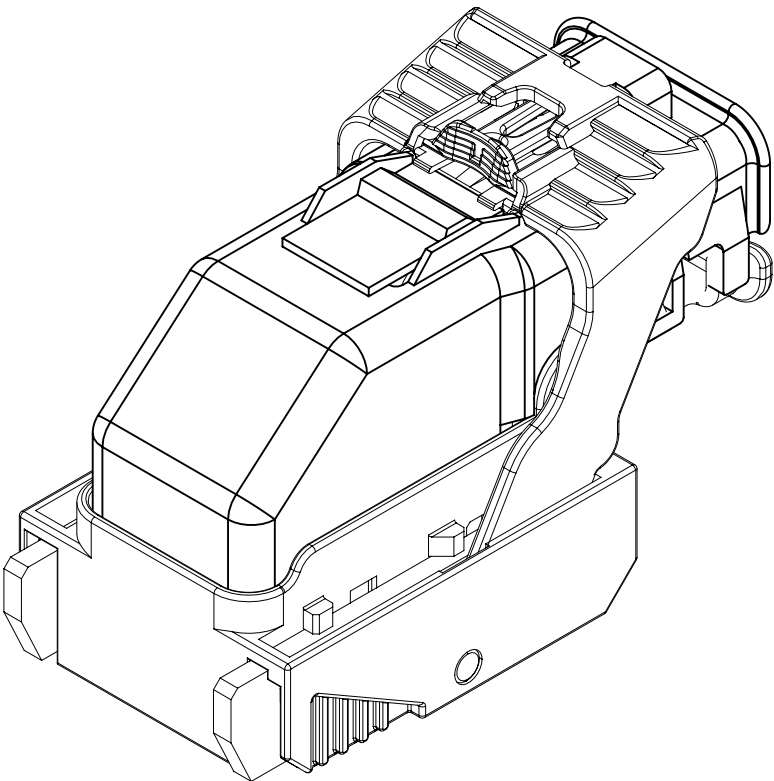


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ISO VIEW

		THIS DOCUMENT IS IN ACCORDANCE WITH ASME Y14.5M-1994 AS AMENDED BY THE GM GLOBAL DIMENSIONING AND TOLERANCING ADDENDUM - 2004.			
		DATE			
 CHANGE RESTRICTED NO MANUAL CHANGES	REFERENCE 12H (MOLEX AUTOMOTIVE)	DRAFTER	D. KOEHLER	28AP15	
		APVD1	M.R. OOSTERINK	29AP15	
APVD2		J. SWARTZ	29AP15		
APVD3		G. FLECK	08MY15		
APVD4					
DO NOT SCALE		APVD5			
METRIC DIMENSIONS SHOWN IN MILLIMETERS UNLESS OTHERWISE SPECIFIED	DRAWING NAME HARNESS CONN ASM-SEALED 18/49/56 CKTS, MX123				
	DRAWING NUMBER 12642694	DWG STATUS			PAGE NUMBER 1 of 22
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PAGE	DWG STATUS					REVISION HISTORY	AUTH	DR	CK	ENG
	DATE	ST	REV	CHG	PDI					

PAGE	DWG STATUS					REVISION HISTORY	AUTH	DR	CK	ENG
	DATE	ST	REV	CHG	PDI					
	08MY15	R	001			RELEASED TO PRODUCTION AT DLS A	CRMRJD	DFK	MRO	GF

				KEY PRODUCT CHARACTERISTICS (IN ACCORDANCE WITH QN 1805 OR QN 1050)							
				⊖ SAFETY/COMPLIANCE ◇ FIT/FUNCTION			TOTAL ON DRAWING	5			
							LAST NO. USED	5			
				NO	TYPE	DESCRIPTION	RATIONALE		PAGE/ZONE		
				1	F/F	32.68	IMPROVE CONNECTOR SYSTEM MATING		16		
2	F/F	29.00	INSURE PROPER RELEASE OF LEVER		16						
3	F/F	15.25	INSURE FINAL MATE POSITION		17						
5	F/F	POSITIONAL TOLERANCE (2 PLACES)	INSURE CONNECTOR SYSTEM MATIBILITY		20						
GM		PAGE TITLE KPC BLOCK				DRAWING NUMBER		PAGE NUMBER			
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					APPLICABLE COMPONENTS					
FIG. NO.	MFG.	MFG. P/N	GM P/N	Effective Date	DESCRIPTION	Key Option	Wire Dress Option	Key Config.	Color	Status
1	Molex	34575-0003	12582679	02JN03	WIRE HARNESS COVER	N/A	NA	N/A	BLACK	AVAILABLE
2	Molex	34576-0103	12666118	31JL15	HARN CONN ASM 49 CKT	A	0	1458	BLACK	ACTIVE
3	Molex	34576-0203	12650786	T.B.D.	HARN CONN ASM 49 CKT	B	0	1468	ST GRAY	NOT ACTIVE
4	Molex	34576-0303	12666120	31JL15	HARN CONN ASM 49 CKT	C	0	2467	BLUE	ACTIVE
5	Molex	34576-0403	12615660	T.B.D.	HARN CONN ASM 49 CKT	D	0	2367	BROWN	NOT ACTIVE
6	Molex	34576-0503	12615661	T.B.D.	HARN CONN ASM 49 CKT	E	0	2468	GREEN	NOT ACTIVE
7	Molex	34576-0603	12615662	T.B.D.	HARN CONN ASM 49 CKT	F	0	1357	NATURAL	NOT ACTIVE
8	Molex	34576-0703	12582680	11JN04	HARN CONN ASM 56 CKT	G	0	1358	BLUE	AVAILABLE
9	Molex	34576-0803	12582681	11JN04	HARN CONN ASM 56 CKT	H	0	2458	ST GRAY	AVAILABLE
10	Molex	34576-0903	12615658	T.B.D.	HARN CONN ASM 56 CKT	J	0	2457	BLACK	NOT ACTIVE
11	Molex	34576-1003	AVA77166	T.B.D.	HARN CONN ASM 56 CKT	K	0	2357	BROWN	NOT ACTIVE
12	Molex	34576-1103	AVA77167	T.B.D.	HARN CONN ASM 56 CKT	L	0	2368	GREEN	NOT ACTIVE
13	Molex	34576-1203	AVA77168	T.B.D.	HARN CONN ASM 56 CKT	M	0	2358	NATURAL	NOT ACTIVE
14	Molex	34576-1303	12666119	31JL15	HARN CONN ASM 49 CKT	A	9	1458	BLACK	ACTIVE
15	Molex	34576-1403	12650787	T.B.D.	HARN CONN ASM 49 CKT	B	9	1468	ST GRAY	NOT ACTIVE
16	Molex	34576-1503	12666121	31JL15	HARN CONN ASM 49 CKT	C	9	2467	BLUE	ACTIVE
17	Molex	34576-1603	12615663	T.B.D.	HARN CONN ASM 49 CKT	D	9	2367	BROWN	NOT ACTIVE
18	Molex	34576-1703	12615664	T.B.D.	HARN CONN ASM 49 CKT	E	9	2468	GREEN	NOT ACTIVE
19	Molex	34576-1803	12615665	T.B.D.	HARN CONN ASM 49 CKT	F	9	1357	NATURAL	NOT ACTIVE
20	Molex	34576-1903	12603600	11JN04	HARN CONN ASM 56 CKT	G	9	1358	BLUE	AVAILABLE
21	Molex	34576-2003	12603601	T.B.D.	HARN CONN ASM 56 CKT	H	9	2458	ST GRAY	NOT ACTIVE
22	Molex	34576-2103	12615659	T.B.D.	HARN CONN ASM 56 CKT	J	9	2457	BLACK	NOT ACTIVE
23	Molex	34576-2203	AVA77192	T.B.D.	HARN CONN ASM 56 CKT	K	9	2357	BROWN	NOT ACTIVE
24	Molex	34576-2303	AVA77193	T.B.D.	HARN CONN ASM 56 CKT	L	9	2368	GREEN	NOT ACTIVE
25	Molex	34576-2403	AVA77143	T.B.D.	HARN CONN ASM 56 CKT	M	9	2358	NATURAL	NOT ACTIVE
26	Molex	34851-0007	12644156	31AU15	HARN CONN ASM 18 CKT	G	0	1358	BLUE	ACTIVE
27	Molex	34851-0008	12644158	31AU15	HARN CONN ASM 18 CKT	H	0	2458	ST GRAY	ACTIVE
28	Molex	34851-0019	12644157	31AU15	HARN CONN ASM 18 CKT	G	9	1358	BLUE	ACTIVE
29	Molex	34851-0020	12644159	31AU15	HARN CONN ASM 18 CKT	H	9	2458	ST GRAY	ACTIVE
30	Molex	34736-2002	12642697	01AU10	MX64 RCPT TERM Ag 18/20 GAGE B (RIGHT PAYOFF)	N/A	N/A	N/A	N/A	AVAILABLE
31	Molex	34736-2001	12642696	01AU10	MX64 RCPT TERM Ag 22 GAGE B (RIGHT PAYOFF)	N/A	N/A	N/A	N/A	AVAILABLE
32	Molex	34586-0001	T.B.D.	11JN04	MX123 0.64MM GROMMET PLUG	N/A	N/A	N/A	NATURAL	AVAILABLE
33	Yazaki	7116-4150-02	12588066	02JN03	2.8mm YESC SEALED FEMALE TERMINAL TIN 20/22 GAGE (CABLE RANGE 0.30mm-0.60mm)	N/A	N/A	N/A	N/A	NOT ACTIVE
34	Yazaki	7116-4151-02	12588067	02JN03	2.8mm YESC SEALED FEMALE TERMINAL TIN 16/18 GAGE (CABLE RANGE 0.75mm-1.40mm)	N/A	N/A	N/A	N/A	NOT ACTIVE
35	Yazaki	7116-4152-02	12582685	02JN03	2.8mm YESC SEALED FEMALE TERMINAL TIN 14 GAGE (CABLE RANGE 1.50mm-2.50mm)	N/A	N/A	N/A	N/A	AVAILABLE
36	Yazaki	7158-3111-60	12588068	02JN03	2.8mm CABLE SEAL (wire O.D. range 1.20mm-1.90mm)	N/A	N/A	N/A	GREEN	NOT ACTIVE
37	Yazaki	7158-3112-70	12588069	02JN03	2.8mm CABLE SEAL (wire O.D. range 1.80mm-2.30mm)	N/A	N/A	N/A	YELLOW	NOT ACTIVE
38	Yazaki	7158-3113-40	12582686	02JN03	2.8mm CABLE SEAL (wire O.D. range 2.18mm-3.00mm)	N/A	N/A	N/A	WHITE	AVAILABLE
39	Yazaki	7158-3114-90	T.B.D.	02JN03	2.8mm YESC CAVITY PLUG	N/A	N/A	N/A	BLUE	AVAILABLE
40	FCI	33140138	12646399	10JA14	6.35mm APEX RCPT TERM Sn/Ag GRIP CODE-10 (6mm2) - Greased	N/A	N/A	N/A	N/A	AVAILABLE
41	FCI	33140135	12654556	10JA14	6.35mm APEX RCPT TERM Sn/Ag GRIP CODE-TBD (1mm2) - Greased	N/A	N/A	N/A	N/A	AVAILABLE
42	QSR	A-0549C	12646688	01SE14	6.35mm CABLE SEAL (FOR 6.0mm2 WIRE SIZE - 3.6 TO 4.2mm INSULATION OD)	N/A	N/A	N/A	WHITE	AVAILABLE
43	QSR	A-0549B	12654557	01SE14	6.35mm CABLE SEAL (FOR 0.75-1.25mm2 WIRE SIZE - 1.8 TO 2.3mm INSULATION OD)	N/A	N/A	N/A	BLUE	AVAILABLE
44	Molex	63811-4200	XX019825	02JN03	MX64 TERM HAND CRIMP TOOL	N/A	N/A	N/A	N/A	AVAILABLE
45	Molex	63813-1400	XX019826	02JN03	MX64 TERM SERVICE TOOL	N/A	N/A	N/A	N/A	AVAILABLE
46	Molex	63865-8000	XX019827	02JN03	MX64 CRIMP APPLICATOR with TOOL KIT 18/20 GAGE PAYOFF DIRECTION D (left payoff) (contact Molex for payoff detail)	N/A	N/A	N/A	N/A	AVAILABLE
47	Molex	63865-8070	XX019828	02JN03	MX64 APPLICATOR TOOL KIT 18/20 GAGE	N/A	N/A	N/A	N/A	AVAILABLE
48	Molex	63865-8100	XX019829	02JN03	MX64 CRIMP APPLICATOR with TOOL KIT 22 GAGE PAYOFF DIRECTION D (left payoff) (contact Molex for payoff detail)	N/A	N/A	N/A	N/A	AVAILABLE
49	Molex	63865-8170	XX019830	02JN03	MX64 APPLICATOR TOOL KIT 22 GAGE	N/A	N/A	N/A	N/A	AVAILABLE
50	SPX	J35616-64	T.B.D.	02JN03	0.64mm PROBE TOOL (for rcpt)	N/A	N/A	N/A	N/A	AVAILABLE
51	SPX	J35616-64A	T.B.D.	02JN03	0.64mm PROBE TOOL WITH EXT (for rcpt)	N/A	N/A	N/A	N/A	AVAILABLE
52	SPX	J35616-65	T.B.D.	02JN03	0.64mm PROBE TOOL WITH EXT (for pin)	N/A	N/A	N/A	N/A	AVAILABLE
53	SPX	J35616-4A	T.B.D.	02JN03	2.8mm PROBE TOOL (for rcpt)	N/A	N/A	N/A	N/A	AVAILABLE
54	YAZAKI	X39899-J374	12094430	02JN03	2.8mm TERM SERVICE TOOL	N/A	N/A	N/A	N/A	AVAILABLE
55	TQI	7000-1001	N/A	01FE15	18CKT PASS THROUGH ADAPTERS	N/A	N/A	N/A	BLACK	AVAILABLE
56	TQI	7000-1004	N/A	01FE15	49CKT PASS THROUGH ADAPTERS	N/A	N/A	N/A	BLACK	AVAILABLE
57	TQI	79917-0060	N/A	02JA08	56CKT PASS THROUGH ADAPTERS	N/A	N/A	N/A	BLACK	AVAILABLE
58	Molex	63813-1500	J-38125-217	01SE14	6.35mm APEX TERM SERVICE TOOL	N/A	N/A	N/A	N/A	AVAILABLE

* MX123 WIRE HARNESS COVER
MATES TO ANY 18/49/56 CKT
MX123 HARN CONN ASSY
SHOWN ON THIS TABLE

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NOTES: UNLESS OTHERWISE SPECIFIED

1. MATERIAL FOR INTERFACE:

- A. RESIN:

1. 30% G.F. PBT; 20% MAX. (BY WEIGHT) REGRIND.

2. MATING CONNECTOR INTERFACE PART COLOR MUST BE SAME AS MATCHING KEYED HARNESS CONNECTOR ASSEMBLY.

3. MUST BE VALIDATED FOR INDIVIDUAL DEVICE APPLICATION REQUIREMENTS.
- B. 0.64MM PINS:

1. BASE MATERIAL: COPPER ALLOY; CONDUCTIVITY >= 28% IACS AT 20°C; TENSILE STRENGTH >= 635 N/mm²; SURFACE ROUGHNESS R_a 6 MAX.

2. PLATING FINISH: SILVER (Ag). PLATING TO BE 1.9-3.3 µm ELECTRODEPOSITED SEMI-BRIGHT SILVER OVER 1.25-2.25 µm DUCTILE SULPHAMATE NICKEL PER NOTE 1(D).

3. ANTI-TARNISH: SYNTHETIC HYDROCARBON CONTACT SURFACE FINISH OR EQUIVALENT APPLIED WITHOUT VOID TO CONTACT AREA (MIN 3.7mm FROM PIN TIP).
- C. 2.8MM BLADE:

1. BASE MATERIAL: COPPER ALLOY; CONDUCTIVITY>= 28% IACS AT 20°C; TENSILE STRENGTH >= 350 N/mm²; SURFACE ROUGHNESS R_a 6 MAX.

2. PLATING FINISH: TIN. PLATING TO BE 2.5-5.0 µm ELECTRODEPOSITED TIN, MATTE FINISH OVER 1.25-2.5µm DUCTILE SULPHAMATE NICKEL PER NOTE 1(D).
- D. 6.3MM BLADE:

1. BASE MATERIAL: COPPER ALLOY; CONDUCTIVITY>= 50% IACS AT 20°C;

2. PLATING FINISH: SILVER (Ag) PLATING TO BE 1.9-3.3 µm ELECTRODEPOSITED SEMI-BRIGHT SILVER, OVER 1.25-2.5µm DUCTILE SULPHAMATE NICKEL PER NOTE 1(D) WITH ENVIRONMENTAL BARRIER OR TIN/SILVER (ELECTRO-DEPOSITED), UNDERPLATE 0.5-2.0 µm NICKEL OR COPPER. TOP PLATING: 1.0-3.0 µm (SILVER RANGE 3.75-X.XX NO ANTI-TARNISH COATING REQUIRED).
- E. PLATING REQUIREMENTS:

1. SILVER PLATING

a. 99.5% PURE SEMI-BRIGHT WITH NO ORGANIC BRIGHTNERS OR CHROMATES.

2. NICKEL PLATING

a. ELECTRODEPOSITED DUCTILE SULFAMATE NICKEL WITH A NON-BRIGHTENED FINISH. NO ORGANIC OR BRIGHTENING AGENTS SHALL BE ALLOWED.

b. SHALL ONLY BE USED AS AN UNDERLYING PLATING AND MAY NOT BE USED AS AN ELECTRICAL CONTACT SURFACE PLATING.

c. SHALL BE NODULE FREE WHEN VIEWED AT 10X MAGNIFICATION IN MEASURED IN CONTACT SURFACE AREA PLUS 0.5MM PERIMETER AROUND THE CONTACT SURFACE AREA.

d. ALL PLATINGS SHALL HAVE A 1.0% MAXIMUM BY WEIGHT IMPURITIES. IMPURITIES ARE DEFINED AS ALL ELEMENTS NOT THE PRIMARY PLATING OR HARDENING AGENT IF APPLICABLE, AS DETERMINED BY WET CHEMICAL ANALYSIS OR AUGER METHOD. NO SINGLE IMPURITY SHALL EXCEED 0.1% MAXIMUM BY WEIGHT.

3. TESTING

a. THICKNESS TO BE MEASURED IN CONTACT SURFACE AREA PLUS 0.5MM PERIMETER AROUND THE CONTACT SURFACE AREA AS DESIGNATED IN THE DRAWING. THICKNESS SHALL BE DETERMINED BY METHOD OF X-RAY (XRF).

b. PLATING ADHESION SHALL BE TESTED BY A BEND TEST FOR ALL METALS. THE TEST SAMPLE SHALL BE BENT 90 DEGREES TO DETERMINE DEPOSIT ADHESION. TESTING SHALL BE COMPLETED IN ACCORDANCE WITH ASTM SPEC B571.

2. DESIGN - GENERAL:

- A. THIS IS A 100% CAD GENERATED PART. THE CAD MATHEMATICAL DATA IS THE MASTER FOR THIS PART. WHERE DIMENSIONS ARE SPECIFIED ON THE DRAWING, THE DRAWING IS THE AUTHORITY FOR DIMENSIONAL VALUES. FOR DIMENSIONAL OR ANY INFORMATION NOT SHOWN ON THIS DRAWING, ANALYZE THE CAD MODEL.
- B. DIMENSIONS OBTAINED FROM THE DIGITAL MODEL ARE BASIC:

1. FOR RELATIONSHIPS BETWEEN FEATURES WHEN ESTABLISHED BY GEOMETRIC TOLERANCES.

2. FOR THE FORM OF A FEATURE WHEN CONTROLLED BY A PROFILE TOLERANCE.

3. FOR THE SIZE, FORM AND/OR RELATIONSHIP BETWEEN FIXED DATUM TARGETS.
- C. DIMENSIONS OBTAINED FROM THE DIGITAL MODEL ARE ROUNDED TO TWO DECIMAL PLACES (PER IEEE/ASTM SI 10-2002)
- D. VIEWS AND SECTIONS ON THIS DRAWING ARE IN ACCORDANCE WITH GM DCS SECTION C3.
- E. THE DIGITAL MODEL MUST CORRESPOND TO THE RELEASE LEVEL SHOWN IN THE PART BLOCK ON THIS DOCUMENT.
- F. TOLERANCES:

1. LINEAR

0.X ± 0.30

0.XX ± 0.10

0.XXX ± 0.10

2. ANGULAR

X° ± 3°

3.

1.0

A

B

C

G. MINIMUM WALL THICKNESS REQUIRED: 1.3mm.

H. CORNERS SHOWN AS SHARP TO BE R 0.2 MAX.

J. LETTERING SHALL BE 0.15 MAX RAISED IN 0.20 MAX RECESS PAD. THIS INCLUDES MATERIAL CODE, RECYCLING CODE, CAVITY ID AND DATE CODE.

K-1. PARTS MUST BE FREE OF DISCOLORATION, SALT RESIDUE AND OTHER IMPERFECTIONS THAT AFFECT FIT OR FUNCTION.

K-2. SCRATCHES OR DENTS NOT TO EXCEED 0.013mm IN DEPTH.

L. FOLLOWING PRODUCTION CODES TO BE PERMANENTLY MARKED & HUMAN READABLE TO A LETTER HEIGHT OF 1.5 ±0.5MM X 0.3 MAX DEEP

1. MATERIAL #: XXXXX-XXXX

2. DATE CODE: JJJY (JULIAN DAY, LAST DIGIT OF YEAR)

3. INSPECTION MACHINE CODE + SERIAL #: X_XXXXX

3. DESIGN - MANUFACTURING:

- A. DRAFT TO BE WITHIN TOLERANCE.
- B. ALLOWABLE FLASH MAX 0.2 HIGH X MAX 0.13 THICK.
- C. ALLOWABLE PARTING LINE MISMATCH 0.2 MAX.
- D. EJECTOR PINS MARK TO BE FLUSH TO 0.25 MAX DEPRESSED.
- E. ALLOWABLE GATE VESTIGE FLUSH TO 0.25 MAX PROTRUSION.
- F. NO EXTERNAL MOLD RELEASE AGENT ALLOWED DURING MANUFACTURING.
- G. STEEL THAT FORMS THE INDICATED SURFACE MUST BE POLISHED WITH A DIAMOND FINISH (SPI A-2) OVER THE FULL PERIPHERY OF THE TOOL. SURFACE MUST HAVE NO MISMATCH.
- H. 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.
- J. OPTIONAL FEATURES PROVIDED FOR AUTOMATION.
- K. PART MUST BE FREE FROM BURRS AND SHARP EDGES, WHICH MIGHT BE DETRIMENTAL TO SATISFACTORY ASSEMBLY, SAFE HANDLING OR FUNCTION OF PART.
- L. PARTS AS DELIVERED TO ASSEMBLY SHALL BE CLEAN AND FREE OF DEBRIS, RESIDUAL ABRASIVE MATERIAL AND CORROSION PRODUCTS ADVERESLY AFFECTING FUNCTION OR APPEARANCE.
- M. RESTRICTED AND REPORTABLE SUBSTANCES FOR PARTS PER GMW3059.

