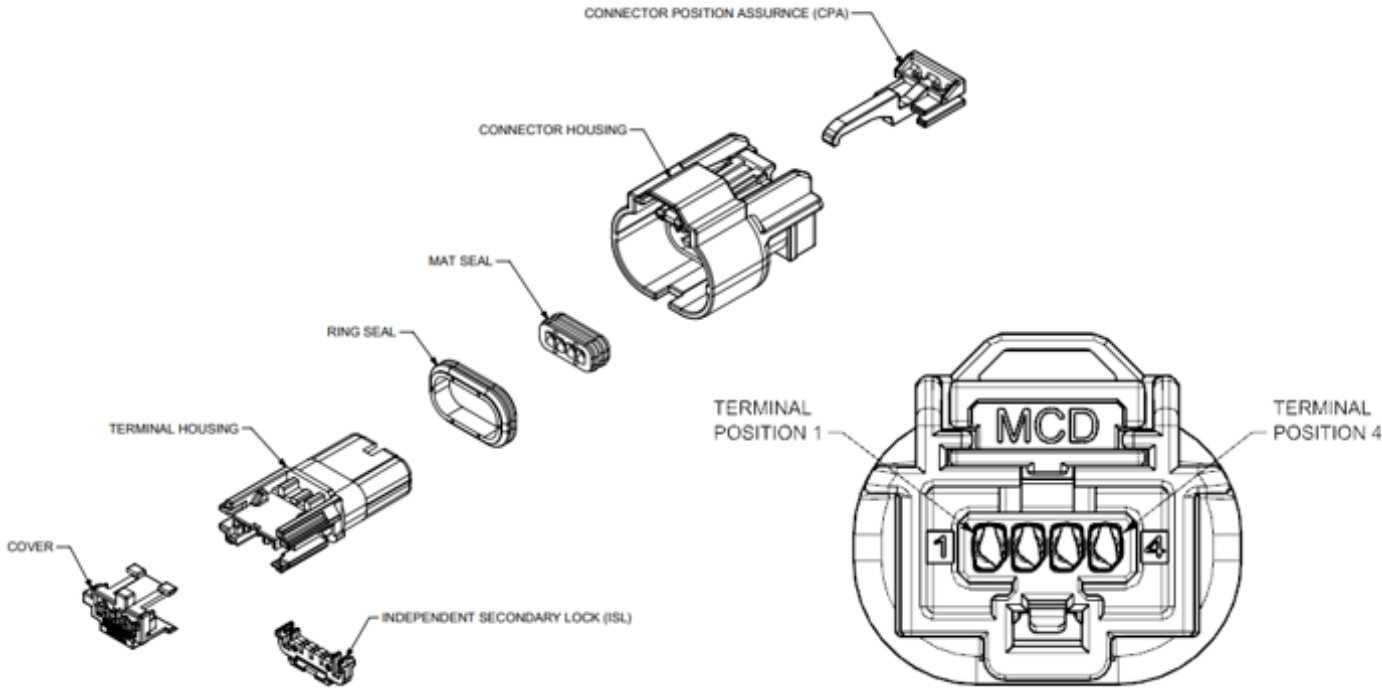
SHEET DESCRIPTION
RECEPTACLE CONNECTOR ASSEMBLY



LASER MARKING:
PART # & DATE CODE



FUNCTIONAL SYMBOLS		THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX ELECTRONIC TECHNOLOGIES, LLC AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION									
A = 0 E = 0 E P = 0 DIVISIONAL SYMBOLS	DIMENSION UNITS		SCALE		CURRENT REV DESC: UPDATED PART NUMBER CHART TO SHOW MATING INTERFACE ONLY						
	mm		1:1		molex MINI50 SEALED 1X4 RCPT ASSY PRODUCT SALES DRAWING DOCUMENT NUMBER 349674000 DOC TYPE PSD DOC PART 000 REVISION E4 MATERIAL NUMBER SEE 349674001 CUSTOMER SHEET NUMBER 3 OF 3						
	GENERAL TOLERANCES (UNLESS SPECIFIED)										
ANGULAR TOL ± 3°											
4 PLACES		±									
3 PLACES		±									
2 PLACES		± 0.100		STATUS: Design Approved DRWN: Michael Li 2023-08-28 CHK'D: Michael Li 2023-08-29 APPR: Suraj Ramani 2023-08-30							
1 PLACE		± 0.20									
0 PLACES		±									
DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS				THIRD ANGLE PROJECTION		DRAWING		SERIES			
						A1-SIZE		34967			



