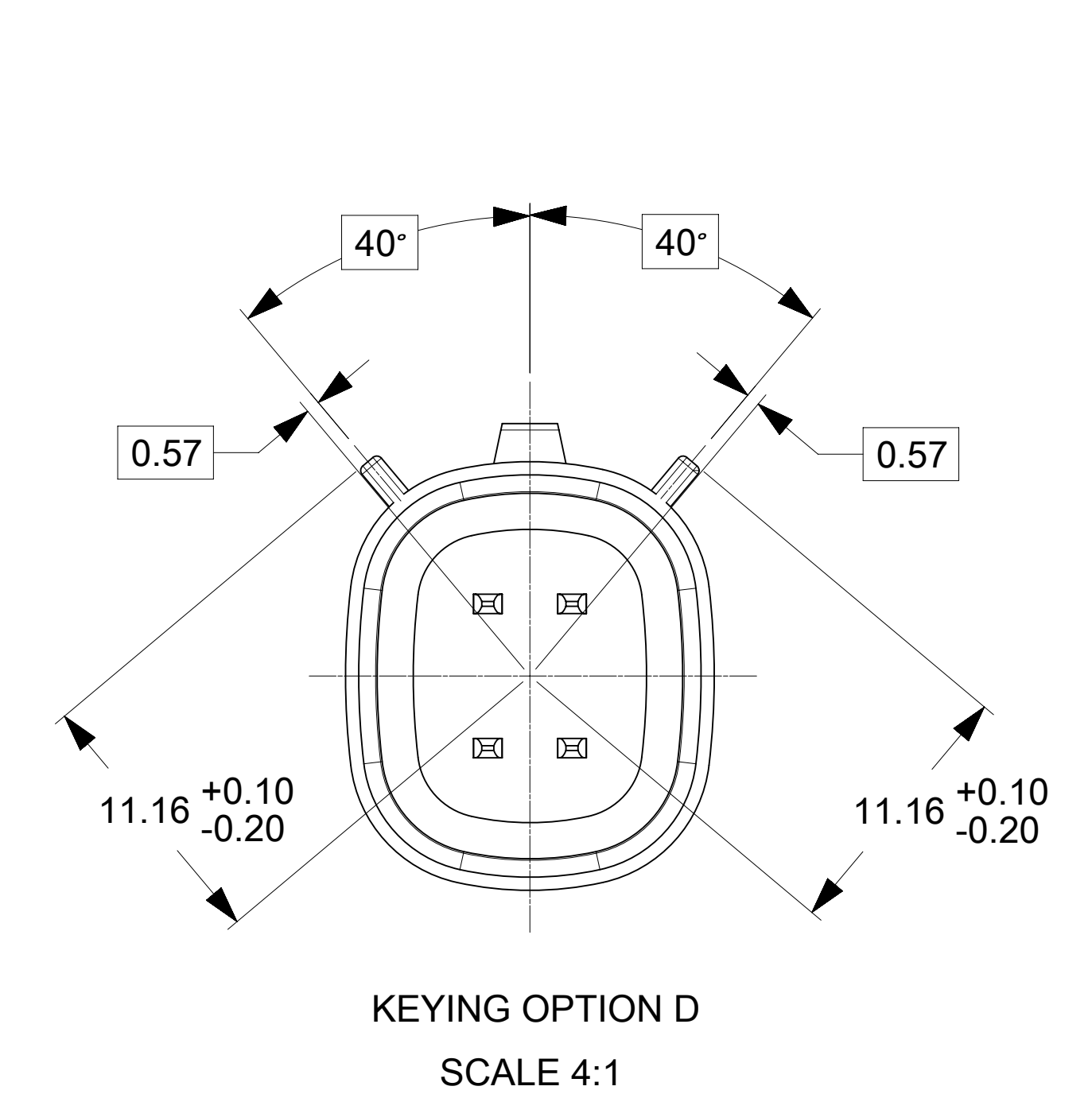
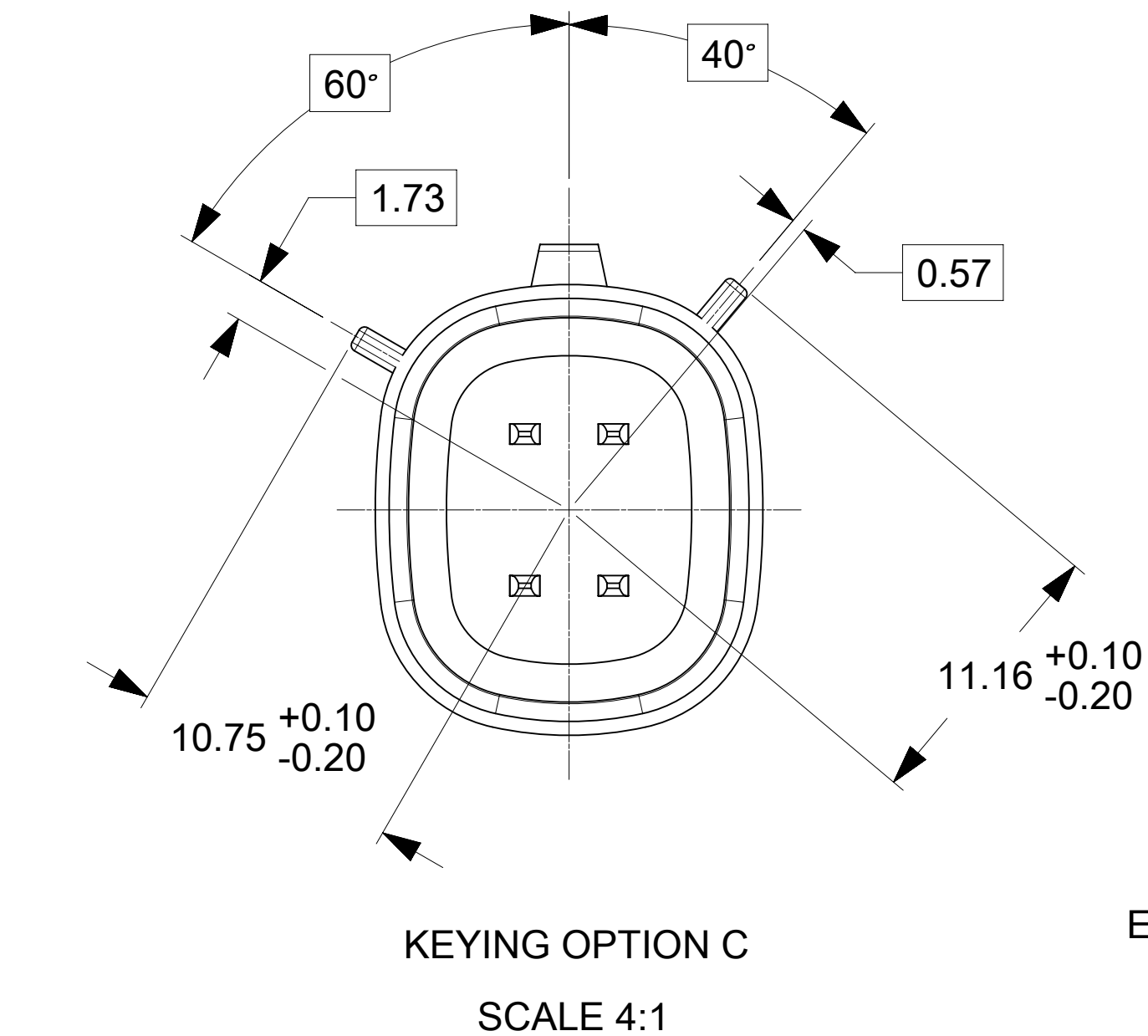
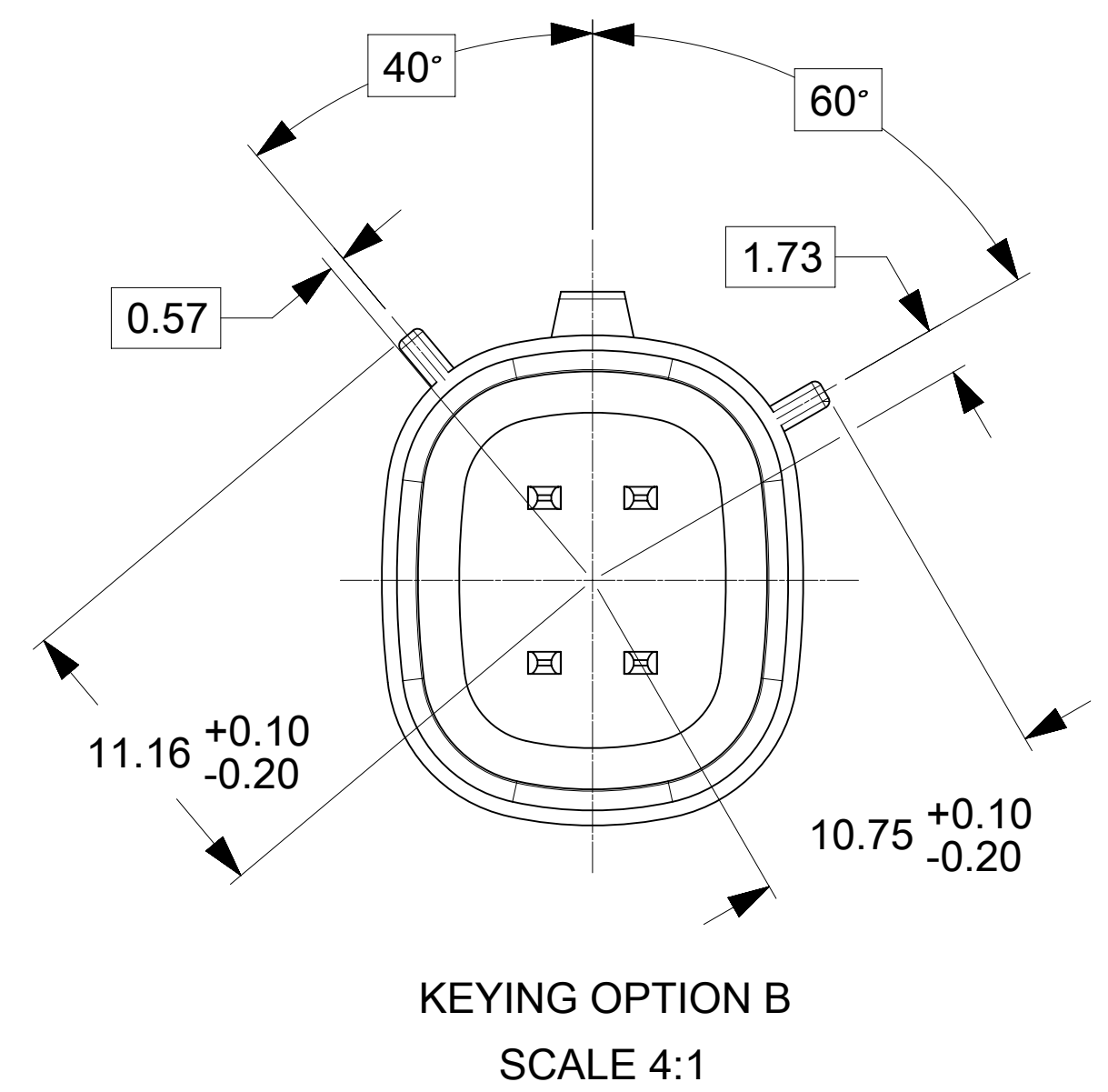
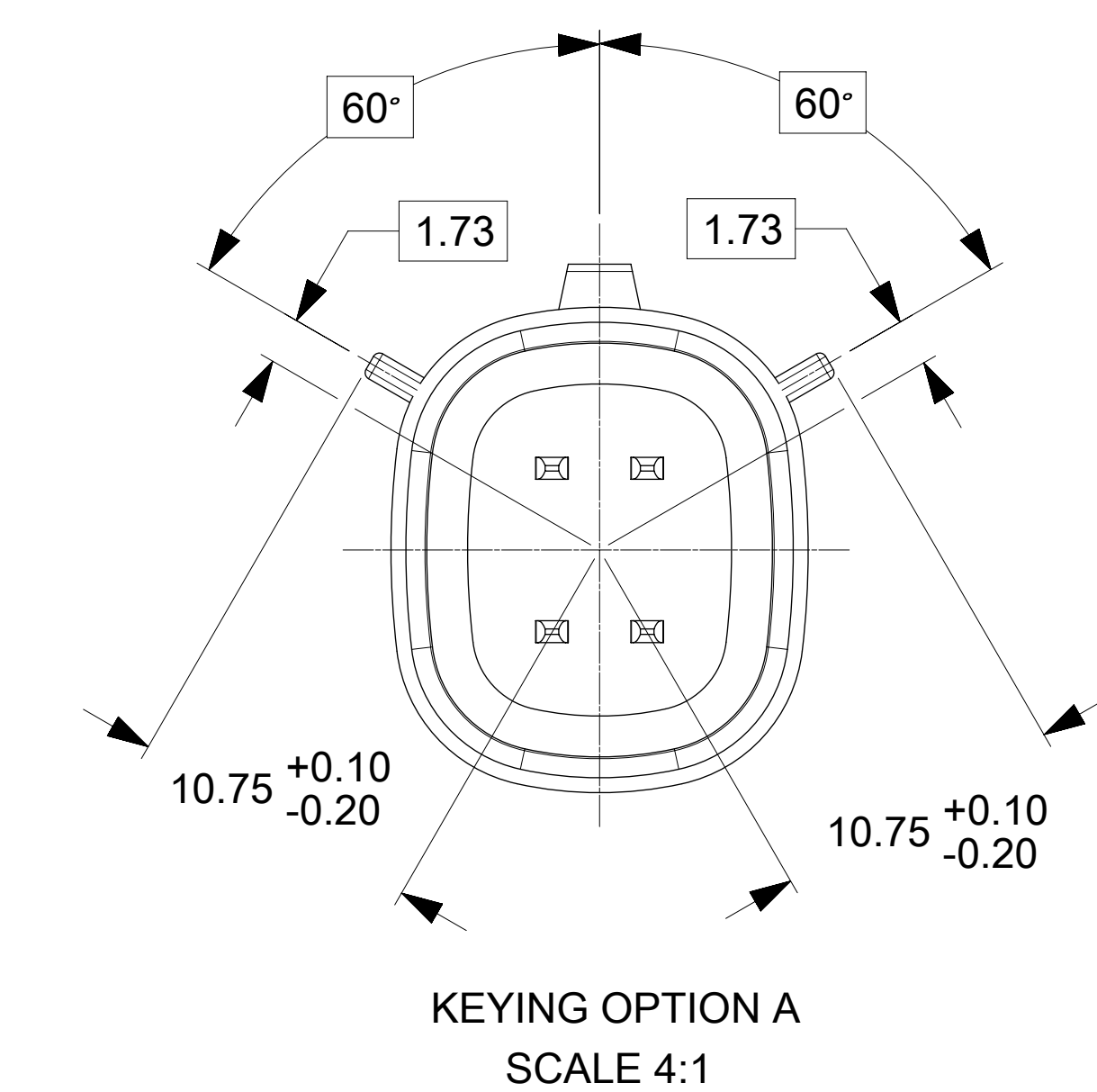
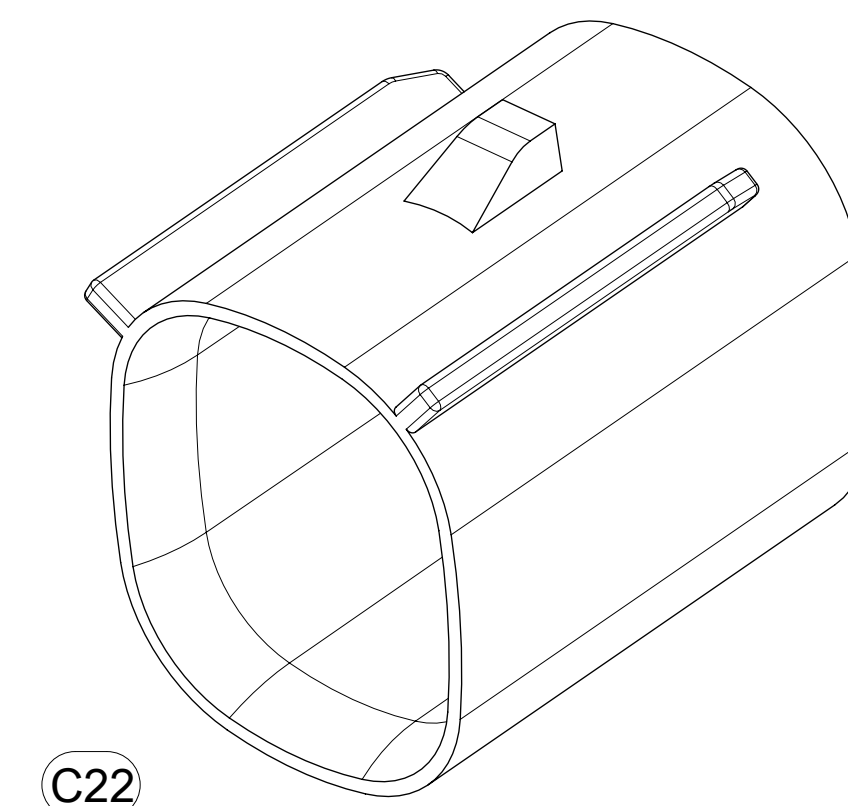
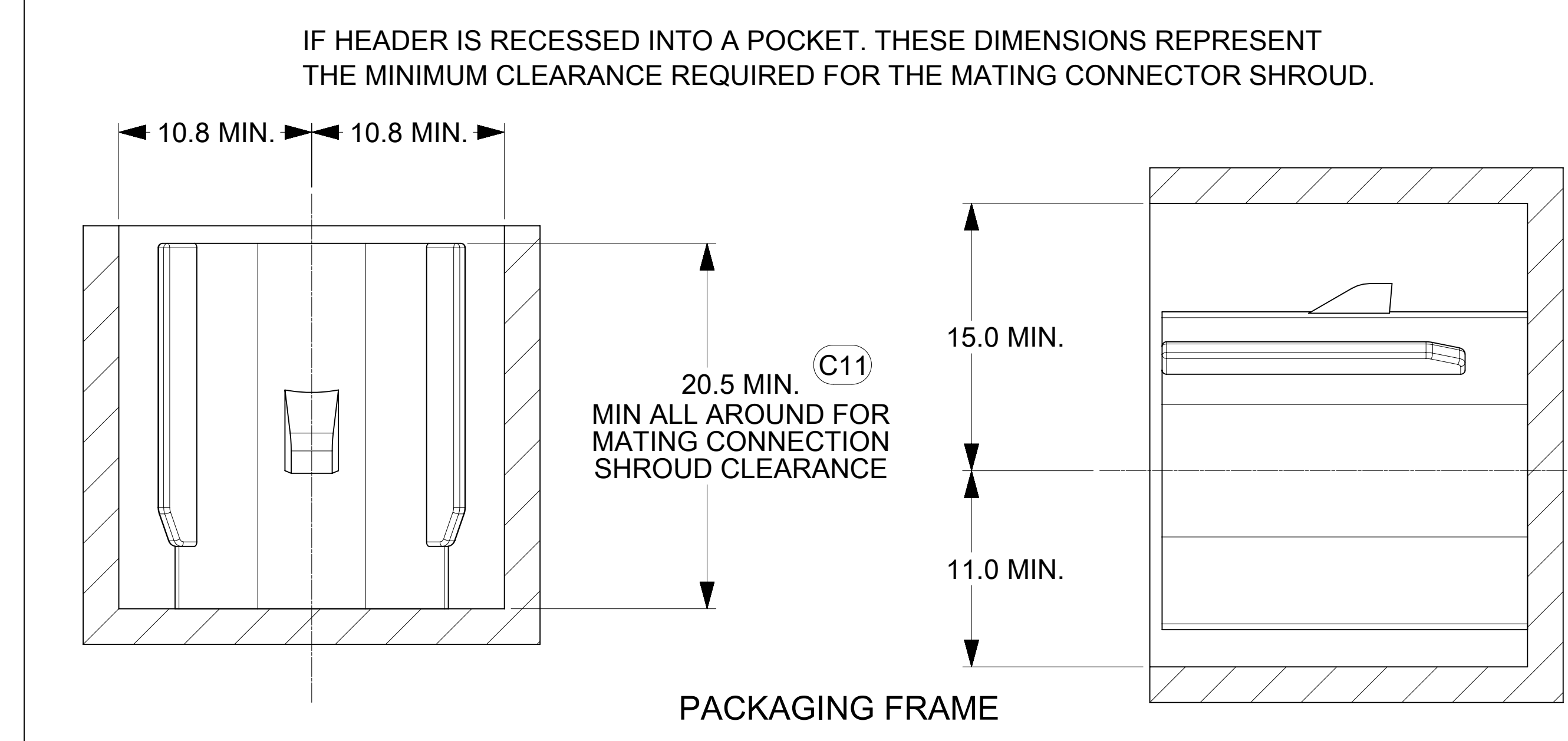
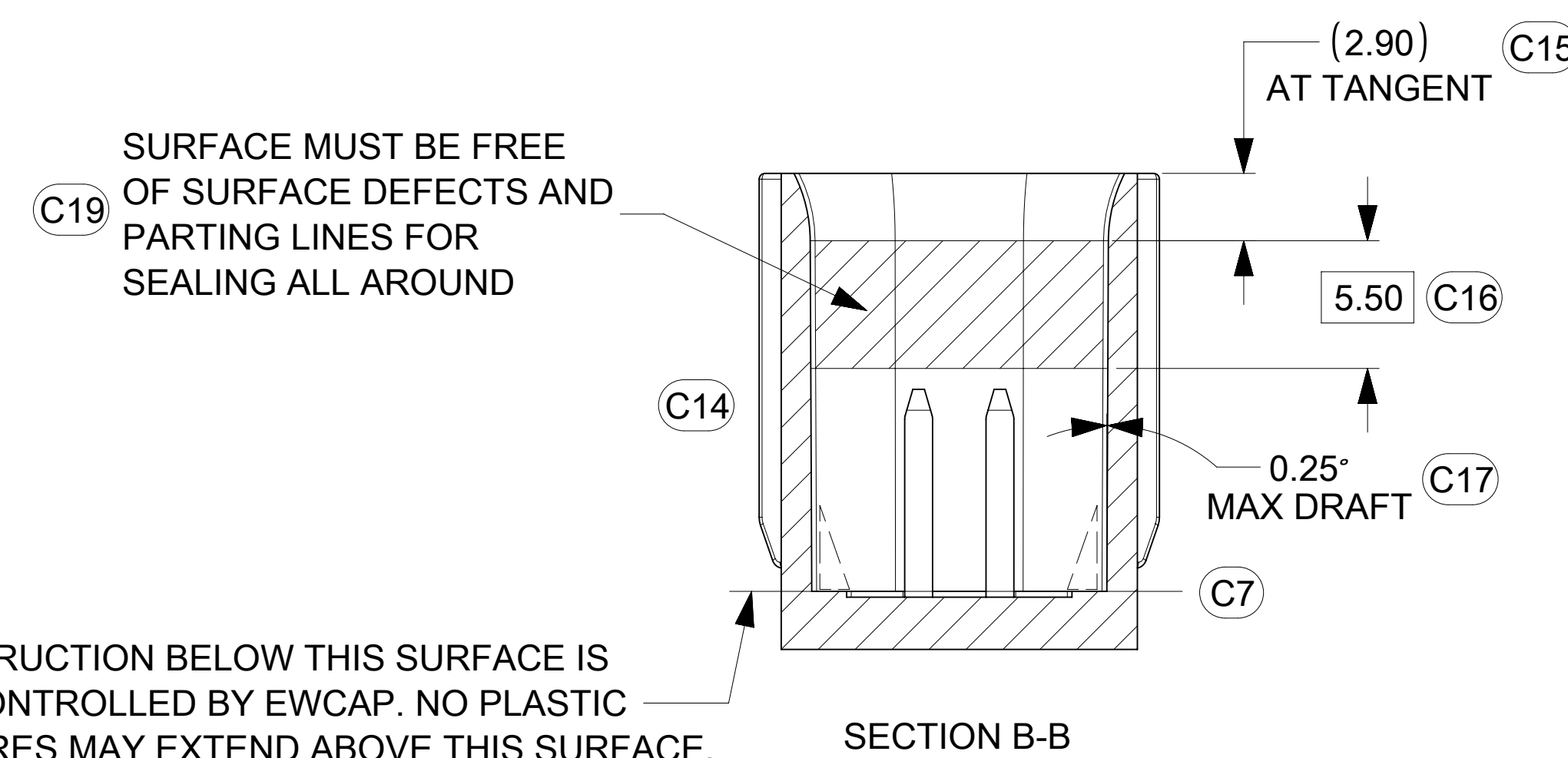
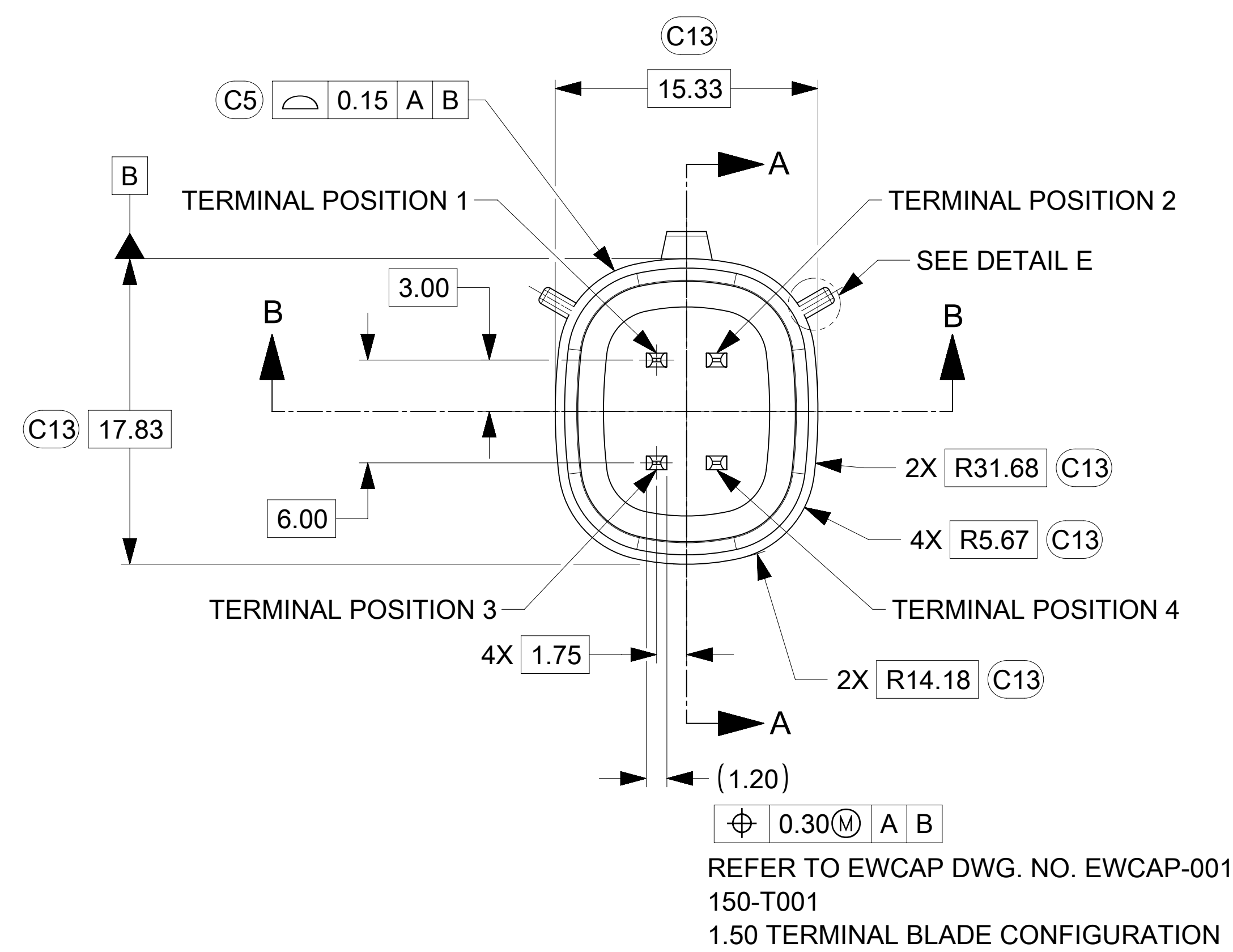
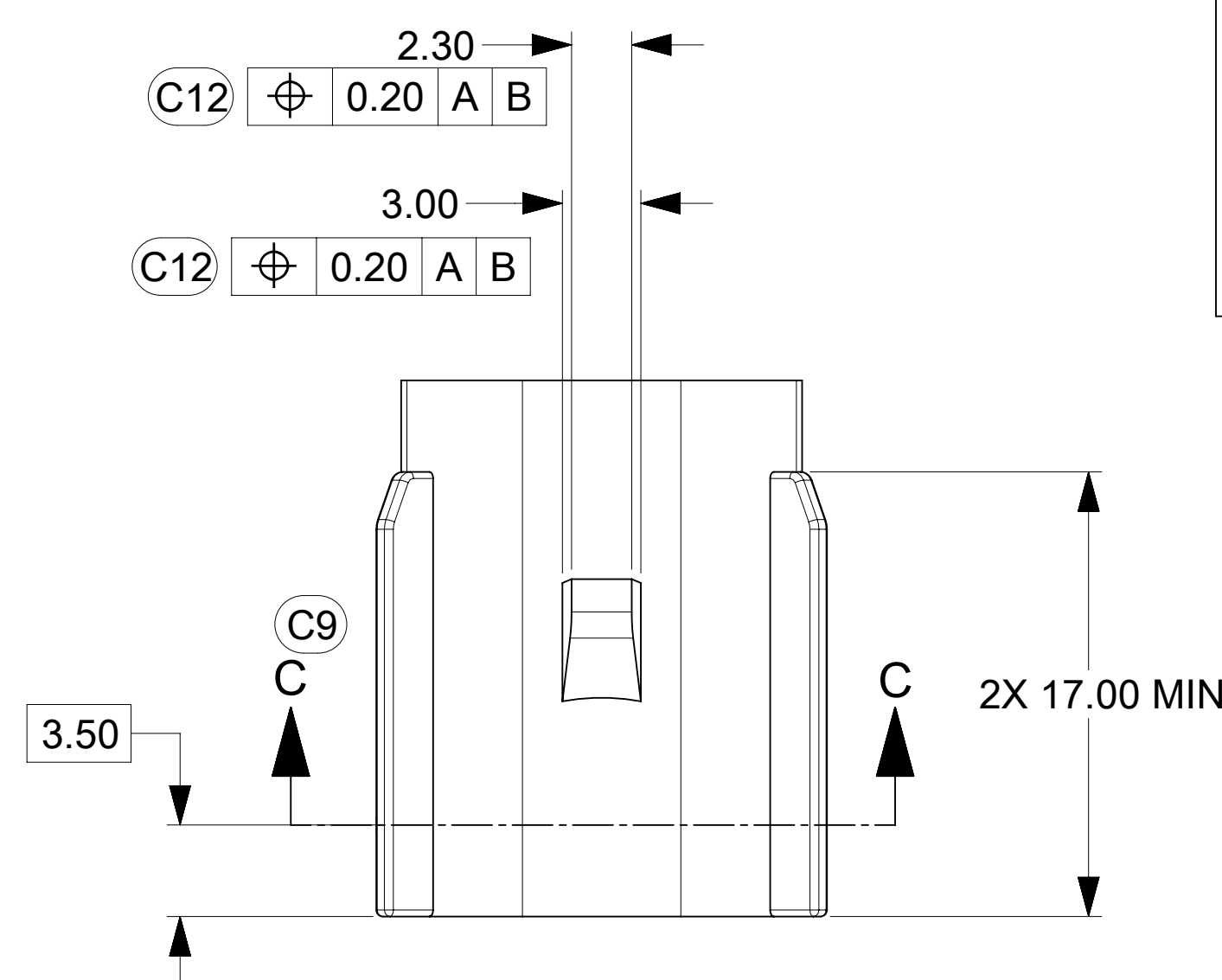
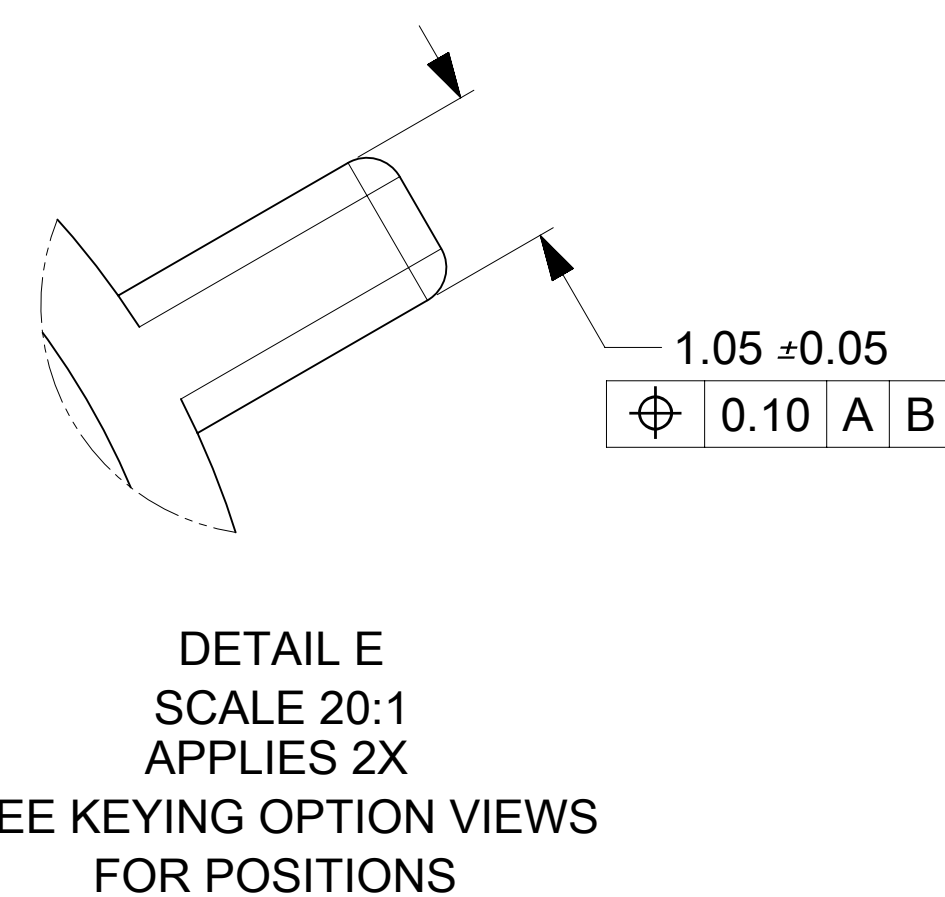
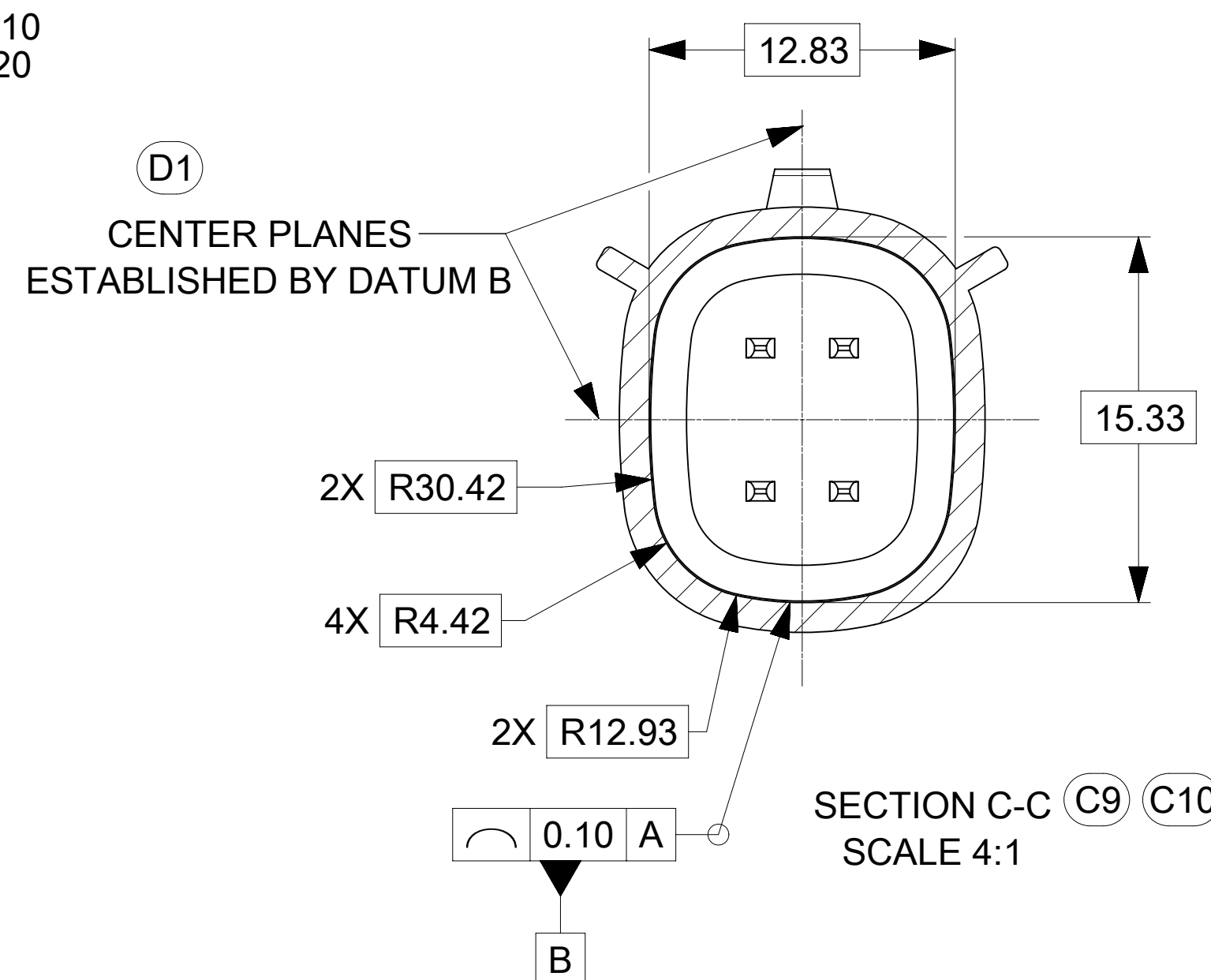
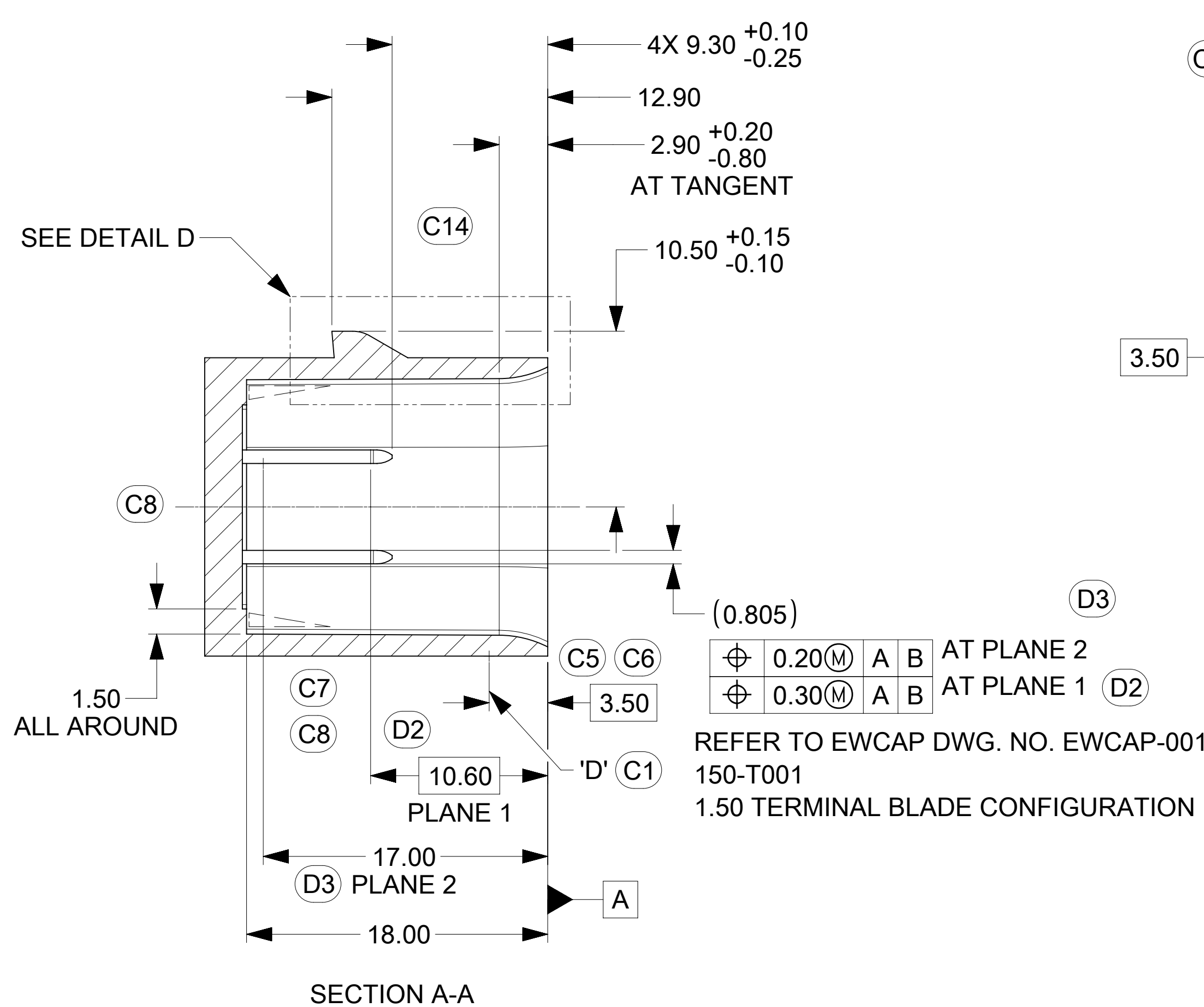
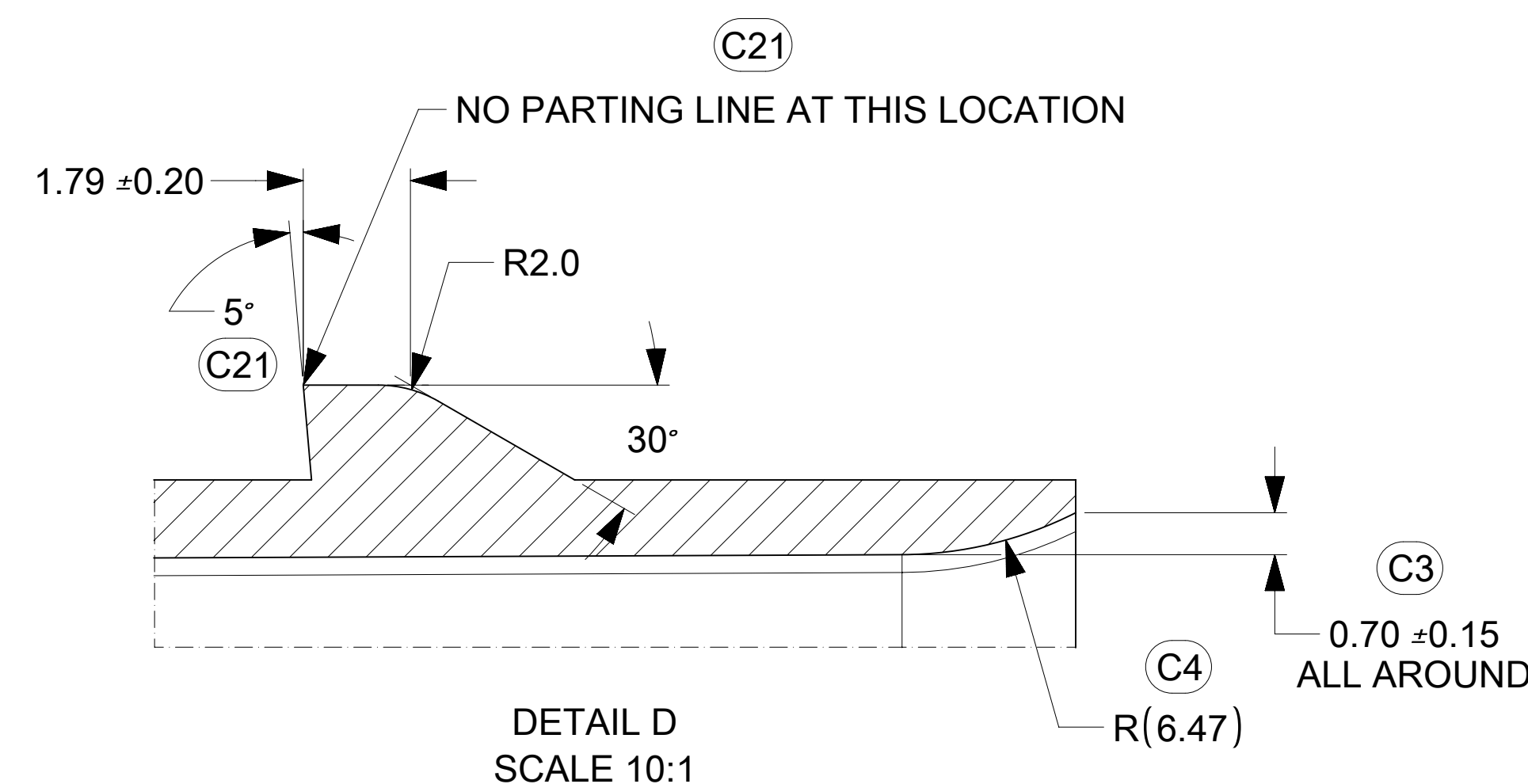