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NOTES: UNLESS OTHERWISE SPECIFIED

4. SYSTEM REQUIREMENTS:

- A. HARNESS CONNECTOR IS COMPATIBLE WITH THE FOLLOWING WIRE SIZE NO'S:
SAE 14AWG, MEETING SAE J1128
SAE 18AWG, MEETING SAE J1128, MAX O.D. OF 2.06 MM
SAE 20AWG, MEETING SAE J1128
SAE 22AWG, MEETING SAE J1128, MIN O.D. OF 1.47 MM
ISO 6mm², FLR2X-A/T-125 PER GM 15626 (FEB 2008)
- B. CABLE TIE SPECIFICATIONS:
1. CABLE TIE:
TENSILE RATING: 220N / (50lbs) MIN
TIE LENGTH: 186mm MIN
TIE WIDTH: 4.75mm MAX
MATERIAL: NYLON
2. INSTALLATION:
CABLE TIE TENSION: 190N MIN
3. DRESSED WIRE BUNDLE PACKAGING: SEE FIG. 1
- C. WHEN MATED WITH COMPONENT CONNECTOR INTERFACE AND/OR DRESS COVER, HARNESS CONNECTOR SYSTEM CONFORMS TO THE FOLLOWING:
1. SAE/USCAR-2, REV: 3 APRIL, 2001; CLASS 3
2. FIELD CORRELATED LIFE TEST, SAE/USCAR-20, NOV. 2001
3. GMW #3191 AUGUST 22, 2000 (DRAFT); TEMPERATURE CLASS 3 (145°C), SEALING CLASS 1 (HIGH PRESSURE SPRAY), VIBRATION CLASS 2 (ON BODY)
4. TPA USER FORCES (FULLY POPULATED WITH TERMINALS)
a. REMOVAL FROM LOCK TO PRE-SET: <=120N
- D. WIRE SPECIFICATIONS:
1. WIRE SURFACE MUST BE FREE OF SCRATCHES, GROOVES OR DENTS WHERE FUNCTIONAL

5. TERMINAL CURRENT RATINGS:

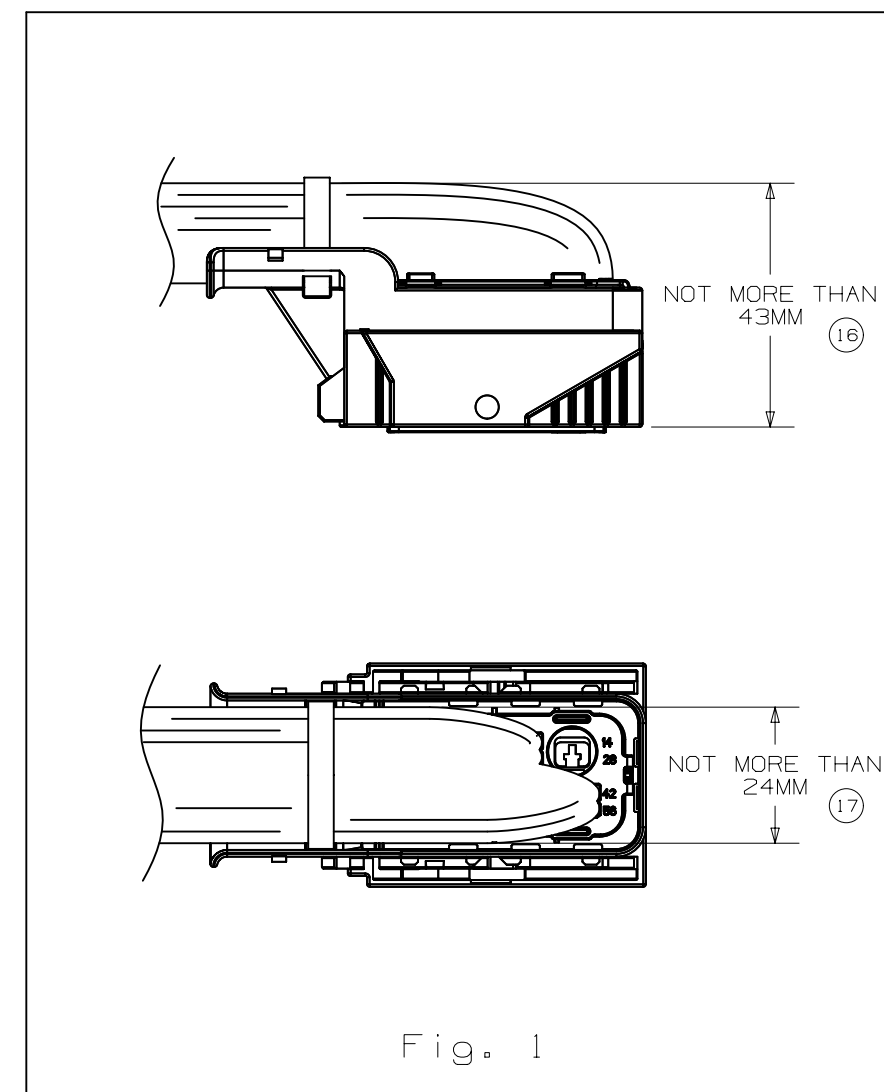
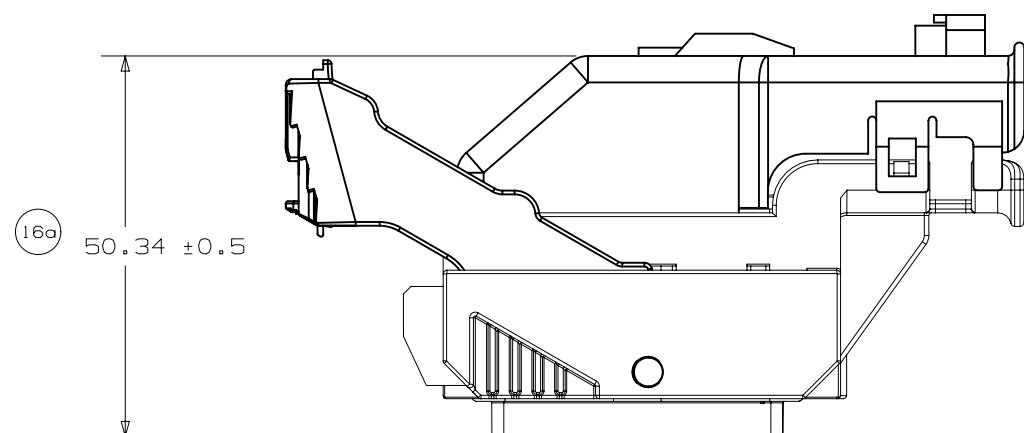
ALL TESTING DONE IN ACCORDANCE WITH USCAR-2 REV5 SECTION 5.3

- A. MX64 RCPT TERM
1. MX64 RCPT TERM Ag 18/20 GAGE CRIMPED TO SAE WIRE SIZE NO.18 AND MATED TO MX123 0.64MM PIN: 11.3 AMPS
2. MX64 RCPT TERM Ag 22 GAGE CRIMPED TO SAE WIRE SIZE NO.22 AND MATED TO MX123 0.64MM PIN:8.5 AMPS

WIRE	CURRENT RATING			
	23 deg.C	85 deg.C	105 deg.C	125 deg.C
18AWG	11.3A	11.3A	9.5A	6.6A
20AWG	10.0A	10.0A	8.3A	5.7A
22AWG	8.6A	8.6A	7.1A	5.0A

- B. 2.8MM RCPT TERM
1. 2.8MM RCPT TERM TIN 14 GAGE CRIMPED TO SAE WIRE SIZE NO.14 AND MATED TO MX123 2.8MM BLADE: 25.6 AMPS
- C. 6.3MM RCPT TERM - FCI APEX
1. 6.3MM RCPT TERM TIN/SILVER CRIMPED TO 6.0MM² WIRE AND MATED TO MOLEX 6.3MM² BLADE (Sn/Ag PLATED):36A AT 125°C

6. CONTACT MOLEX AUTOMOTIVE FOR AVAILABLE CUSTOM PATTERNS OF CAVITIES OPEN FOR CIRCUITS

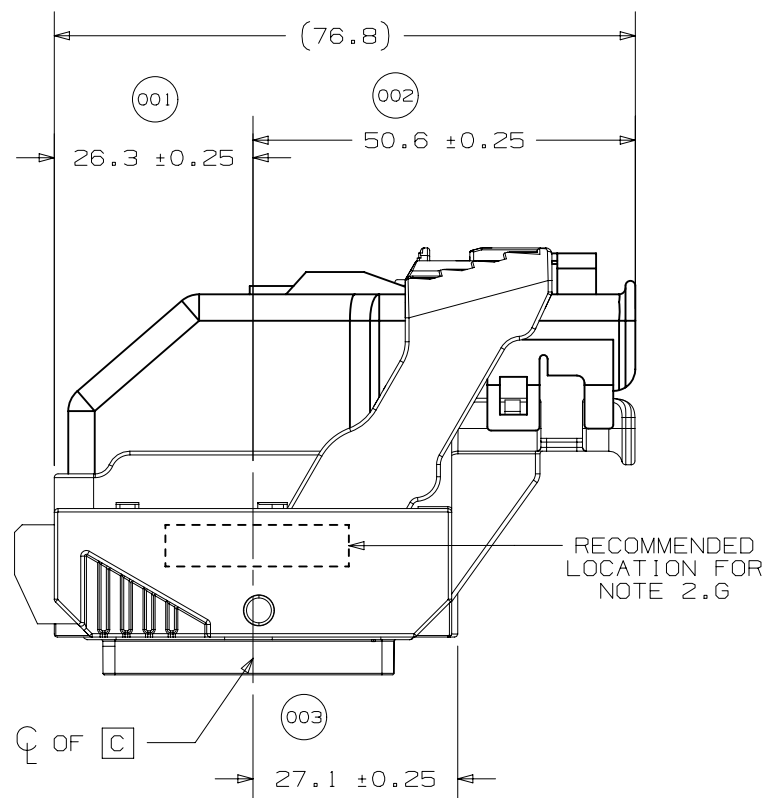


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WIRE DRESS PACKAGING DIMENSIONS

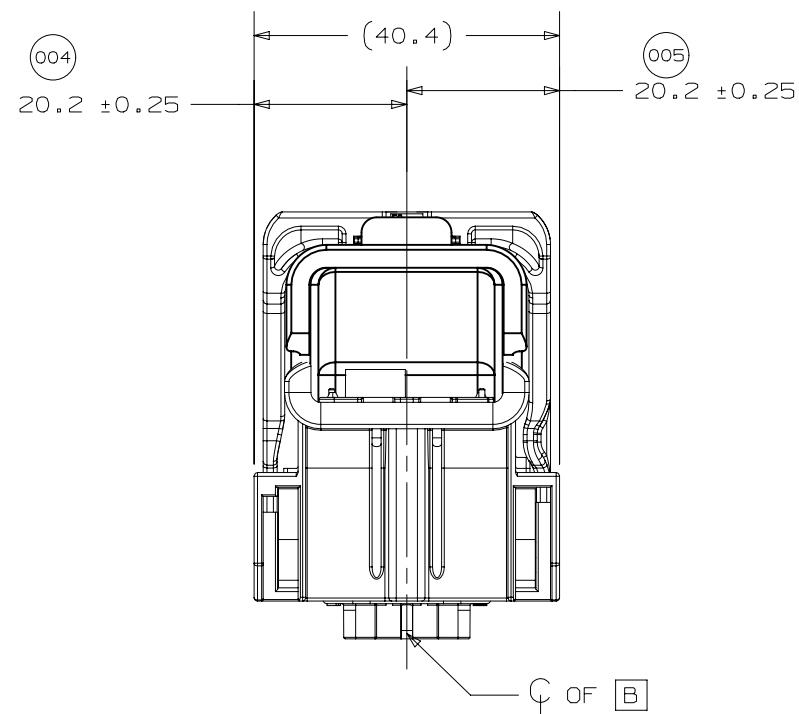
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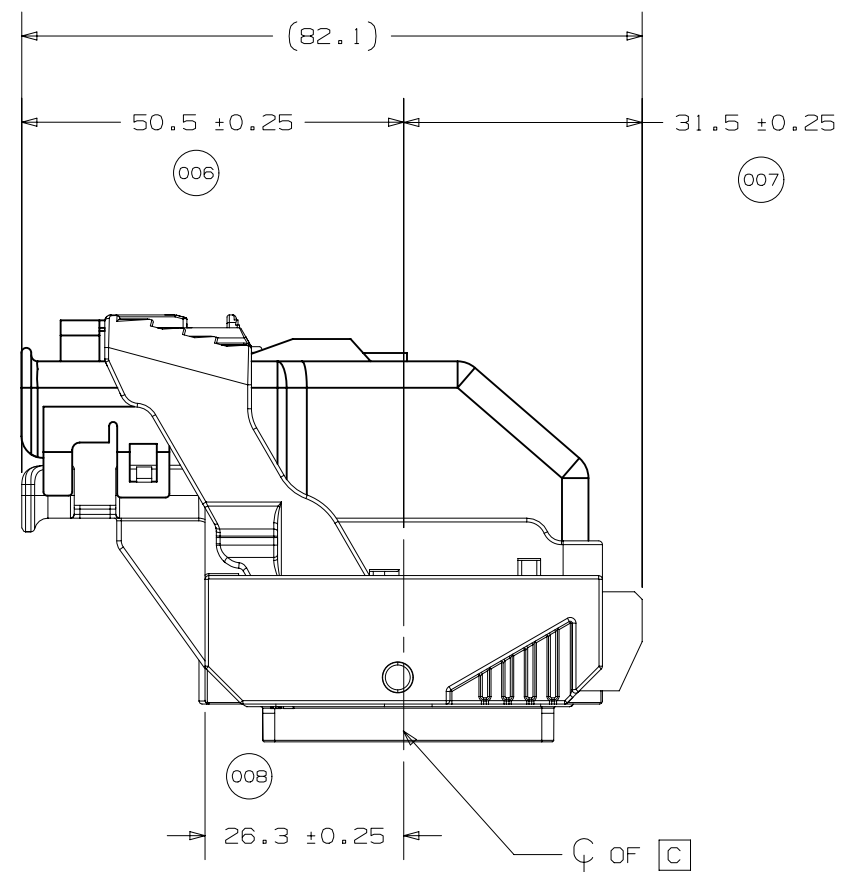
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WIRE DRESS OPTION 0 SHOWN



WIRE DRESS OPTION 0 SHOWN



WIRE DRESS OPTION 9 SHOWN



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LOCATION AND PACKAGING DIMENSIONS
REFERENCING INTERFACE DATUMS B & C

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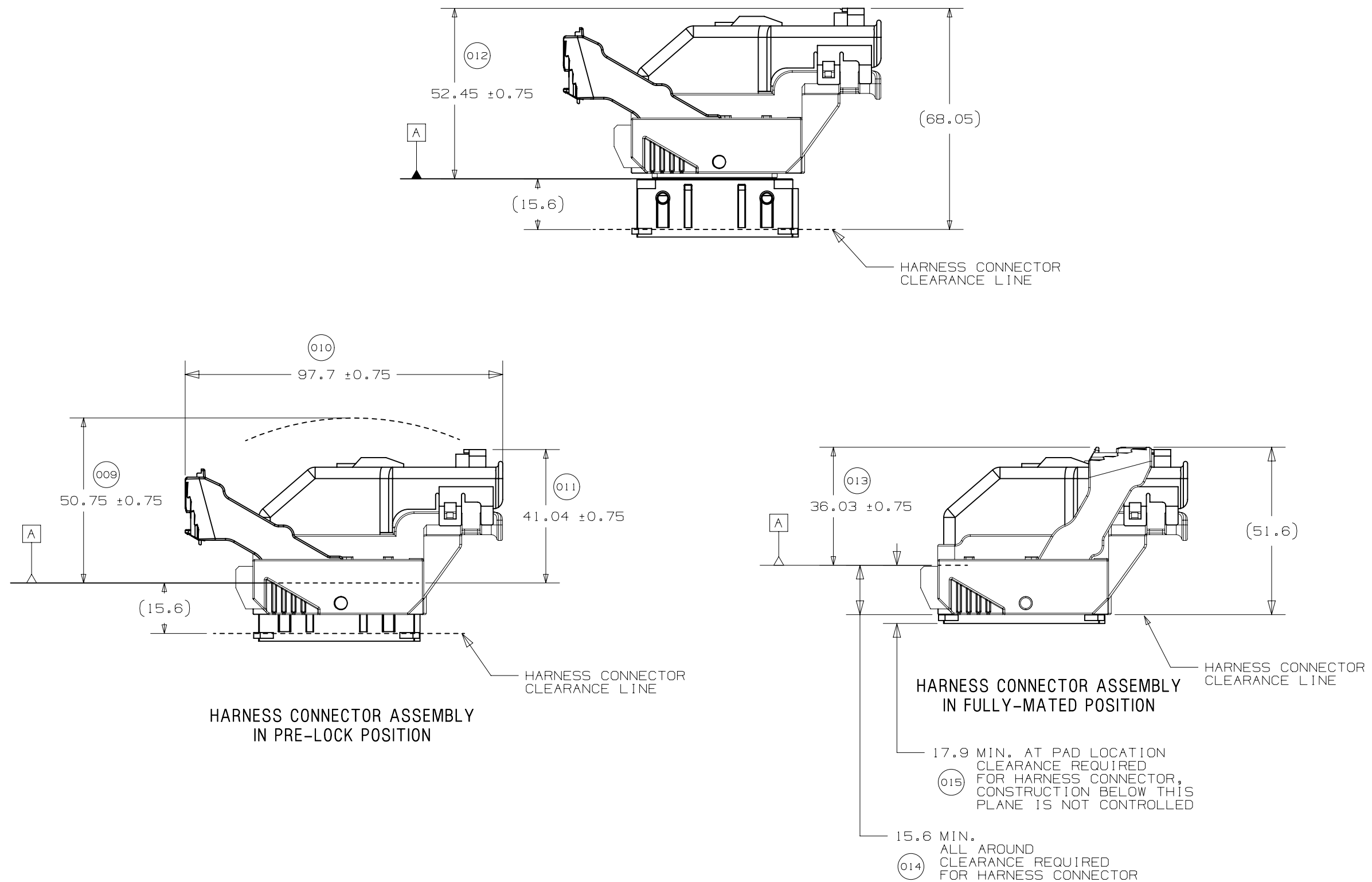
DWG STATUS

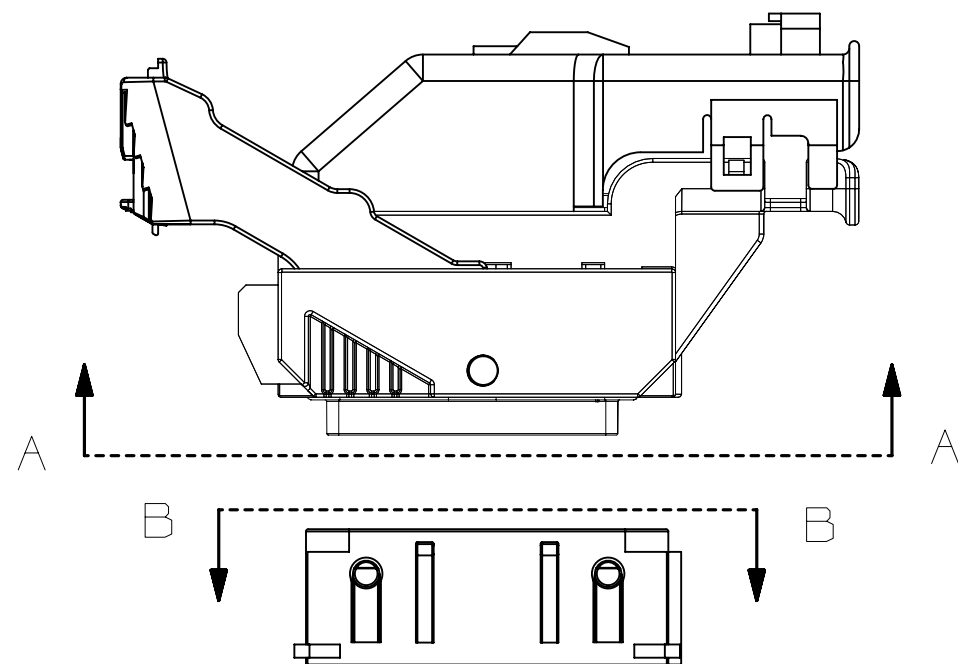
ST REV PDI

R 001

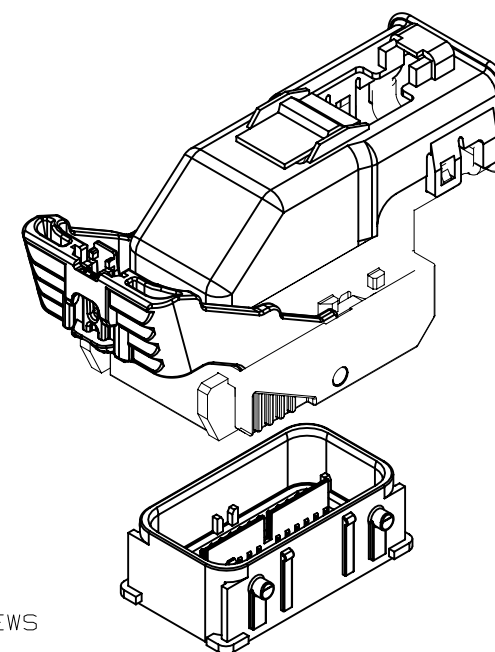
PAGE NUMBER

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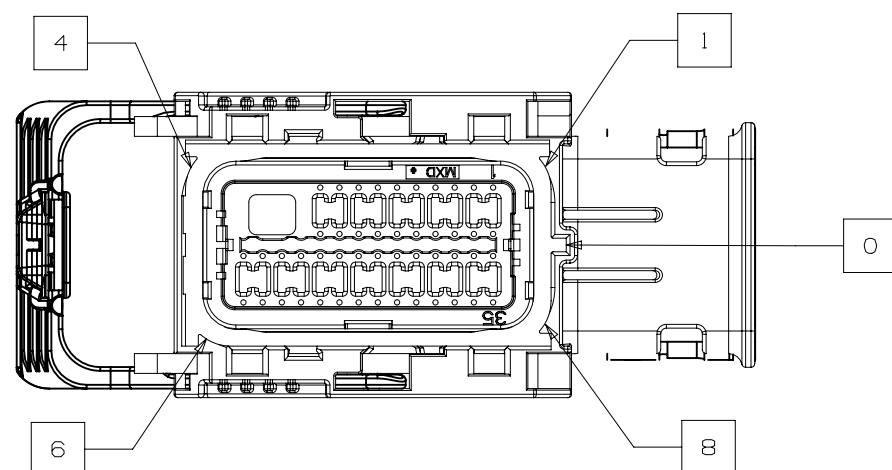