FOR ADDITIONAL INFORMATION SEE 1x4 - 349674000/PSD

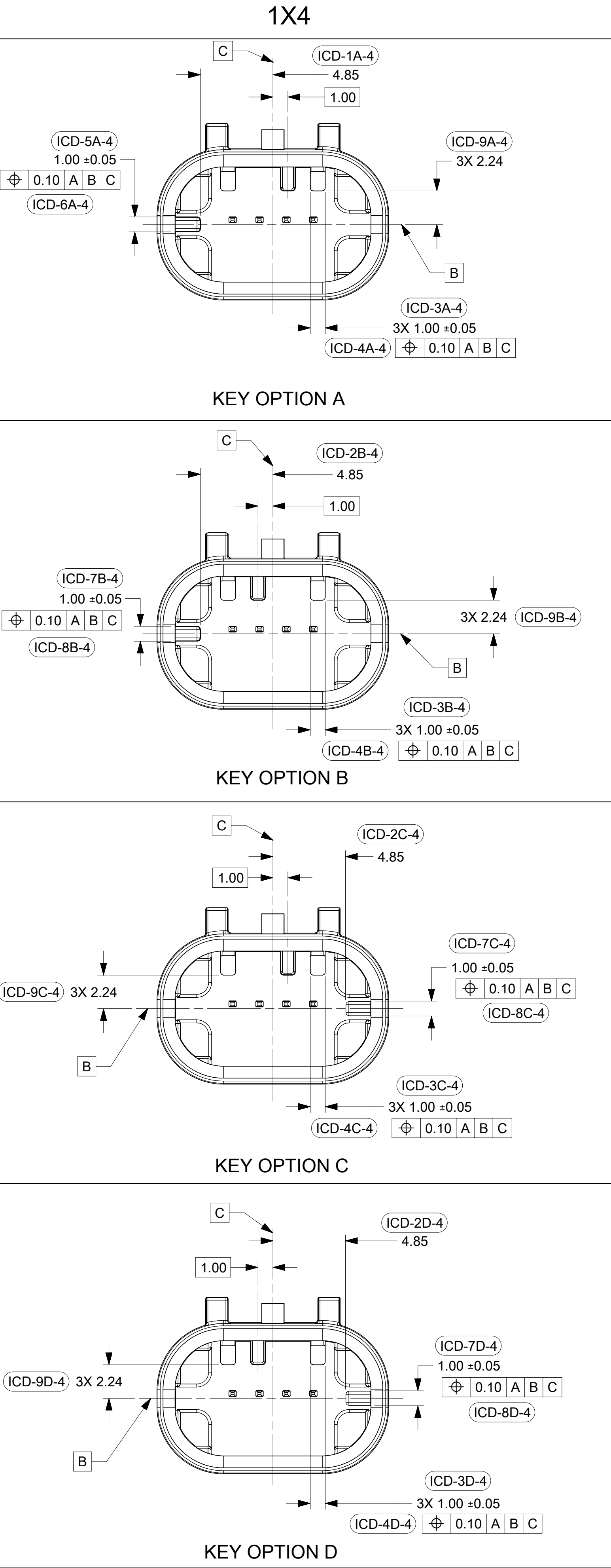
ABBREVIATION	DESCRIPTION	COLOR	MATERIAL
A-BLACK	COVER KEYING OPTION A	BLACK	SPS/NYLON GF20, 25% MAX REGRIND
B-LIGHT GRAY	COVER KEYING OPTION B	LIGHT GRAY	SPS/NYLON GF20, 25% MAX REGRIND
C-DARK GRAY	COVER KEYING OPTION C	DARK GRAY	SPS/NYLON GF20, 25% MAX REGRIND
D-STONE GRAY	COVER KEYING OPTION D	STONE 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

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 1X4 RCPT CONN KEY A CPA	349674001	A-BLACK	C-HSG-O	T-HSG	ISL	YES	M	R	-	-	-	-	SALEABLE		2130885410
MINI50 SEALED 1X4 RCPT CONN KEY B CPA	349674002	B-LIGHT GRAY	C-HSG-O	T-HSG	ISL	YES	M	R	-	-	-	-	SALEABLE		2130885410
MINI50 SEALED 1X4 RCPT CONN KEY C CPA	349674003	C-DARK GRAY	C-HSG-O	T-HSG	ISL	YES	M	R	-	-	-	-	SALEABLE		2130885410
MINI50 SEALED 1X4 RCPT CONN KEY D CPA	349674004	D-STONE GRAY	C-HSG-O	T-HSG	ISL	YES	M	R	-	-	-	-	SALEABLE		2130885410
MINI50 SEALED 1X4 RCPT CONN KEY A CPA	349674005	A-BLACK	C-HSG-O	T-HSG	ISL	NO	M	R	-	-	-	-	SALEABLE		2130885410
MINI50 SEALED 1X4 RCPT CONN KEY B CPA	349674006	B-LIGHT GRAY	C-HSG-O	T-HSG	ISL	NO	M	R	-	-	-	-	SALEABLE		2130885410
MINI50 SEALED 1X4 RCPT CONN KEY C CPA	349674007	C-DARK GRAY	C-HSG-O	T-HSG	ISL	NO	M	R	-	-	-	-	SALEABLE		2130885410
MINI50 SEALED 1X4 RCPT CONN KEY D CPA	349674008	D-STONE GRAY	C-HSG-O	T-HSG	ISL	NO	M	R	-	-	-	-	SALEABLE		2130885410
MINI50 SEALED 1X4 RCPT CONN KEY A CPA/1	349674021	A-BLACK	C-HSG-P	T-HSG	ISL	YES	M	R	-	2	-	-	SALEABLE		2130885410
MINI50 SEALED 1X4 RCPT CONN KEY A CPA/1	349674025	A-BLACK	C-HSG-P	T-HSG	ISL	NO	M	R	-	2	-	-	SALEABLE		2130885410