(C2)		
150-S-004-2-D02	D	BLACK
150-S-004-2-C02	C	DK GRAY
150-S-004-2-B02	B	LT GRAY
150-S-004-2-A02	A	BLACK
EWCAP P/N	OPTION	MATING CONNECTOR COLOR



STANDARD NOTICE

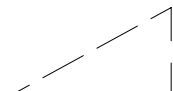
This drawing, or portions of it are controlled by the Electrical Wiring Components Application Partnership (EWCAP) a subgroup of the United States Council for Automotive Research LLC (USCAR LLC).

USCAR is an LLC consisting of members from FCA US LLC, Ford Motor Company and GM Corporation. Any change to a EWCAP controlled portion of this drawing, including a revision record change must be approved, in writing, by the responsible EWCAP representative from each USCAR member company.

Each EWCAP representative authorized to sign for his or her member company is responsible for obtaining all necessary approvals within that company prior to signing for the approval of the change.

EWCAP expressly prohibits any party from changing either any EWCAP controlled portion of this drawing or any associated tooling before receiving approval, signed by the authorized representatives, of the USCAR member companies. Reference to the signed change notice must be entered in the drawing control column.

NOTES: UNLESS OTHERWISE SPECIFIED (C18)

1. ALL DIMENSIONS SHOWN IN MILLIMETERS.
2. DIMENSIONING AND TOLERANCING PER ASME Y14.5M-2009 (D5)
3. 0.25 RADII ON ALL CORNERS SHOWN SHARP.
4. UNSPECIFIED RADII: 0.25 EXCEPT AS NOTED.
5. STANDARD COLORS FOR POLARIZATION (SEE CHART).
DEVIATION REQUIRES APPROVAL OF AUTHORIZED PERSON.
6. REFER TO "SAE/USCAR 12 CONNECTOR GUIDELINES"
FOR ADDITIONAL REQUIREMENTS.
7. EXCEPT WHERE NOTED, DRAFT ON OUTSIDE SURFACES IS PERMISSIBLE
WITHIN TOLERANCE.
8.  SYMBOL INDICATES DRAFT DIRECTION.
9. FOR TERMINAL MATERIAL, DIMENSIONAL, AND COATING REQUIREMENTS
AND ANY BLADE TERMINAL DESIGN INFORMATION NOT SHOWN ON THIS
DRAWING SEE EWCAP DRW. NO. EWCAP-001
10. A FULL SHROUD ON THE MATING CONNECTOR IS REQUIRED
TO INSURE THAT THE CONNECTOR-HEADER POLARIZATION
FEATURES (OPTIONS A THRU D) WILL FUNCTION. THE FULL
SHROUD ALSO PREVENTS SCOOP DAMAGE TO THE HEADER
PINS. REFER TO "SAE/USCAR-12 CONNECTOR DESIGN
GUIDE LINES" FOR ADDITIONAL INFORMATION.
11. REFER TO USCAR/EWCAP PART LIST AS FOUND ON WEBSITE
<http://www.uscarteams.org>
12. THIS IS A 100% CAD GENERATED PART. THE CAD MATHEMATICAL DATA
IS THE MASTER FOR THIS PART. FOR DIMENSIONAL OR ANY INFORMATION
NOT SHOWN ON THIS DRAWING, ANALYZE THE CAD MODEL.