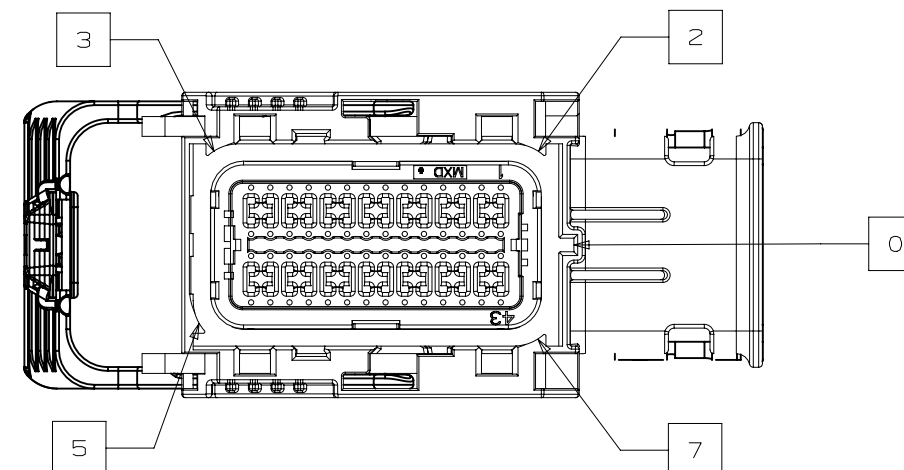
INTERFACE SIDE SHOWN IN ALL SECTION VIEWS



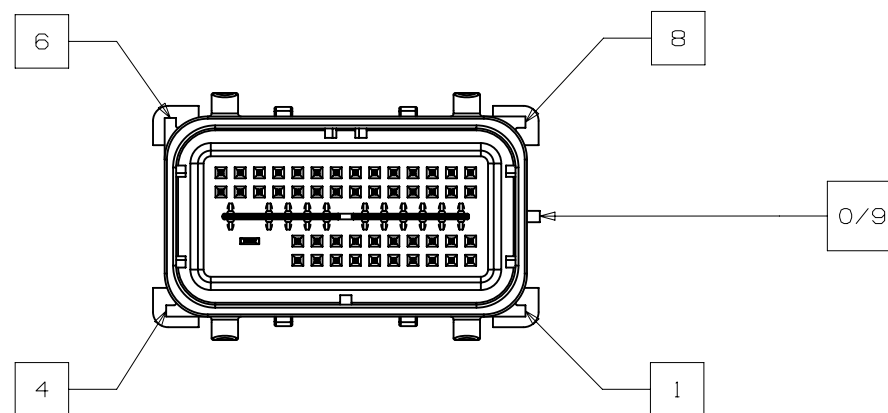
NOTE: REFERENCE THE COMPONENT TABLE
FOR KEY OPTIONS AND CONFIGURATIONS



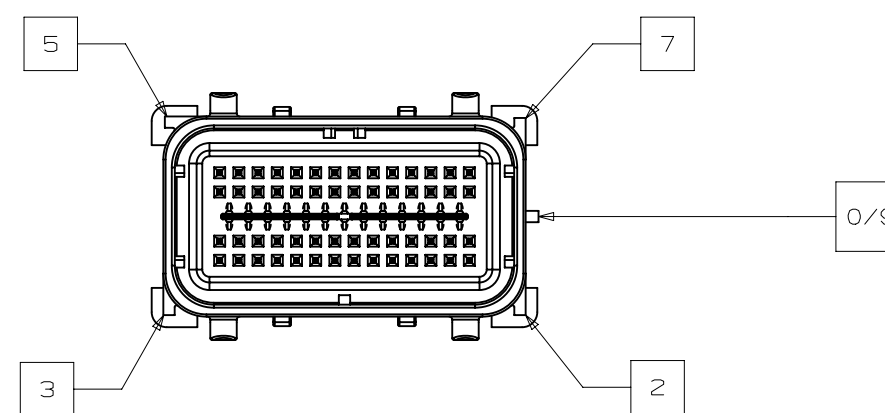
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SECTION A-A
KEY OPTION K SHOWN



SECTION B-B
KEY OPTION B SHOWN



SECTION B-B
KEY OPTION K SHOWN

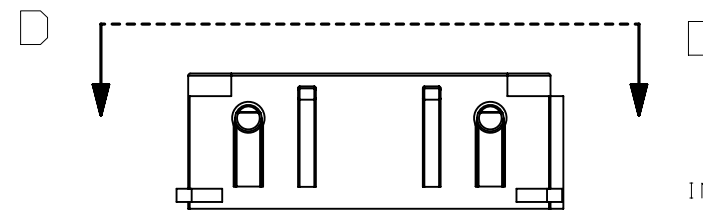
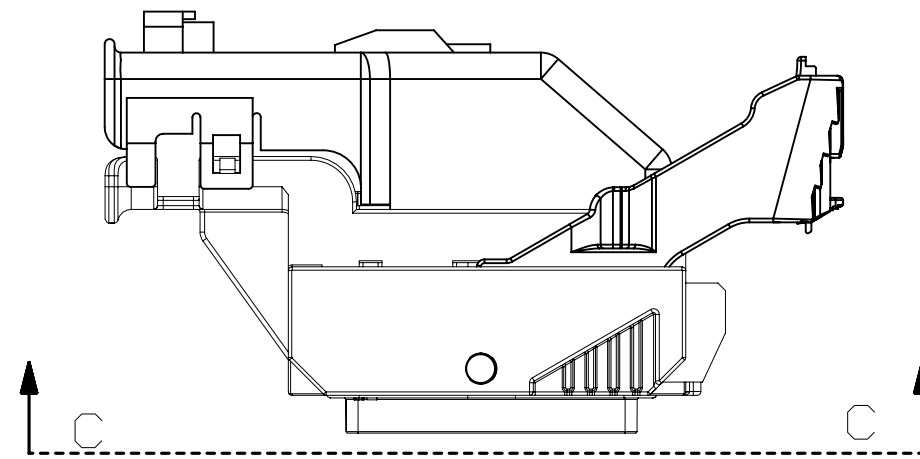


PAGE TITLE
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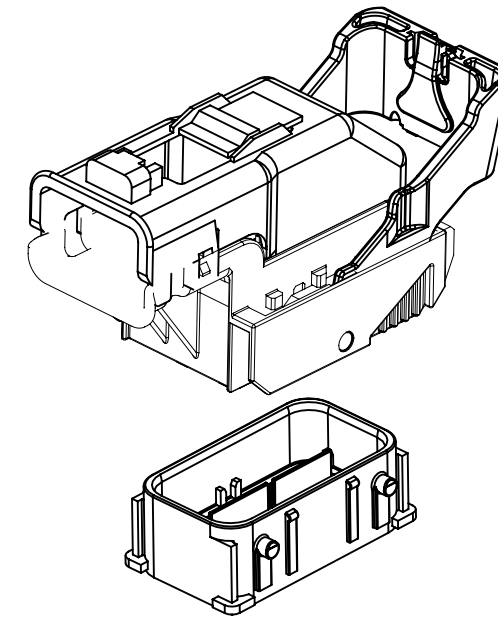
DRAWING NUMBER
12642694

DWG STATUS		
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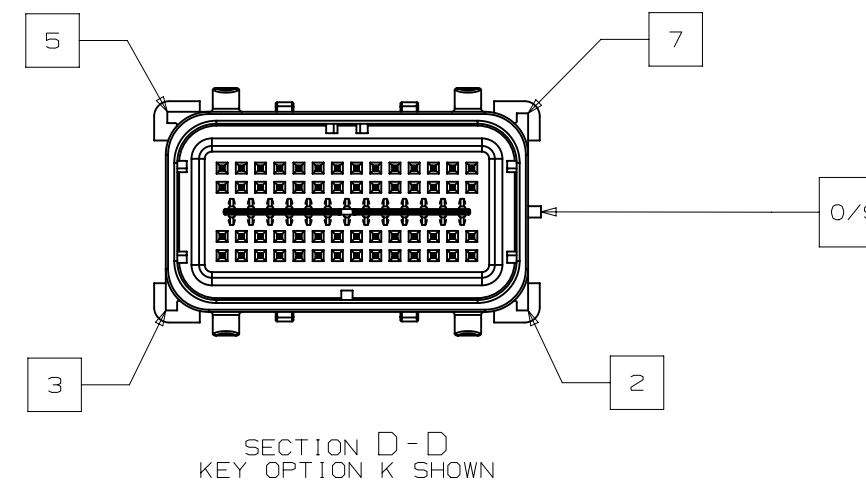
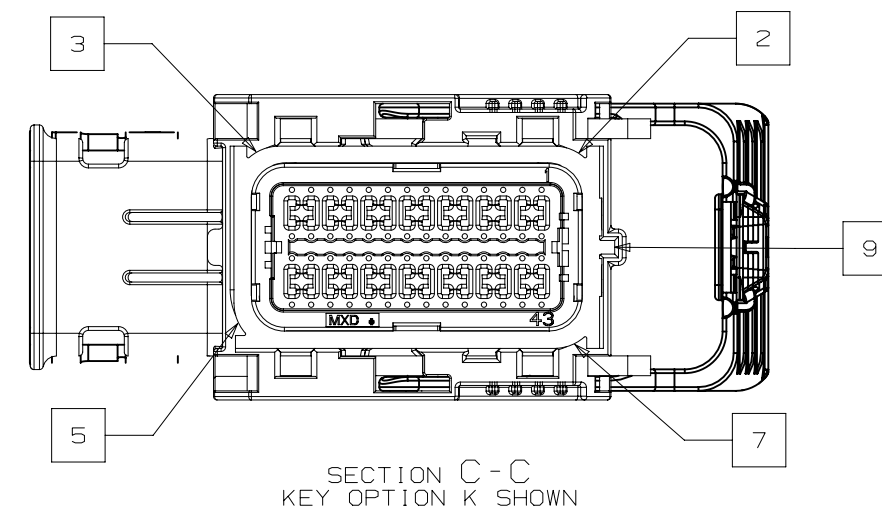
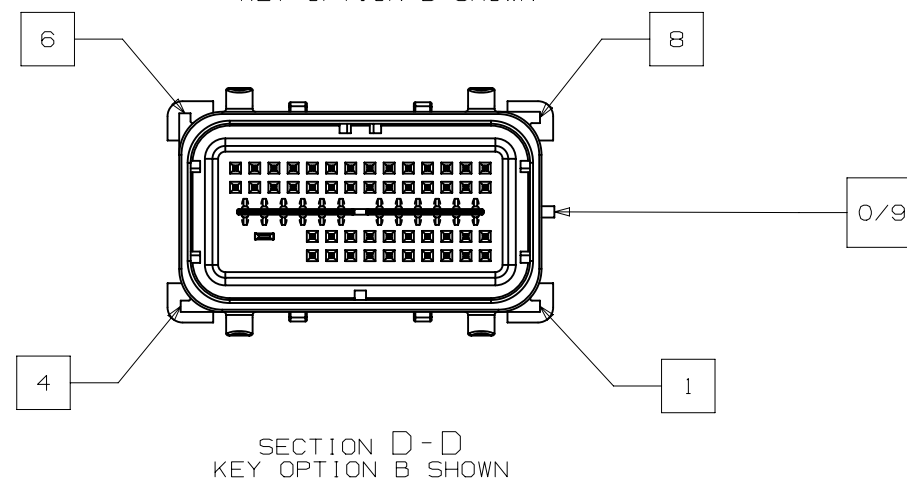
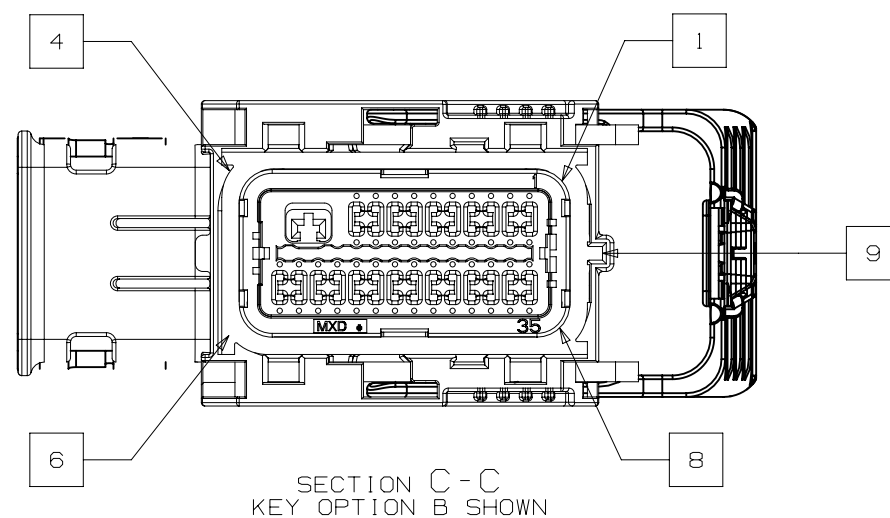
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INTERFACE SIDE SHOWN ON ALL SECTION VIEWS



NOTE: REFERENCE THE COMPONENT TABLE
FOR KEY OPTIONS AND CONFIGURATIONS

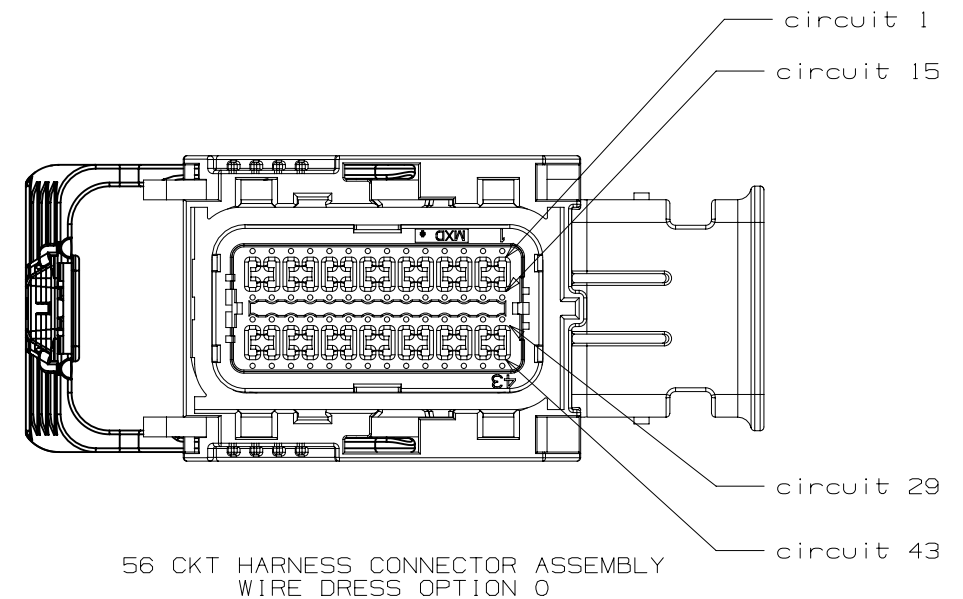
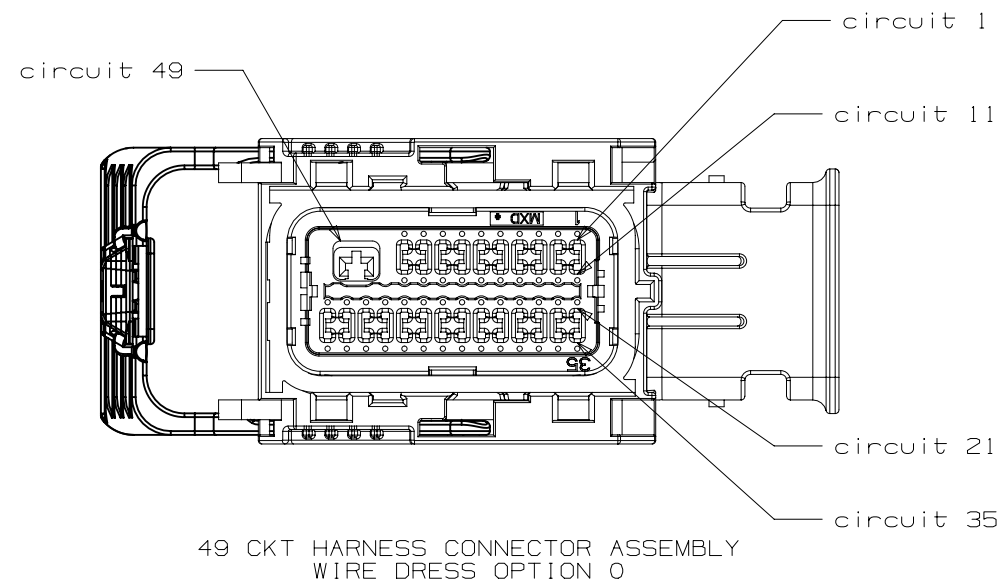