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							
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MINI50 SEALED 1X4 RCPT CON KEY A/2	349674052	A-BLACK	C-HSG-P	T-HSG	ISL	NO	M	R	1	2	-	-	SALEABLE		2130885410
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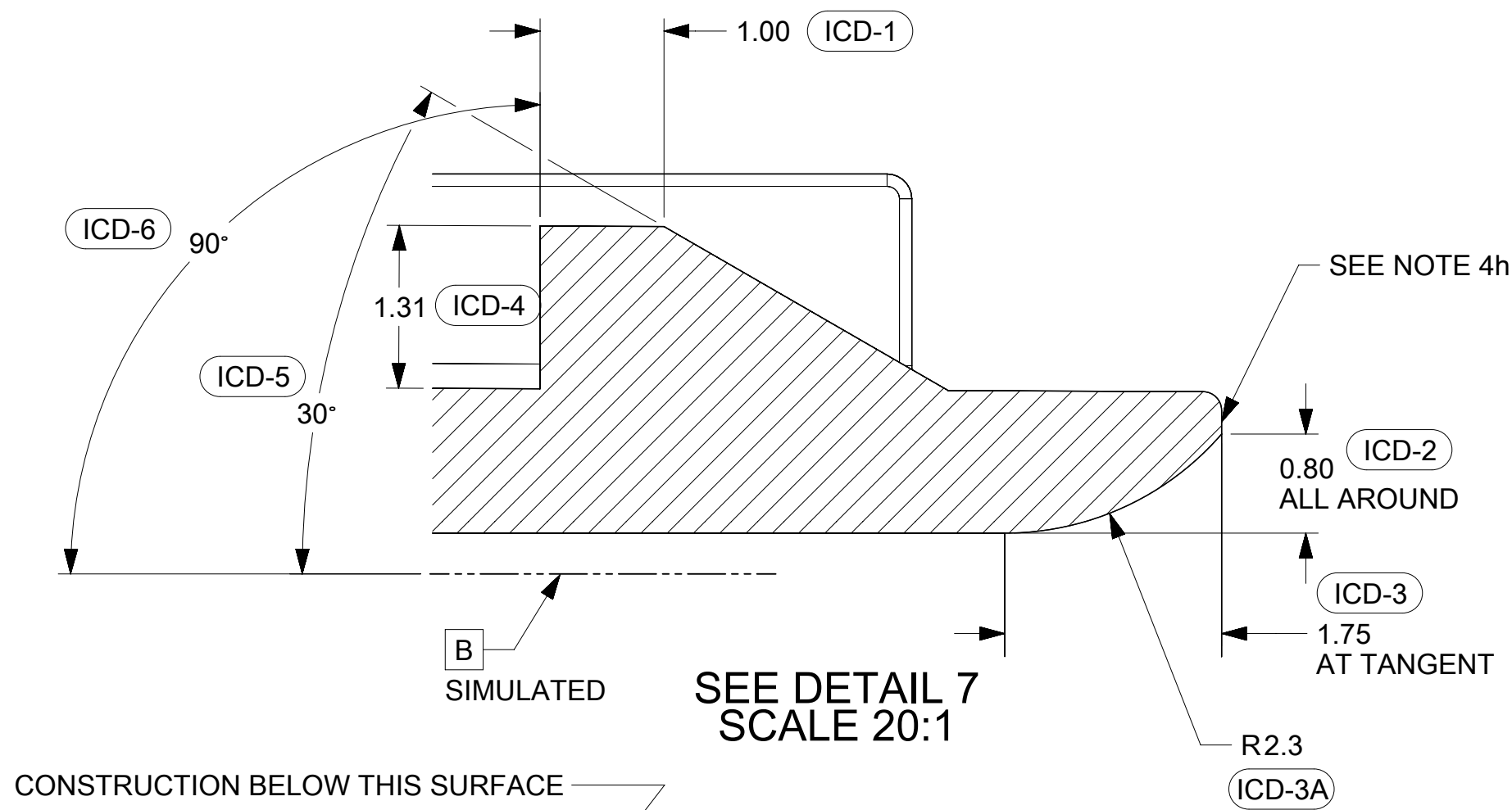
SHEET DESCRIPTION