132	D5	UPDATED CALL OUT FOR THE REVISION OF GD&T FROM ASME Y14.5-1994 TO Y14.5-2009			
132	D4	UPDATED THE STANDARD NOTICE TO THE LATEST TEMPLATE			
132	D3	ADDED PLANE 2			
132	D2	ADDED PLANE 1			
132	D1	ADDED CALL OUT "CENTER PLANES ESTABLISHED BY DATUM B"	04-24-17	MV	KB
095	C22	CHANGED ISO VIEW SCALE TO 4:1, WAS 1:1			
095	C21	ADDED PARTING LINE NOTE TO DETAIL A, REMOVED NOTE BACK ANGLE OPTIONAL FROM 5°			
095	C20	CORRECTED CHRYSLER GROUP LLC NOMENCLATURE ADDED LEGAL NOTE AND EWCAP TO TITLE BLOCK			
095	C19	MOVED NOTE TO SECTION B-B			
095	C18	UPDATED NOTES			
095	C17	ADDED 0.25° MAX DRAFT ANGLE ALL AROUND			
095	C16	ADDED 5.50			
095	C15	ADDED AT TANGENT NOTE			
095	C14	REMOVED DATUM D			
095	C13	ADDED BASIC DIMENSIONS FOR PROFILE CONTROL			
095	C12	ADDED $\varnothing$ 0.20 A B			
095	C11	DIMENSION TO DATUM A			
095	C10	SEALING SURFACE DIMENSIONS MOVED TO SECTION C-C			
095	C9	ADDED SECTION C-C			
095	C8	REMOVED 15.20 AND 2.50 FROM SECTION A-A			
095	C7	ADDED DRAFT ANGLE DIRECTION			
095	C6	REMOVED 0.80 +0.10/-0.20 ALL AROUND			
095	C5	REPLACED WALL THICKNESS CONTROL WITH PROFILE OF A SURFACE			
095	C4	ADDED R(6.47)			
095	C3	ADDED 0.70±0.15 ALL AROUND			
095	C2	UPDATED CONNECTOR COLORS			
095	C1	SURFACE 'D' RELOCATED TO 3.50 WAS AT 8.20			
	B3	REMOVED EWCAP FROM THE TITLE BLOCK			
	B2	REMOVED LEGAL NOTICE			
	B1	ANGEL 40° WAS 60° -4 PLACES (A4-D4)	03-26-12	KC	MV
	A	RELEASED	10-31-02	MV	DG
CHANGE SERIAL NUMBER	LET	REVISION RECORD	DATE	DWN	CHK

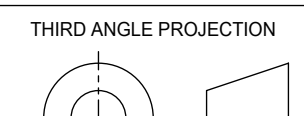
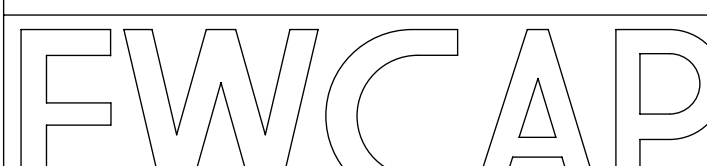
TOLERANCES (UNLESS OTHERWISE SPECIFIED):				 THIRD ANGLE PROJECTION			
DIMENSIONS ARE IN		MILLIMETERS					
ANGLES		±3°					
X		±0.2		XX		±0.10	
							
SCALE		4 - 1		DRAWN BY		K. CUNNINGHAM	
				CHECKED BY		M. VANSLAMBOURCK	
				DATE		03-26-12	
TITLE							
DIRECT CONNECT INTERFACE 4 WAY (2 X 2) 1.5MM SEALED MALE							
SHEET		DRAWING NUMBER		SIZE		REVISION LEVEL	
OF :		150-S-004-2-Z02		E		DO NOT SCALE DRAWING COMPUTER AIDED DRAWING	
						D	

TABLE OF CONTENTS	
SHEET NO.	SHEET DESCRIPTION
1	NOTES AND BOM
2	CONFIGURATIONS
3-4	KEY CONFIGURATIONS
5	RECEPTACLE CONNECTOR ASSEMBLY
6	BACKSHELL NOTES
7-8	BACKSHELL
9-10	BACKSHELL CONFIGURATIONS
11	2X10 CONNECTOR INTERFACE DEFINITION

NOTES: VALID UNLESS OTHERWISE SPECIFIED

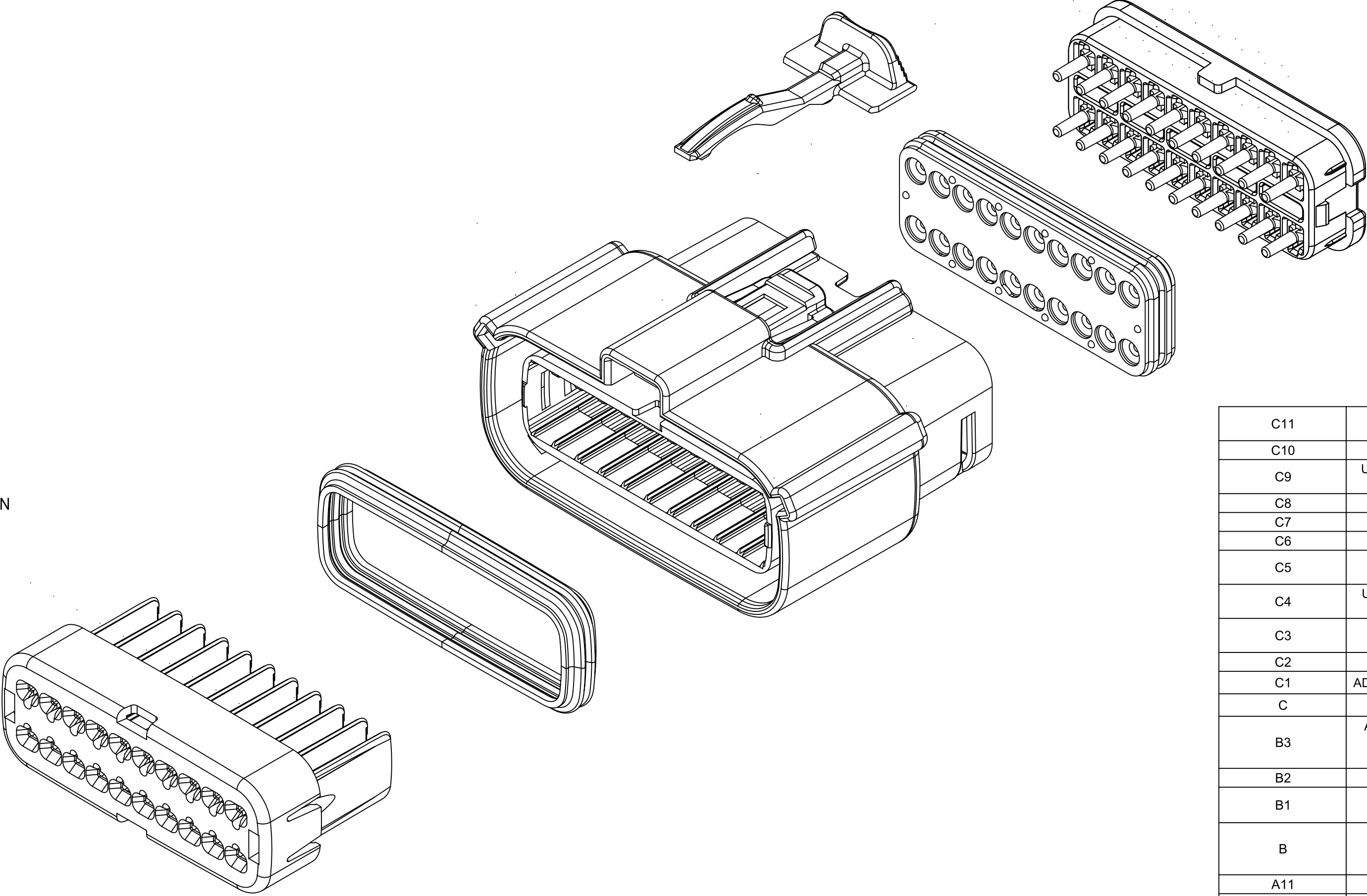
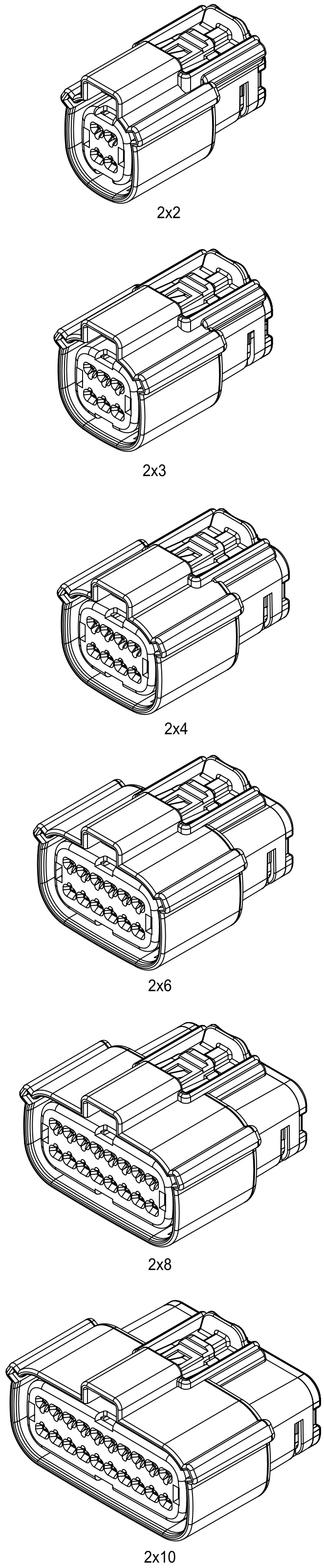
1. GENERAL:
- a. APPLICATION SPECIFICATION SEE: AS-33472-100
- CONTAINS: PRODUCT INTRODUCTION, PRODUCT SUMMARY, CONNECTOR ASSEMBLY, PACKAGING INFORMATION, CONNECTOR MATING, SERVICE INSTRUCTIONS, ELECTRICAL CONTINUITY CHECKING, CRIMPING, AND TROUBLESHOOTING.
 - DESIGNED TO MATE WITH DEVICE OR CONNECTOR AS SPECIFIED IN THE MATING INTERFACE/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 (STD): PS-33472-000
 - MID-VOLT CONFIGURATION : PS-33472-000
 - TRANSMISSION CONFIGURATION (TRNS):
CONTAINS SILICONE: TS-160038-0001
SILICONE FREE: TBD
 - UL V0 CONFIGURATION (UL V0): PS-160074-0001
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: SEE PACKAGING CHART
- d. PARTS MUST BE IN COMPLIANCE TO MOLEX CHEMICAL SUBSTANCES FOR PRODUCTS AND PACKAGING SPECIFICATION: QEHS-699000-301
- 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-33472-0002
 - TRANSMISSION CONGURATION
CONTAINS SILICONE: SD-160038-0002
SILICONE FREE: SD-160092-0002
 - UL V0 CONFIGURATION SD-160074-0002
 - MID-VOLT CONFIGURATION SD-300361-0002
- b. TRANSMISSION CONNECTOR COMPONENTS MUST MEET THE MATERIAL REQUIREMENTS SPECIFIED IN TS-160038-0001 & TBD

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.
- h. 2X2 CLIP-SLOT DESIGN IS BASED ON USCAR/EWCAP 7mm CLIP SLOT EWCAP - 005 - 7
- 2X3 THRU 2X10 CLIP-SLOT DESIGN IS BASED ON USCAR/EWCAP 11mm CLIP SLOT EWCAP - 005 - 11

PACKAGING	
DESCRIPTION	DRAWING NO.
2X2	PK-31300-903
2X3	PK-31300-903
2X4	PK-31300-903
2X6	PK-31300-903
2X8	PK-31300-903
2X10	PK-31300-903

MATING INTERFACE/CONNECTOR DRAWINGS		
DESCRIPTION	INTERFACE DEFINITION	MOLEX INLINE
STANDARD 2X2	*150-S-004-2-Z02	SD-33482-0001
UL V0 2X2	*150-S-004-2-Z02	SD-33482-0001
MID-VOLT 2X2	*150-S-004-2-Z02	SD-33482-0001
STANDARD 2X3	*150-S-006-2-Z02	SD-33482-0001
TRANSMISSION 2X3	*150-S-006-2-Z02	N/A
MID-VOLT 2X3	*150-S-006-2-Z02	SD-33482-0001
STANDARD 2X4	*150-S-008-2-Z02	SD-33482-0001
UL V0 2X4	*150-S-008-2-Z02	SD-33482-0001
STANDARD 2X6	*150-S-012-2-Z01	SD-33482-0001
UL V0 2X6	*150-S-012-2-Z01	SD-33482-0001
TRANSMISSION 2X6	*150-S-012-2-Z01	N/A
STANDARD 2X8	*150-S-016-2-Z01	SD-33482-0001
STANDARD 2X10	SD-33472-0001	SD-33482-0001
UL V0 2X10	SD-33472-0001	SD-33482-0001
MID-VOLT 2X10	SD-33472-0001	SD-33482-0001



INSPECTION NUMBER LOG	
LAST NUMBER: 11	
ADDED: 11	
REMOVED:	

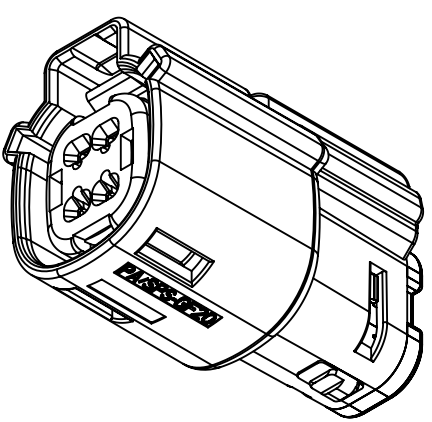
C11	REMOVED "NOT VALIDATED" TEXT FROM SHEET 11
C10	ADDED RELIEF SLOT - CANCELLED
C9	UPDATE 2X2 PACKAGING DRAWING NO. ON SHEET 1
C8	ADDE MID-VOLT VERSION ASSY.
C7	ADDED TRANSMISSION 2X6 IN APPENDIX
C6	CORRECTED 2X6 UL V0 DIM "J"
C5	ADDED UL V0 VERSION PRODUCT "PS" INFORMATION
C4	UPDATED GENERAL TOLERANCES IN TITLE BLOCK
C3	CORRECTED 2X2 DIM A AND D, CORRECTED 2X4 DIM D
C2	ADDED MOLEX BACKSHELL DETAILS
C1	ADDED 2X6-TRNS.-WITH/WITHOUT CLIPSLOT *
C	ADDED 2X10-STD.-WITH CLIPSLOT *
B3	ADD ROW FOR 2X6 V0 ON SHEET 5DIM3# UPDATE TO 25.0 MAX FOR V0DIM11# UPDATE TO 33.85 MAX FOR V0
B2	ADD 2X6 UL V0 CONFIGURATIONS
B1	UPDATE 2X6 W/O CLIPSLOT DIM G ON TABLE OF SHEET 5
B	ADDED 2X2 - STD- WITH CLIPSLOT, 2X8 - STD- WITH CLIPSLOT AND NOTE h
A11	MINOR GEOMETRY CHANGE FOR UL V0
A10	UPDATED 2X4 DRAWING NUMBER
A9	UPDATED 2X10 PART NUMBERS
A8	UPDATED 2X3 DRAWING NUMBER
A7	UPDATED 2X10 INTERFACE
A6	ADDED TRANSMISSION REFERENCES
A5	ADD 2X10 INTERFACE SHEETS
A4	ADD UL V0 CONFIGURATIONS
A3	ADDED 2X3 STD AND TRANSMISSION
A2	UPDATED 2X8 BLD DRAWINGS
A1	FIXED TYPO IN NOTE 1a. UPDATED 2X6 MOLEX INLINE BLADE DRAWING
A	INITIAL RELEASE
REV	REV DESCRIPTION

FUNCTIONAL SYMBOLS		THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX ELECTRONIC TECHNOLOGIES, LLC AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION													
DIVISIONAL SYMBOLS		DIMENSION UNITS		SCALE		CURRENT REV DESC: SEE REVISION TABLE									
		MM		1:1											
		GENERAL TOLERANCES (UNLESS SPECIFIED)													
		ANGULAR TOL ± 1°													
		4 PLACES ±													
		3 PLACES ±													
2 PLACES ± 0.100															
1 PLACE ± 0.20															
0 PLACES ±															
DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		THIRD ANGLE PROJECTION		DRAWING		SERIES		DOCUMENT NUMBER		DOC TYPE		DOC PART		REVISION	
				A1-SIZE		33472		SD-33472-0001		PSD		001		C11	
								MATERIAL NUMBER		CUSTOMER				SHEET NUMBER	
										GENERAL MARKET				1 OF 11	

SHEET DESCRIPTION

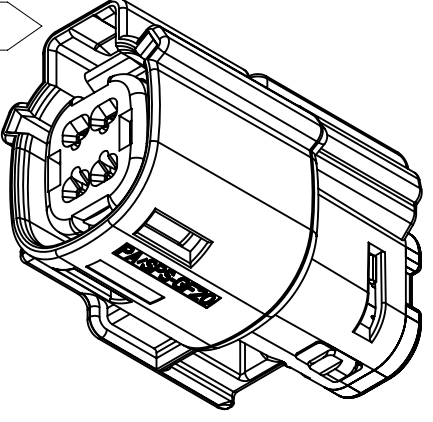
CONFIGURATIONS

C8

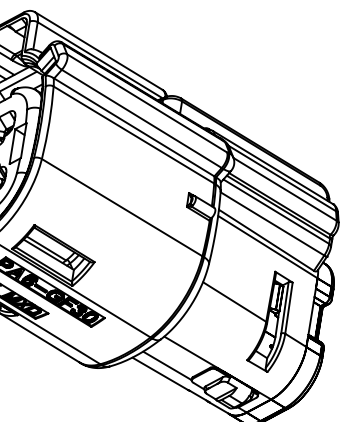


2X2 - STD.
2X2 - TRNS. - SILICONE FREE
2X2 - MID-VOLT

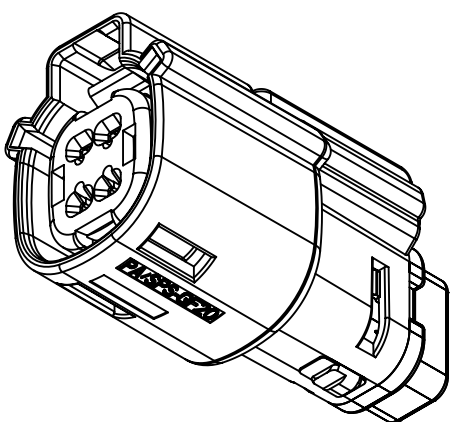
B



2X2 - STD. - WITH CLIPSLOT *

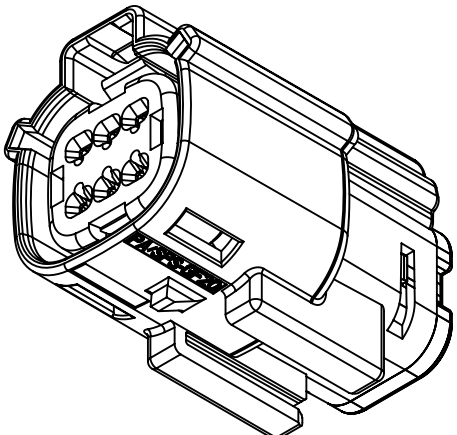


† 2X2 - UL V0

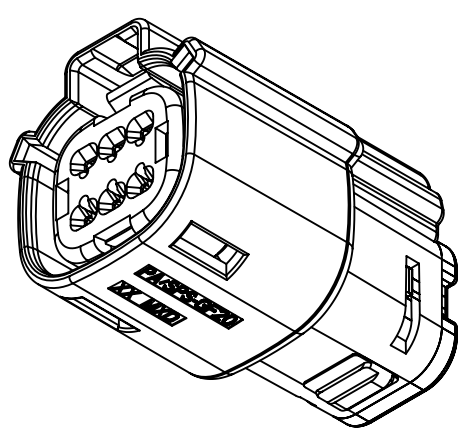


2X2 - STD. - LENGTHENED

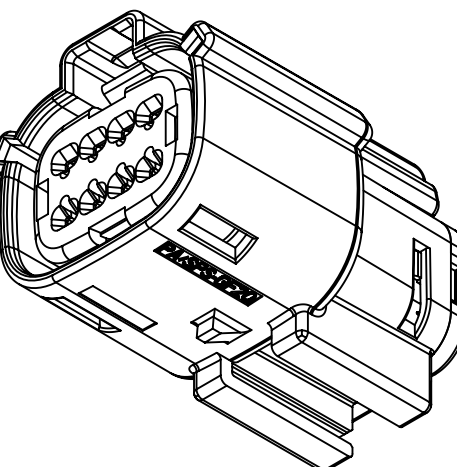
C8



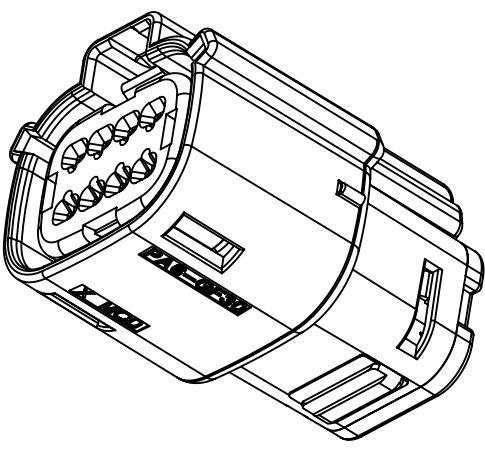
2X3 - STD. - WITH CLIPSLOT
2X3 - MID-VOLT. - WITH CLIPSLOT



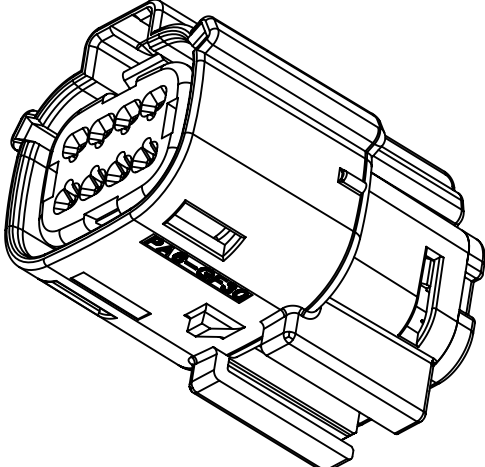
2X3 - STD.
2X3 - TRNS. - CONTAINS SILICONE



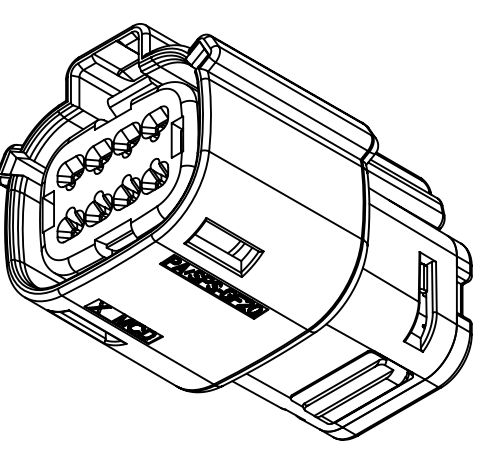
2X4 - STD. - WITH CLIPSLOT *



† 2X4 - UL V0

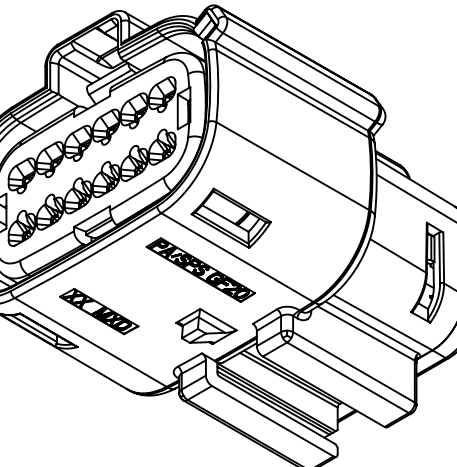


† 2X4 - UL V0-WITH CLIPSLOT*

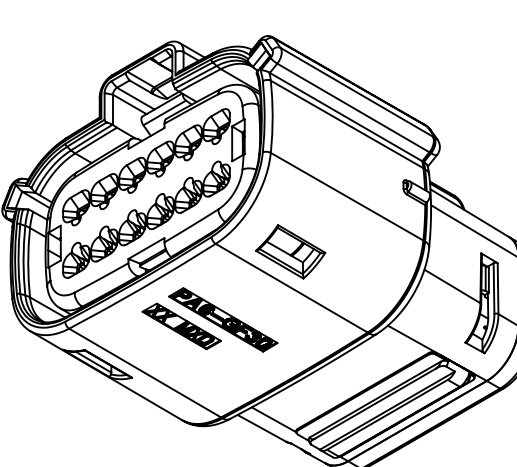


2X4 - STD.

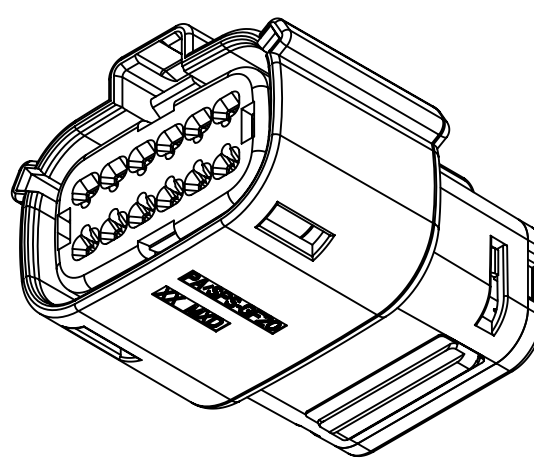
C1



† 2X6 - TRNS. - WITH CLIPSLOT *

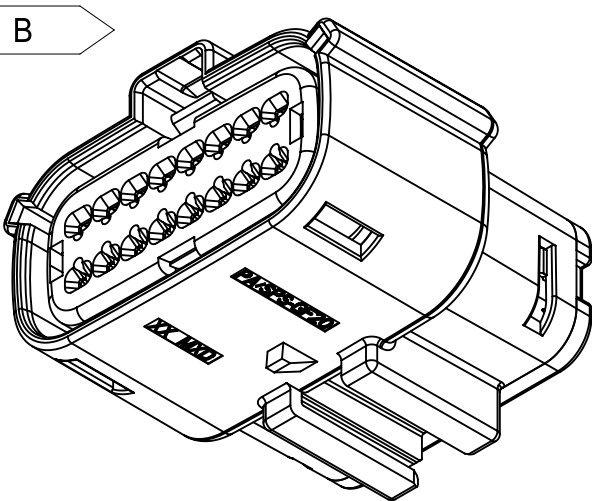


† 2X6 - UL V0

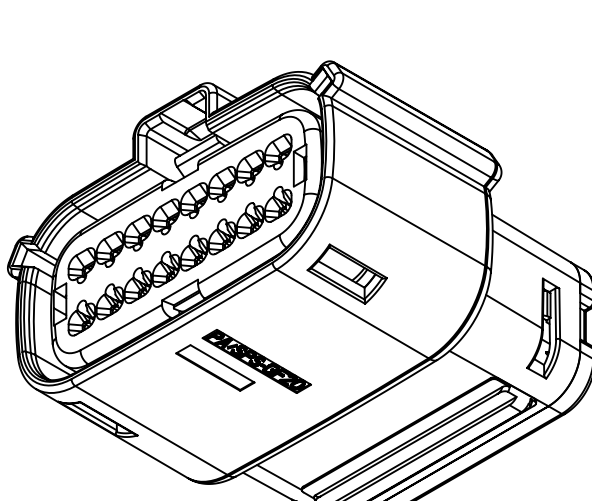


2X6 - STD.
† 2X6 - TRNS.