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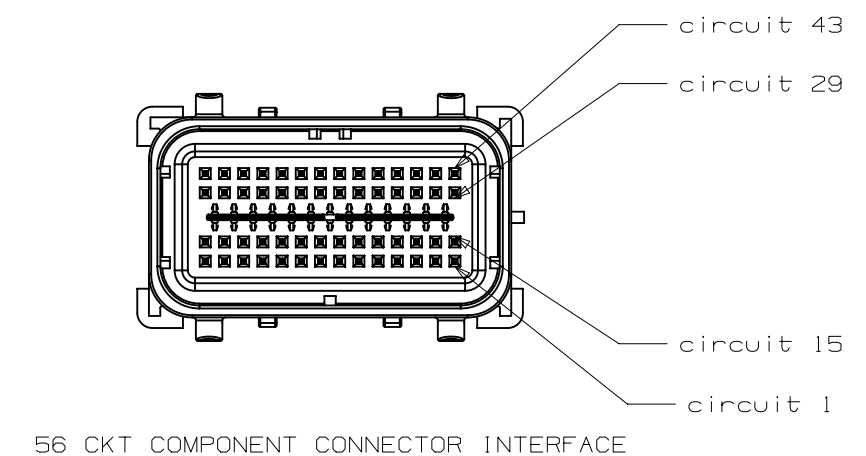
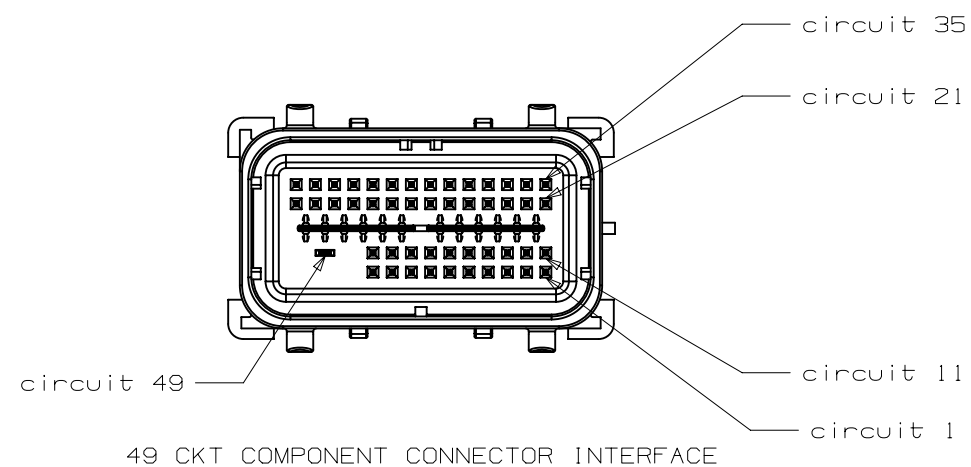
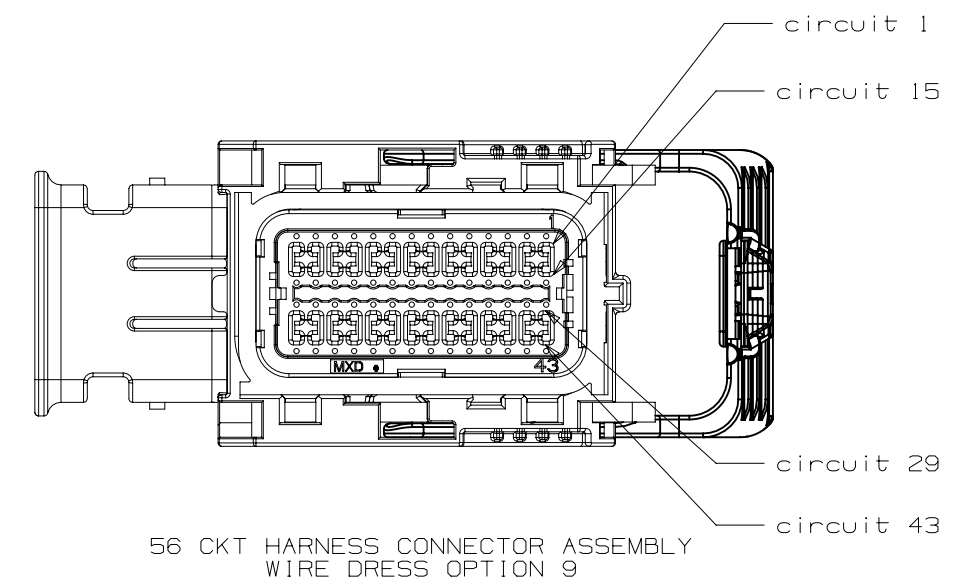
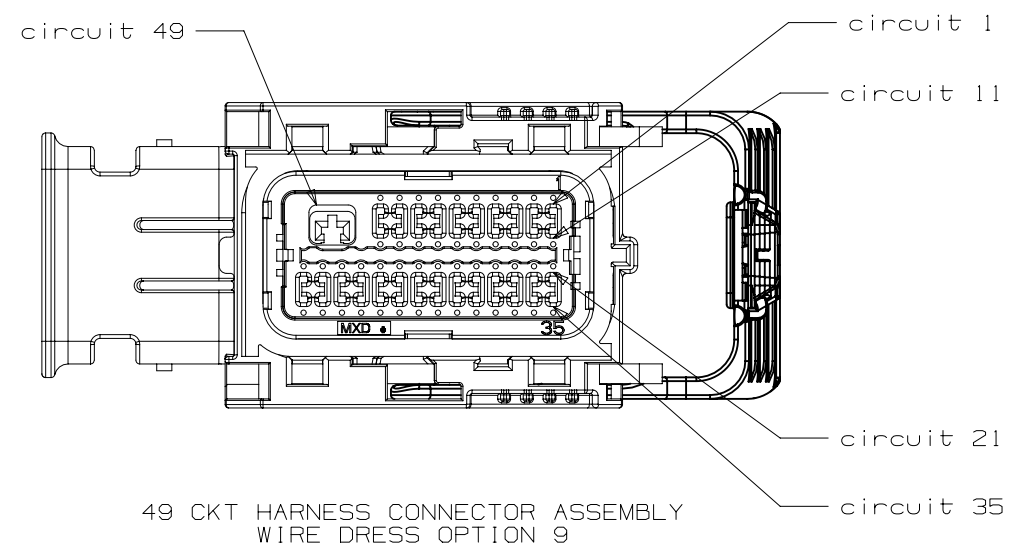
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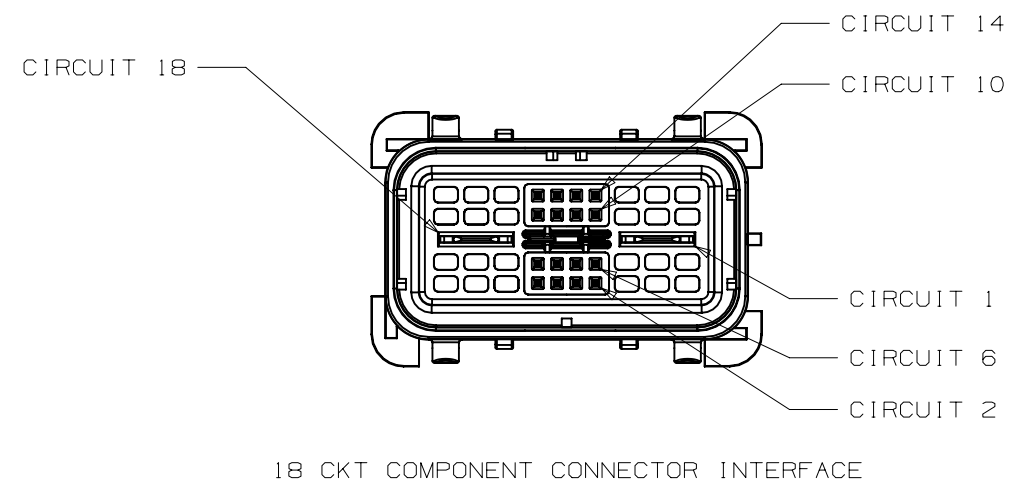
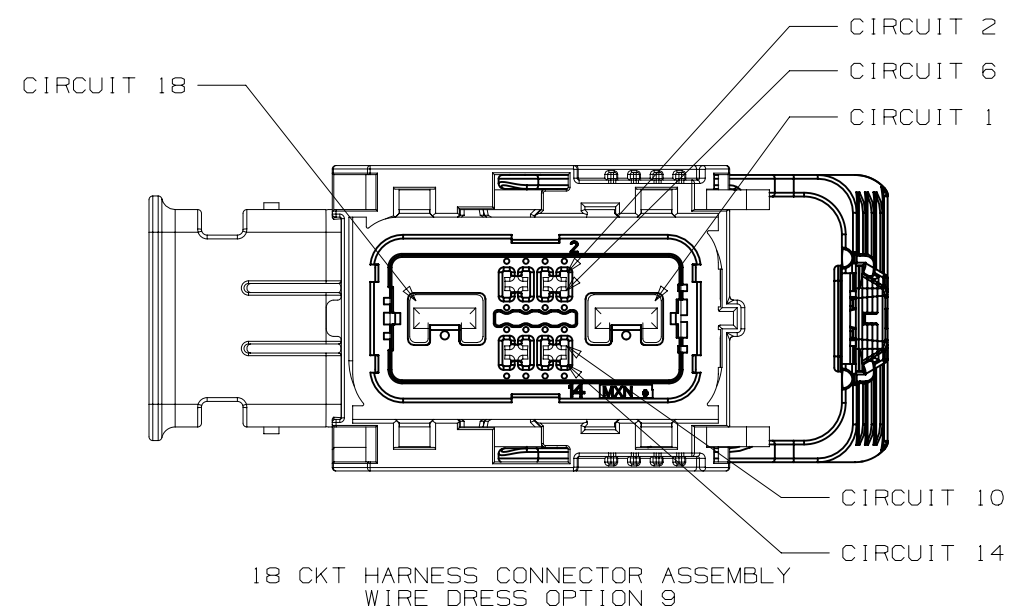
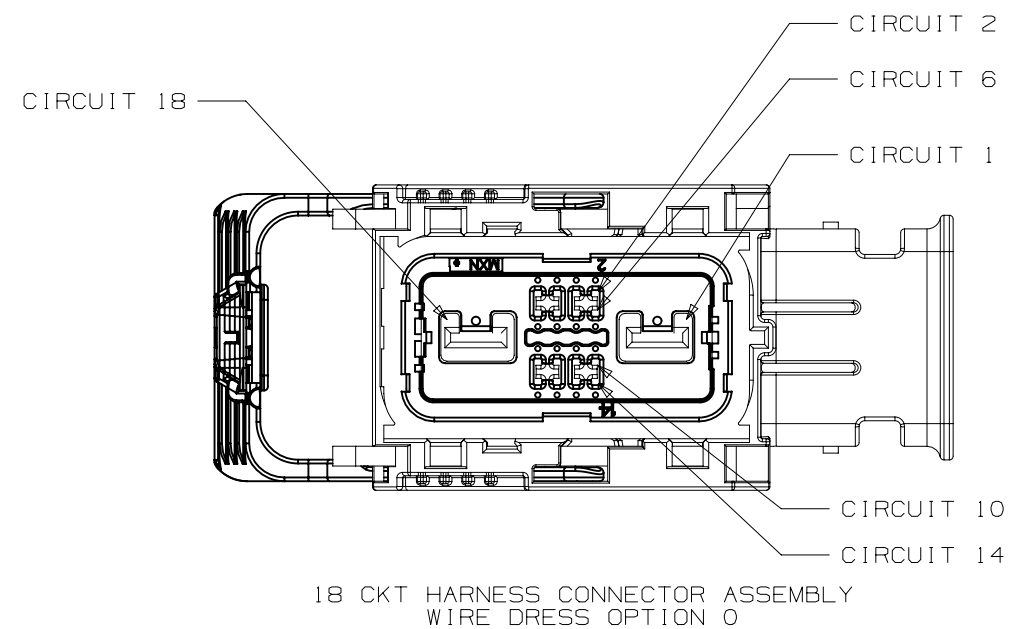
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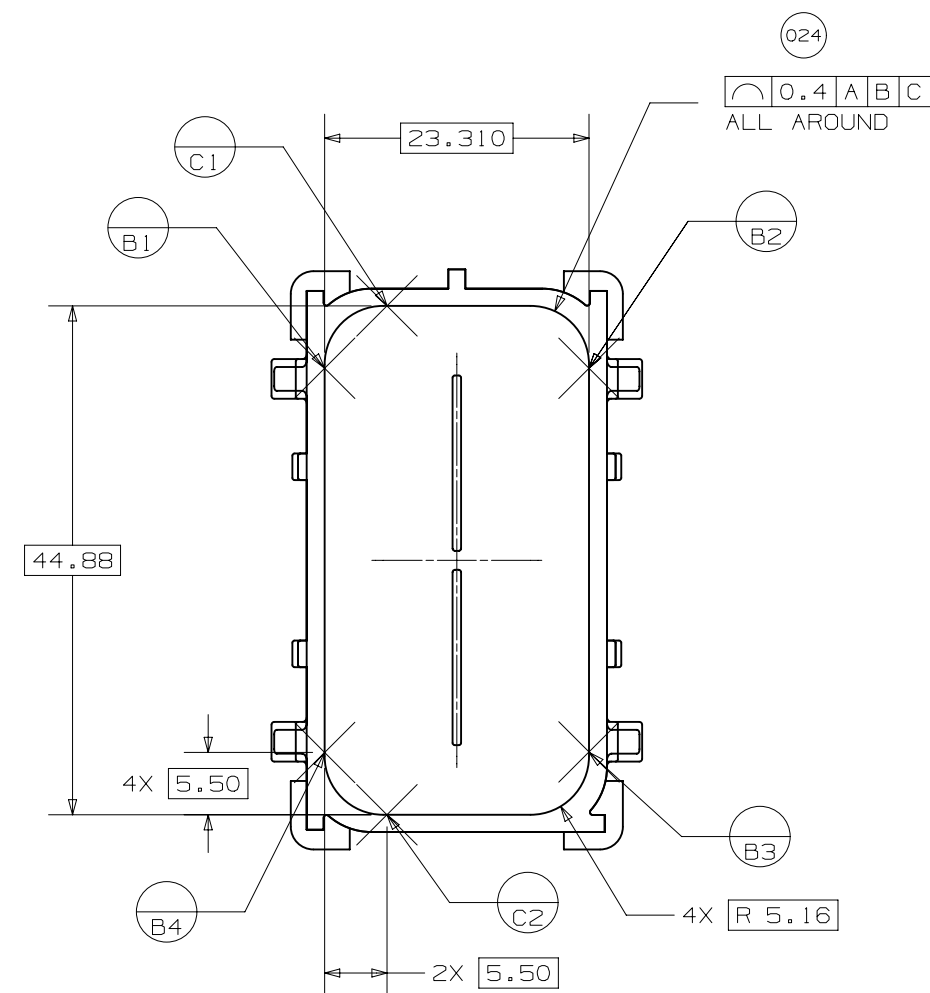
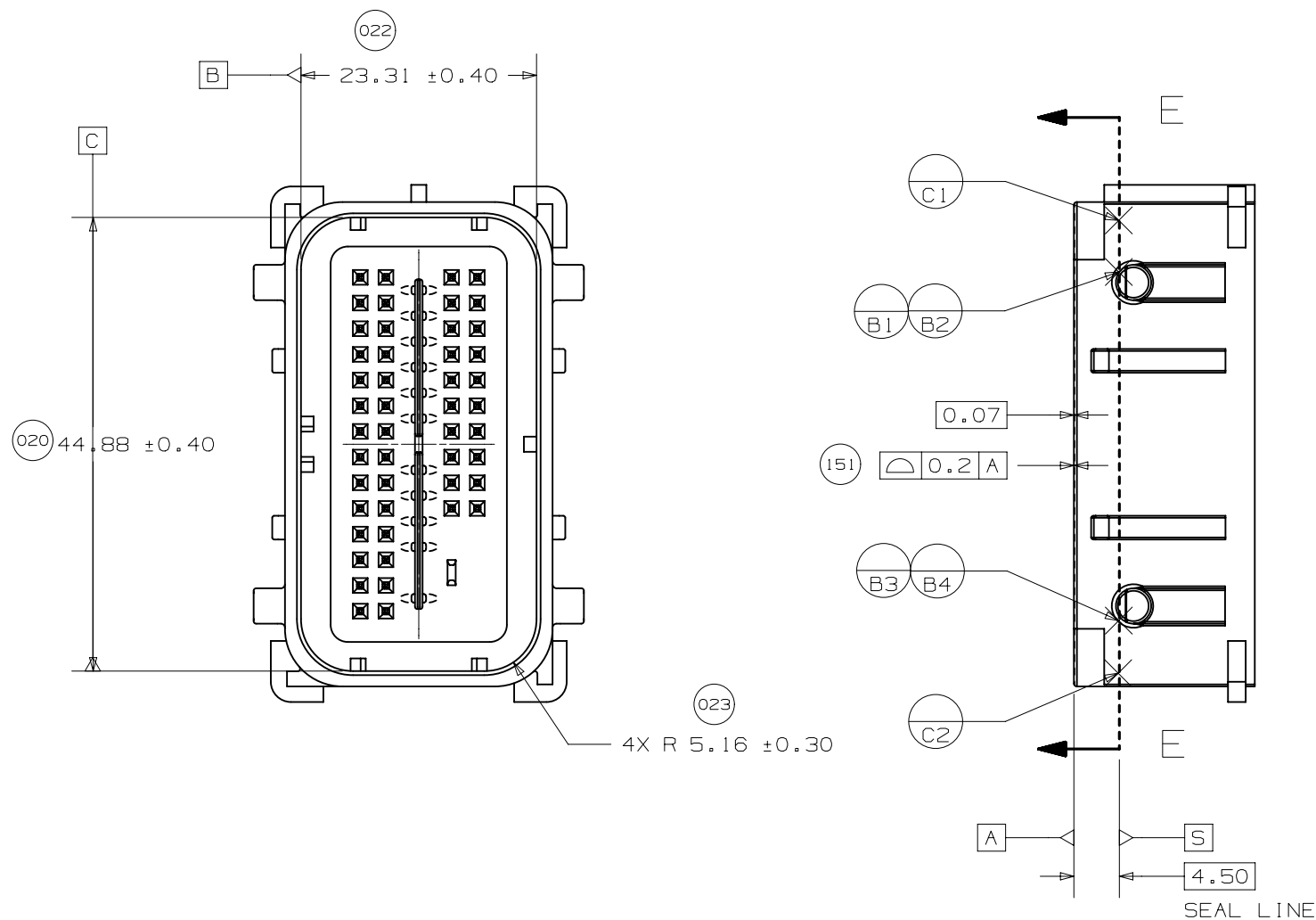
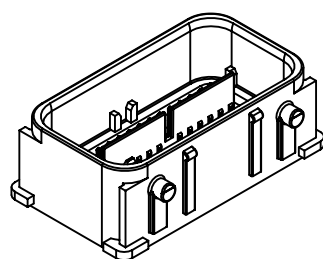
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PAGE TITLE
CIRCUIT CONFIGURATIONS

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12642694

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SECTION E-E
(AT SEAL LINE)