KEY CONFIGURATIONS

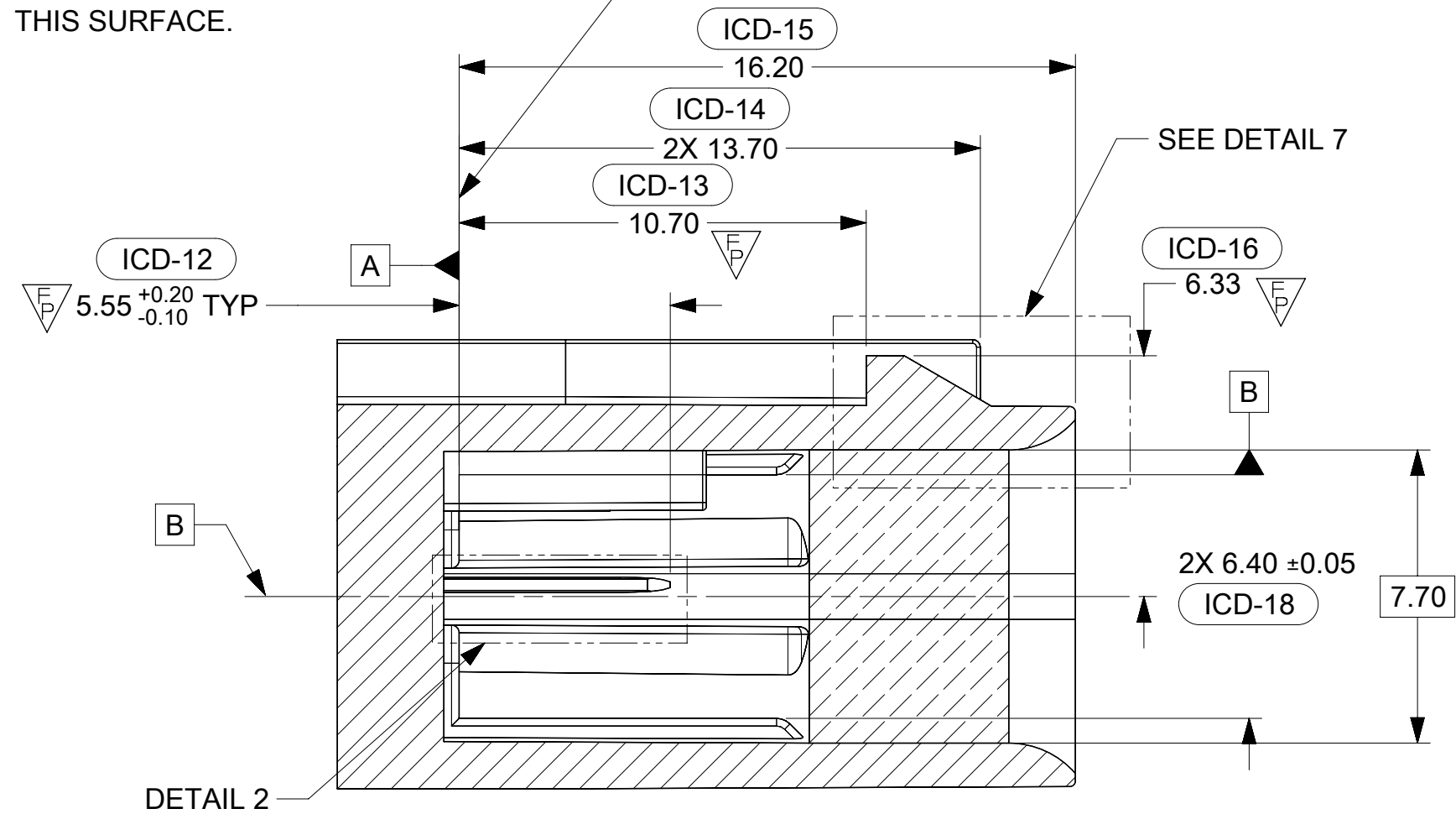


QUALITY SYMBOLS		THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX ELECTRONIC TECHNOLOGIES, LLC AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION									
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	= 0			ANGULAR TOL ± 3.0 °		mm	1:1				
	= 0			4 PLACES	±	DRWN BY	DATE	MINI50 SEALED 1X4 INTERFACE			
	= 0			3 PLACES	±	CHK'D BY	DATE				
	= 0			2 PLACES	± 0.1	APPR BY	DATE	PRODUCT CUSTOMER DRAWING			
	= 0			1 PLACE	± 0.2	KDEKOSKI	2016/05/04				
	= 0			0 PLACES	±	DRAWING SIZE		SERIES	MATERIAL NUMBER	CUSTOMER	
	= 0			DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		A1		34968	SEE CHART		
	= 0							DOCUMENT NUMBER		DOC TYPE	DOC PART
		C4	6					349684800		PSD	000
										SHEET NUMBER	2 OF 4