B

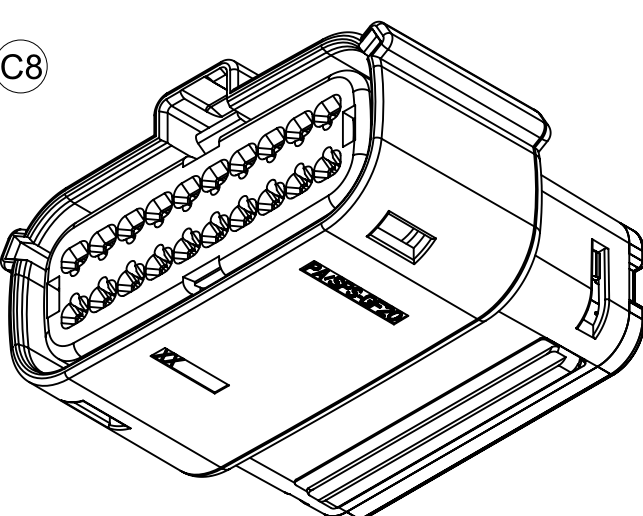


2X8 - STD. - WITH CLIPSLOT *



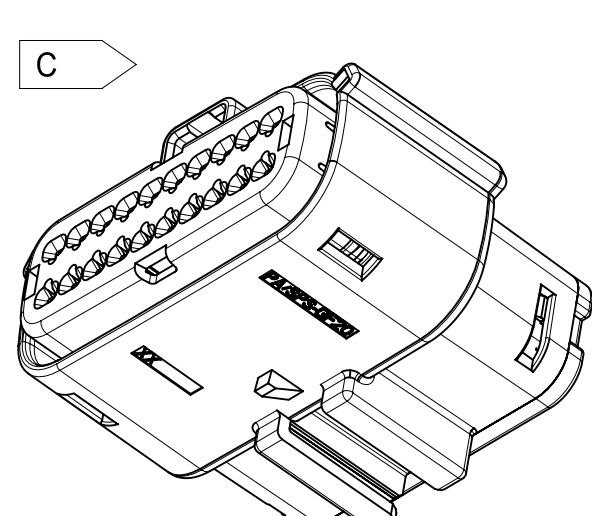
2X8 - STD.

C8

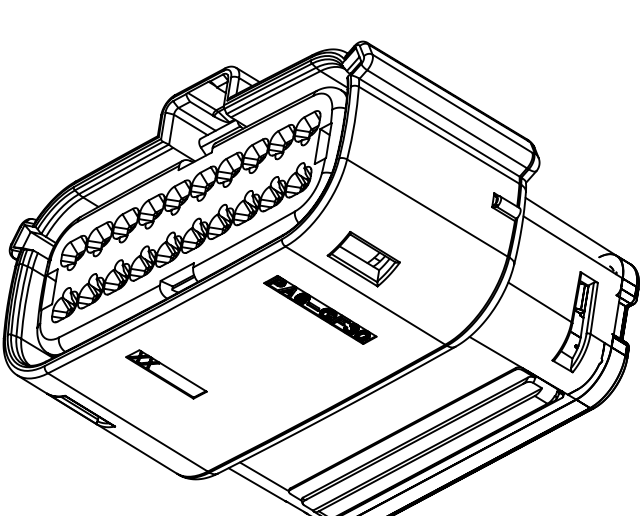


2X10 - STD.
2X10 - MID-VOLT.

C



2X10 - STD. - WITH CLIPSLOT *



† 2X10 - UL V0

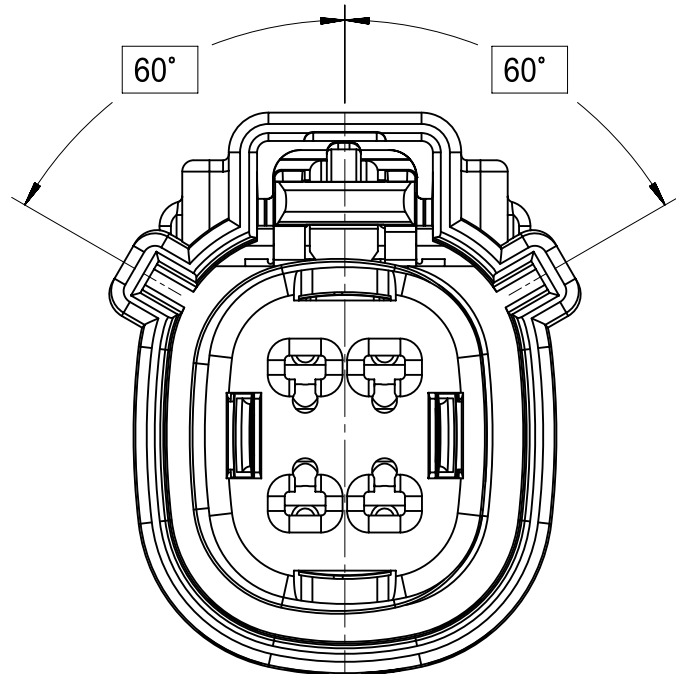
* WITH CLIPSLOT CONFIGURATION DOES NOT
MEET THE USCAR PACKAGING FRAME REQUIREMENTS
† MINOR GEOMETRY DIFFERENCE THAN STANDARD CONFIGURATION
SEE NOTES 1a & 2a-b FOR MORE INFORMATION

FUNCTIONAL SYMBOLS	THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX ELECTRONIC TECHNOLOGIES, LLC AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION										CURRENT REV DESC: SEE REVISION TABLE				molex MX150 RCPT DUAL ROW SEALED ASSEMBLY PRODUCT CUSTOMER DRAWING						
	DIMENSION UNITS		SCALE																		
	MM		1:1																		
	GENERAL TOLERANCES (UNLESS SPECIFIED)																				
	ANGULAR TOL ± 1°																				
	4 PLACES		±		STATUS: Production DRWN: Yuki Song CHK'D: Elvis Song APPR: Isong05 2025-07-16 2025-07-17 2025-07-17																
	3 PLACES		±																		
	2 PLACES		± 0.100																		
	1 PLACE		± 0.20																		
	0 PLACES		±		THIRD ANGLE PROJECTION						DRAWING		SERIES		DOCUMENT NUMBER		DOC TYPE		DOC PART		REVISION
DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS								A1-SIZE		33472		SD-33472-0001		PSD		001		C11			
												MATERIAL NUMBER		CUSTOMER		SHEET NUMBER					
														GENERAL MARKET		2 OF 11					

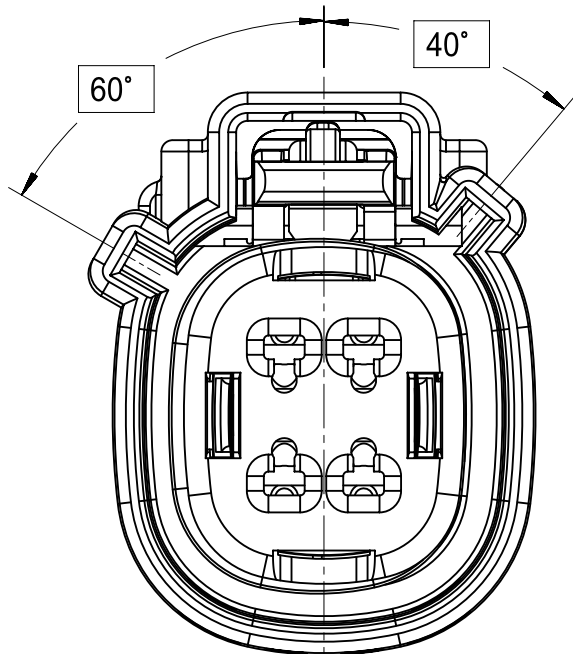
SHEET DESCRIPTION

KEY CONFIGURATIONS

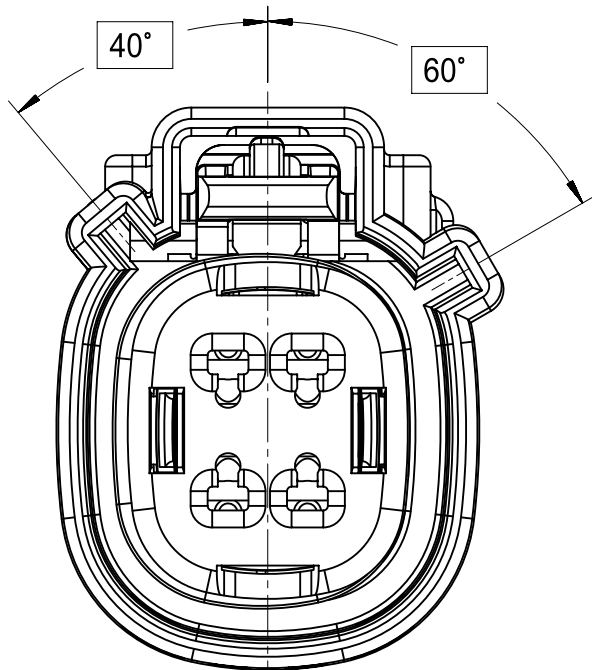
2X2



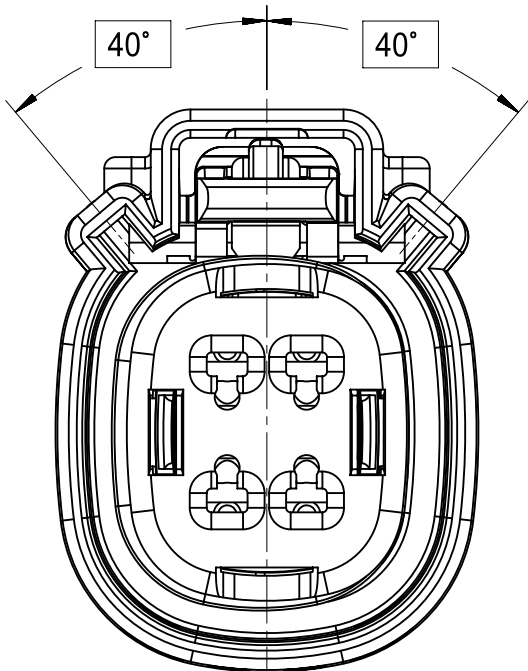
KEY A



KEY B

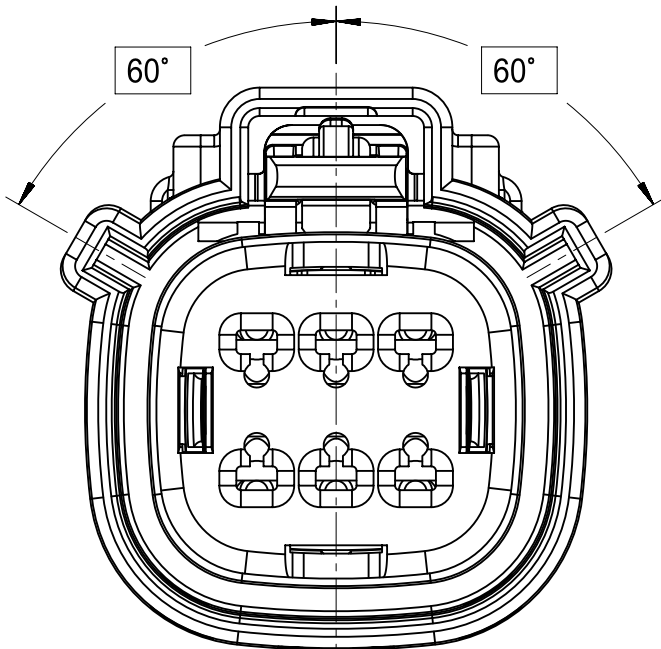


KEY C

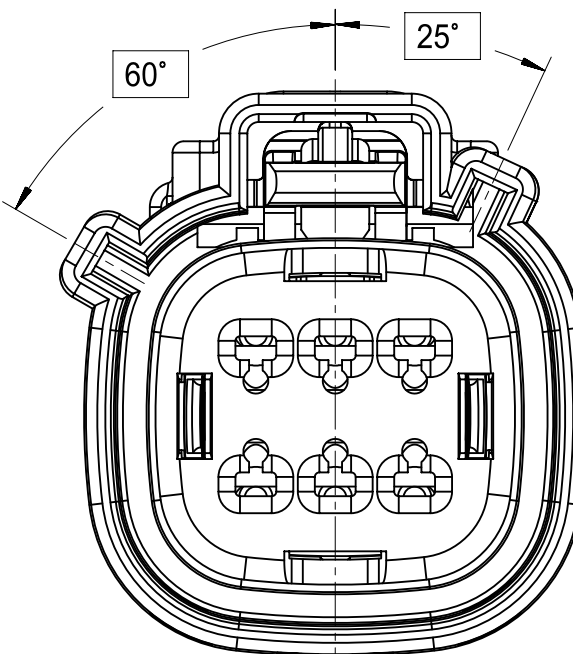


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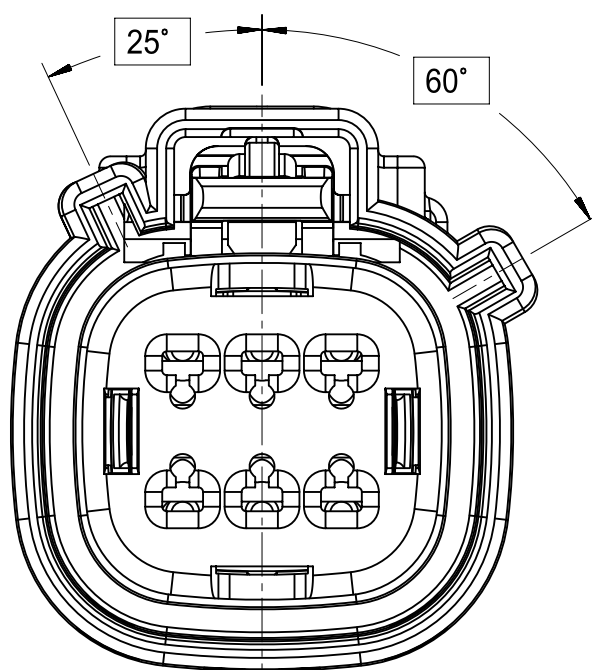
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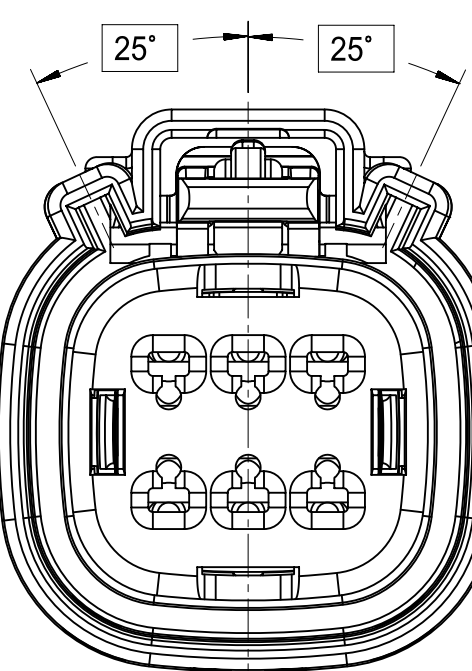
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KEY B

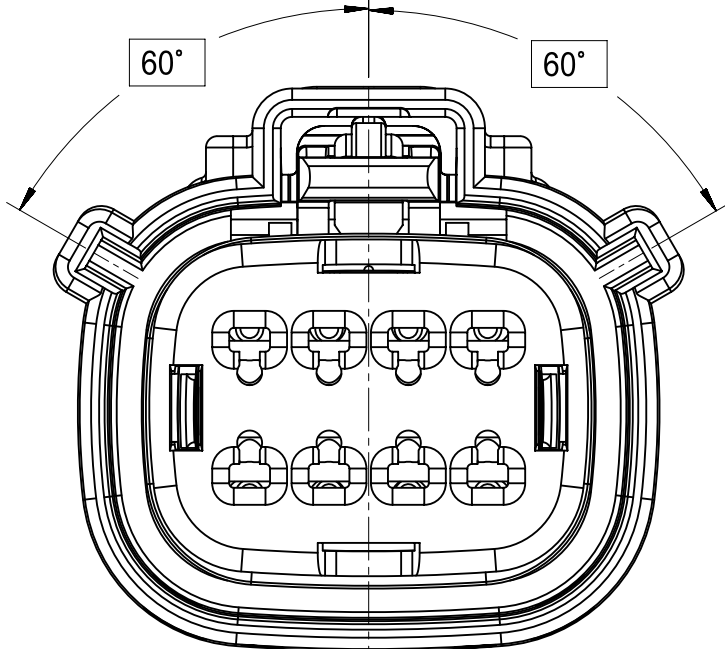


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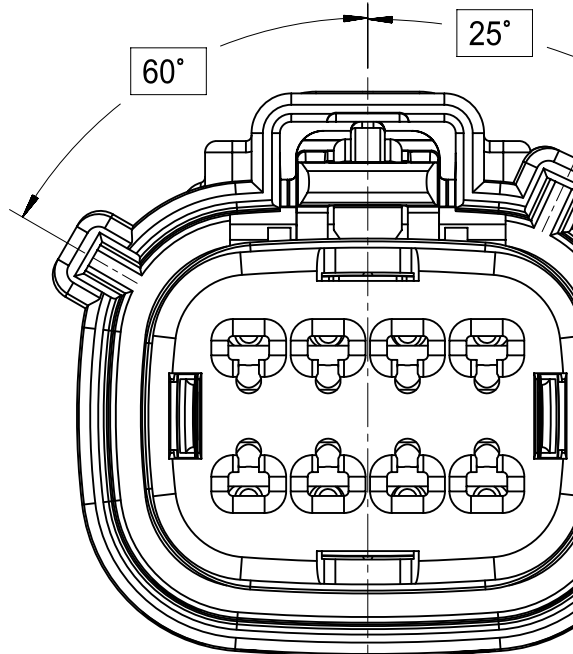


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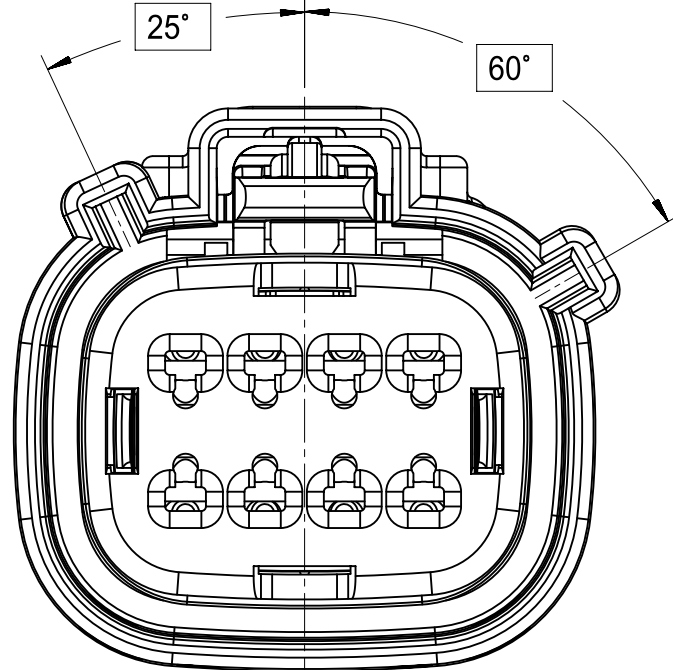
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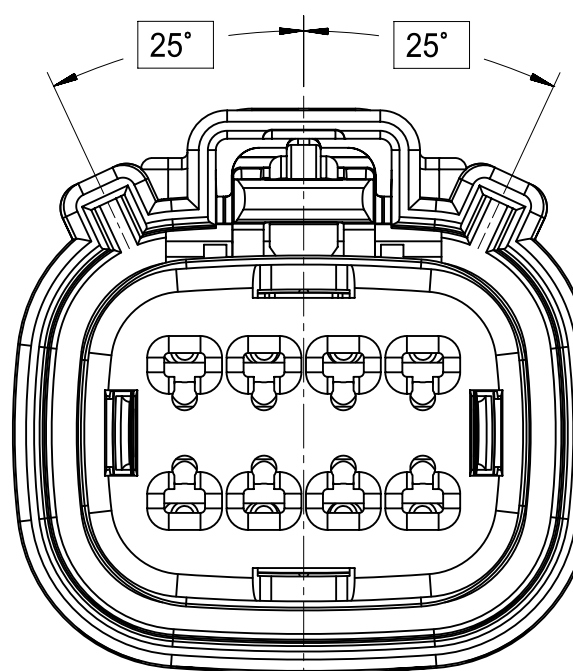
KEY A



KEY B



KEY C



KEY D

FUNCTIONAL SYMBOLS $\frac{F}{A}$ = 0 $\frac{F}{C}$ = 0 $\frac{F}{D}$ = 0
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DIVISIONAL SYMBOLS

molex

MX150 RCPT
DUAL ROW SEALED ASSEMBLY

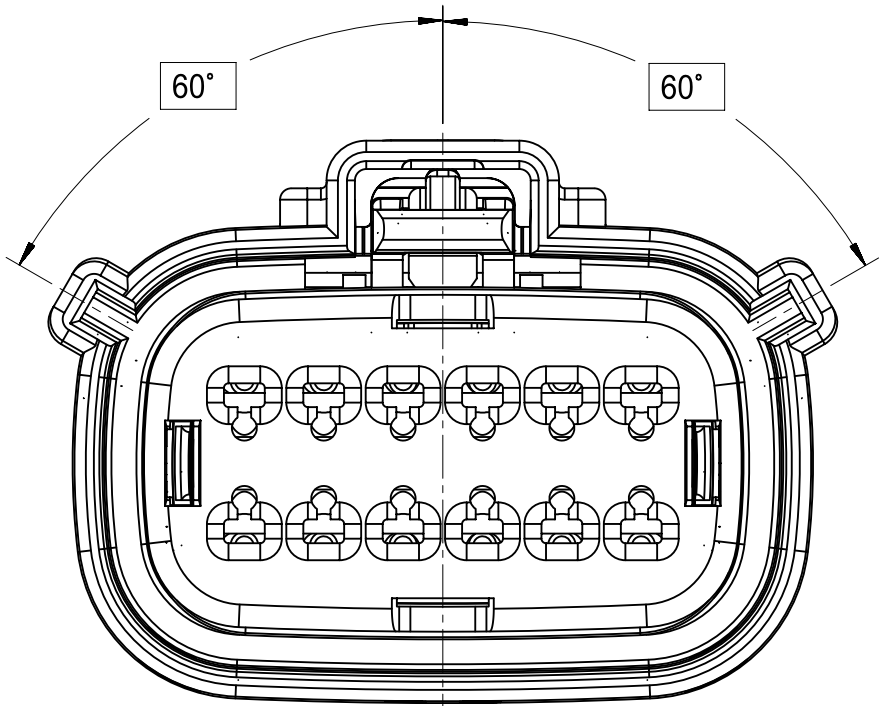
PRODUCT CUSTOMER DRAWING

DOC TYPE	DOC PART	REVISION
PSD	001	C11

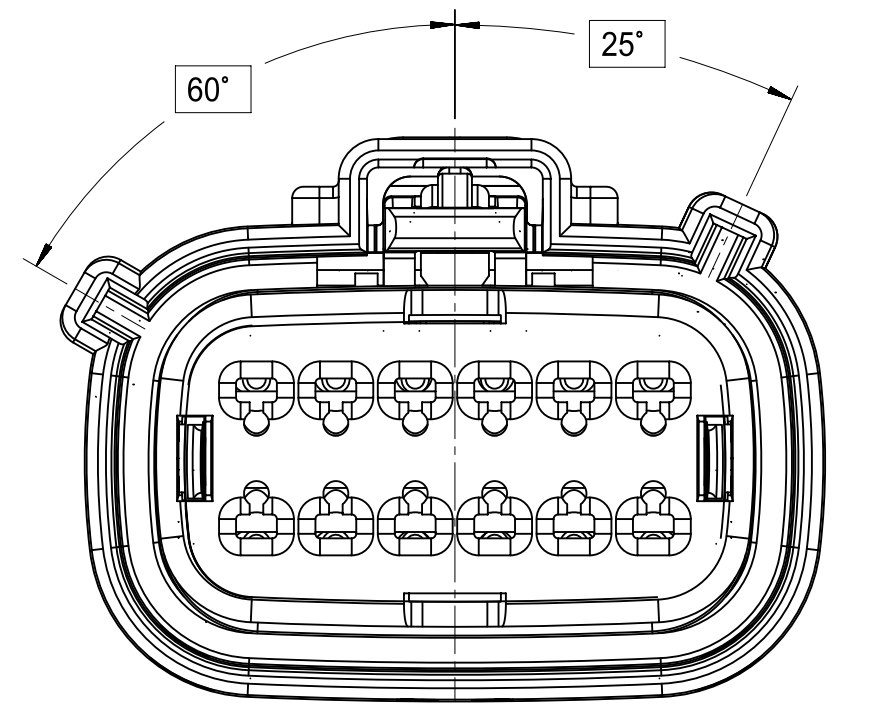
MATERIAL NUMBER	CUSTOMER	SHEET NUMBER
	GENERAL MARKET	3 OF 11

KEY CONFIGURATIONS CONT.