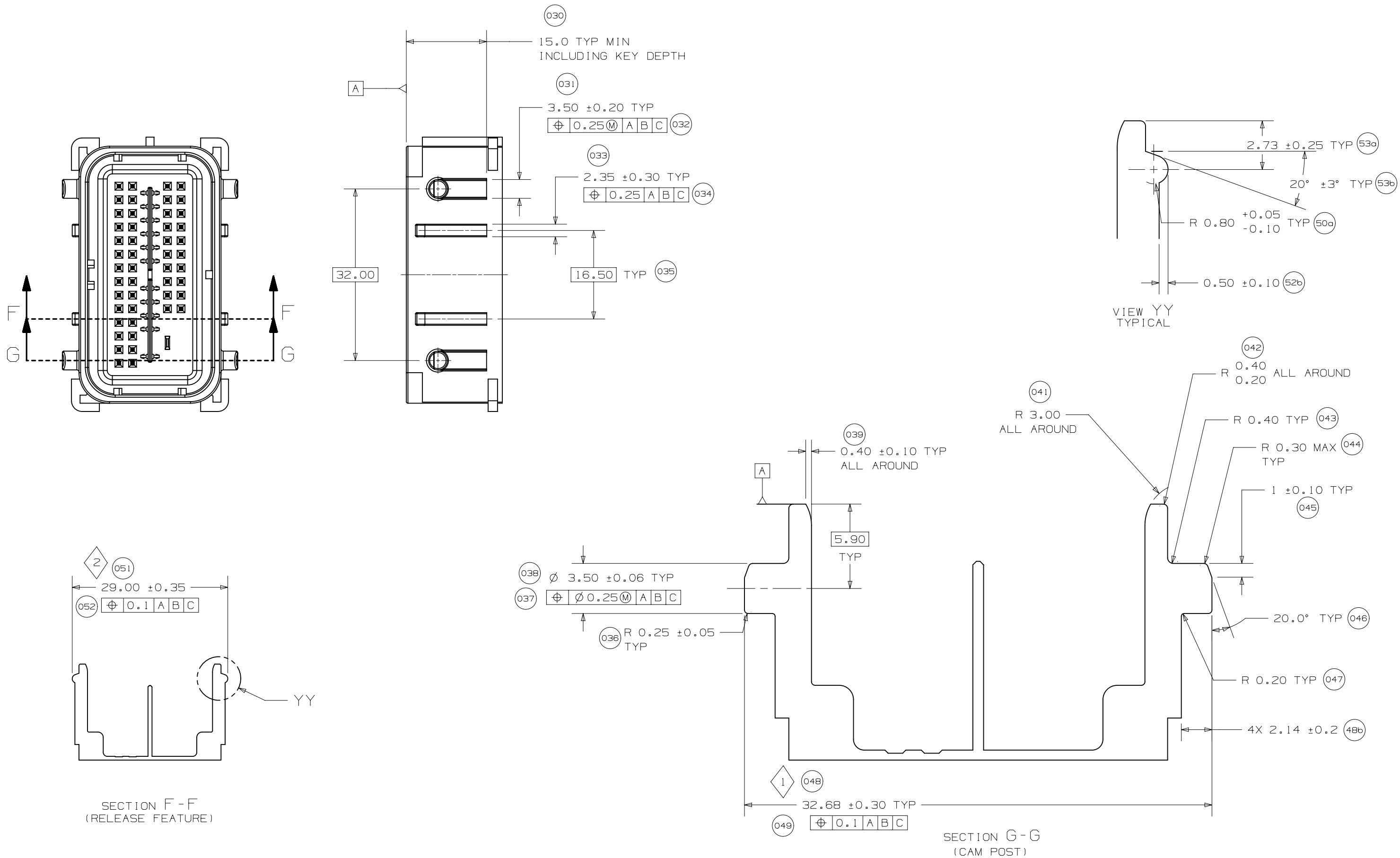
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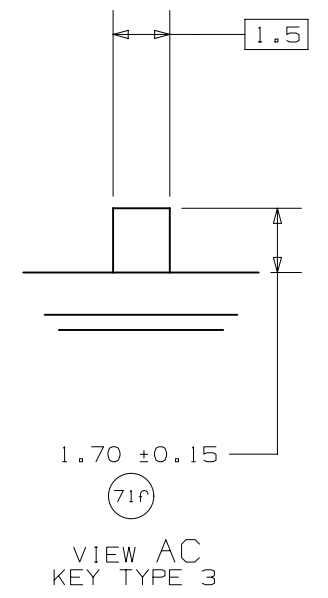
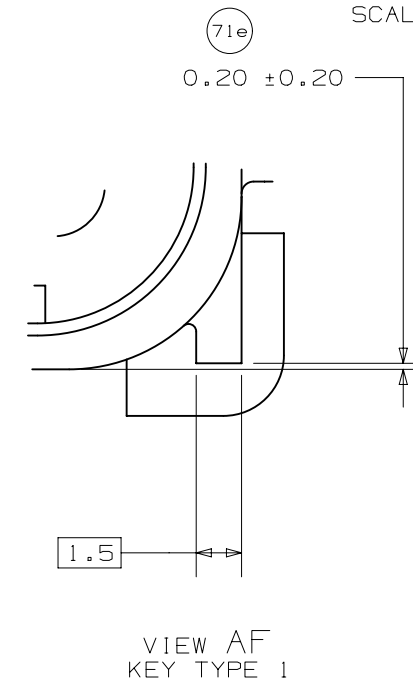
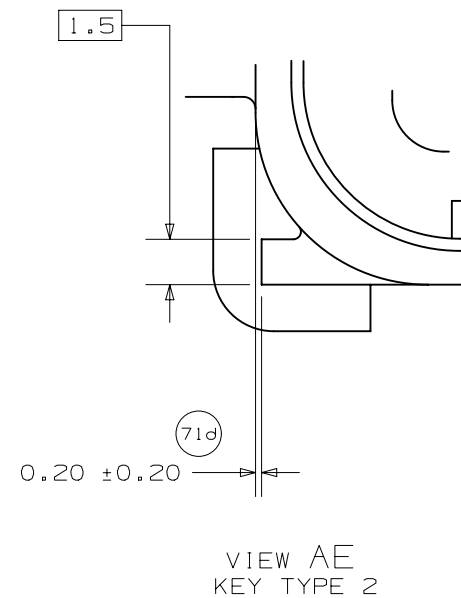
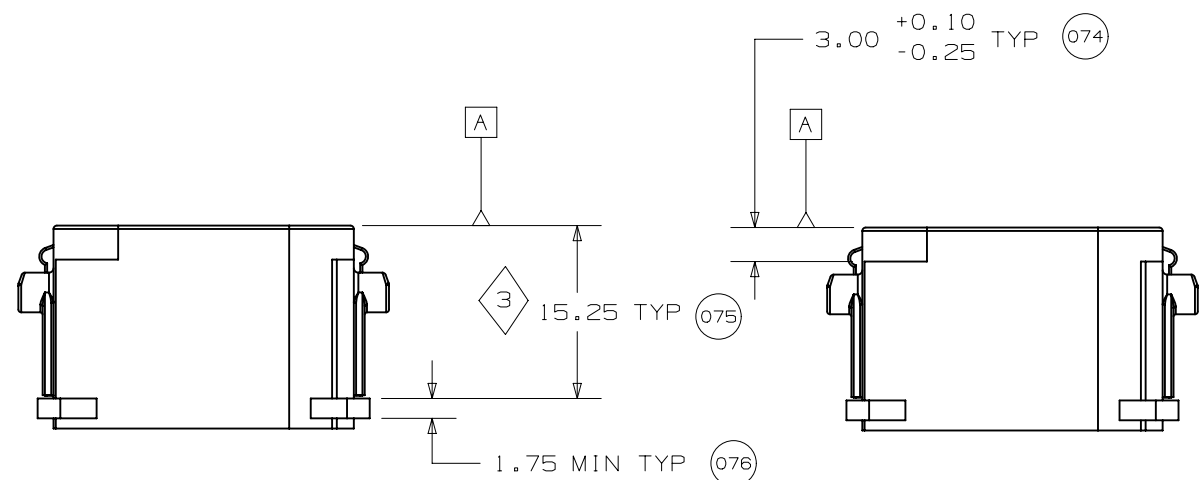
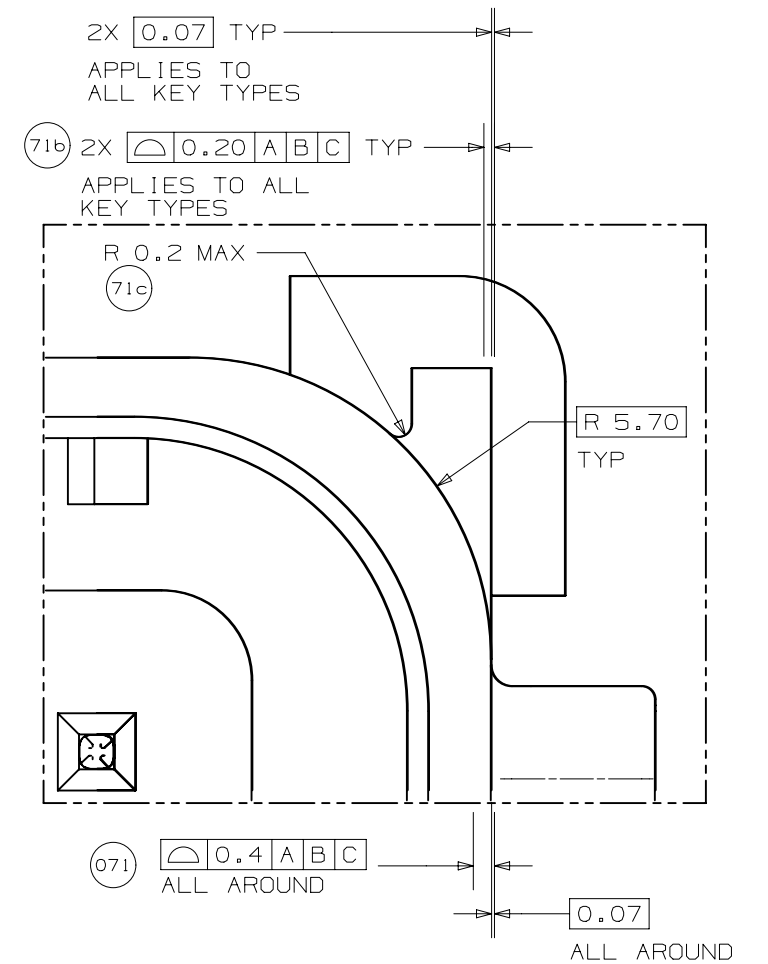
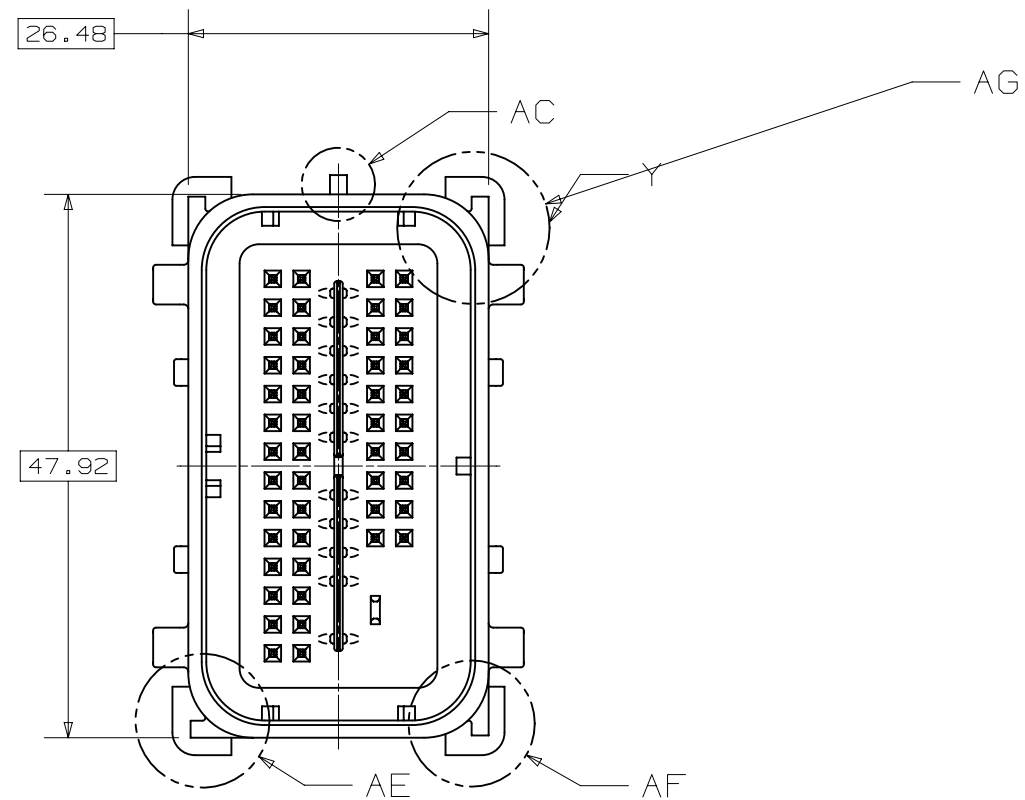
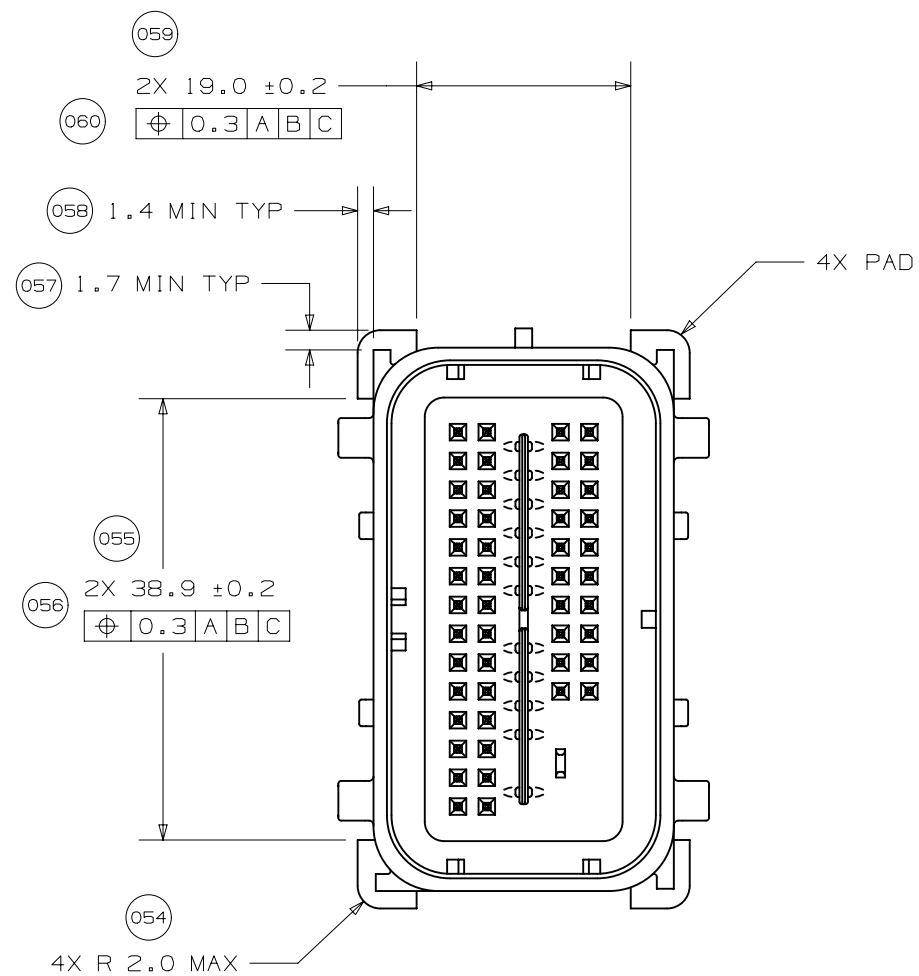


PAGE TITLE
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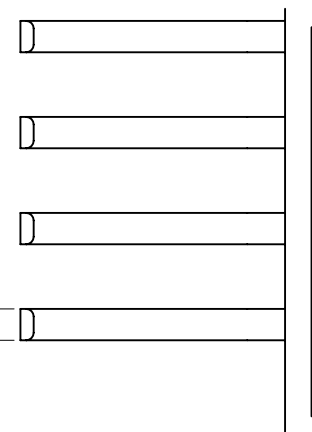
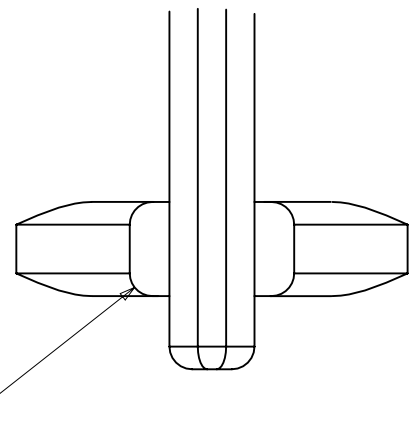
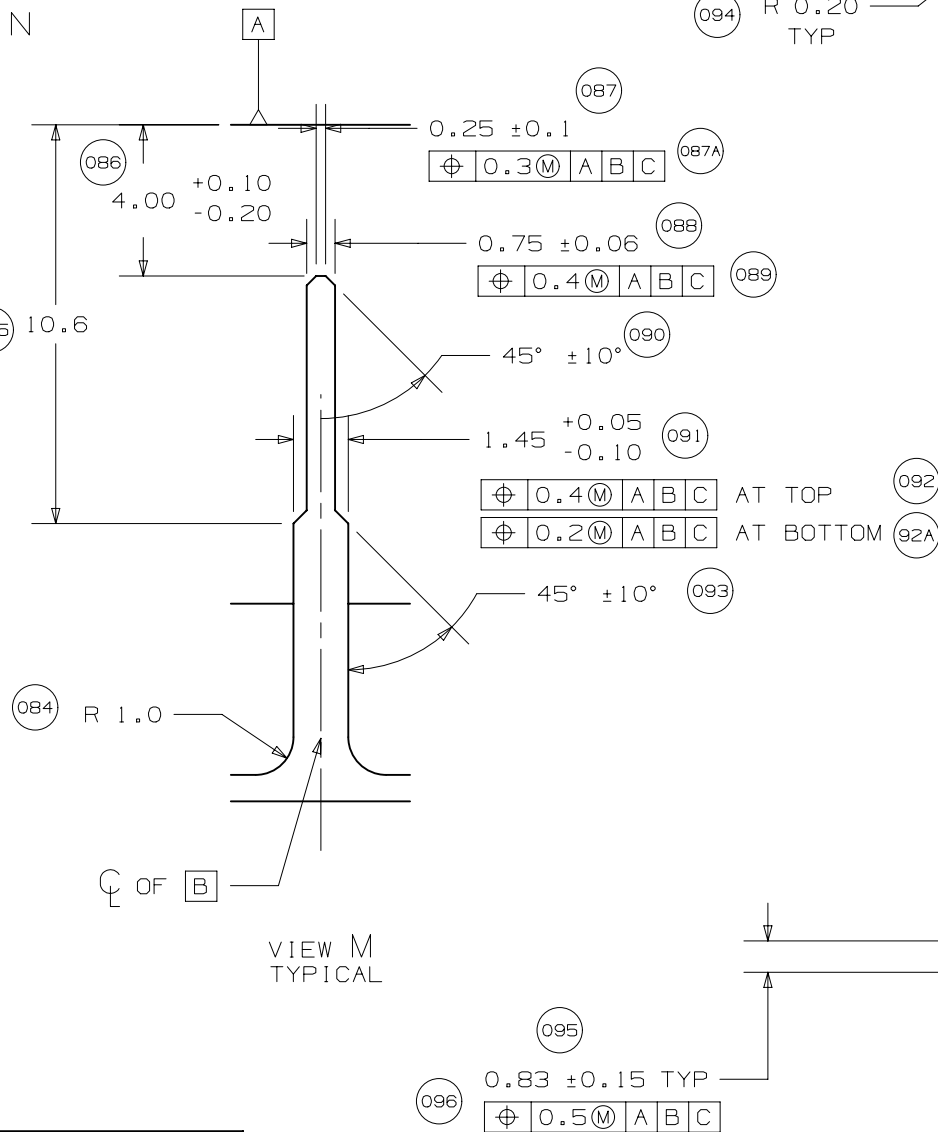
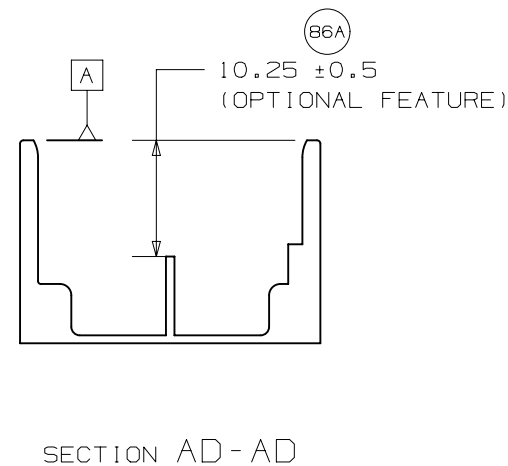
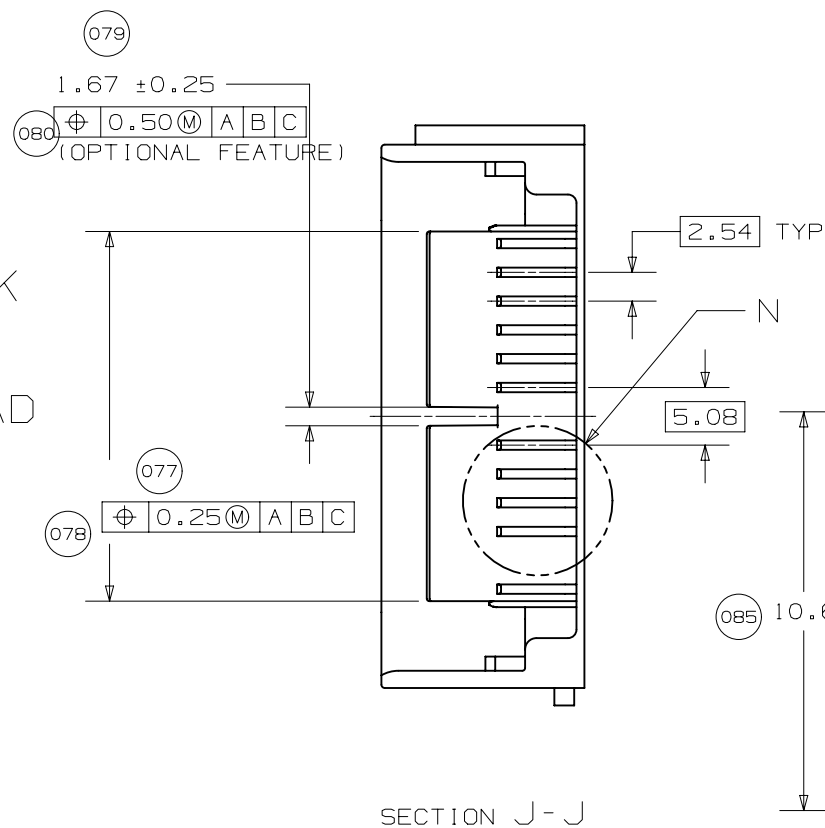
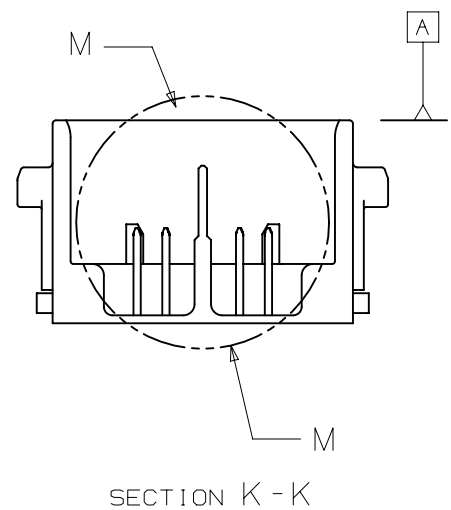
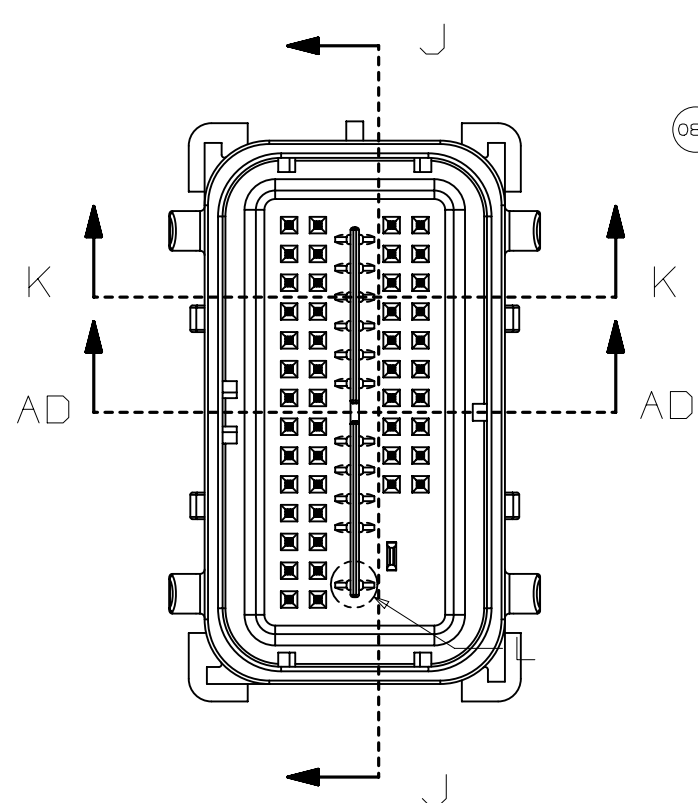


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CKT	DIM (077)
49 / 56 CKT	32.60 +0.10/-0.80
18 CKT	10.04 +0.10/-0.80

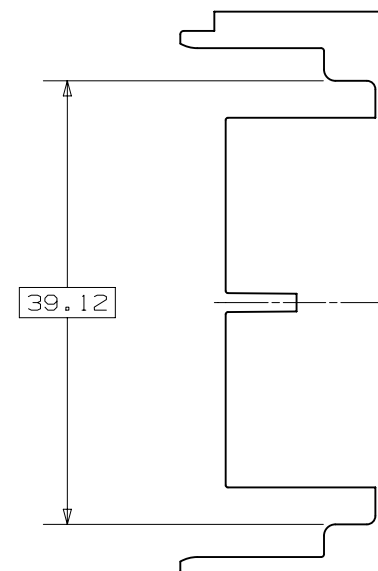
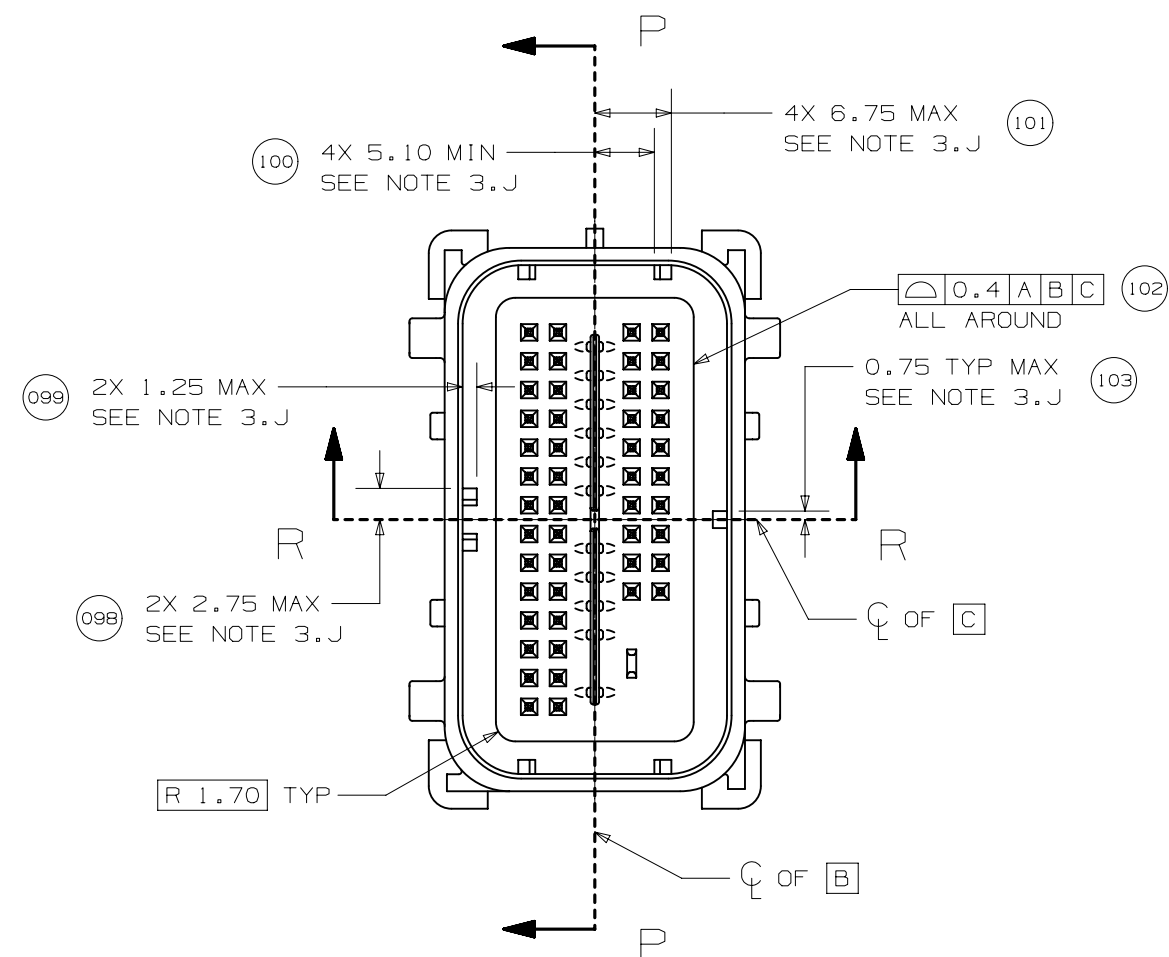