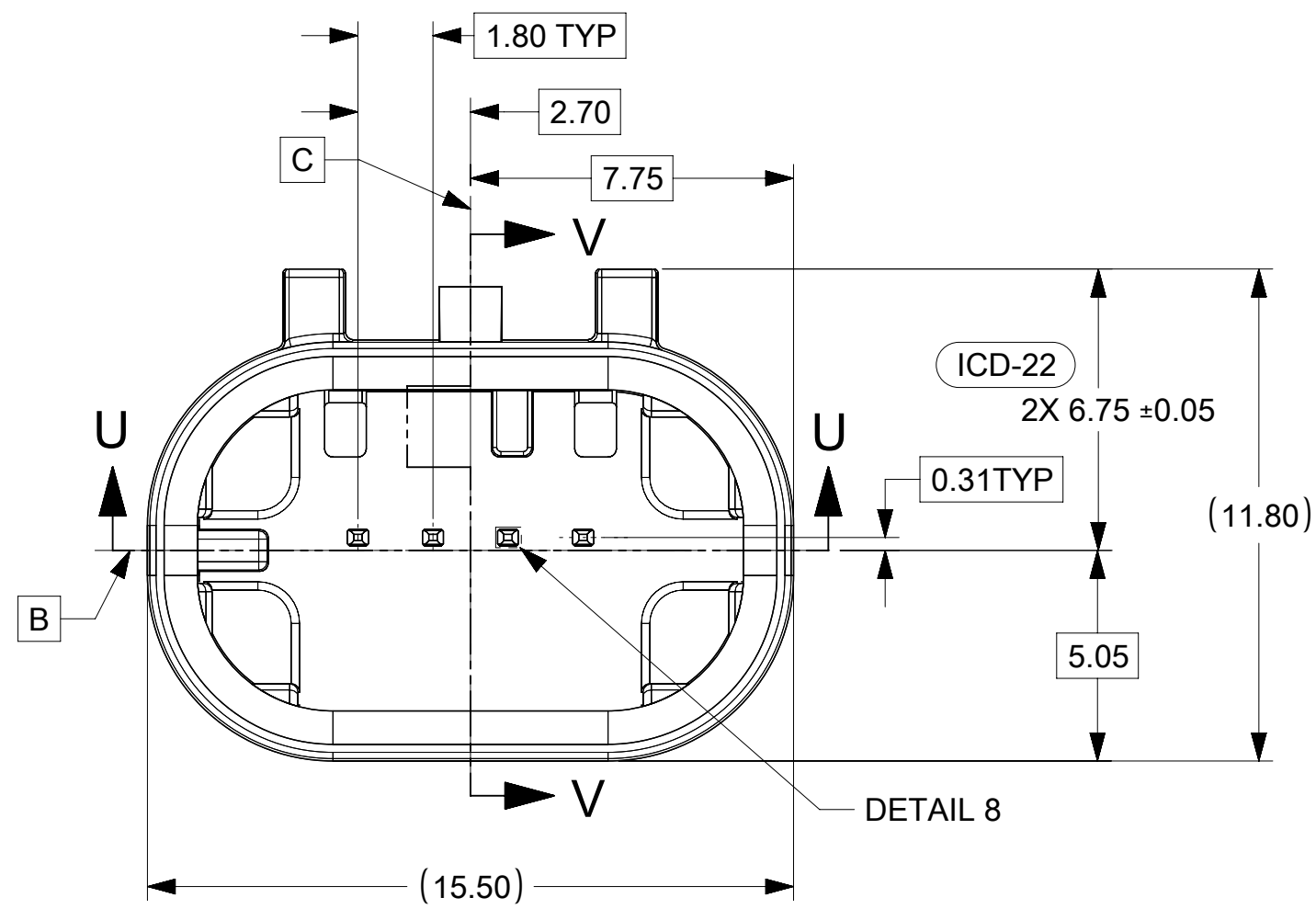
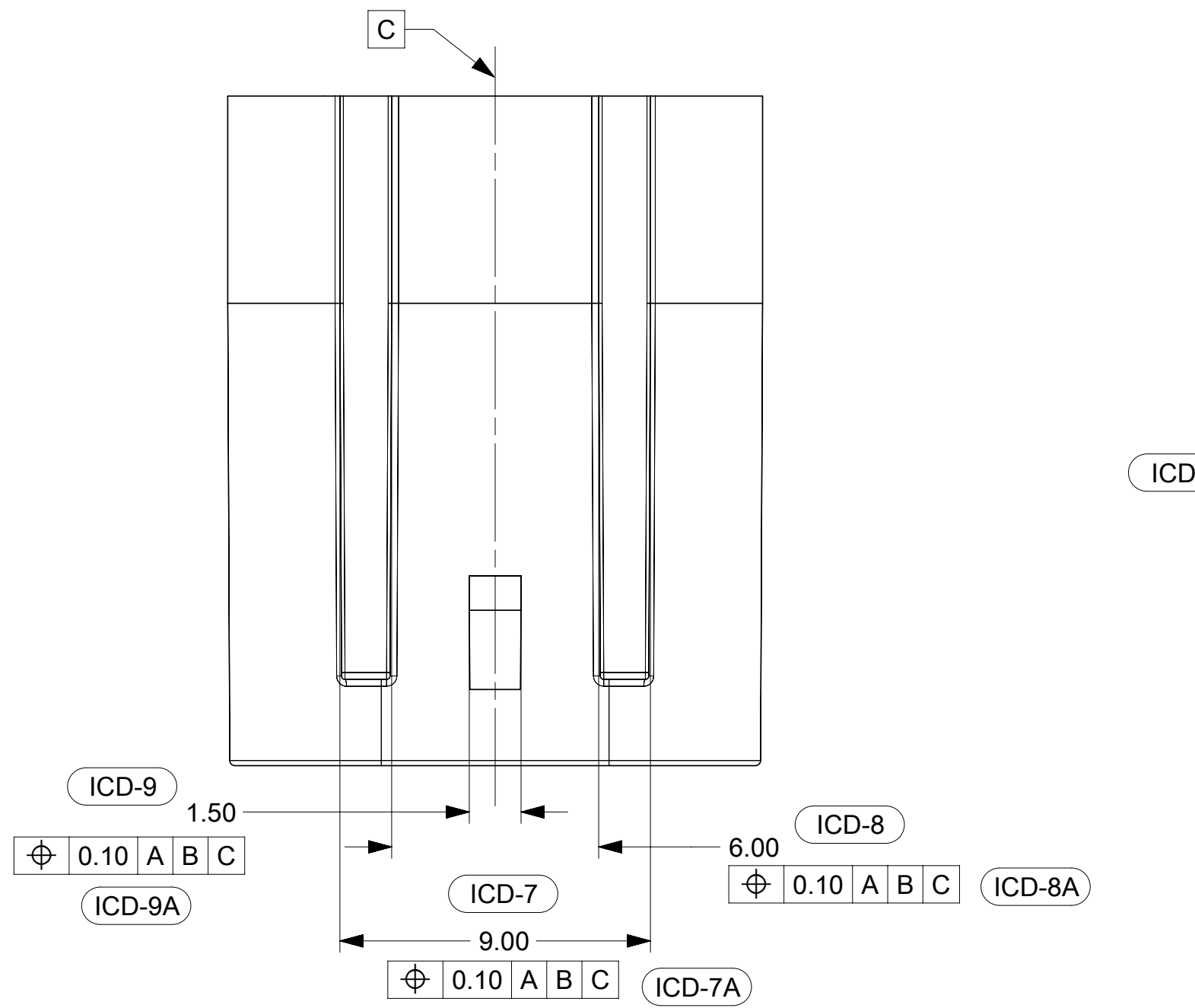
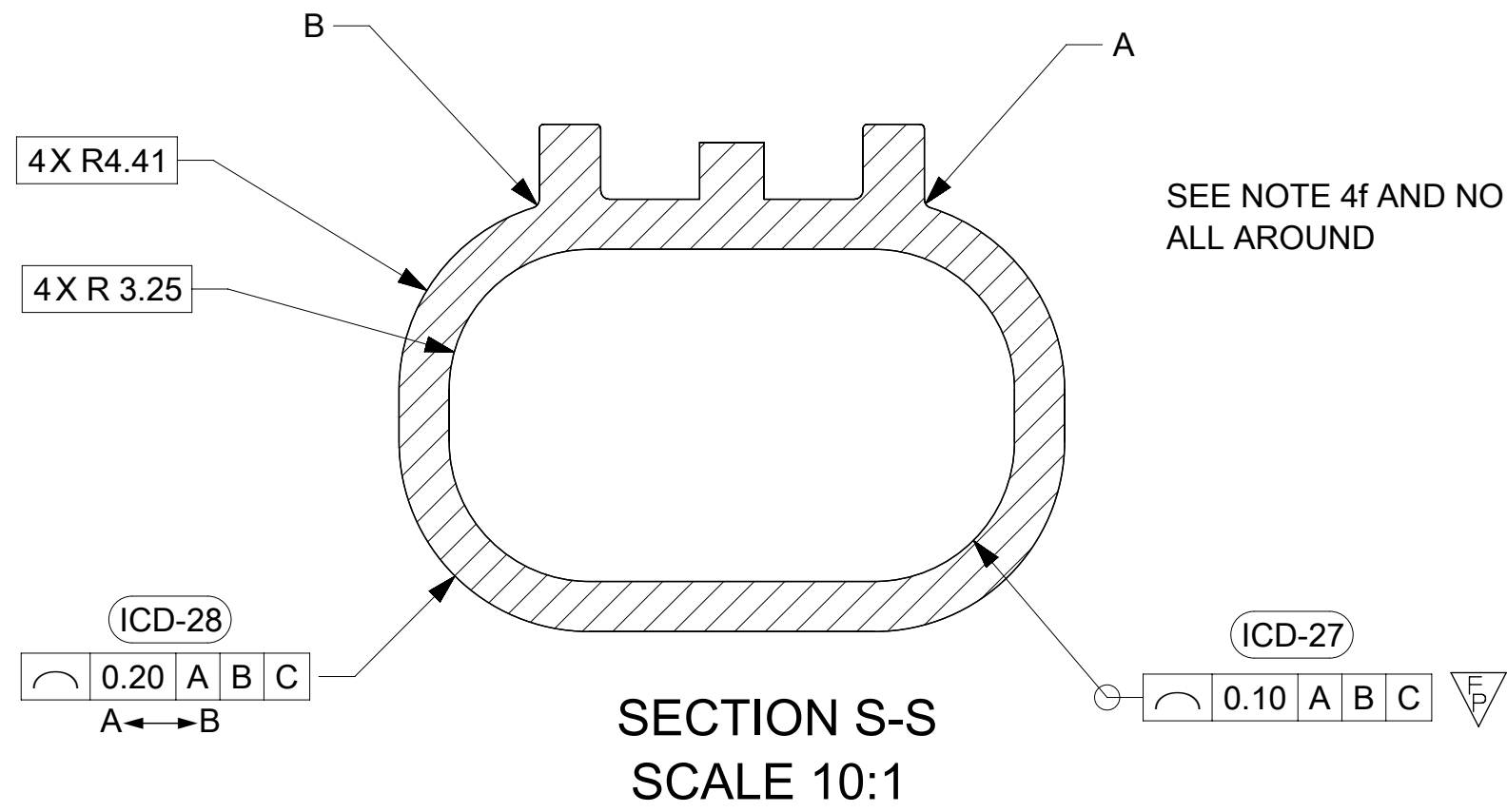
SHEET DESCRIPTION
CONNECTOR INTERFACE DEFINITION