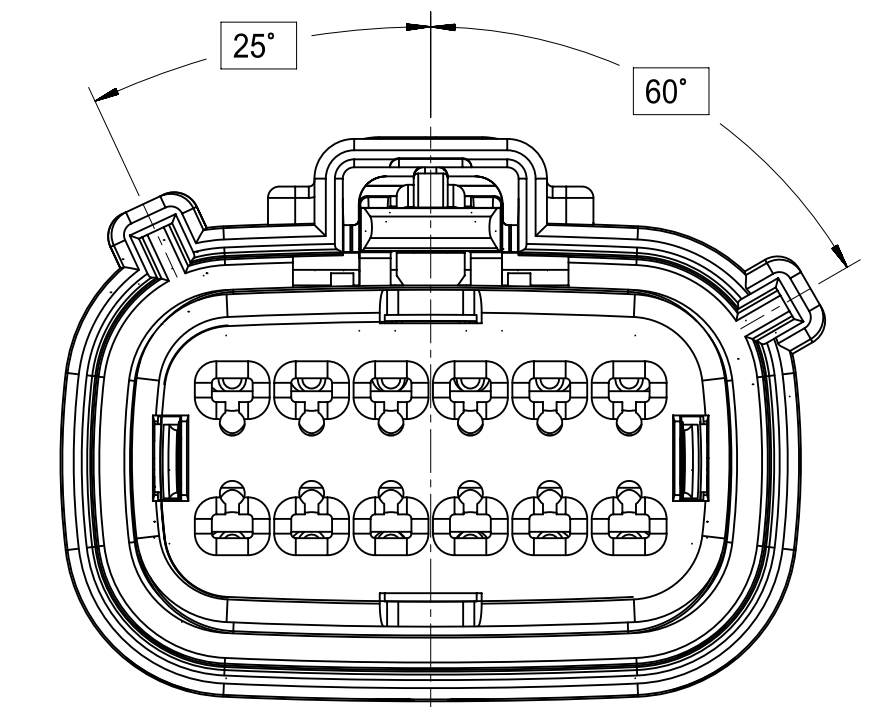
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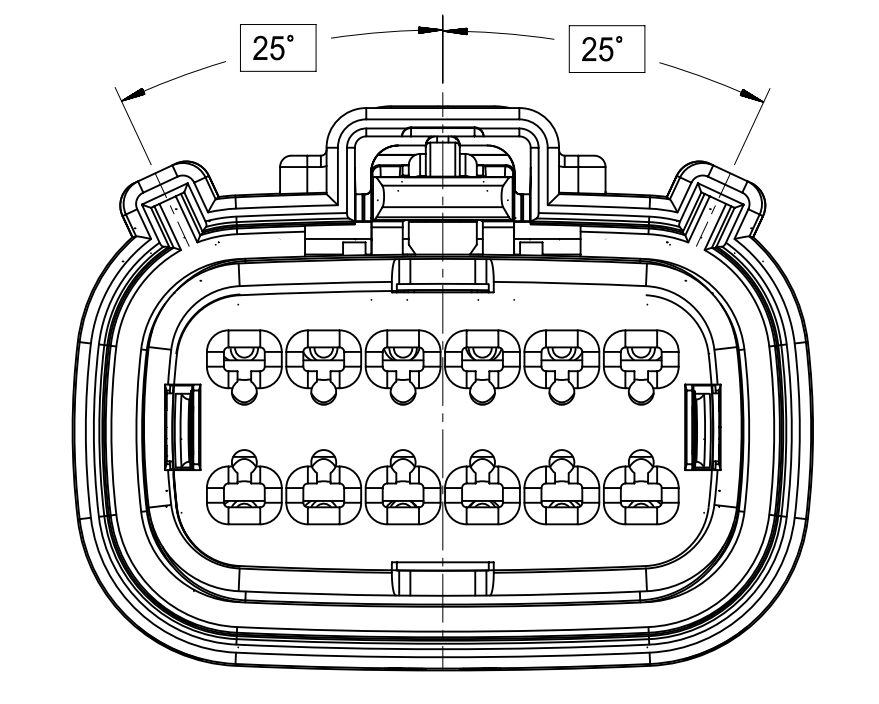
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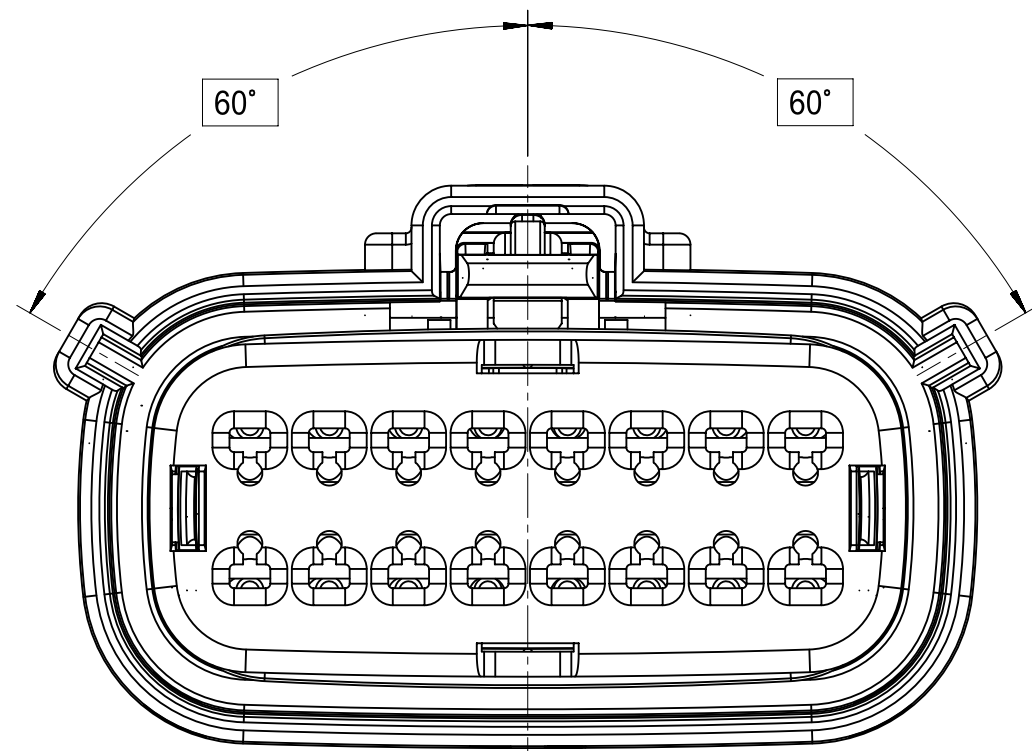
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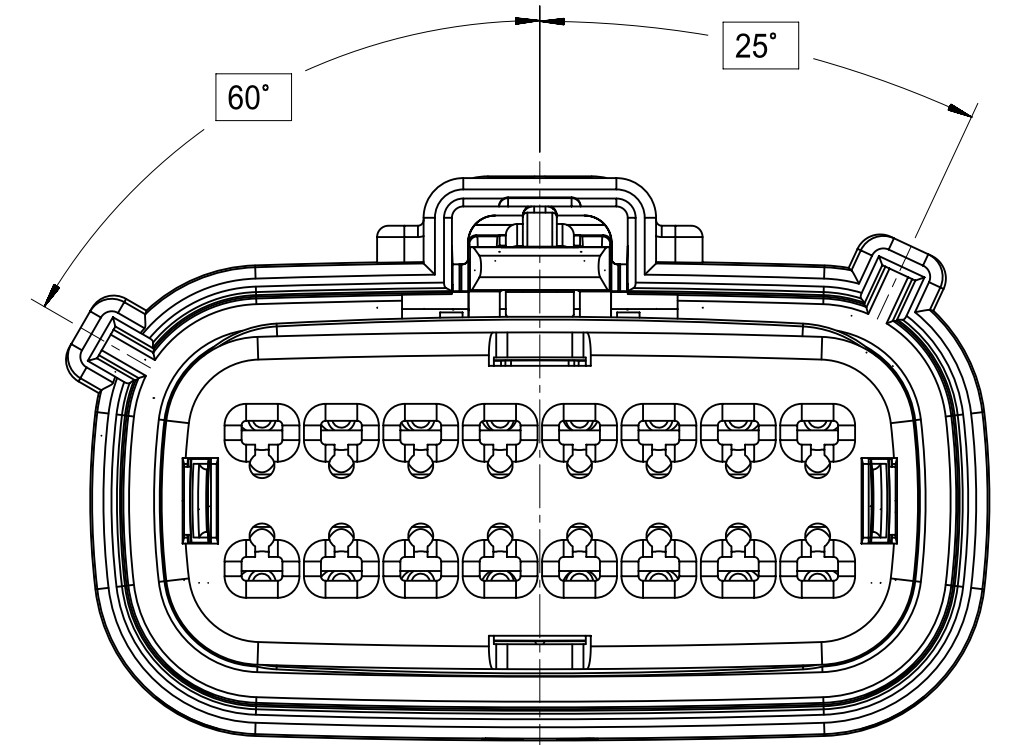
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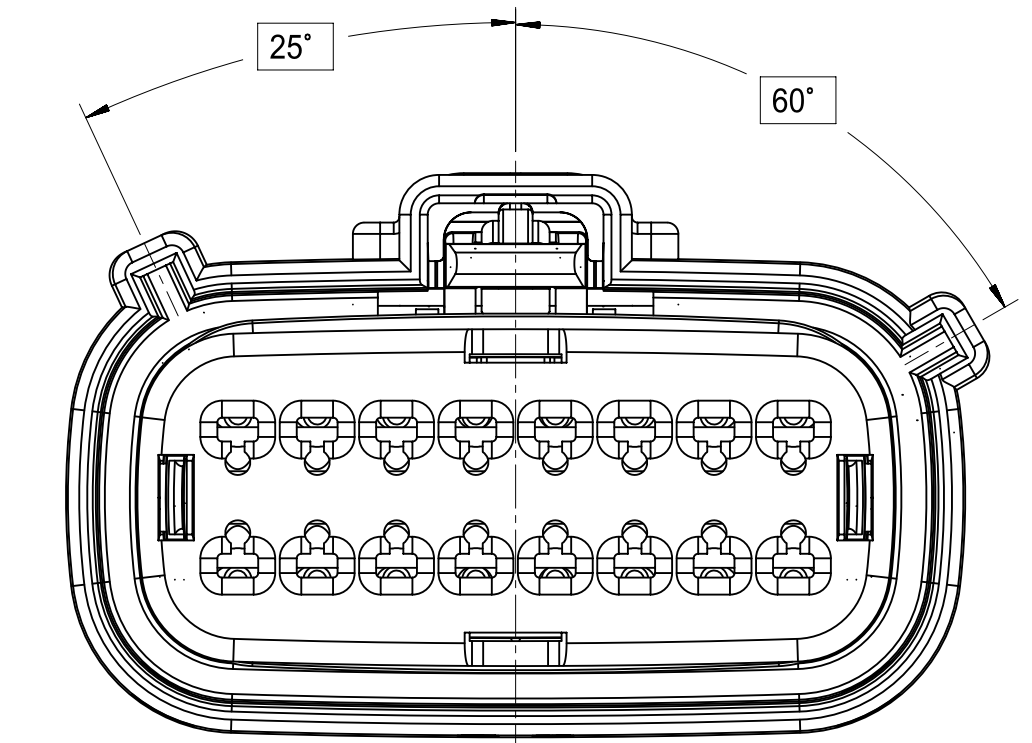
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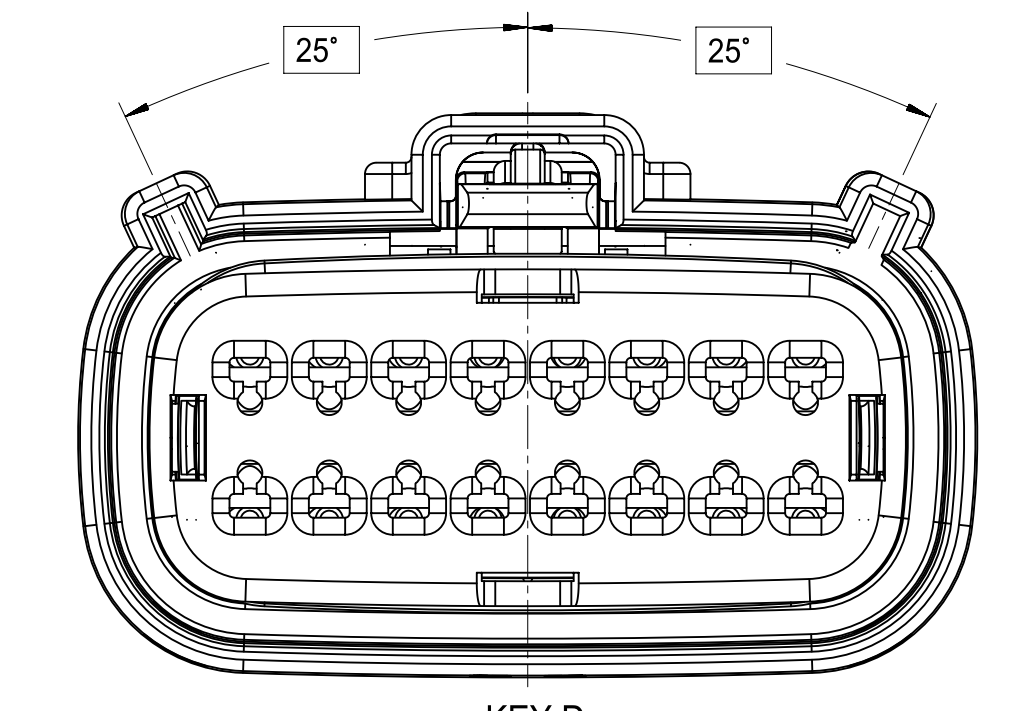
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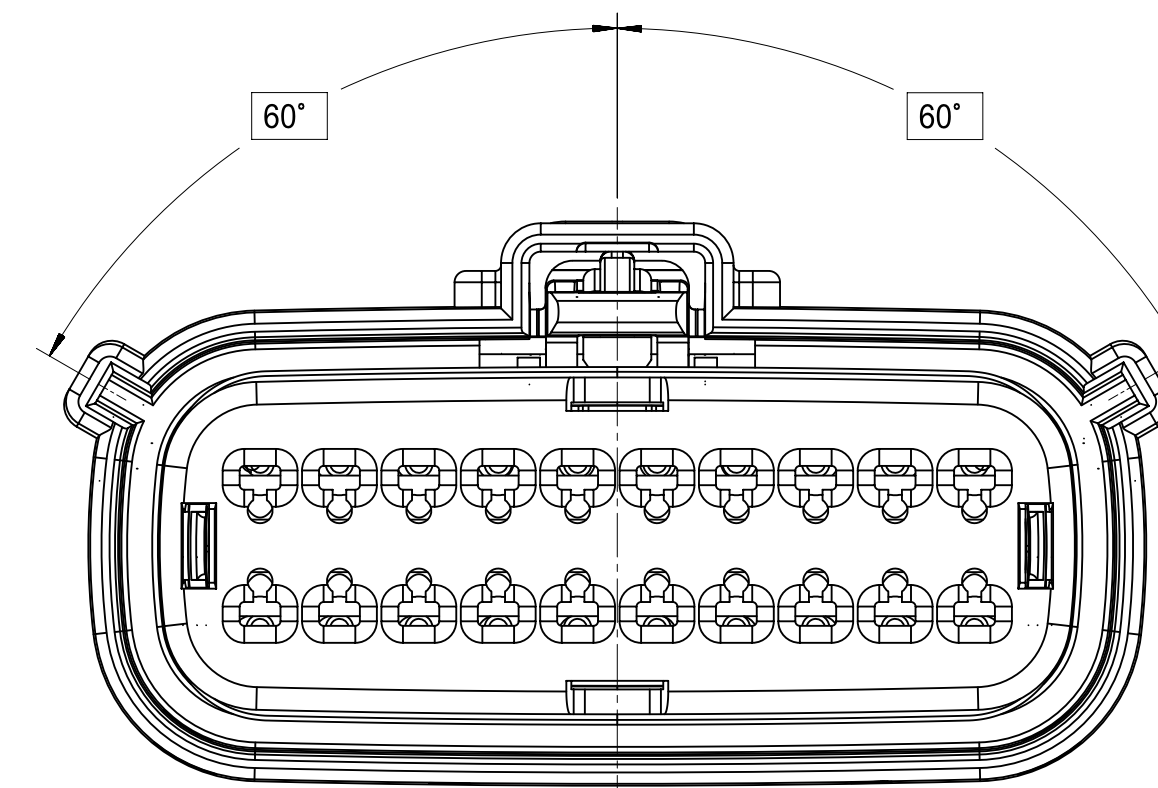
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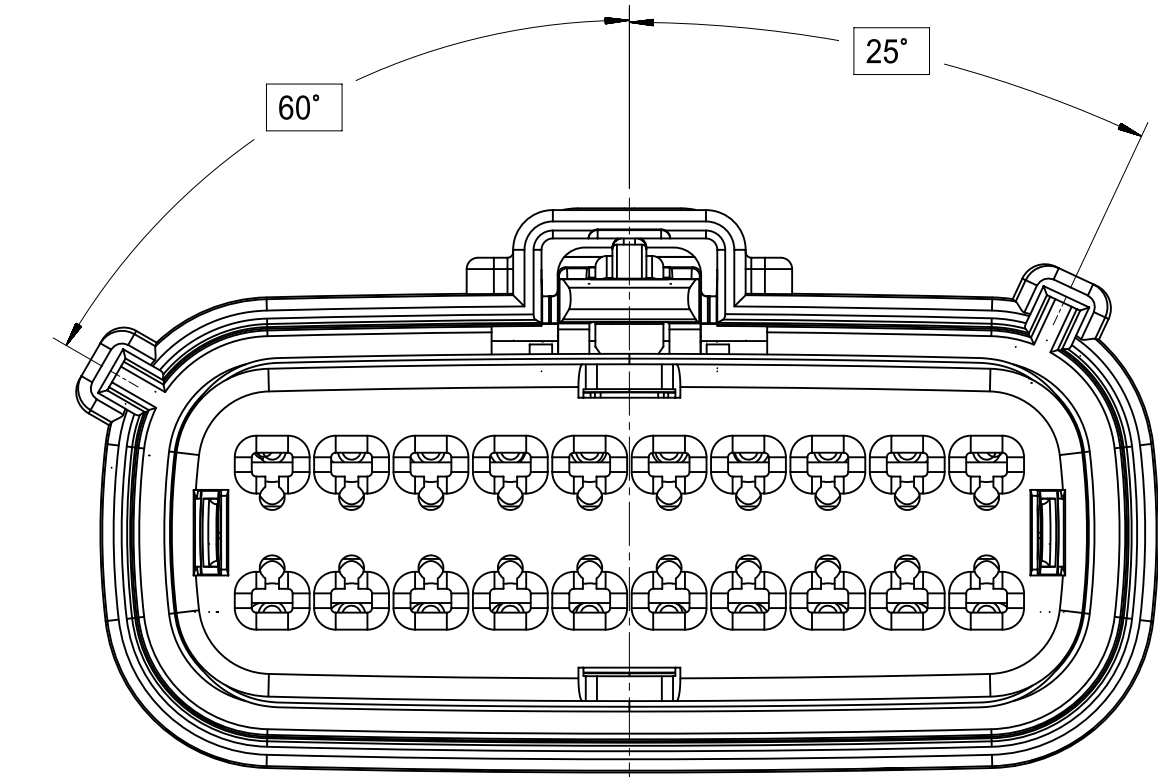
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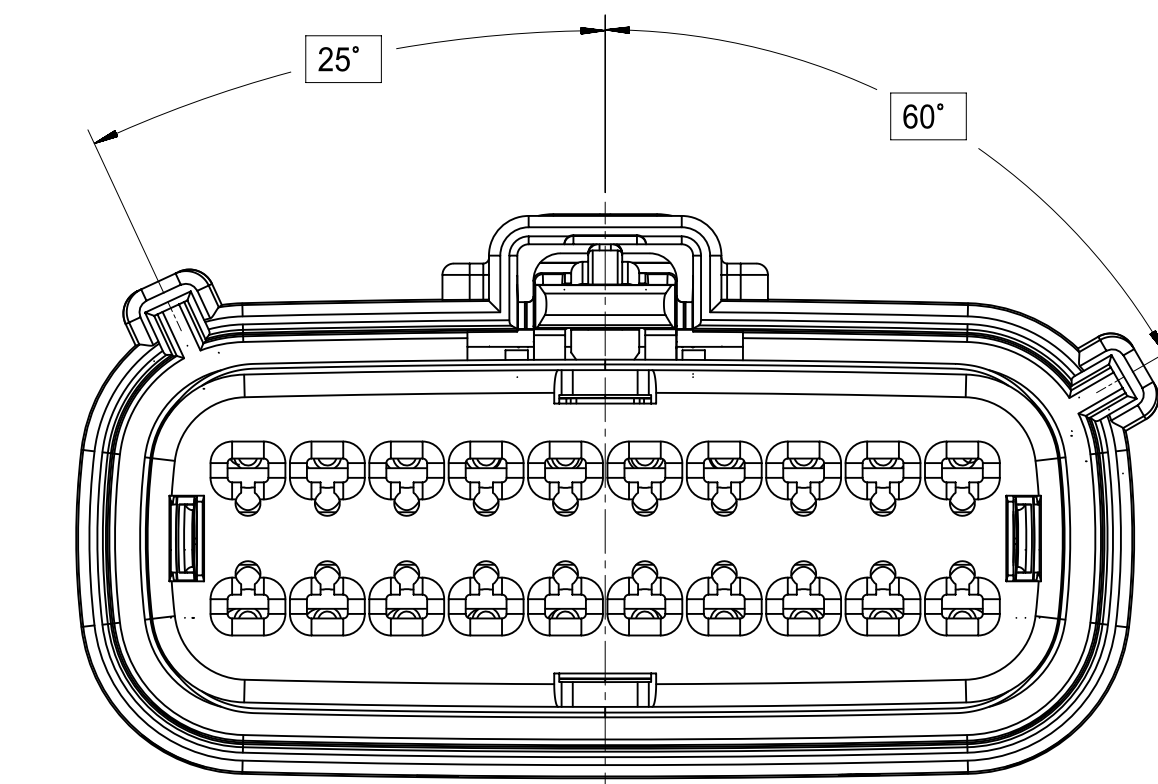
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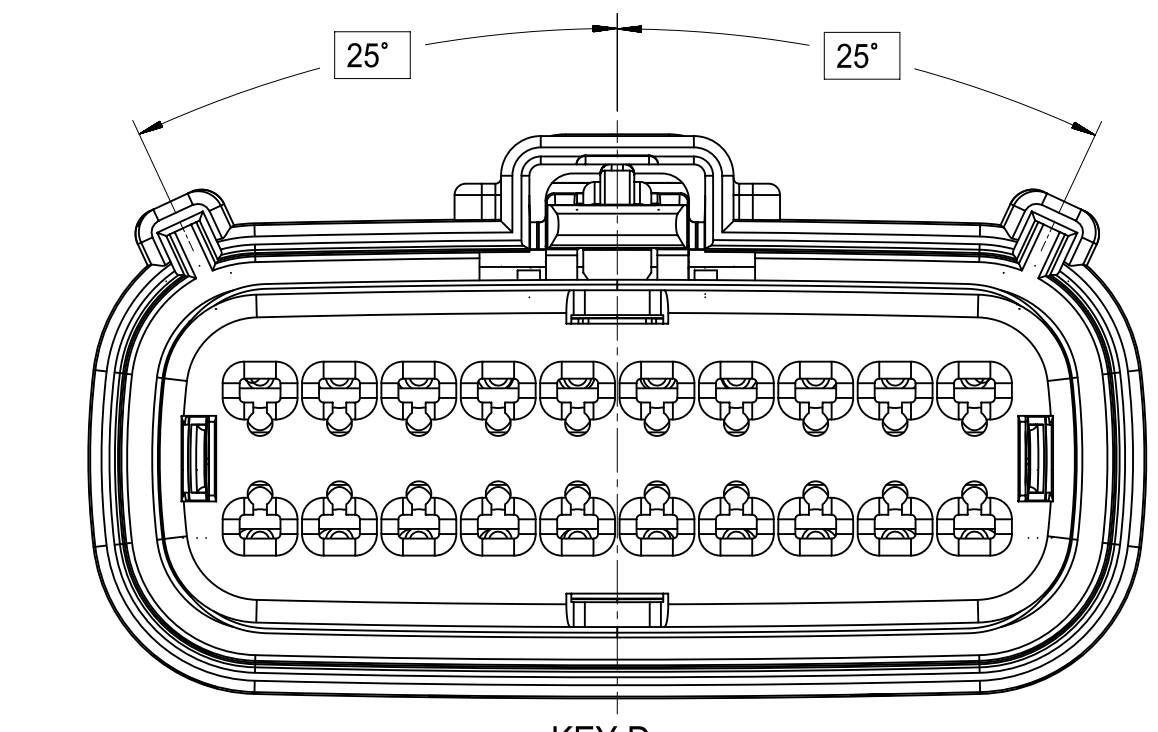
KEY :