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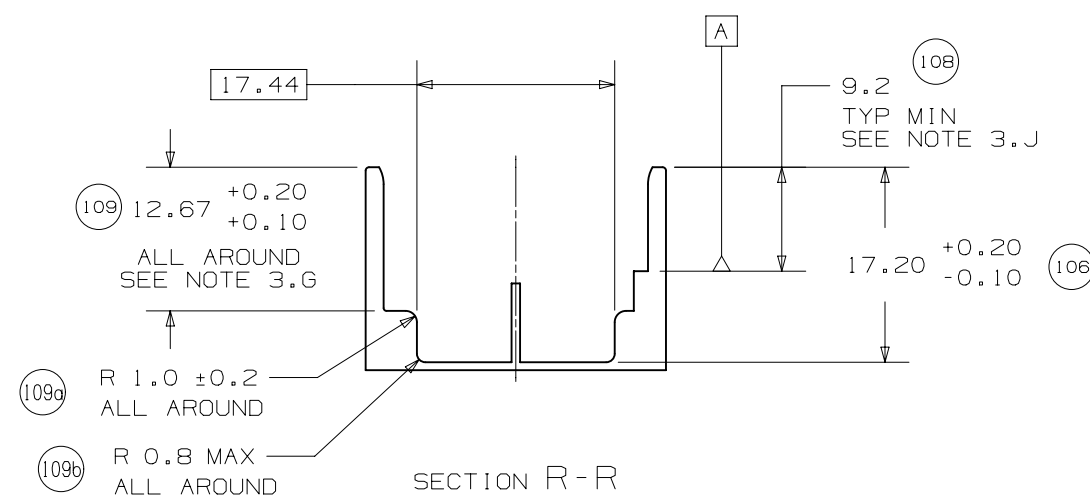
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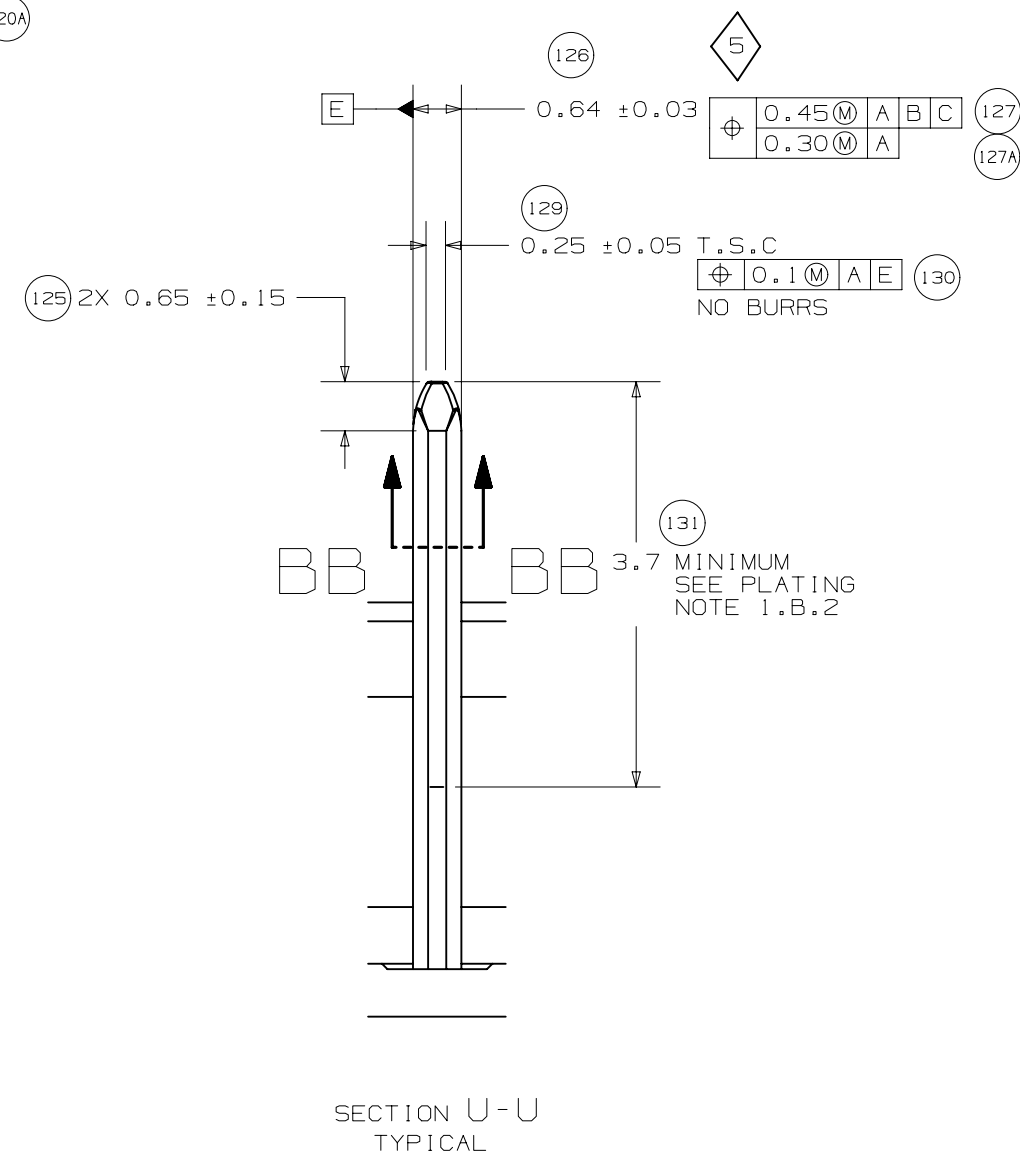
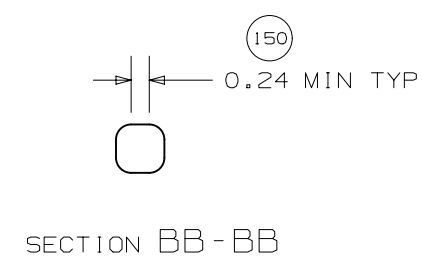
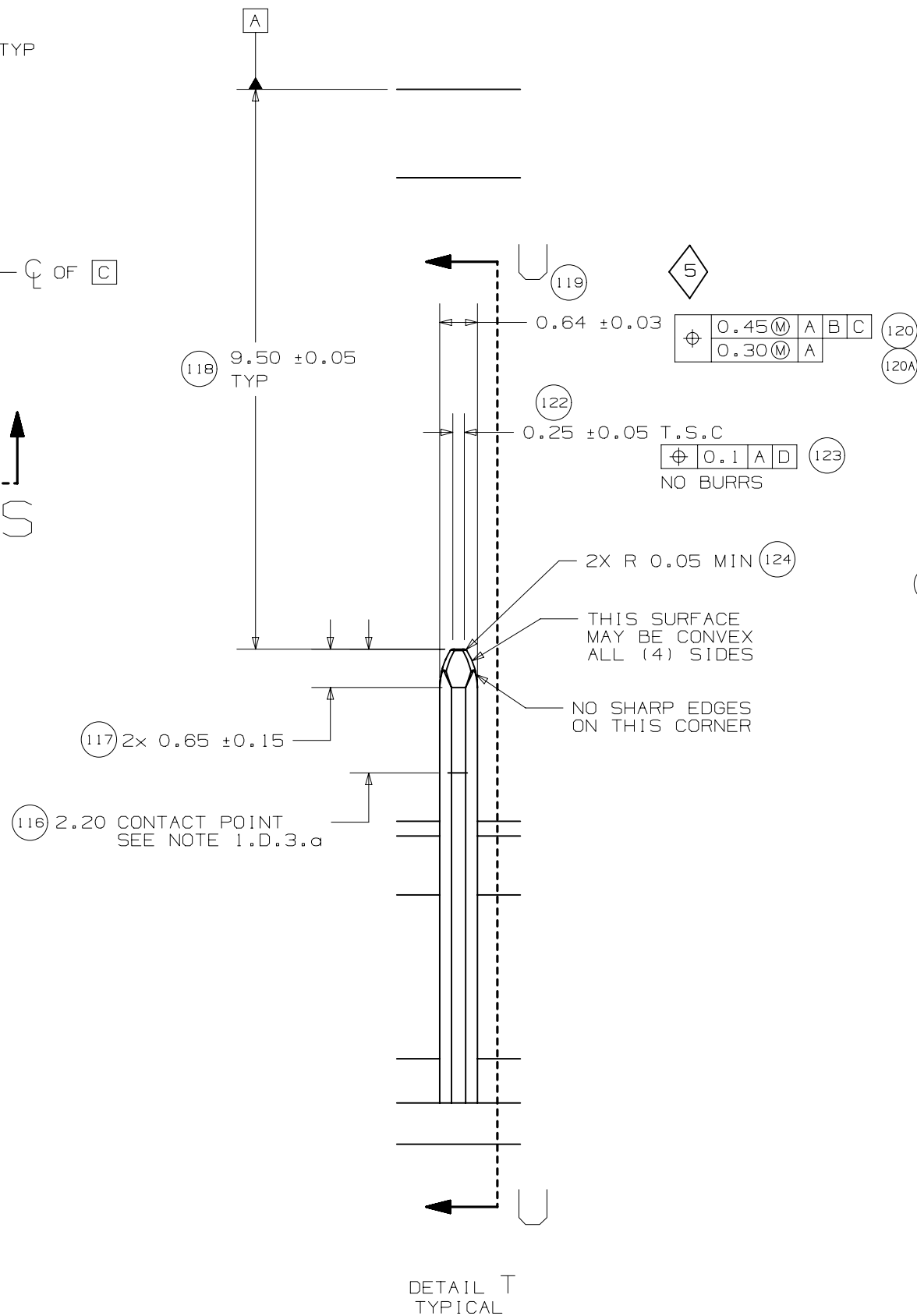
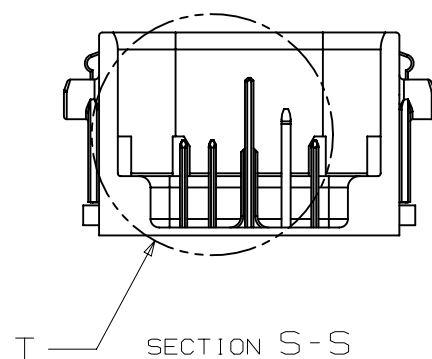
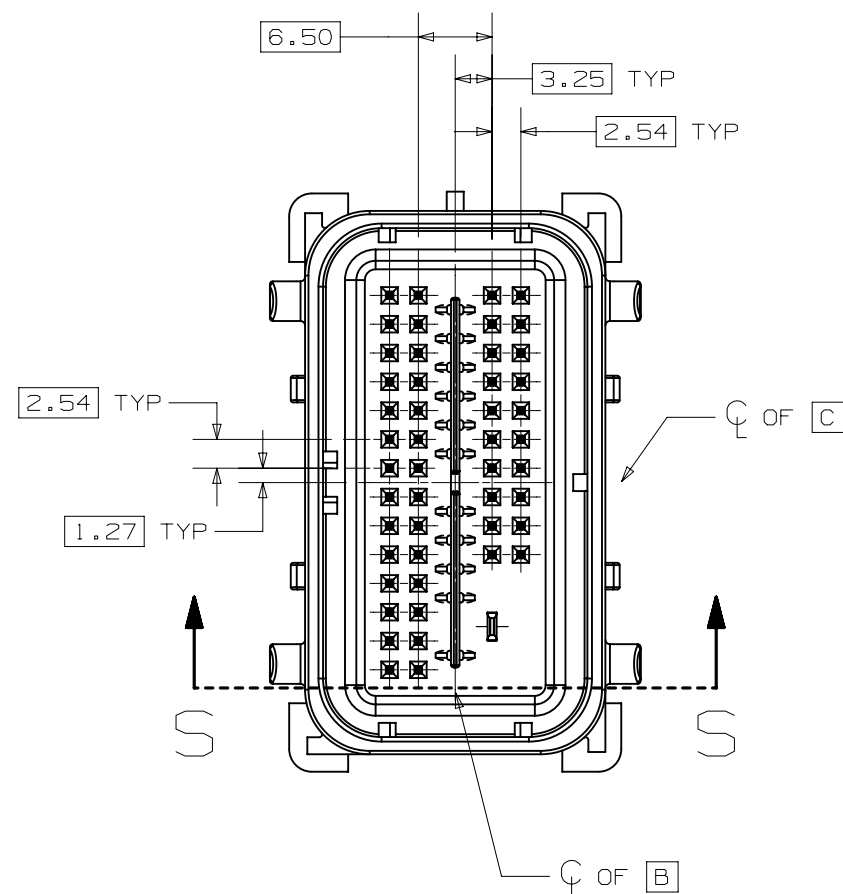


SECTION P-P



SECTION R-R



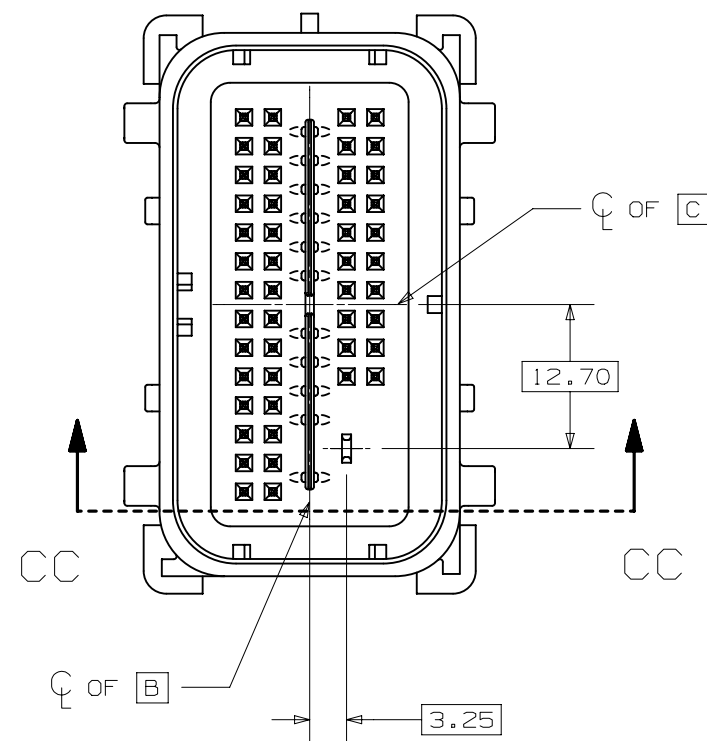


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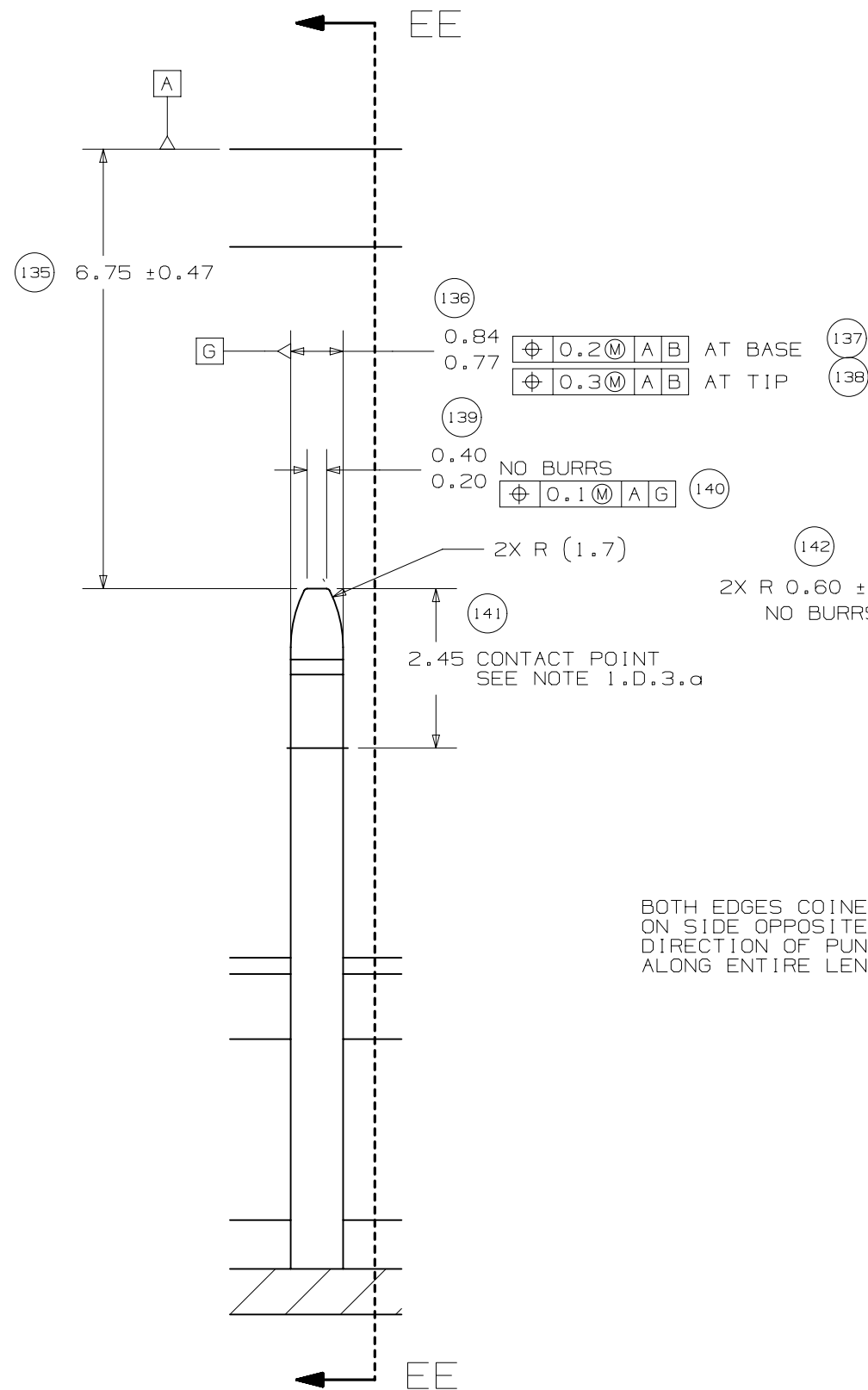
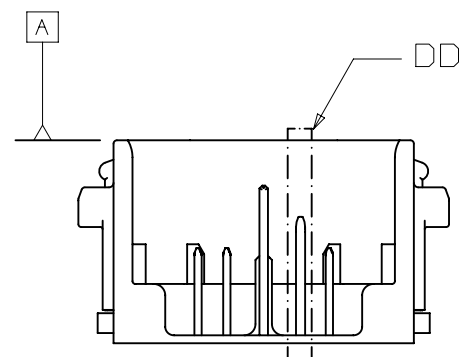
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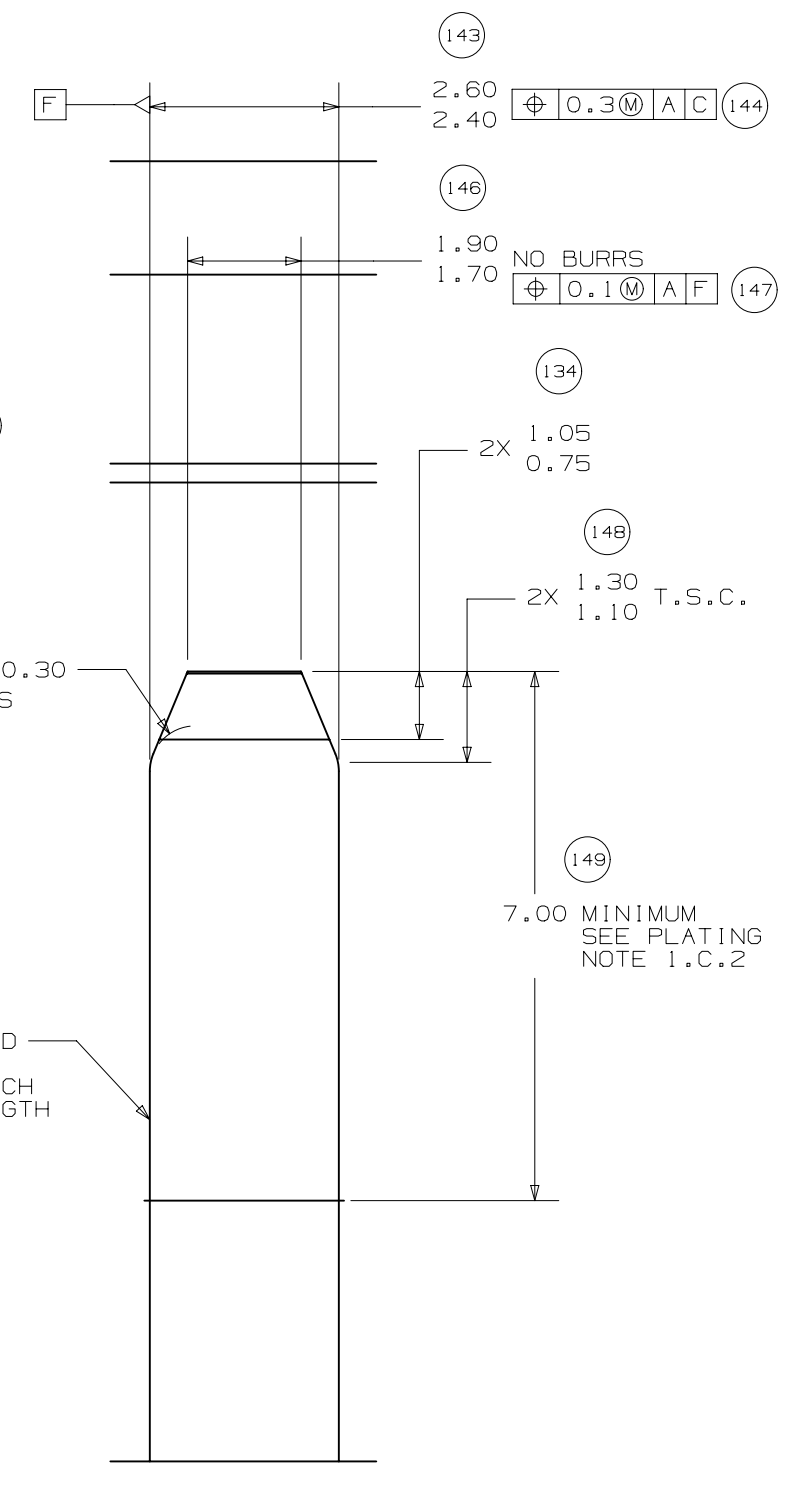
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SECTION CC-CC