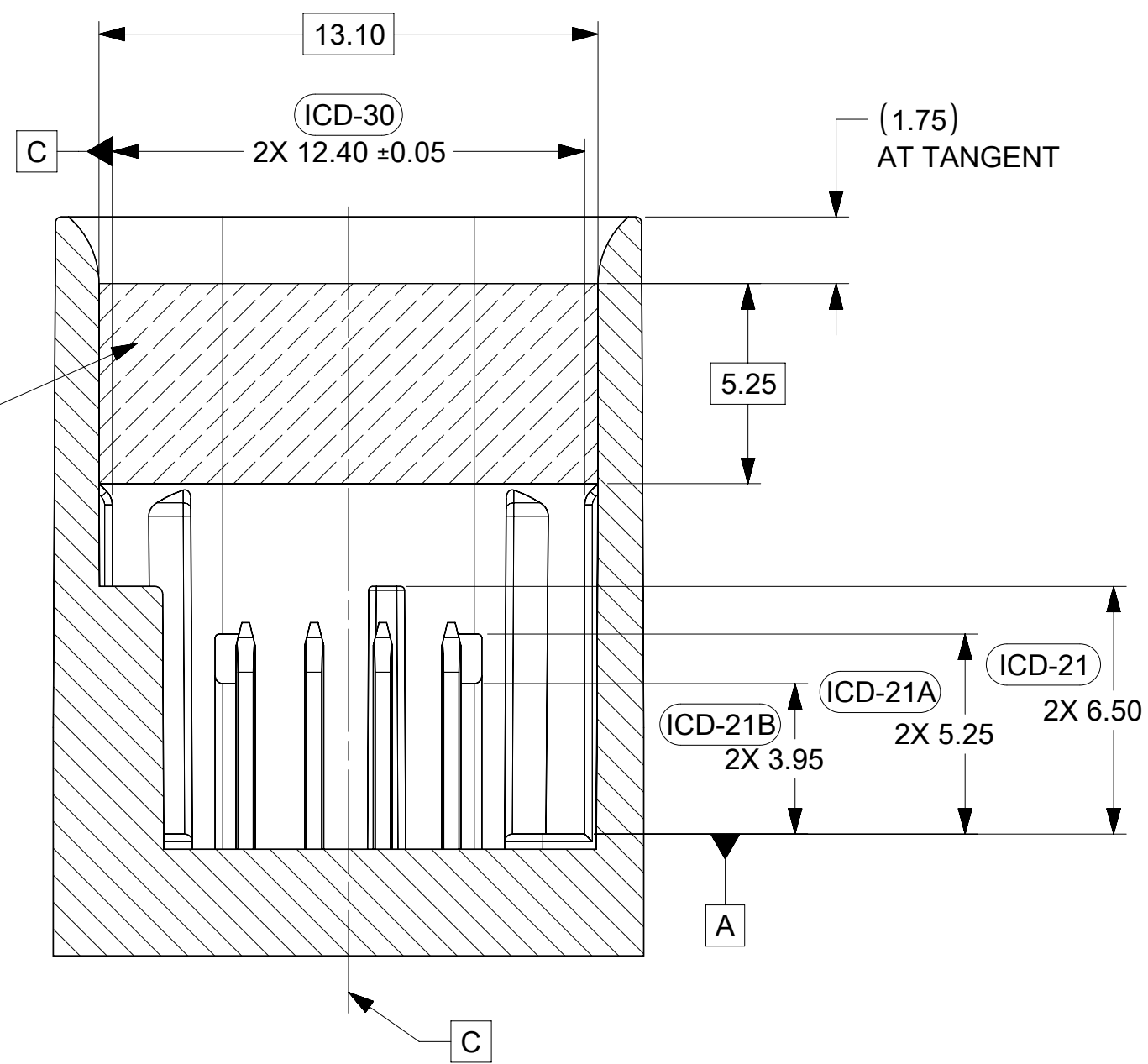
CONSTRUCTION BELOW THIS SURFACE IS NOT CONTROLLED BY THIS INTERFACE. NO FEATURES MAY EXTEND ABOVE THIS SURFACE.