KEY



KEY C

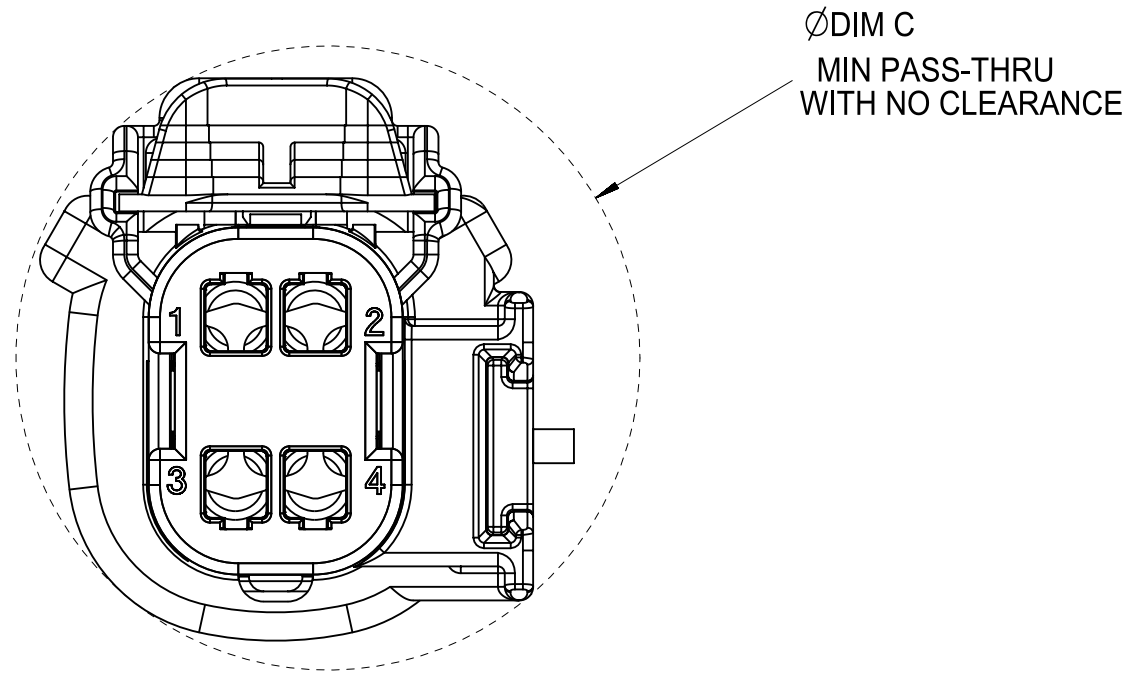
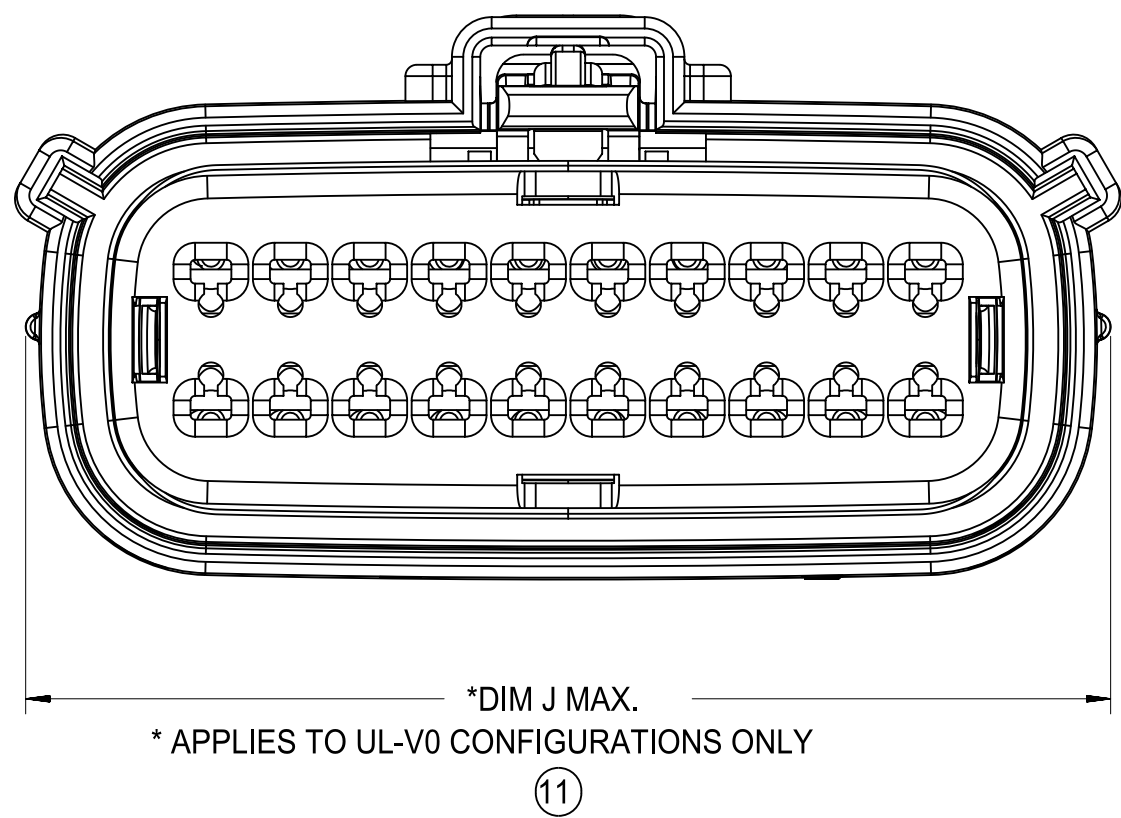


KEY D

FUNCTIONAL SYMBOLS										THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX ELECTRONIC TECHNOLOGIES, LLC AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION									
= 0		DIMENSION UNITS		SCALE		CURRENT REV DESC: SEE REVISION TABLE													
= 0		MM		1:1		molex MX150 RCPT DUAL ROW SEALED ASSEMBLY PRODUCT CUSTOMER DRAWING DOCUMENT NUMBER SD-33472-0001 DWG TYPE PSD DWG PART 001 REVISION C11 MATERIAL NUMBER CUSTOMER GENERAL MARKET SHEET NUMBER 4 OF 11													
= 0		GENERAL TOLERANCES (UNLESS SPECIFIED)																	
= 0		ANGULAR TOL ± 1°																	
DIVISIONAL SYMBOLS		4 PLACES		±															
		3 PLACES		±															
		2 PLACES		± 0.100															
		1 PLACE		± 0.20															
		0 PLACES		±															
DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS				THIRD ANGLE PROJECTION		DRAWING		SERIES		2025-07-16		2025-07-17		2025-07-17					
						A1-SIZE		33472											

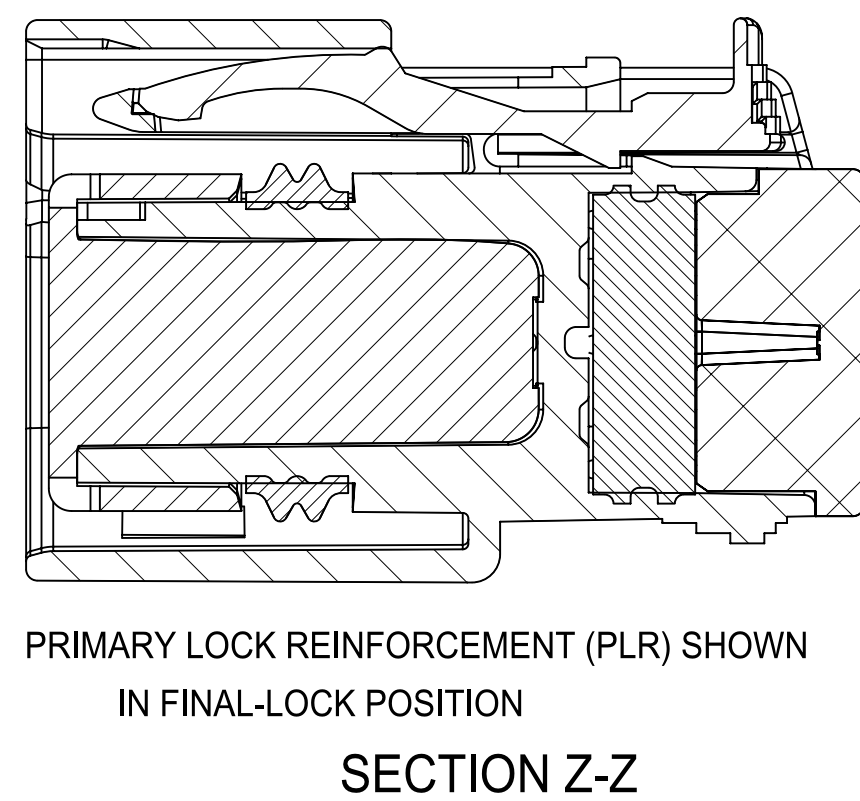
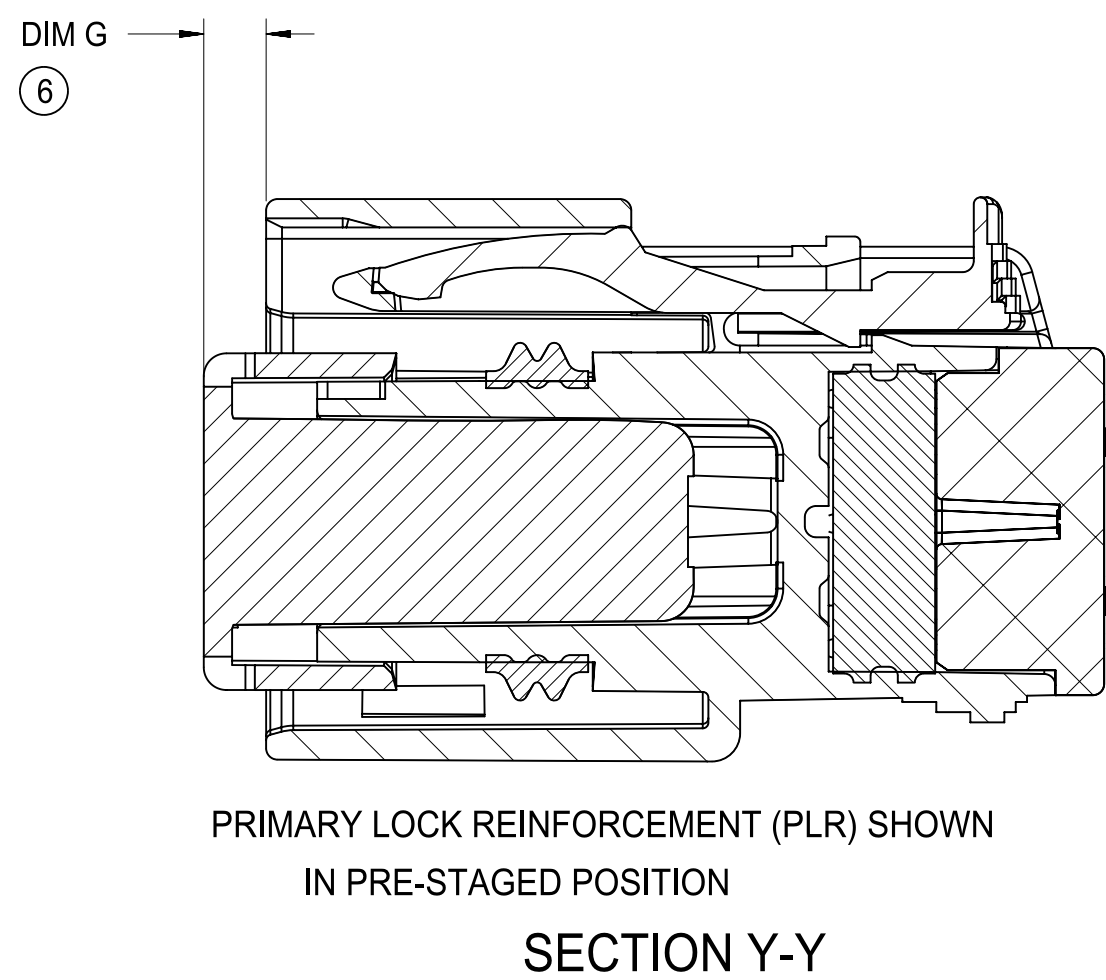
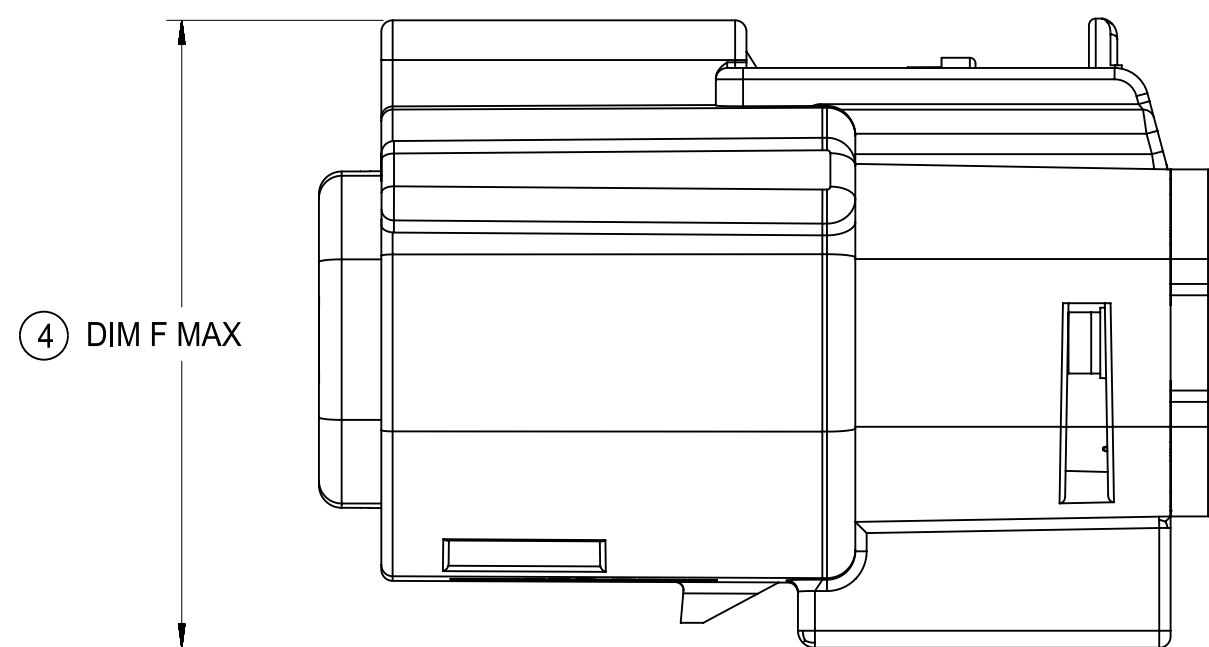
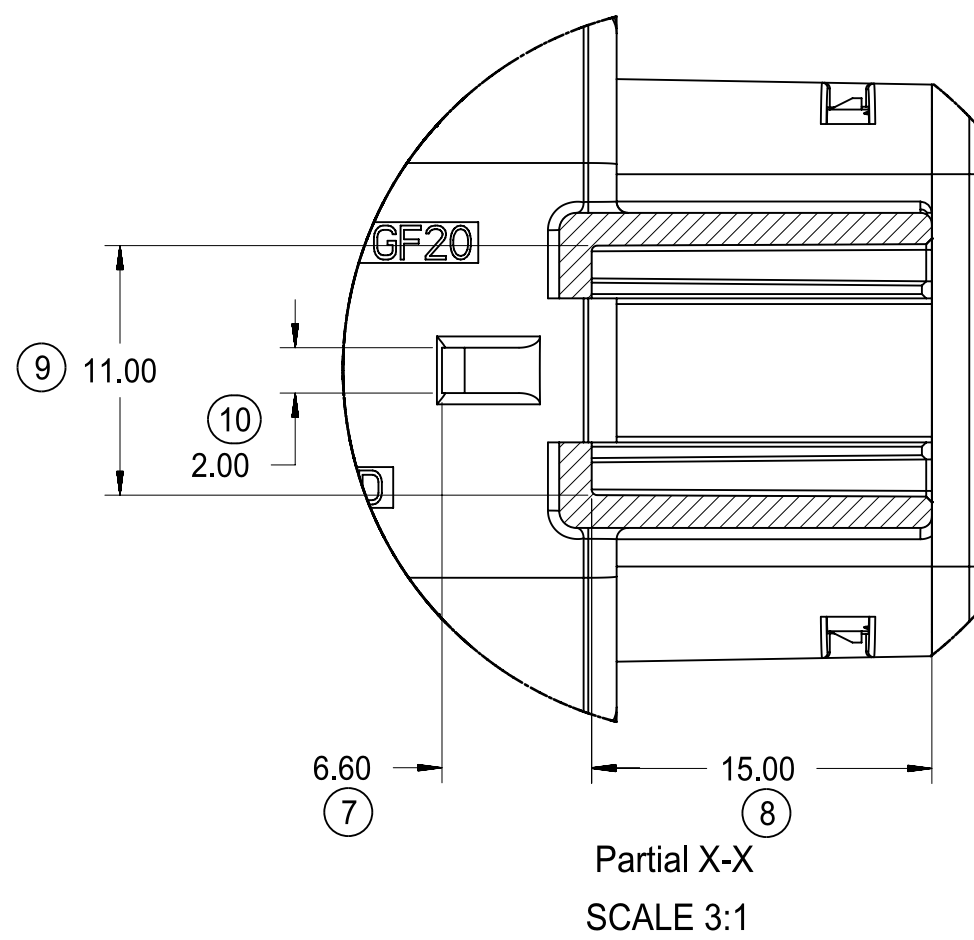
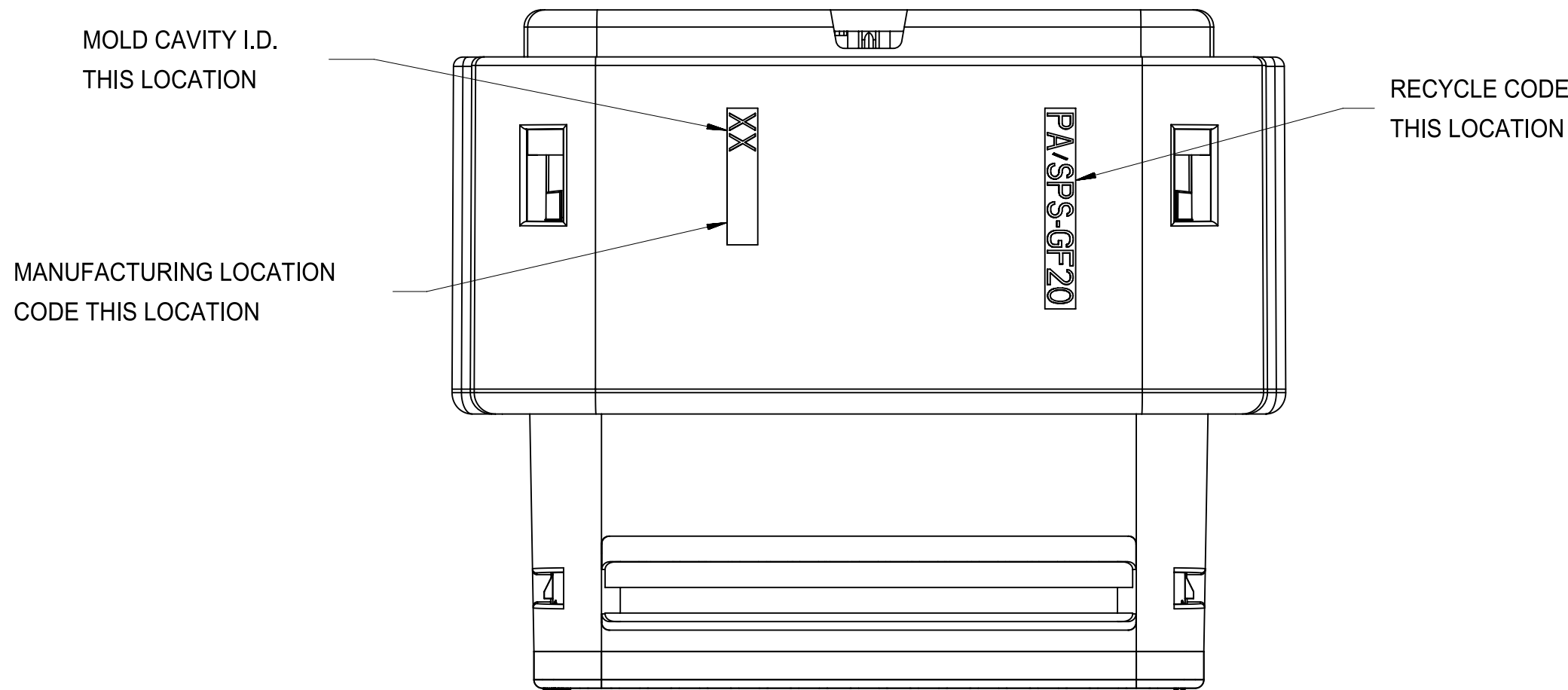
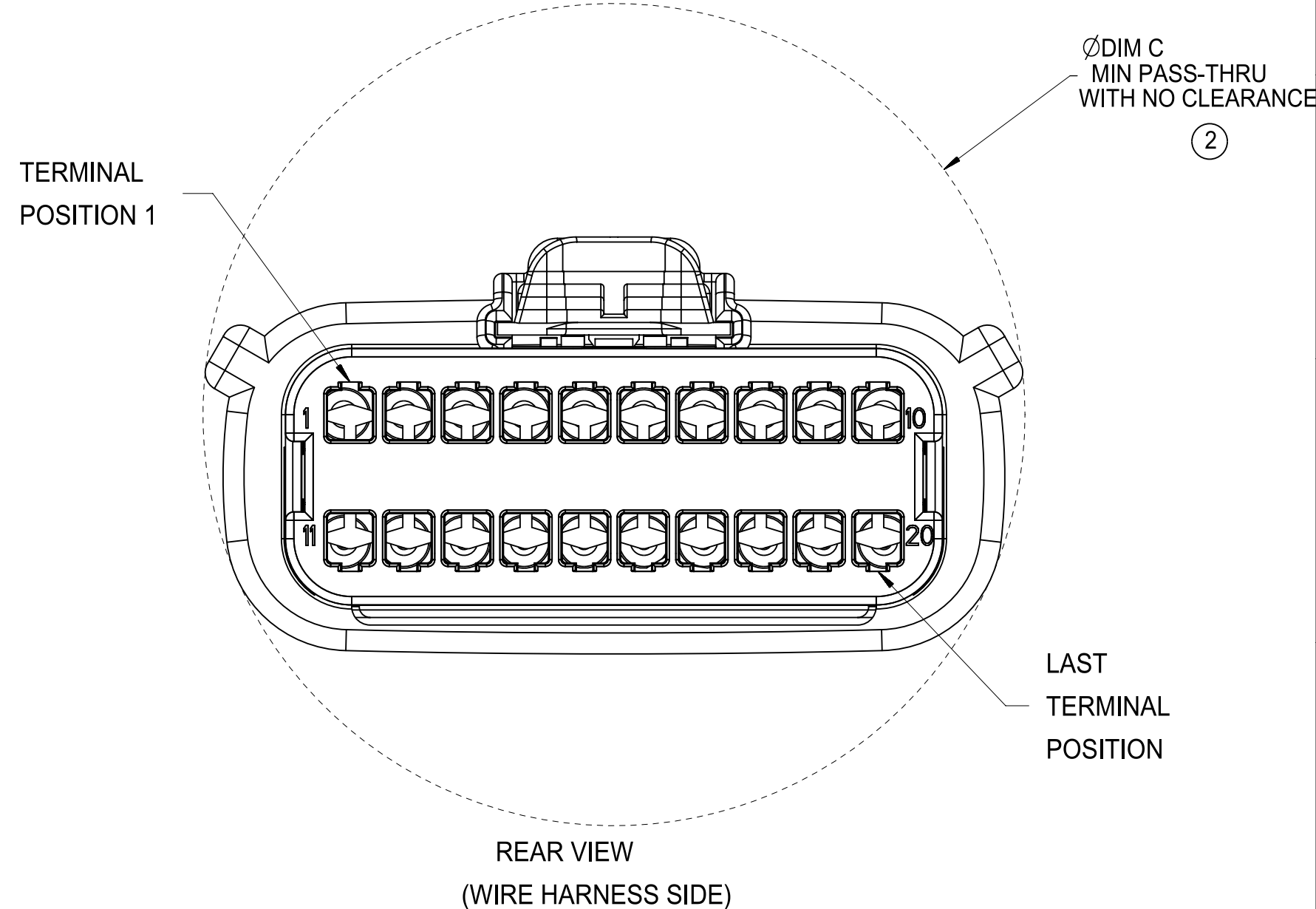
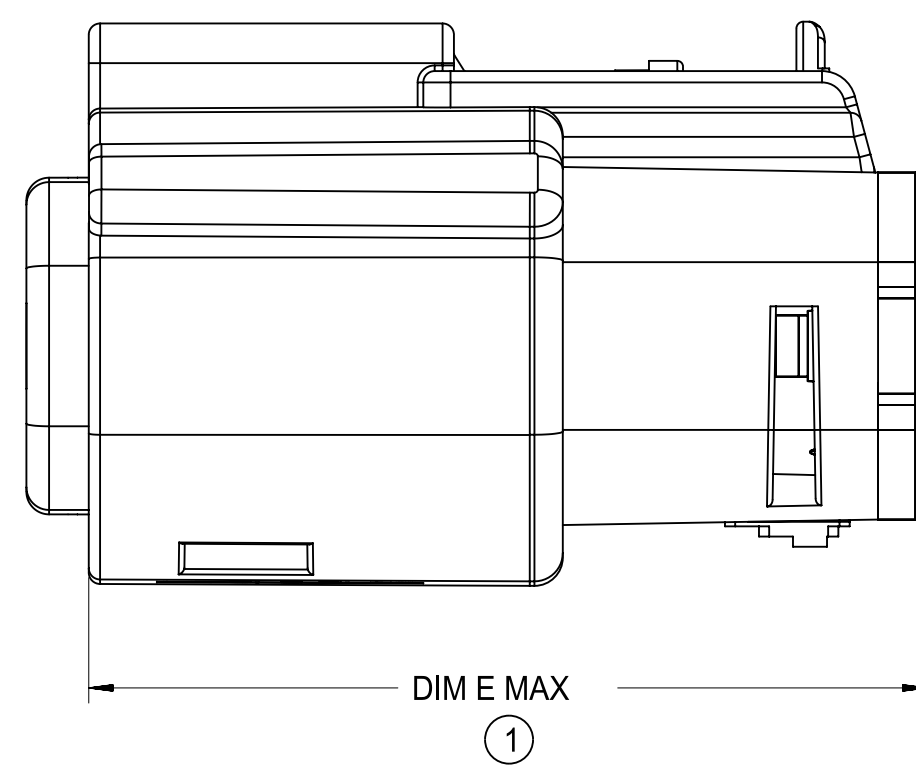
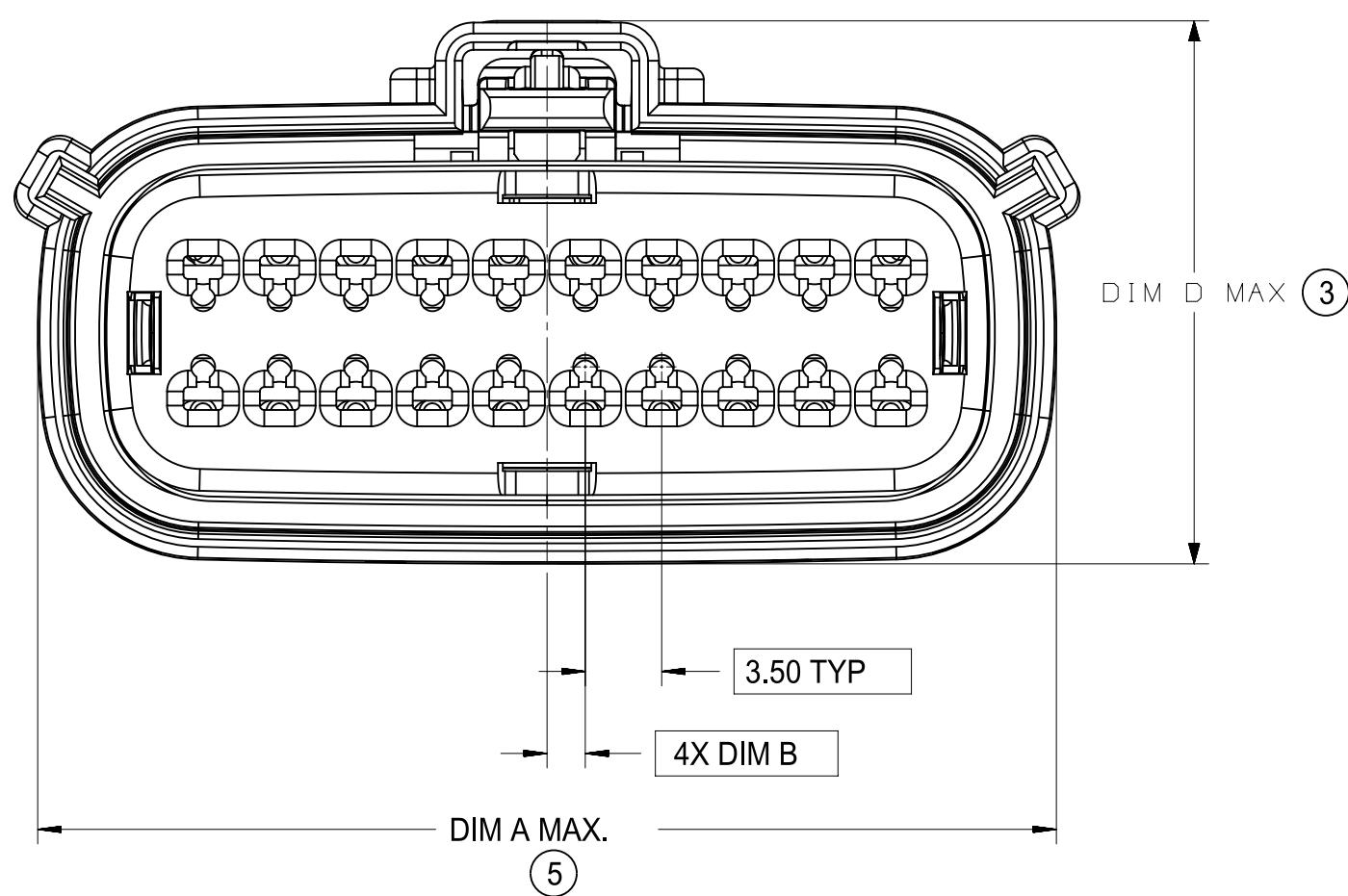
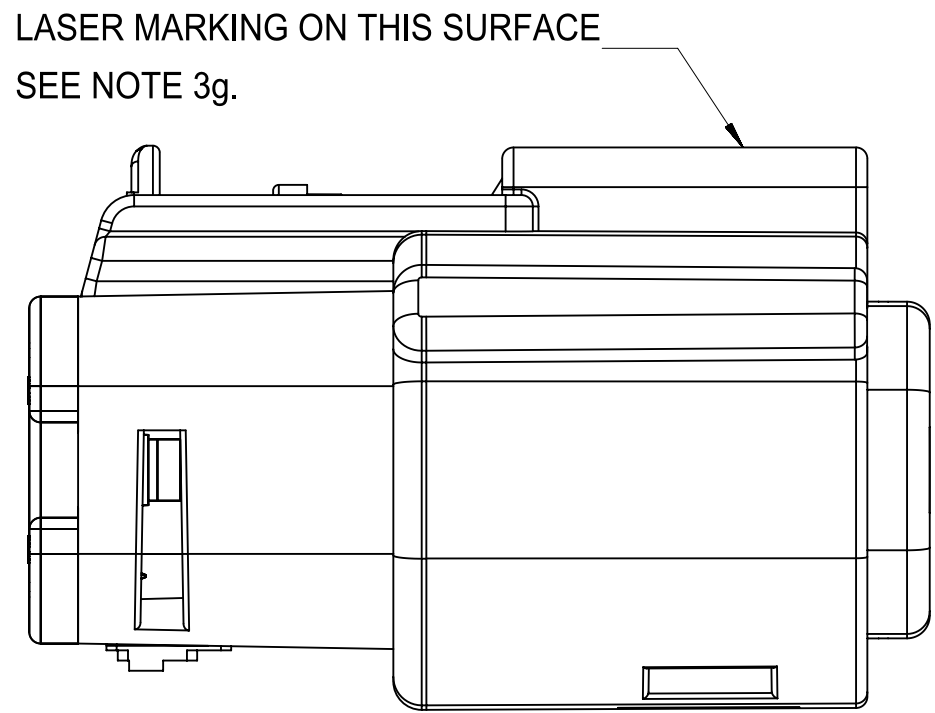
SHEET DESCRIPTION