DETAIL DD
TYPICAL



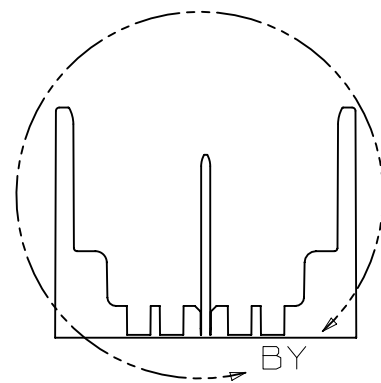
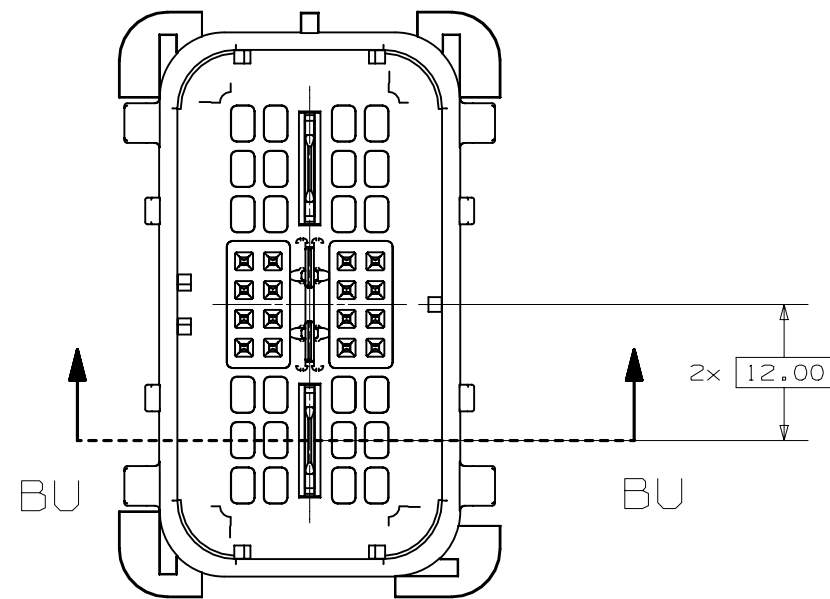
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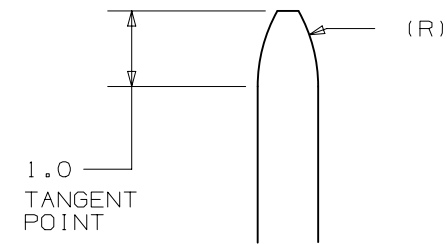
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COMPONENT CONNECTOR INTERFACE

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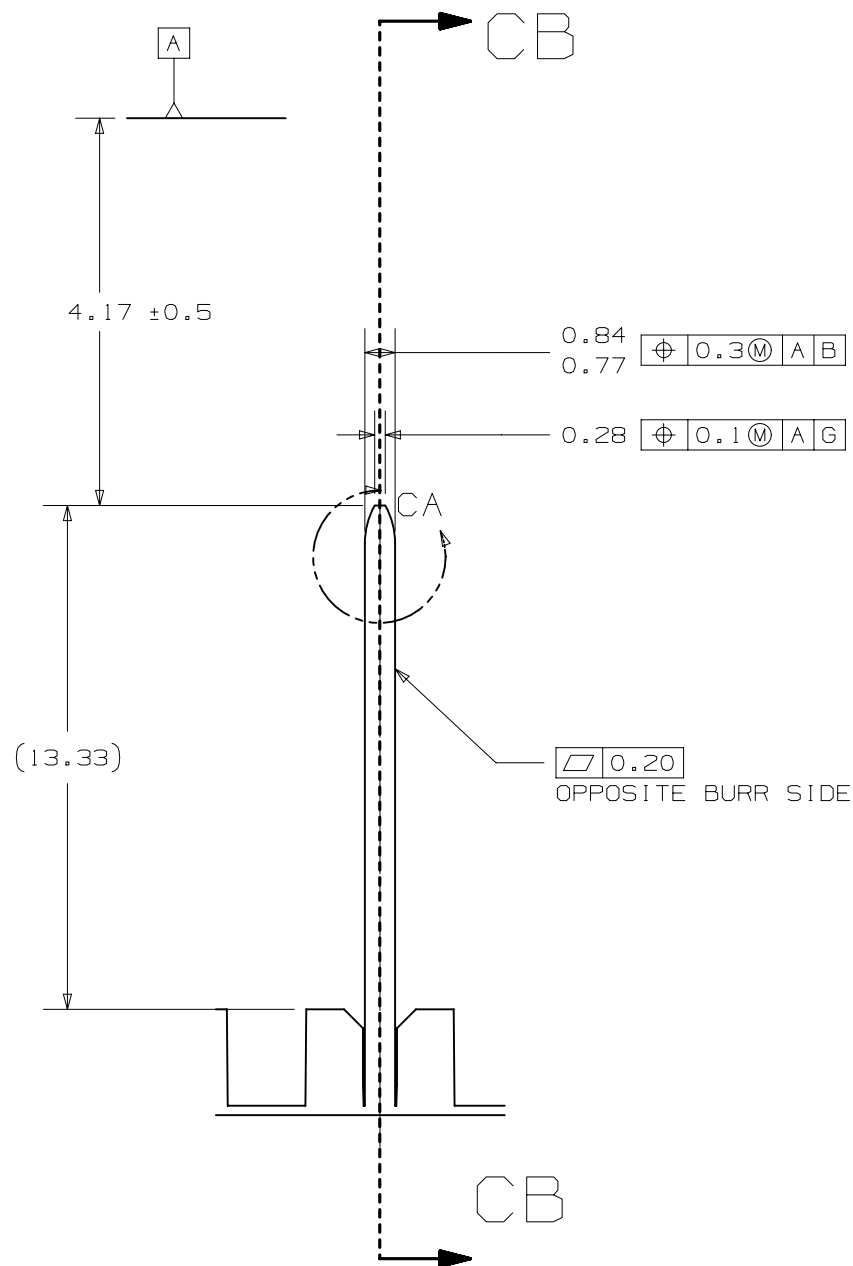
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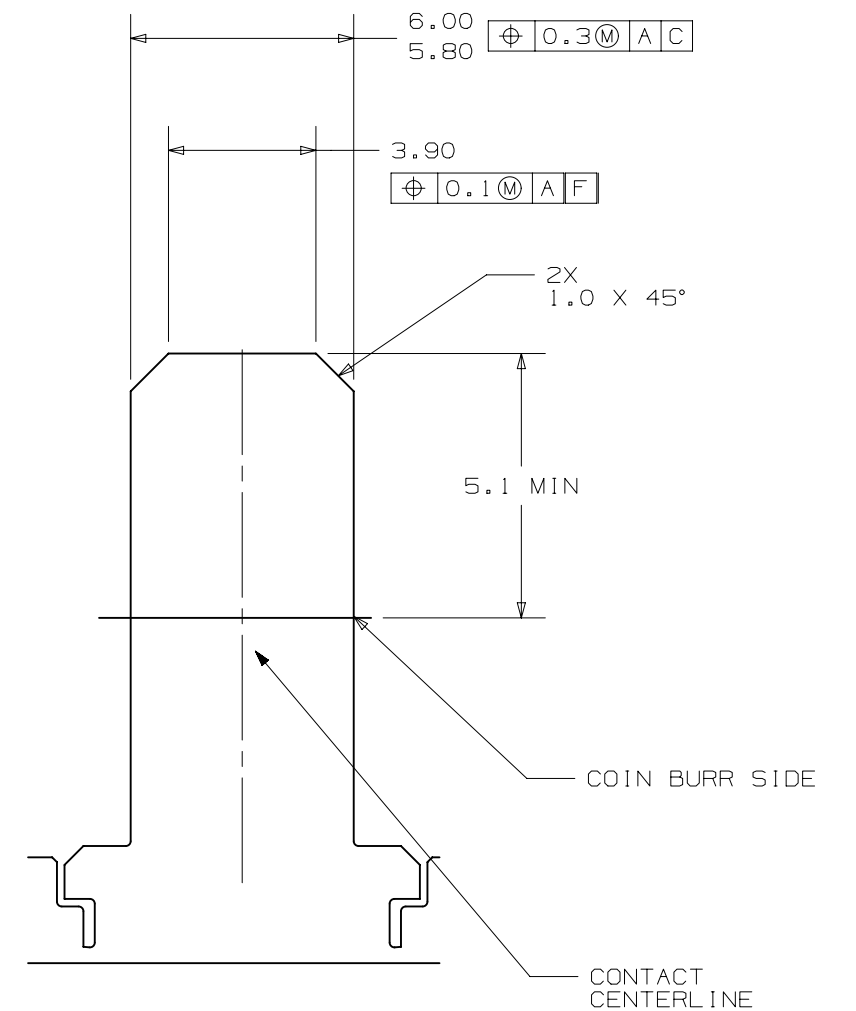
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VIEW CA
SCALE 10:1



VIEW BY
SCALE 5:1



SECTION CB-CB

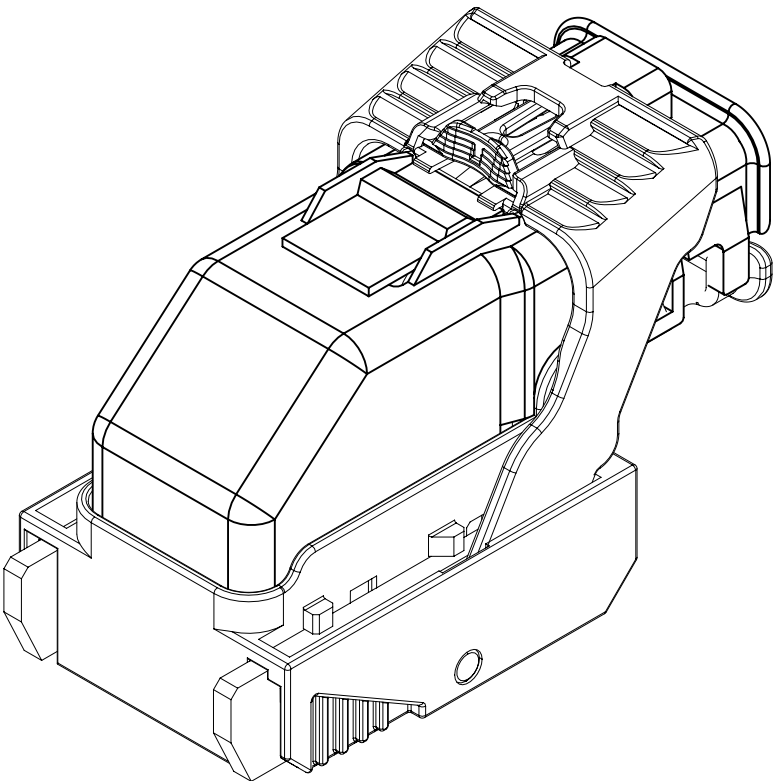


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COMPONENT CONNECTOR INTERFACE

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ISO VIEW

		THIS DOCUMENT IS IN ACCORDANCE WITH ASME Y14.5M-1994 AS AMENDED BY THE GM GLOBAL DIMENSIONING AND TOLERANCING ADDENDUM - 2004.			
		DATE			
 CHANGE RESTRICTED NO MANUAL CHANGES	REFERENCE 12H (MOLEX AUTOMOTIVE)	DRAFTER	D. KOEHLER	28AP15	
		APVD1	M.R. OOSTERINK	29AP15	
APVD2		J. SWARTZ	29AP15		
APVD3		G. FLECK	08MY15		
APVD4					
DO NOT SCALE		APVD5			
METRIC DIMENSIONS SHOWN IN MILLIMETERS UNLESS OTHERWISE SPECIFIED	DRAWING NAME HARNESS CONN ASM-SEALED 18/49/56 CKTS, MX123				
	DRAWING NUMBER 12642694	DWG STATUS			PAGE NUMBER 1 of 22
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		R	001		

PAGE	DWG STATUS					REVISION HISTORY	AUTH	DR	CK	ENG
	DATE	ST	REV	CHG	PDI					

PAGE	DWG STATUS					REVISION HISTORY	AUTH	DR	CK	ENG
	DATE	ST	REV	CHG	PDI					
	08MY15	R	001			RELEASED TO PRODUCTION AT DLS A	CRMRJD	DFK	MRO	GF

				KEY PRODUCT CHARACTERISTICS (IN ACCORDANCE WITH QN 1805 OR QN 1050)							
				⊖ SAFETY/COMPLIANCE ◇ FIT/FUNCTION			TOTAL ON DRAWING	5			
							LAST NO. USED	5			
				NO	TYPE	DESCRIPTION	RATIONALE		PAGE/ZONE		
				1	F/F	32.68	IMPROVE CONNECTOR SYSTEM MATING		16		
2	F/F	29.00	INSURE PROPER RELEASE OF LEVER		16						
3	F/F	15.25	INSURE FINAL MATE POSITION		17						
5	F/F	POSITIONAL TOLERANCE (2 PLACES)	INSURE CONNECTOR SYSTEM MATIBILITY		20						
GM		PAGE TITLE KPC BLOCK				DRAWING NUMBER		DWG STATUS		PAGE NUMBER	
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						R		001		4	OF

APPLICABLE COMPONENTS										
FIG.	MFG.	MFG. P/N	GM P/N	Effective Date	DESCRIPTION	Key Option	Wire Dress Option	Key Config.	Color	Status
1	Molex	34575-0003	12582679	02JN03	WIRE HARNESS COVER	N/A	NA	N/A	BLACK	AVAILABLE
2	Molex	34576-0103	12666118	31JL15	HARN CONN ASM 49 CKT	A	0	1458	BLACK	ACTIVE
3	Molex	34576-0203	12650786	T.B.D.	HARN CONN ASM 49 CKT	B	0	1468	ST GRAY	NOT ACTIVE
4	Molex	34576-0303	12666120	31JL15	HARN CONN ASM 49 CKT	C	0	2467	BLUE	ACTIVE
5	Molex	34576-0403	12615660	T.B.D.	HARN CONN ASM 49 CKT	D	0	2367	BROWN	NOT ACTIVE
6	Molex	34576-0503	12615661	T.B.D.	HARN CONN ASM 49 CKT	E	0	2468	GREEN	NOT ACTIVE
7	Molex	34576-0603	12615662	T.B.D.	HARN CONN ASM 49 CKT	F	0	1357	NATURAL	NOT ACTIVE
8	Molex	34576-0703	12582680	11JN04	HARN CONN ASM 56 CKT	G	0	1358	BLUE	AVAILABLE
9	Molex	34576-0803	12582681	11JN04	HARN CONN ASM 56 CKT	H	0	2458	ST GRAY	AVAILABLE
10	Molex	34576-0903	12615658	T.B.D.	HARN CONN ASM 56 CKT	J	0	2457	BLACK	NOT ACTIVE
11	Molex	34576-1003	AVA77166	T.B.D.	HARN CONN ASM 56 CKT	K	0	2357	BROWN	NOT ACTIVE
12	Molex	34576-1103	AVA77167	T.B.D.	HARN CONN ASM 56 CKT	L	0	2368	GREEN	NOT ACTIVE
13	Molex	34576-1203	AVA77168	T.B.D.	HARN CONN ASM 56 CKT	M	0	2358	NATURAL	NOT ACTIVE
14	Molex	34576-1303	12666119	31JL15	HARN CONN ASM 49 CKT	A	9	1458	BLACK	ACTIVE
15	Molex	34576-1403	12650787	T.B.D.	HARN CONN ASM 49 CKT	B	9	1468	ST GRAY	NOT ACTIVE
16	Molex	34576-1503	12666121	31JL15	HARN CONN ASM 49 CKT	C	9	2467	BLUE	ACTIVE
17	Molex	34576-1603	12615663	T.B.D.	HARN CONN ASM 49 CKT	D	9	2367	BROWN	NOT ACTIVE
18	Molex	34576-1703	12615664	T.B.D.	HARN CONN ASM 49 CKT	E	9	2468	GREEN	NOT ACTIVE
19	Molex	34576-1803	12615665	T.B.D.	HARN CONN ASM 49 CKT	F	9	1357	NATURAL	NOT ACTIVE
20	Molex	34576-1903	12603600	11JN04	HARN CONN ASM 56 CKT	G	9	1358	BLUE	AVAILABLE
21	Molex	34576-2003	12603601	T.B.D.	HARN CONN ASM 56 CKT	H	9	2458	ST GRAY	NOT ACTIVE
22	Molex	34576-2103	12615659	T.B.D.	HARN CONN ASM 56 CKT	J	9	2457	BLACK	NOT ACTIVE
23	Molex	34576-2203	AVA77192	T.B.D.	HARN CONN ASM 56 CKT	K	9	2357	BROWN	NOT ACTIVE
24	Molex	34576-2303	AVA77193	T.B.D.	HARN CONN ASM 56 CKT	L	9	2368	GREEN	NOT ACTIVE
25	Molex	34576-2403	AVA77143	T.B.D.	HARN CONN ASM 56 CKT	M	9	2358	NATURAL	NOT ACTIVE
26	Molex	34851-0007	12644156	31AU15	HARN CONN ASM 18 CKT	G	0	1358	BLUE	ACTIVE
27	Molex	34851-0008	12644158	31AU15	HARN CONN ASM 18 CKT	H	0	2458	ST GRAY	ACTIVE
28	Molex	34851-0019	12644157	31AU15	HARN CONN ASM 18 CKT	G	9	1358	BLUE	ACTIVE
29	Molex	34851-0020	12644159	31AU15	HARN CONN ASM 18 CKT	H	9	2458	ST GRAY	ACTIVE
30	Molex	34736-2002	12642697	01AU10	MX64 RCPT TERM Ag 18/20 GAGE B (RIGHT PAYOFF)	N/A	N/A	N/A	N/A	AVAILABLE
31	Molex	34736-2001	12642696	01AU10	MX64 RCPT TERM Ag 22 GAGE B (RIGHT PAYOFF)	N/A	N/A	N/A	N/A	AVAILABLE
32	Molex	34586-0001	T.B.D.	11JN04	MX123 0.64MM GROMMET PLUG	N/A	N/A	N/A	NATURAL	AVAILABLE
33	Yazaki	7116-4150-02	12588066	02JN03	2.8mm YESC SEALED FEMALE TERMINAL TIN 20/22 GAGE (CABLE RANGE 0.30mm-0.60mm)	N/A	N/A	N/A	N/A	NOT ACTIVE
34	Yazaki	7116-4151-02	12588067	02JN03	2.8mm YESC SEALED FEMALE TERMINAL TIN 16/18 GAGE (CABLE RANGE 0.75mm-1.40mm)	N/A	N/A	N/A	N/A	NOT ACTIVE
35	Yazaki	7116-4152-02	12582685	02JN03	2.8mm YESC SEALED FEMALE TERMINAL TIN 14 GAGE (CABLE RANGE 1.50mm-2.50mm)	N/A	N/A	N/A	N/A	AVAILABLE
36	Yazaki	7158-3111-60	12588068	02JN03	2.8mm CABLE SEAL (wire O.D. range 1.20mm-1.90mm)	N/A	N/A	N/A	GREEN	NOT ACTIVE
37	Yazaki	7158-3112-70	12588069	02JN03	2.8mm CABLE SEAL (wire O.D. range 1.80mm-2.30mm)	N/A	N/A	N/A	YELLOW	NOT ACTIVE
38	Yazaki	7158-3113-40	12582686	02JN03	2.8mm CABLE SEAL (wire O.D. range 2.18mm-3.00mm)	N/A	N/A	N/A	WHITE	AVAILABLE
39	Yazaki	7158-3114-90	T.B.D.	02JN03	2.8mm YESC CAVITY PLUG	N/A	N/A	N/A	BLUE	AVAILABLE
40	FCI	33140138	12646399	10JA14	6.35mm APEX RCPT TERM Sn/Ag GRIP CODE-10 (6mm2) - Greased	N/A	N/A	N/A	N/A	AVAILABLE
41	FCI	33140135	12654556	10JA14	6.35mm APEX RCPT TERM Sn/Ag GRIP CODE-TBD (1mm2) - Greased	N/A	N/A	N/A	N/A	AVAILABLE
42	QSR	A-0549C	12646688	01SE14	6.35mm CABLE SEAL (FOR 6.0mm2 WIRE SIZE - 3.6 TO 4.2mm INSULATION OD)	N/A	N/A	N/A	WHITE	AVAILABLE
43	QSR	A-0549B	12654557	01SE14	6.35mm CABLE SEAL (FOR 0.75-1.25mm2 WIRE SIZE - 1.8 TO 2.3mm INSULATION OD)	N/A	N/A	N/A	BLUE	AVAILABLE
44	Molex	63811-4200	XX019825	02JN03	MX64 TERM HAND CRIMP TOOL	N/A	N/A	N/A	N/A	AVAILABLE
45	Molex	63813-1400	XX019826	02JN03	MX64 TERM SERVICE TOOL	N/A	N/A	N/A	N/A	AVAILABLE
46	Molex	63865-8000	XX019827	02JN03	MX64 CRIMP APPLICATOR with TOOL KIT 18/20 GAGE PAYOFF DIRECTION D (left payoff) (contact Molex for payoff detail)	N/A	N/A	N/A	N/A	AVAILABLE
47	Molex	63865-8070	XX019828	02JN03	MX64 APPLICATOR TOOL KIT 18/20 GAGE	N/A	N/A	N/A	N/A	AVAILABLE
48	Molex	63865-8100	XX019829	02JN03	MX64 CRIMP APPLICATOR with TOOL KIT 22 GAGE PAYOFF DIRECTION D (left payoff) (contact Molex for payoff detail)	N/A	N/A	N/A	N/A	AVAILABLE
49	Molex	63865-8170	XX019830	02JN03	MX64 APPLICATOR TOOL KIT 22 GAGE	N/A	N/A	N/A	N/A	AVAILABLE
50	SPX	J35616-64	T.B.D.	02JN03	0.64mm PROBE TOOL (for rcpt)	N/A	N/A	N/A	N/A	AVAILABLE
51	SPX	J35616-64A	T.B.D.	02JN03	0.64mm PROBE TOOL WITH EXT (for rcpt)	N/A	N/A	N/A	N/A	AVAILABLE
52	SPX	J35616-65	T.B.D.	02JN03	0.64mm PROBE TOOL WITH EXT (for pin)	N/A	N/A	N/A	N/A	AVAILABLE
53	SPX	J35616-4A	T.B.D.	02JN03	2.8mm PROBE TOOL (for rcpt)	N/A	N/A	N/A	N/A	AVAILABLE
54	YAZAKI	X39899-J374	12094430	02JN03	2.8mm TERM SERVICE TOOL	N/A	N/A	N/A	N/A	AVAILABLE
55	TQI	7000-1001	N/A	01FE15	18CKT PASS THROUGH ADAPTERS	N/A	N/A	N/A	BLACK	AVAILABLE
56	TQI	7000-1004	N/A	01FE15	49CKT PASS THROUGH ADAPTERS	N/A	N/A	N/A	BLACK	AVAILABLE
57	TQI	79917-0060	N/A	02JA08	56CKT PASS THROUGH ADAPTERS	N/A	N/A	N/A	BLACK	AVAILABLE
58	Molex	63813-1500	J-38125-217	01SE14	6.35mm APEX TERM SERVICE TOOL	N/A	N/A	N/A	N/A	AVAILABLE

* MX123 WIRE HARNESS COVER MATES TO ANY 18/49/56 CKT MX123 HARN CONN ASSY SHOWN ON THIS TABLE

	PAGE TITLE	DRAWING NUMBER	DWG STATUS			PAGE NUMBER
	COMPONENT TABLE		ST	REV	PD1	
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NOTES: UNLESS OTHERWISE SPECIFIED

1. MATERIAL FOR INTERFACE:

- A. RESIN:

1. 30% G.F. PBT; 20% MAX. (BY WEIGHT) REGRIND.