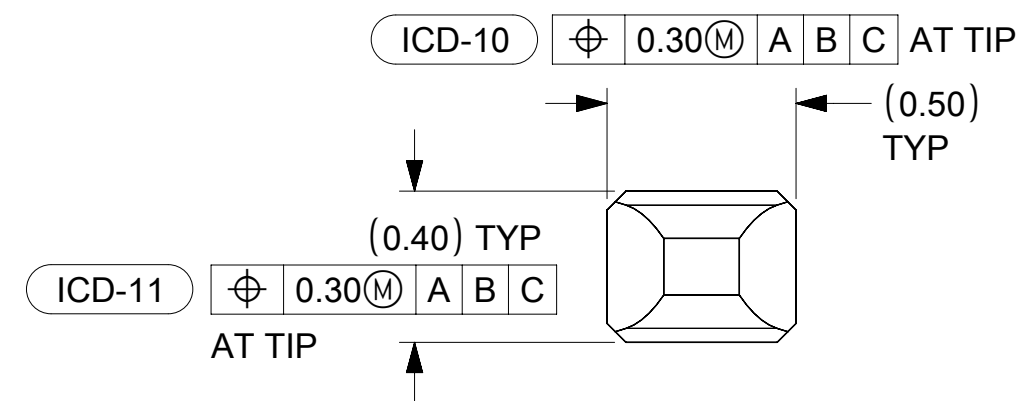
SECTION V-V



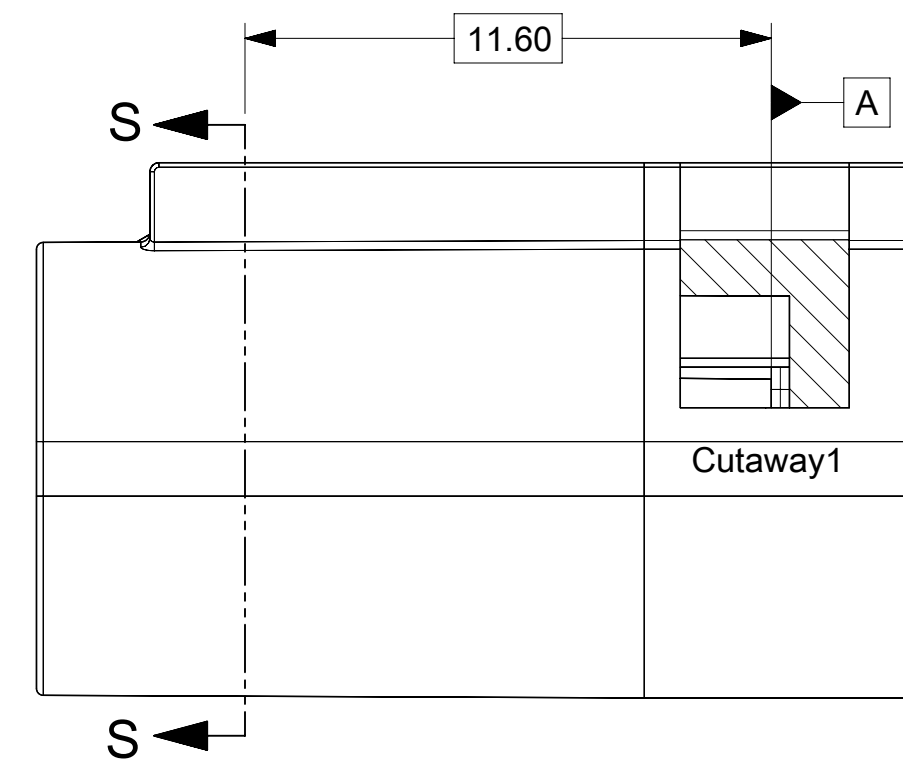
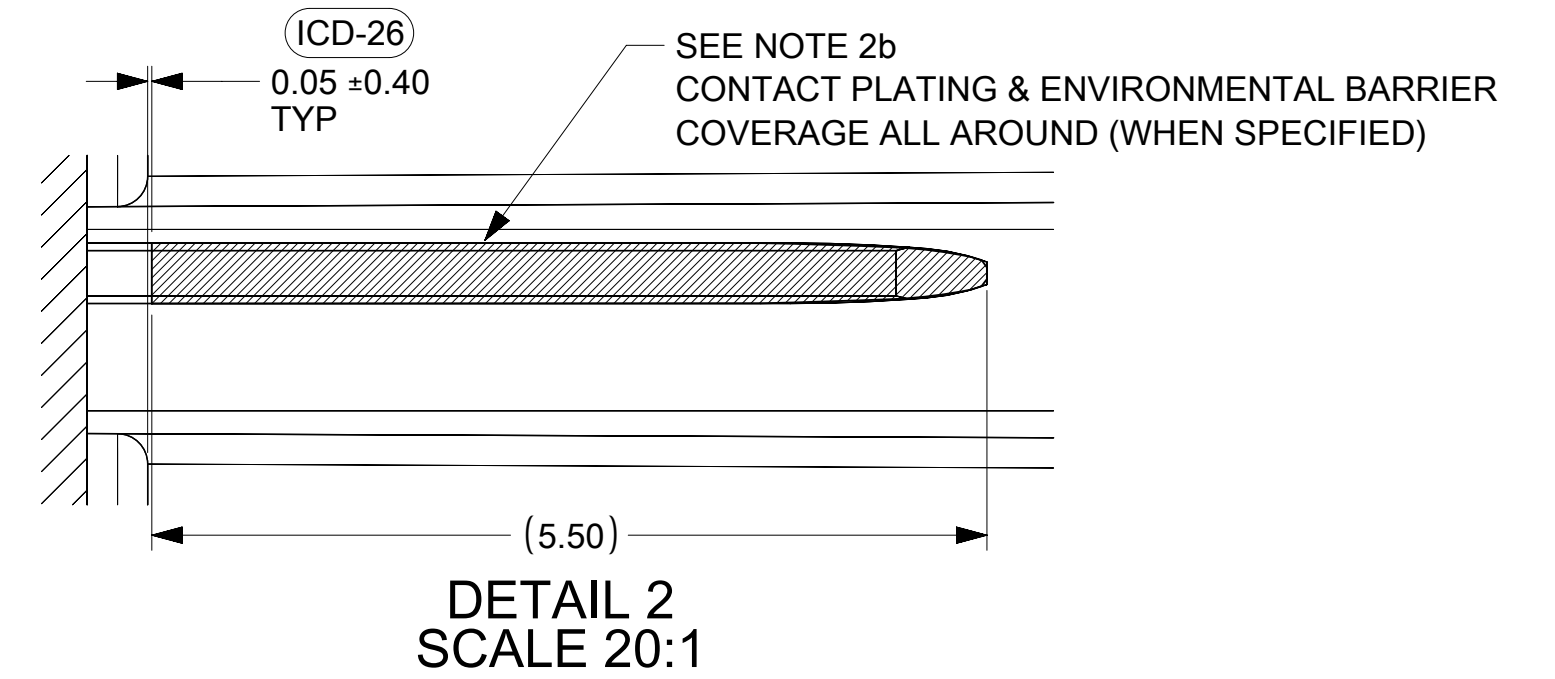
SECTION U-U