RECEPTACLE CONNECTOR ASSEMBLY



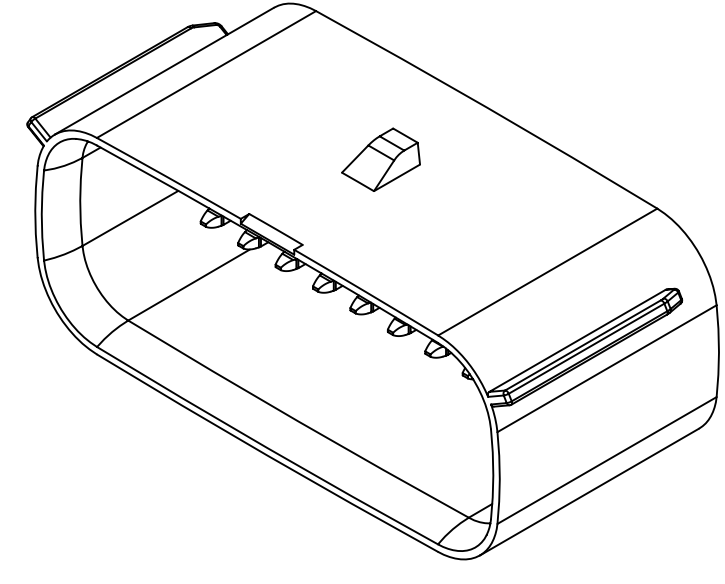
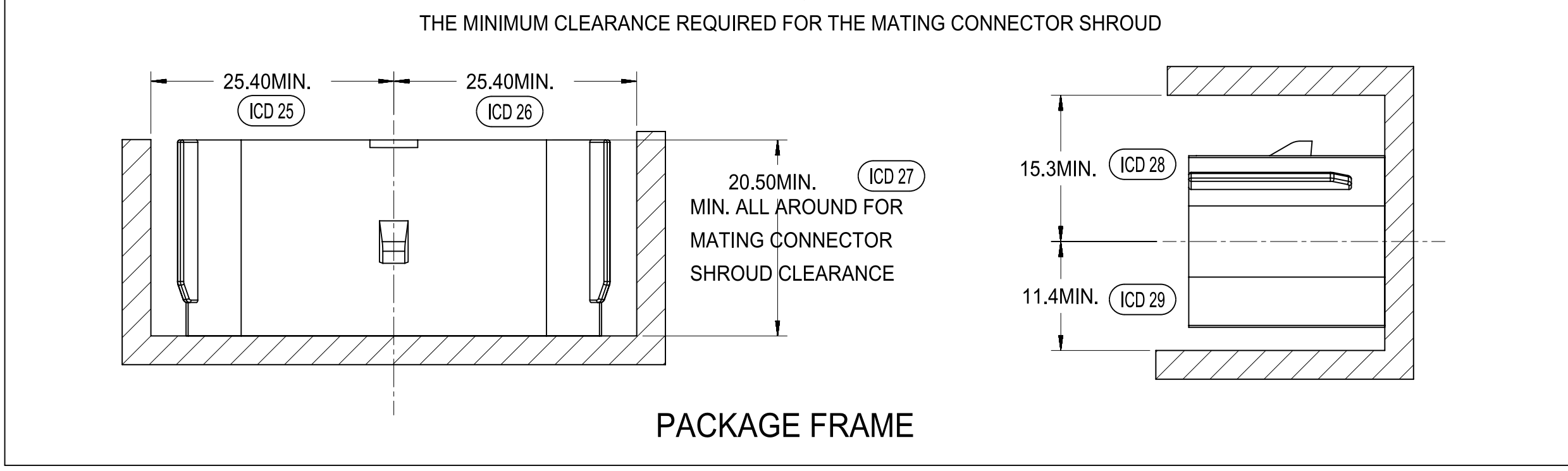
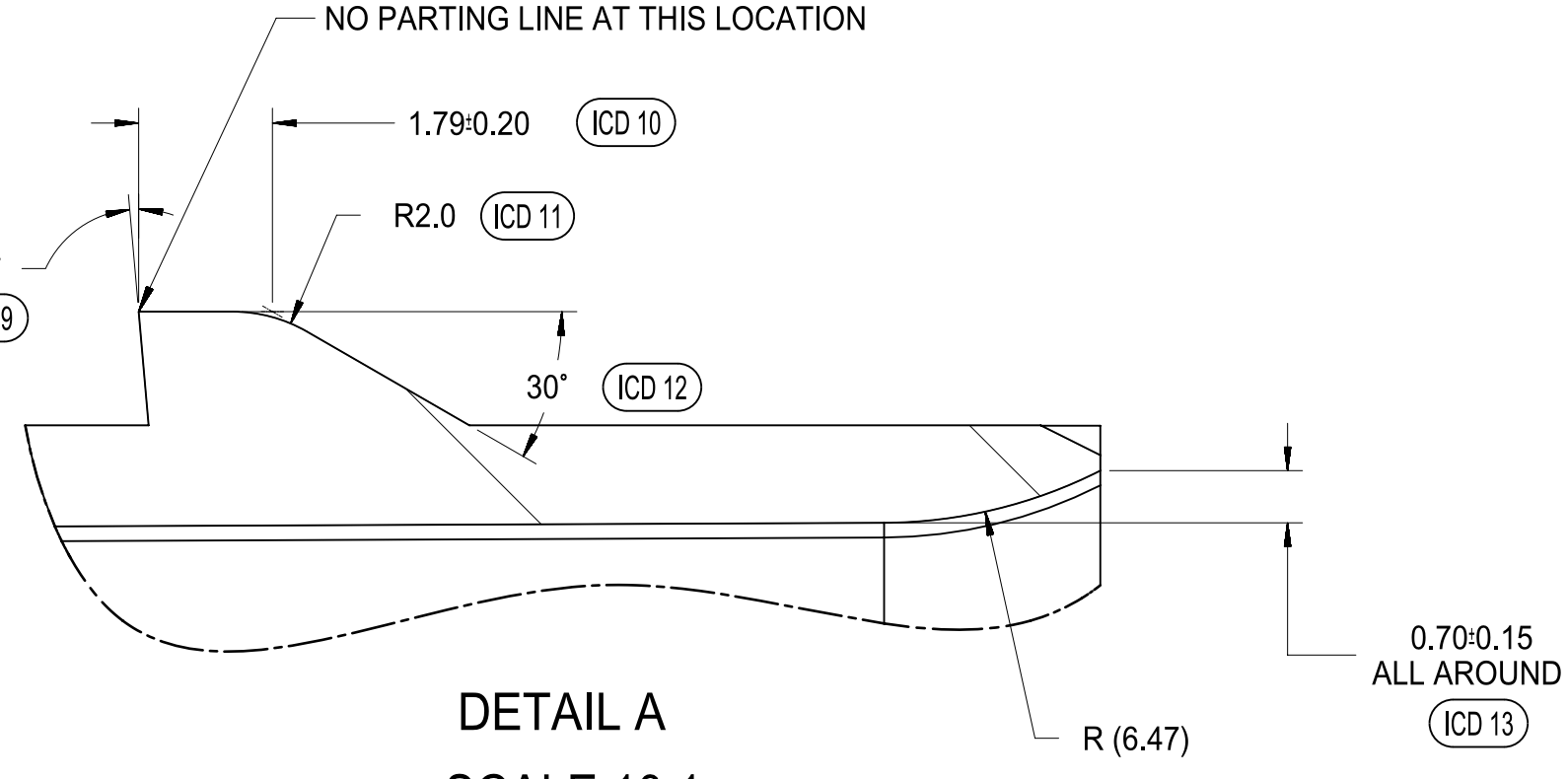
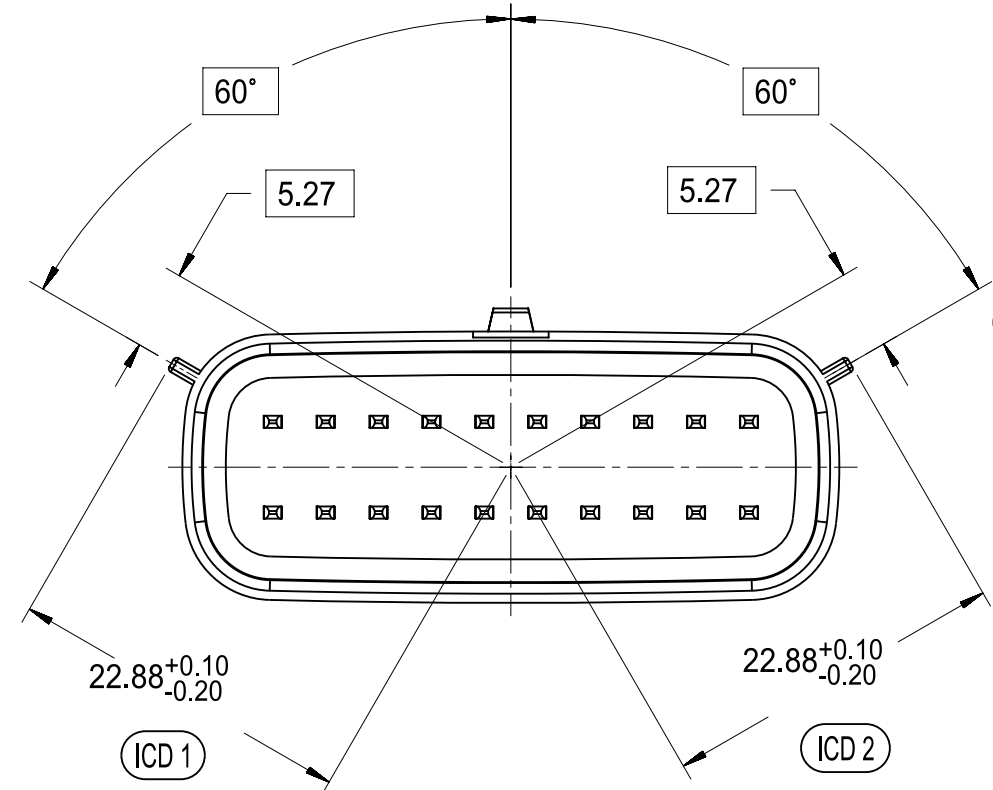
B APPLIES TO 2X2 - STD. - WITH CLIPSLOT ONLY

CHARTED DIMENSIONS								
DESCRIPTION	DIMENSIONS							
	A	B	C	D	E	F	G	J
2X2 W/O CLIPSLOT	18.75	1.75	25.45	24.90	37.65	N/A	2.75±0.50	
2X2 W/ CLIPSLOT	18.75	1.75	27.65	24.90	37.65	N/A	2.75±0.50	
2X2 LENGTHENED	18.75	1.75	25.45	24.90	42.25	N/A	2.75±0.50	20.04
2X3 W/ CLIPSLOT	22.25	3.5	30.50	N/A	37.65	27.96	4.0±0.4	
2X3 W/O CLIPSLOT	22.25	3.5	26.24	24.90	37.65	N/A	4.0±0.4	
2X4 W/ CLIPSLOT	25.75	1.75	31.50	N/A	37.65	28.00	2.75±0.50	27.04
2X4 W/O CLIPSLOT	25.75	1.75	29.19	24.90	37.65	N/A	2.75±0.50	27.04
2X6 W/ CLIPSLOT	32.75	1.75	35.58	N/A	37.65	27.76	2.75±0.50	
2X6 W/O CLIPSLOT	32.75	1.75	35.58	24.90	37.65	N/A	2.75±0.50	34.04
2X8 W/O CLIPSLOT	39.80	1.75	42.25	24.90	37.65	N/A	4.0±0.4	
2X8 W/ CLIPSLOT	39.80	1.75	42.25	N/A	37.65	27.80	4.0±0.4	
2X10 W/O CLIPSLOT	46.75	1.75	49.95	24.90	37.65	N/A	2.75±0.50	48.04
2X10 W/ CLIPSLOT	46.75	1.75	49.95	N/A	37.65	27.80	2.75±0.50	