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

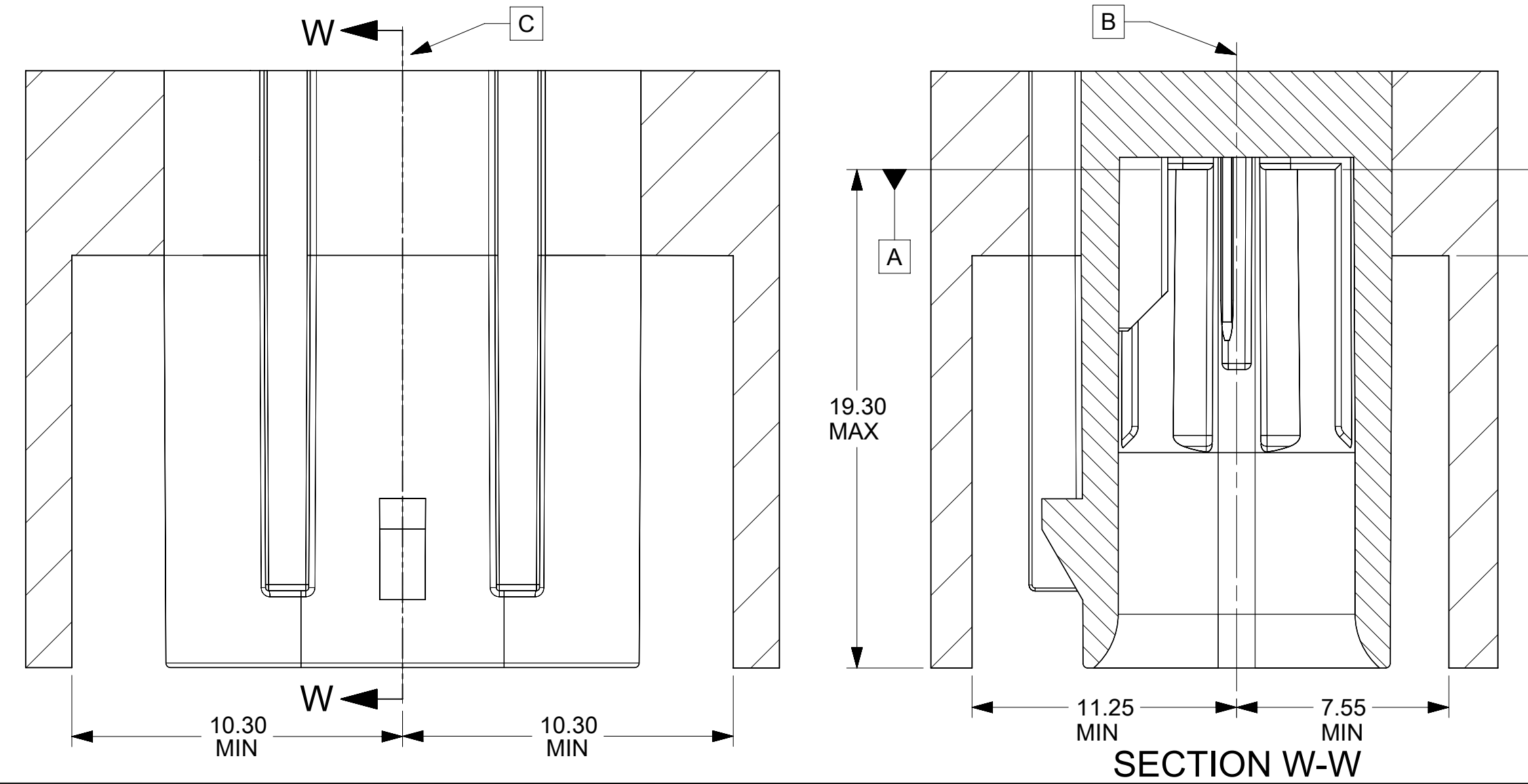


DETAIL 8
SCALE 50:1



PACKAGING FRAME

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



molex®

MINI50 SEALED 1X4 INTERFACE

PRODUCT CUSTOMER DRAWING

SERIES	MATERIAL NUMBER	CUSTOMER		
34968	SEE CHART			
DOCUMENT NUMBER		DOC TYPE	DOC PART	SHEET NUMBER
349684800		PSD	000	3 OF 4

QUALITY SYMBOLS	THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX ELECTRONIC TECHNOLOGIES, LLC AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION	DIMENSION UNITS	SCALE
= 0 = 0 = 0 = 0 = 0 = 0 = 0 = 0	2021/02/26 2021/03/24 2021/03/24 EC NO: 659036 DRWN: ML149 CHKD: JCONDON REV: APPR: JCONDON C4	mm	1:1
		DRWN BY	DATE
		CHK'D BY	DATE
		APPR BY	DATE
		DRAWING SIZE	THIRD ANGLE PROJECTION
		A1	