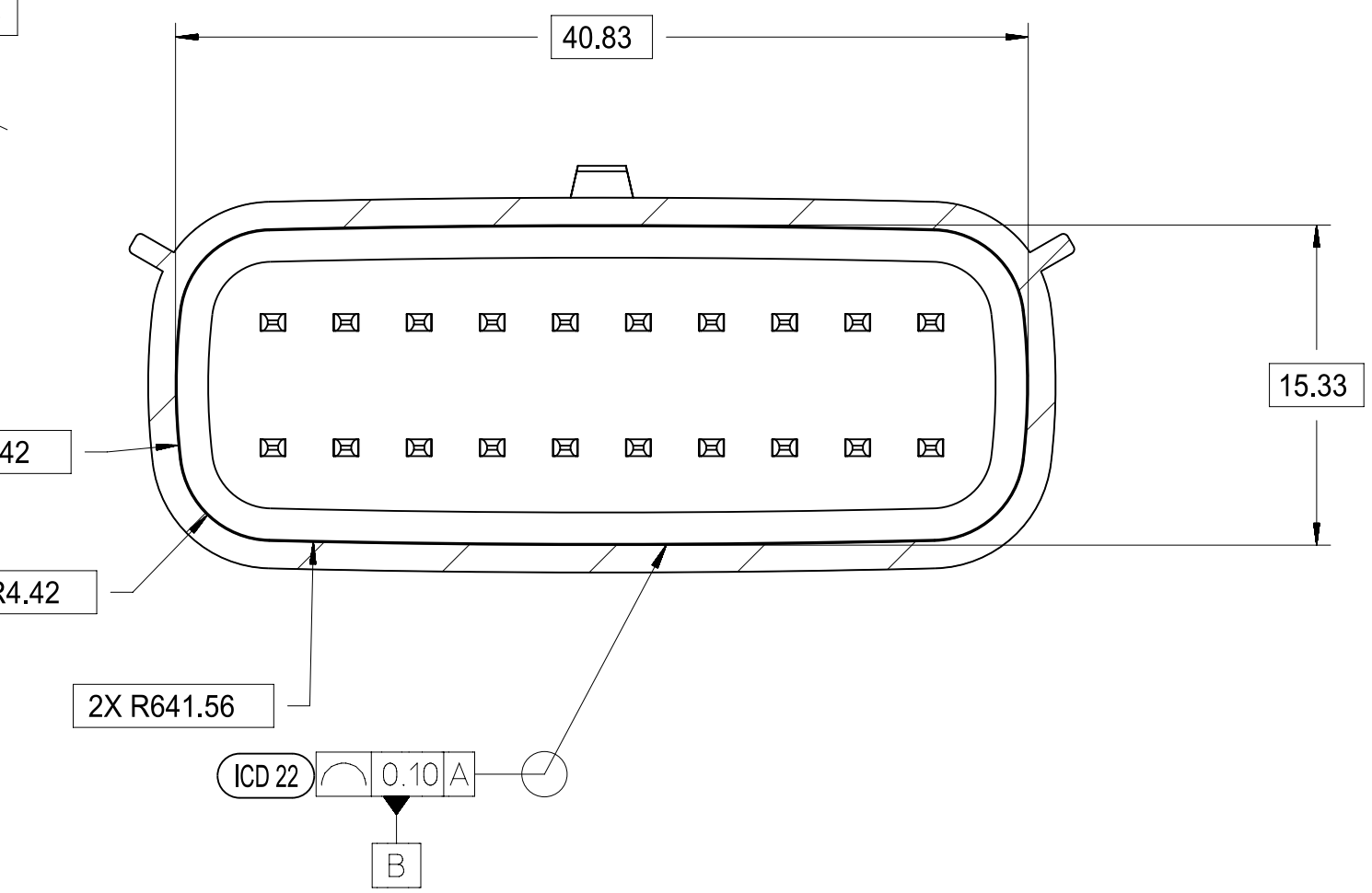
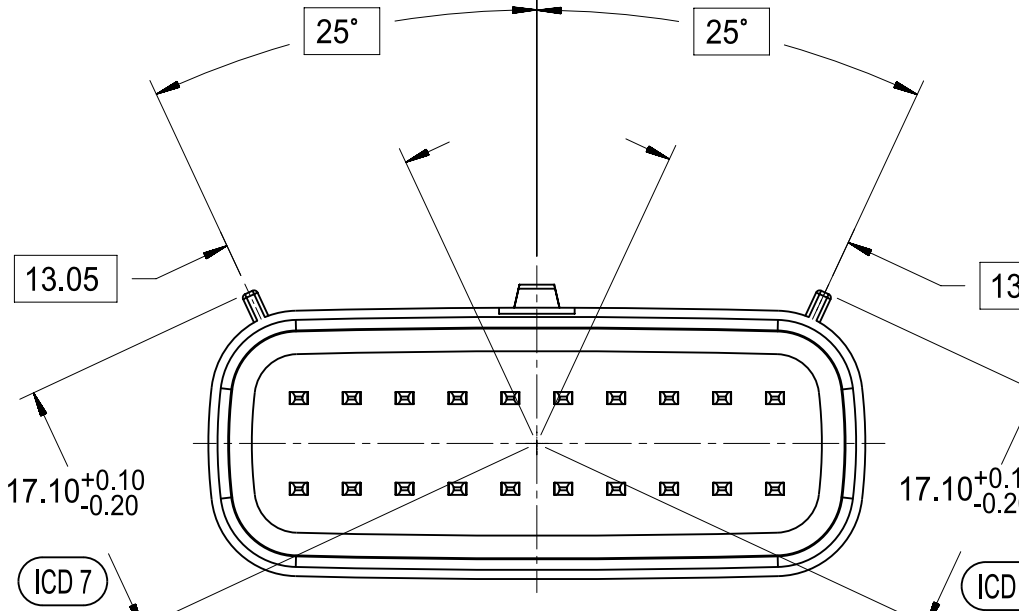
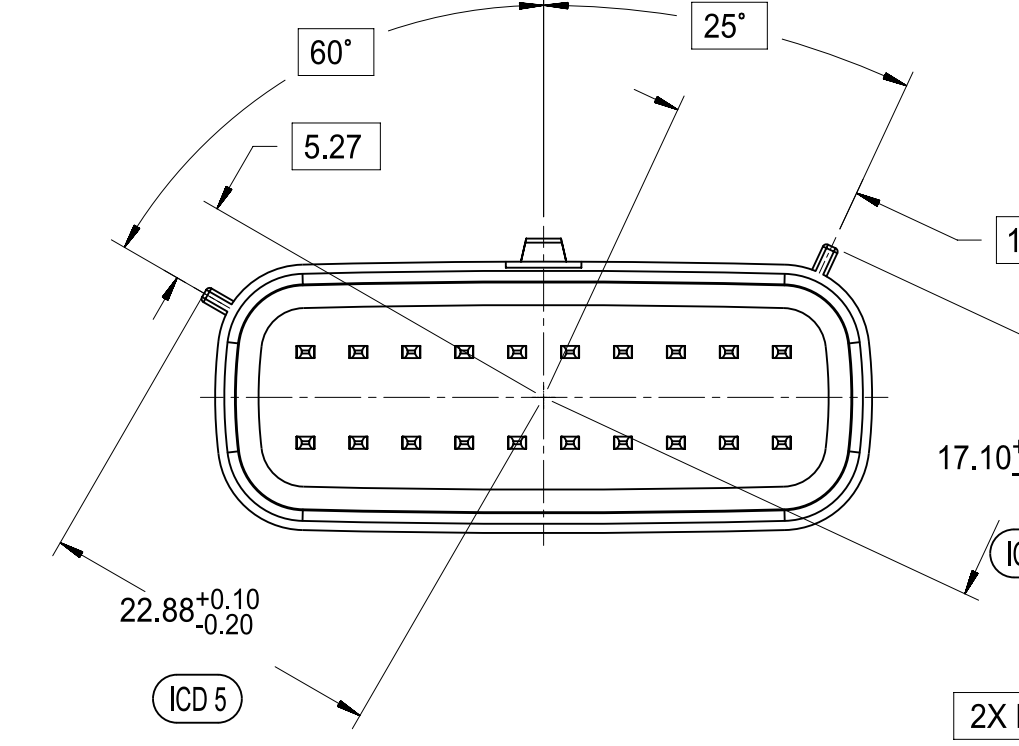
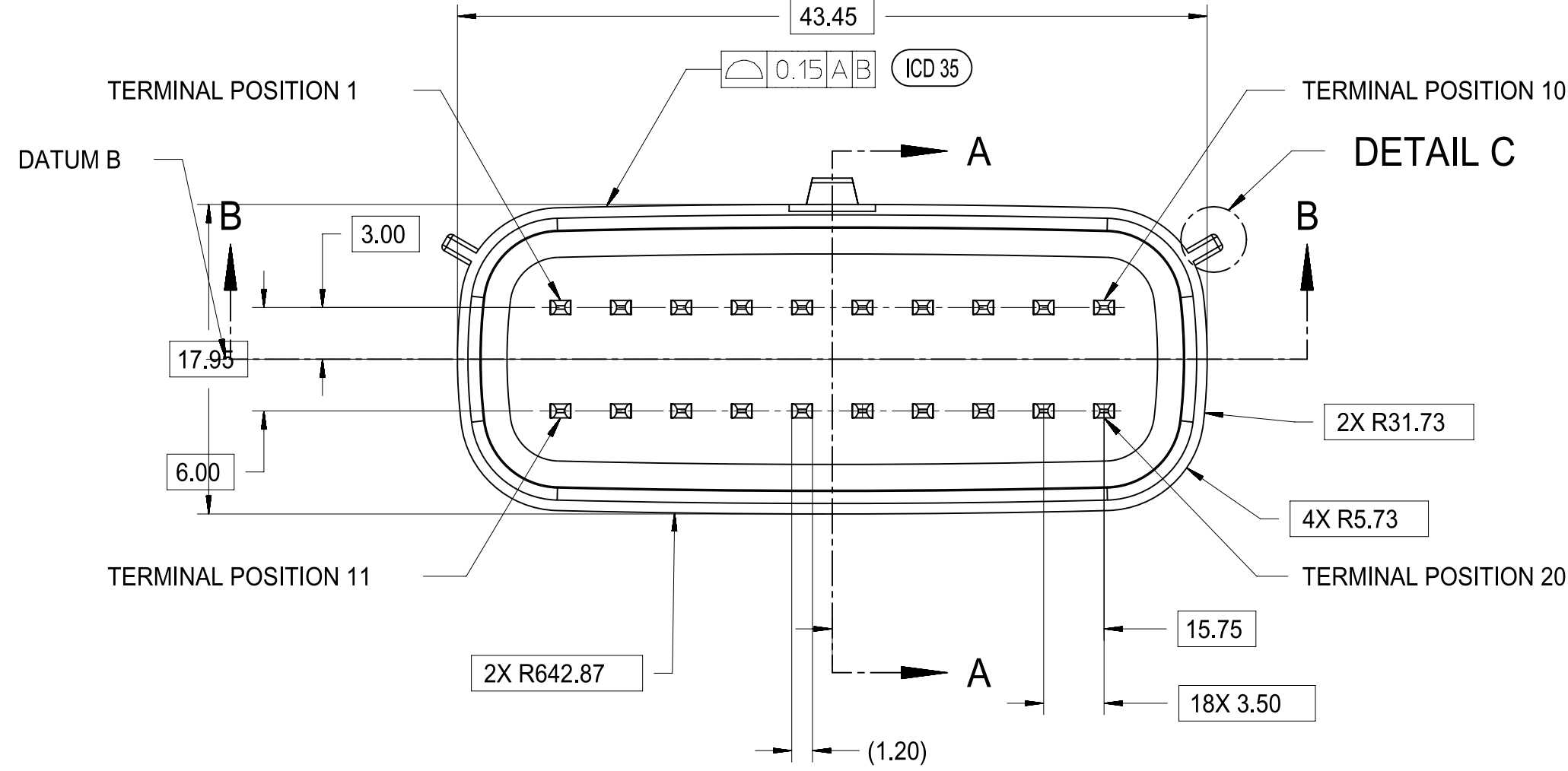
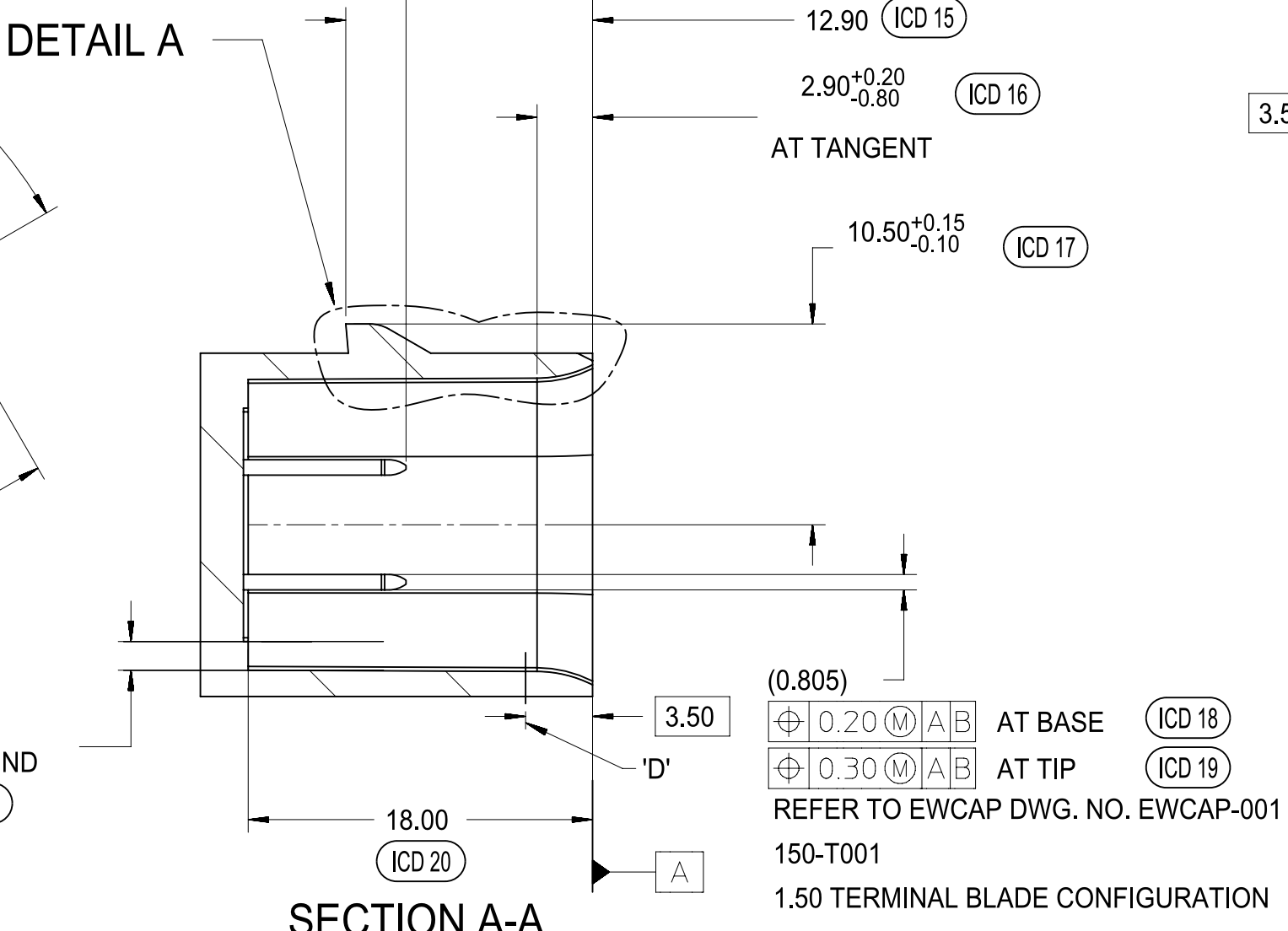
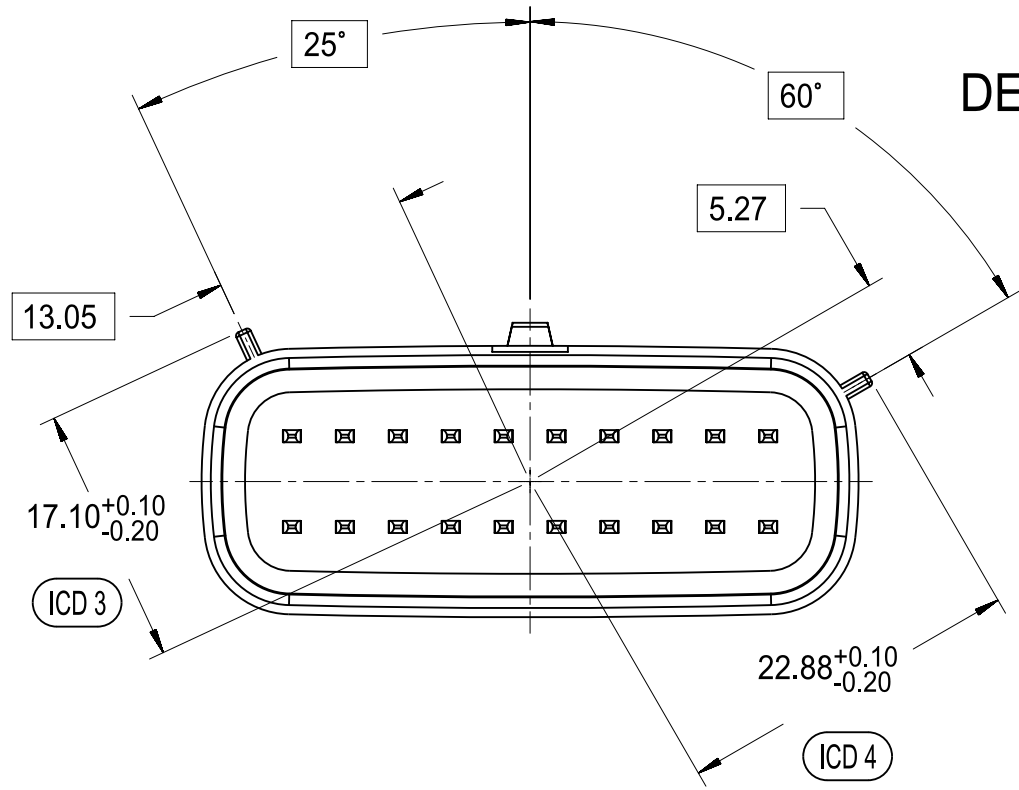
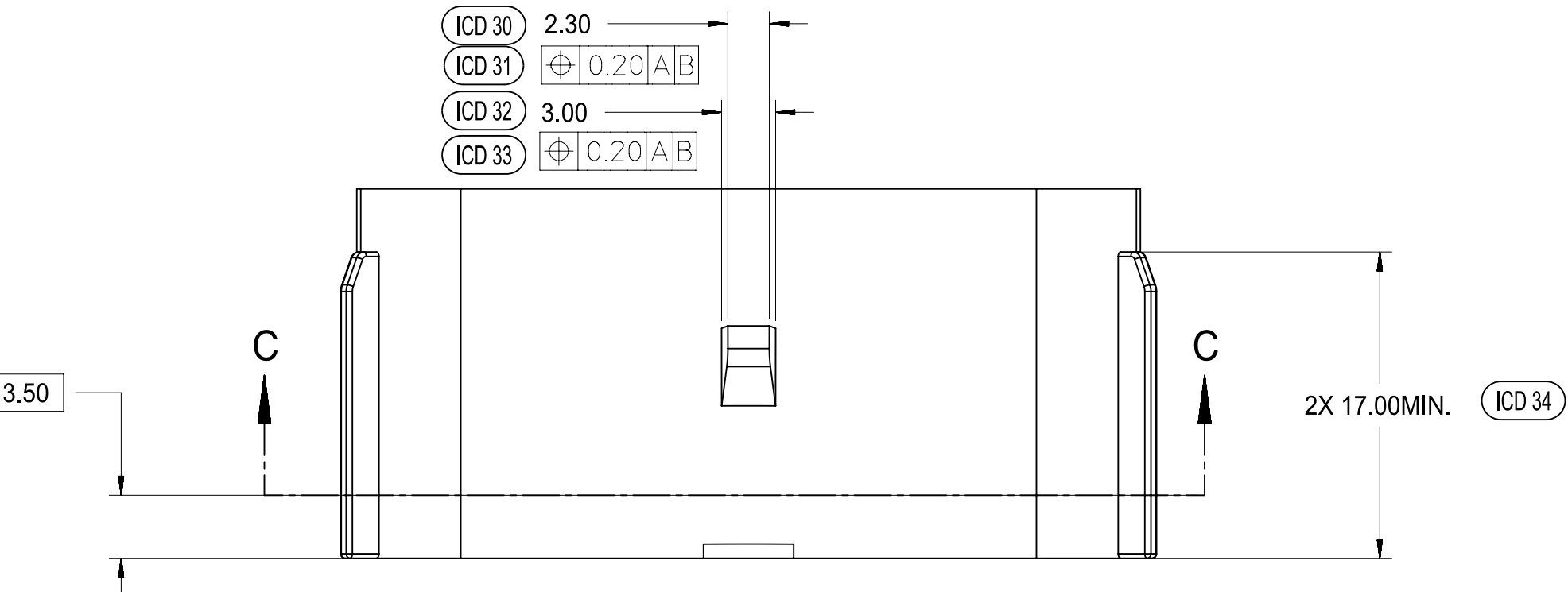
FUNCTIONAL SYMBOLS	THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX ELECTRONIC TECHNOLOGIES, LLC AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION									
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[illegible]

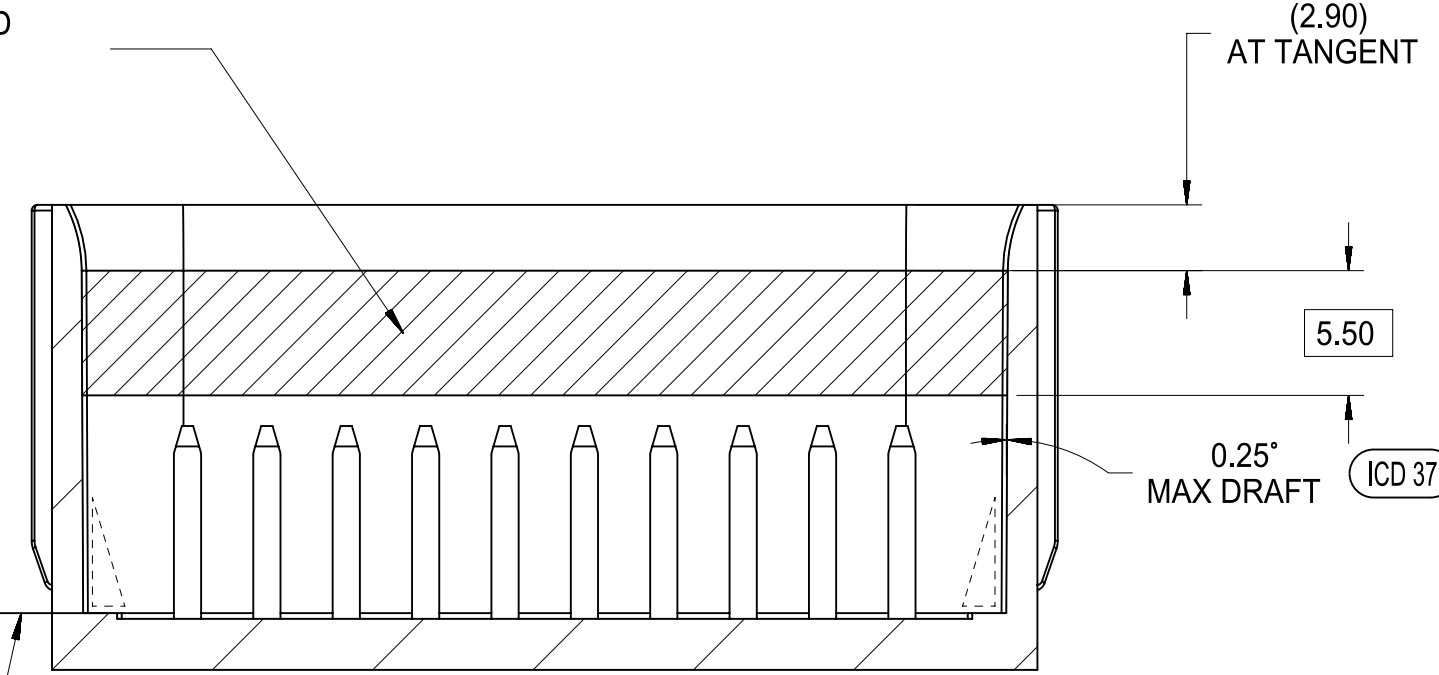


MATING INTERFACE NOTES: VALID UNLESS OTHERWISE SPECIFIED

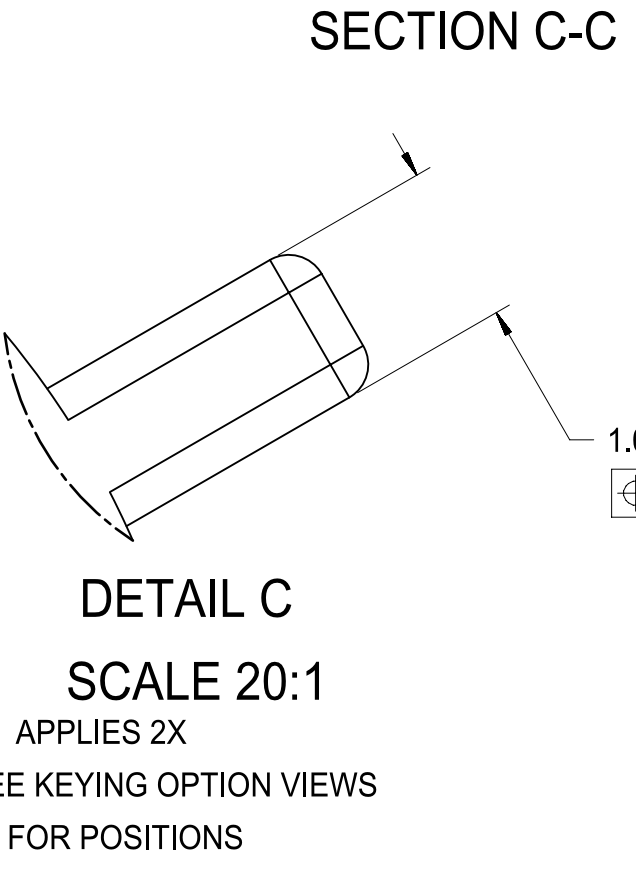
1. GENERAL:
- a. DESIGNED TO MATE WITH MOLEX CONNECTOR 33472-2XXX & 160008-0XXX & 160074-0XXX. A FULL SHROUD ON THE MATING CONNECTOR IS REQUIRED TO INSURE THAT THE CONNECTOR-HEADER POLARIZATION FEATURES (OPTIONS A THRU D) WILL FUNCTION. THE FULL SHROUD ALSO PREVENTS SCOOP DAMAGE TO THE HEADER PINS. REFER TO 'SAE/USCAR-12 CONNECTOR DESIGN GUIDE LINES' FOR ADDITIONAL INFORMATION.
 - b. PARTS MUST BE IN COMPLIANCE TO MOLEX CHEMICAL SUBSTANCES FOR PRODUCTS AND PACKAGING SPECIFICATION: ES-40000-5016.
 - c. FLAMMABILITY REQUIREMENT: PER ISO3795 OR GM3191.
 - 1. BURN RATE 100mm/MIN MAXIMUM
 - 2. MATERIAL MUST BE SELF EXTINGUISHING
2. MATERIALS:
- a. MATERIAL: SPS/NYLON GF20, REGRIND 20% MAX BY WEIGHT.
 - b. STANDARD COLORS FOR POLARIZATION (SEE KEYING OPTIONS TABLE). DEVIATION REQUIRES APPROVAL OF AUTHORIZED PERSON.
 - c. FOR BLADE BASE MATERIAL, PLATING AND PROCESS LUBRICANT:
 - 1. TIN: - BASE MATERIAL: COPPER ALLOY, CONDUCTIVITY >=60% IACS AT 20°C; TENSILE STRENGTH >= 410 N/mm² P. PLATING SOLUTION W/O ANY ADDITIVES. THICKNESS: 1.25 - 2.25 MICROMETERS.
 - TOP LAYER: 100% ELECTRO-DEPOSITED TIN, MATTE FINISH. THICKNESS: 2.5 - 4.0 MICROMETERS.
 - 2. SILVER: - BARRIER MATERIAL: ELECTRO-DEPOSITED DUCTILE SULPHAMATE NICKEL. THICKNESS: 1.25 - 2.25 MICROMETERS.
 - TOP LAYER: ELECTRO-DEPOSITED SEMI-BRIGHT PURE SILVER (0.5% MAX IMPURITIES) OVER NICKEL ANTI-TARNISH TREATMENT EVERBRIGHT WS. THICKNESS: 1.9 - 3.3 MICROMETERS.
 - 3. BLADES MUST CONFORM TO ES-40000-5007, EXCEPT FOR SPECULAR REFLECTIVITY - SECTION 6.0.
 - 4. ANY PROCESS LUBRICANT REMAINING ON THE TERMINAL MUST NOT VARNISH OR DEGRADE IT'S ELECTRICAL PERFORMANCE UP TO A MAXIMUM CLASS AMBIENT TEMPERATURE PER SAE USCAR-2 FOR 1008 HOURS. PROCESS LUBRICANTS SHOULD BE APPROVED BY THE RESPONSIBLE ENGINEER.
 - 5. INFORMATION FOR BLADE DESIGN WAS DEVELOPED FROM EWCAP DWG: EWCAP-001.



SURFACE MUST BE FREE OF SURFACE DEFECTS AND PARTING LINES FOR SEALING ALL AROUND



3. GEOMETRY:
- a. THIS IS A 100% CAD GENERATED PART. THE CAD MATHEMATICAL DATA IS THE MASTER FOR THIS PART. FOR DIMENSIONAL OR ANY INFORMATION NOT SHOWN ON THIS DRAWING, ANALYZE THE CAD MODEL.
 - b. GEOMETRIC DIMENSIONS AND TOLERANCES PER ASME Y14.5M - 1994.
 - c. GENERAL TOLERANCES: SEE TITLE BLOCK.
 - d. EDGES AND UNDIMENSIONED DETAILS PER ISO13715.
4. MANUFACTURING:
- a. DRAFT TO BE WITHIN TOLERANCE. PLUS DRAFT - INDICATES A DIMENSION REPRESENTS THE SMALLEST SIZE OF A FEATURE. DRAFT WILL ADD MATERIAL. MINUS DRAFT - INDICATES A DIMENSION REPRESENTS THE LARGEST SIZE OF A FEATURE. DRAFT WILL REMOVE MATERIAL.
 - b. ALLOWABLE FLASH MAX 0.20 HIGH BY MAX 0.13 THICK.
 - c. ALLOWABLE SPLIT/PARTING LINE MISMATCH 0.2 MAX.
 - d. VISUAL DEFECTS SHALL MEET COSMETIC STANDARD PS-45499-002 (Class B).
 - e. NO EXTERNAL MOLD RELEASE AGENT ALLOWED DURING MANUFACTURING.
 - f. NO PARTING LINES, NO DRAFT, MISMATCHES OR EJECTOR MARKS PERMISSIBLE WITHIN SEALING SURFACE. SEALING SURFACE TOOLING TO BE PROCESSED TO A SURFACE FINISH OF NTMA #70 (400 PAPER) MINIMUM.



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

FUNCTIONAL SYMBOLS E/A = 0 E/C = 0 E/P = 0 DIVISIONAL SYMBOLS	THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX ELECTRONIC TECHNOLOGIES, LLC AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION		CURRENT REV DESC: SEE REVISION TABLE		molex			
	DIMENSION UNITS MM		SCALE 1:1					
	GENERAL TOLERANCES (UNLESS SPECIFIED)				MX150 RCPT DUAL ROW SEALED ASSEMBLY			
	ANGULAR TOL ± 1°							
4 PLACES ±				PRODUCT CUSTOMER DRAWING				
3 PLACES ±								
2 PLACES ± 0.100				DOCUMENT NUMBER SD-33472-0001				
1 PLACE ± 0.20								
0 PLACES ±				DOC TYPE PSD				
DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS								
THIRD ANGLE PROJECTION		DRAWING A1-SIZE		SERIES 33472		DOC PART 001		
STATUS: Production		DRWN: Yuki Song		2025-07-16		REVISION C11		
CHK'D: Elvis Song		APPR: Isong05		2025-07-17		SHEET NUMBER 11 OF 11		
MATERIAL NUMBER		CUSTOMER GENERAL MARKET		SHEET NUMBER				

150-S-020-2-D02	D	STONE GRAY
150-S-020-2-C02	C	DK GRAY
150-S-020-2-B02	B	LT GRAY
150-S-020-2-A02	A	BLACK
P/N	OPTION	MATING CONNECTOR COLOR