2. MATING CONNECTOR INTERFACE PART COLOR MUST BE SAME AS MATCHING KEYED HARNESS CONNECTOR ASSEMBLY.

3. MUST BE VALIDATED FOR INDIVIDUAL DEVICE APPLICATION REQUIREMENTS.
- B. 0.64MM PINS:

1. BASE MATERIAL: COPPER ALLOY; CONDUCTIVITY >= 28% IACS AT 20°C; TENSILE STRENGTH >= 635 N/mm²; SURFACE ROUGHNESS R_a 6 MAX.

2. PLATING FINISH: SILVER (Ag). PLATING TO BE 1.9-3.3 µm ELECTRODEPOSITED SEMI-BRIGHT SILVER OVER 1.25-2.25 µm DUCTILE SULPHAMATE NICKEL PER NOTE 1(D).

3. ANTI-TARNISH: SYNTHETIC HYDROCARBON CONTACT SURFACE FINISH OR EQUIVALENT APPLIED WITHOUT VOID TO CONTACT AREA (MIN 3.7mm FROM PIN TIP).
- C. 2.8MM BLADE:

1. BASE MATERIAL: COPPER ALLOY; CONDUCTIVITY>= 28% IACS AT 20°C; TENSILE STRENGTH >= 350 N/mm²; SURFACE ROUGHNESS R_a 6 MAX.

2. PLATING FINISH: TIN. PLATING TO BE 2.5-5.0 µm ELECTRODEPOSITED TIN, MATTE FINISH OVER 1.25-2.5µm DUCTILE SULPHAMATE NICKEL PER NOTE 1(D).
- D. 6.3MM BLADE:

1. BASE MATERIAL: COPPER ALLOY; CONDUCTIVITY>= 50% IACS AT 20°C;

2. PLATING FINISH: SILVER (Ag) PLATING TO BE 1.9-3.3 µm ELECTRODEPOSITED SEMI-BRIGHT SILVER, OVER 1.25-2.5µm DUCTILE SULPHAMATE NICKEL PER NOTE 1(D) WITH ENVIRONMENTAL BARRIER OR TIN/SILVER (ELECTRO-DEPOSITED), UNDERPLATE 0.5-2.0 µm NICKEL OR COPPER. TOP PLATING: 1.0-3.0 µm (SILVER RANGE 3.75-X.XX NO ANTI-TARNISH COATING REQUIRED).
- E. PLATING REQUIREMENTS:

1. SILVER PLATING

a. 99.5% PURE SEMI-BRIGHT WITH NO ORGANIC BRIGHTNERS OR CHROMATES.

2. NICKEL PLATING

a. ELECTRODEPOSITED DUCTILE SULFAMATE NICKEL WITH A NON-BRIGHTENED FINISH. NO ORGANIC OR BRIGHTENING AGENTS SHALL BE ALLOWED.

b. SHALL ONLY BE USED AS AN UNDERLYING PLATING AND MAY NOT BE USED AS AN ELECTRICAL CONTACT SURFACE PLATING.

c. SHALL BE NODULE FREE WHEN VIEWED AT 10X MAGNIFICATION IN MEASURED IN CONTACT SURFACE AREA PLUS 0.5MM PERIMETER AROUND THE CONTACT SURFACE AREA.

d. ALL PLATINGS SHALL HAVE A 1.0% MAXIMUM BY WEIGHT IMPURITIES. IMPURITIES ARE DEFINED AS ALL ELEMENTS NOT THE PRIMARY PLATING OR HARDENING AGENT IF APPLICABLE, AS DETERMINED BY WET CHEMICAL ANALYSIS OR AUGER METHOD. NO SINGLE IMPURITY SHALL EXCEED 0.1% MAXIMUM BY WEIGHT.

3. TESTING

a. THICKNESS TO BE MEASURED IN CONTACT SURFACE AREA PLUS 0.5MM PERIMETER AROUND THE CONTACT SURFACE AREA AS DESIGNATED IN THE DRAWING. THICKNESS SHALL BE DETERMINED BY METHOD OF X-RAY (XRF).

b. PLATING ADHESION SHALL BE TESTED BY A BEND TEST FOR ALL METALS. THE TEST SAMPLE SHALL BE BENT 90 DEGREES TO DETERMINE DEPOSIT ADHESION. TESTING SHALL BE COMPLETED IN ACCORDANCE WITH ASTM SPEC B571.

2. DESIGN - GENERAL:

- A. THIS IS A 100% CAD GENERATED PART. THE CAD MATHEMATICAL DATA IS THE MASTER FOR THIS PART. WHERE DIMENSIONS ARE SPECIFIED ON THE DRAWING, THE DRAWING IS THE AUTHORITY FOR DIMENSIONAL VALUES. FOR DIMENSIONAL OR ANY INFORMATION NOT SHOWN ON THIS DRAWING, ANALYZE THE CAD MODEL.
- B. DIMENSIONS OBTAINED FROM THE DIGITAL MODEL ARE BASIC:

1. FOR RELATIONSHIPS BETWEEN FEATURES WHEN ESTABLISHED BY GEOMETRIC TOLERANCES.

2. FOR THE FORM OF A FEATURE WHEN CONTROLLED BY A PROFILE TOLERANCE.

3. FOR THE SIZE, FORM AND/OR RELATIONSHIP BETWEEN FIXED DATUM TARGETS.
- C. DIMENSIONS OBTAINED FROM THE DIGITAL MODEL ARE ROUNDED TO TWO DECIMAL PLACES (PER IEEE/ASTM SI 10-2002)
- D. VIEWS AND SECTIONS ON THIS DRAWING ARE IN ACCORDANCE WITH GM DCS SECTION C3.
- E. THE DIGITAL MODEL MUST CORRESPOND TO THE RELEASE LEVEL SHOWN IN THE PART BLOCK ON THIS DOCUMENT.
- F. TOLERANCES:

1. LINEAR

0.X ± 0.30

0.XX ± 0.10

0.XXX ± 0.10

2. ANGULAR

X° ± 3°

3.

1.0

A

B

C
- G. MINIMUM WALL THICKNESS REQUIRED: 1.3mm.
- H. CORNERS SHOWN AS SHARP TO BE R 0.2 MAX.
- J. LETTERING SHALL BE 0.15 MAX RAISED IN 0.20 MAX RECESS PAD. THIS INCLUDES MATERIAL CODE, RECYCLING CODE, CAVITY ID AND DATE CODE.
- K-1. PARTS MUST BE FREE OF DISCOLORATION, SALT RESIDUE AND OTHER IMPERFECTIONS THAT AFFECT FIT OR FUNCTION.
- K-2. SCRATCHES OR DENTS NOT TO EXCEED 0.013mm IN DEPTH.
- L. FOLLOWING PRODUCTION CODES TO BE PERMANENTLY MARKED & HUMAN READABLE TO A LETTER HEIGHT OF 1.5 ±0.5MM X 0.3 MAX DEEP

1. MATERIAL #: XXXXX-XXXX

2. DATE CODE: JJJY (JULIAN DAY, LAST DIGIT OF YEAR)

3. INSPECTION MACHINE CODE + SERIAL #: X_XXXXX

3. DESIGN - MANUFACTURING:

- A. DRAFT TO BE WITHIN TOLERANCE.
- B. ALLOWABLE FLASH MAX 0.2 HIGH X MAX 0.13 THICK.
- C. ALLOWABLE PARTING LINE MISMATCH 0.2 MAX.
- D. EJECTOR PINS MARK TO BE FLUSH TO 0.25 MAX DEPRESSED.
- E. ALLOWABLE GATE VESTIGE FLUSH TO 0.25 MAX PROTRUSION.
- F. NO EXTERNAL MOLD RELEASE AGENT ALLOWED DURING MANUFACTURING.
- G. STEEL THAT FORMS THE INDICATED SURFACE MUST BE POLISHED WITH A DIAMOND FINISH (SPI A-2) OVER THE FULL PERIPHERY OF THE TOOL. SURFACE MUST HAVE NO MISMATCH.
- H. 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.
- J. OPTIONAL FEATURES PROVIDED FOR AUTOMATION.
- K. PART MUST BE FREE FROM BURRS AND SHARP EDGES, WHICH MIGHT BE DETRIMENTAL TO SATISFACTORY ASSEMBLY, SAFE HANDLING OR FUNCTION OF PART.
- L. PARTS AS DELIVERED TO ASSEMBLY SHALL BE CLEAN AND FREE OF DEBRIS, RESIDUAL ABRASIVE MATERIAL AND CORROSION PRODUCTS ADVERESLY AFFECTING FUNCTION OR APPEARANCE.
- M. RESTRICTED AND REPORTABLE SUBSTANCES FOR PARTS PER GMW3059.

GM	PAGE TITLE NOTES		DRAWING NUMBER 12642694	DWG STATUS			PAGE NUMBER 6 of 22
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NOTES: UNLESS OTHERWISE SPECIFIED

4. SYSTEM REQUIREMENTS:

- A. HARNESS CONNECTOR IS COMPATIBLE WITH THE FOLLOWING WIRE SIZE NO'S:
SAE 14AWG, MEETING SAE J1128
SAE 18AWG, MEETING SAE J1128, MAX O.D. OF 2.06 MM
SAE 20AWG, MEETING SAE J1128
SAE 22AWG, MEETING SAE J1128, MIN O.D. OF 1.47 MM
ISO 6mm², FLR2X-A/T-125 PER GM 15626 (FEB 2008)
- B. CABLE TIE SPECIFICATIONS:
1. CABLE TIE:
TENSILE RATING: 220N / (50lbs) MIN
TIE LENGTH: 186mm MIN
TIE WIDTH: 4.75mm MAX
MATERIAL: NYLON
2. INSTALLATION:
CABLE TIE TENSION: 190N MIN
3. DRESSED WIRE BUNDLE PACKAGING: SEE FIG. 1
- C. WHEN MATED WITH COMPONENT CONNECTOR INTERFACE AND/OR DRESS COVER, HARNESS CONNECTOR SYSTEM CONFORMS TO THE FOLLOWING:
1. SAE/USCAR-2, REV: 3 APRIL, 2001; CLASS 3
2. FIELD CORRELATED LIFE TEST, SAE/USCAR-20, NOV. 2001
3. GMW #3191 AUGUST 22, 2000 (DRAFT); TEMPERATURE CLASS 3 (145°C), SEALING CLASS 1 (HIGH PRESSURE SPRAY), VIBRATION CLASS 2 (ON BODY)
4. TPA USER FORCES (FULLY POPULATED WITH TERMINALS)
a. REMOVAL FROM LOCK TO PRE-SET: <=120N
- D. WIRE SPECIFICATIONS:
1. WIRE SURFACE MUST BE FREE OF SCRATCHES, GROOVES OR DENTS WHERE FUNCTIONAL

5. TERMINAL CURRENT RATINGS:

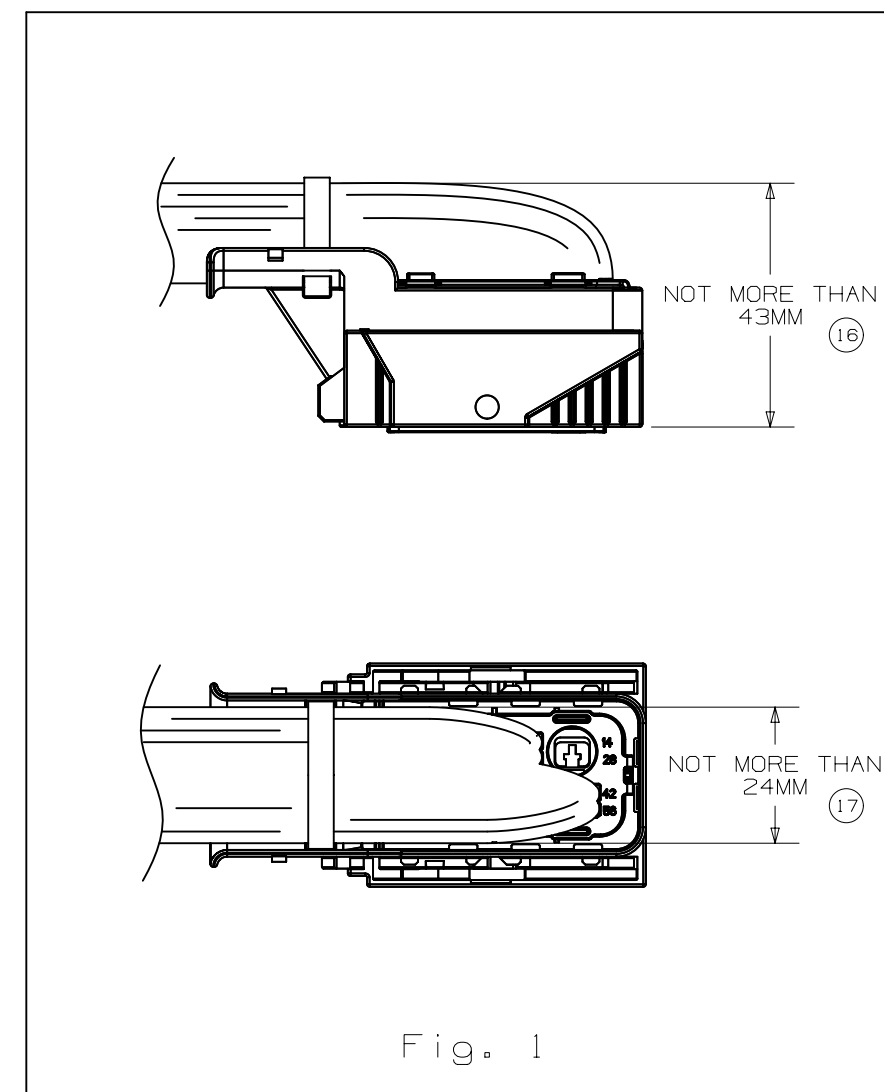
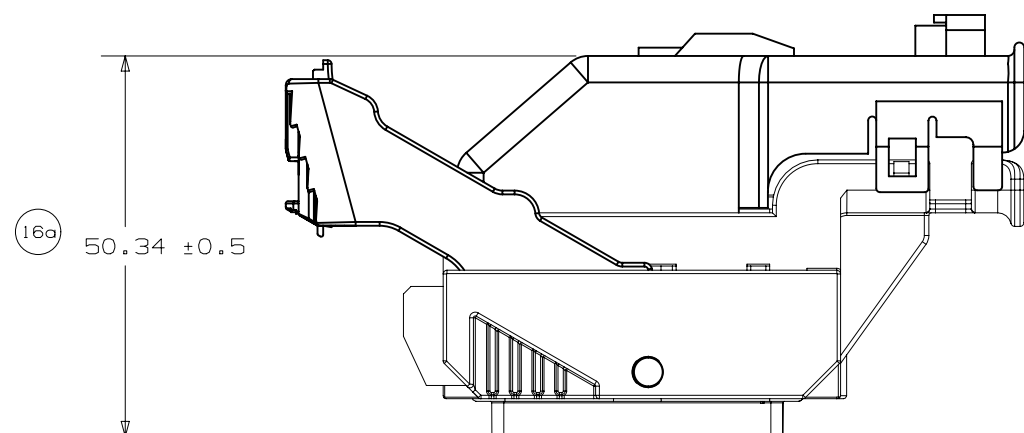
ALL TESTING DONE IN ACCORDANCE WITH USCAR-2 REV5 SECTION 5.3

- A. MX64 RCPT TERM
1. MX64 RCPT TERM Ag 18/20 GAGE CRIMPED TO SAE WIRE SIZE NO.18 AND MATED TO MX123 0.64MM PIN: 11.3 AMPS
2. MX64 RCPT TERM Ag 22 GAGE CRIMPED TO SAE WIRE SIZE NO.22 AND MATED TO MX123 0.64MM PIN:8.5 AMPS

WIRE	CURRENT RATING			
	23 deg.C	85 deg.C	105 deg.C	125 deg.C
18AWG	11.3A	11.3A	9.5A	6.6A
20AWG	10.0A	10.0A	8.3A	5.7A
22AWG	8.6A	8.6A	7.1A	5.0A

- B. 2.8MM RCPT TERM
1. 2.8MM RCPT TERM TIN 14 GAGE CRIMPED TO SAE WIRE SIZE NO.14 AND MATED TO MX123 2.8MM BLADE: 25.6 AMPS
- C. 6.3MM RCPT TERM - FCI APEX
1. 6.3MM RCPT TERM TIN/SILVER CRIMPED TO 6.0MM² WIRE AND MATED TO MOLEX 6.3MM² BLADE (Sn/Ag PLATED):36A AT 125°C

6. CONTACT MOLEX AUTOMOTIVE FOR AVAILABLE CUSTOM PATTERNS OF CAVITIES OPEN FOR CIRCUITS

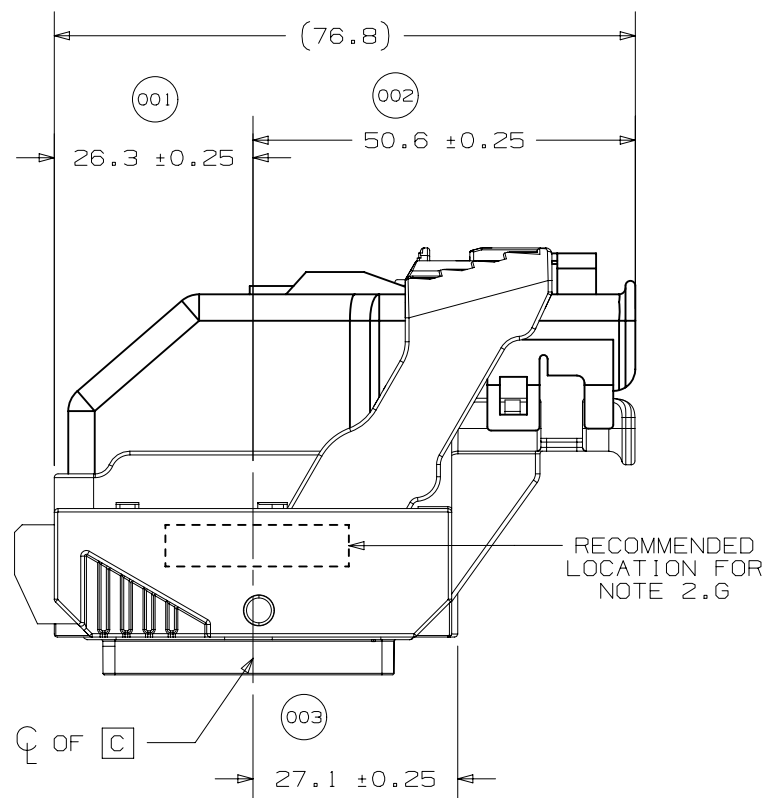


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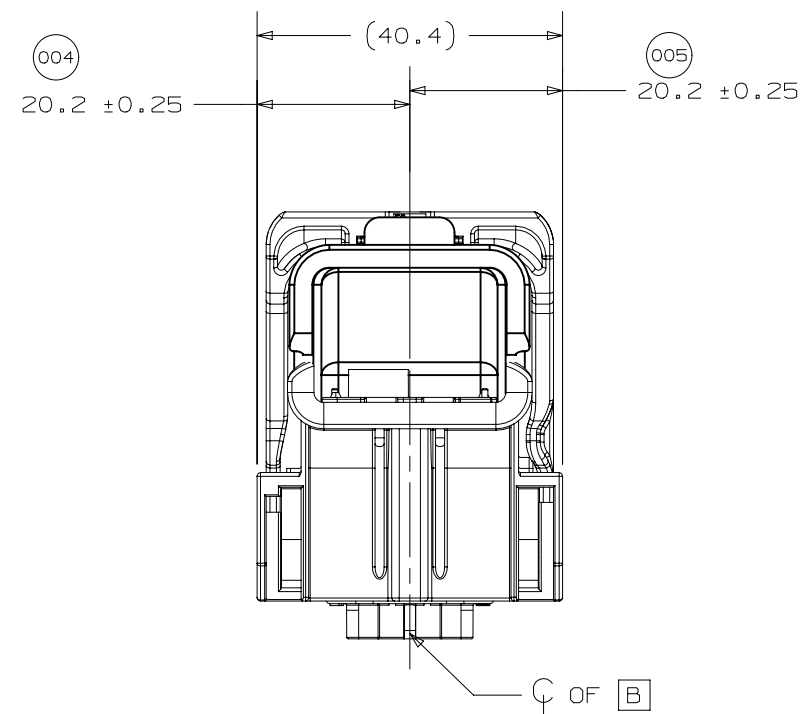
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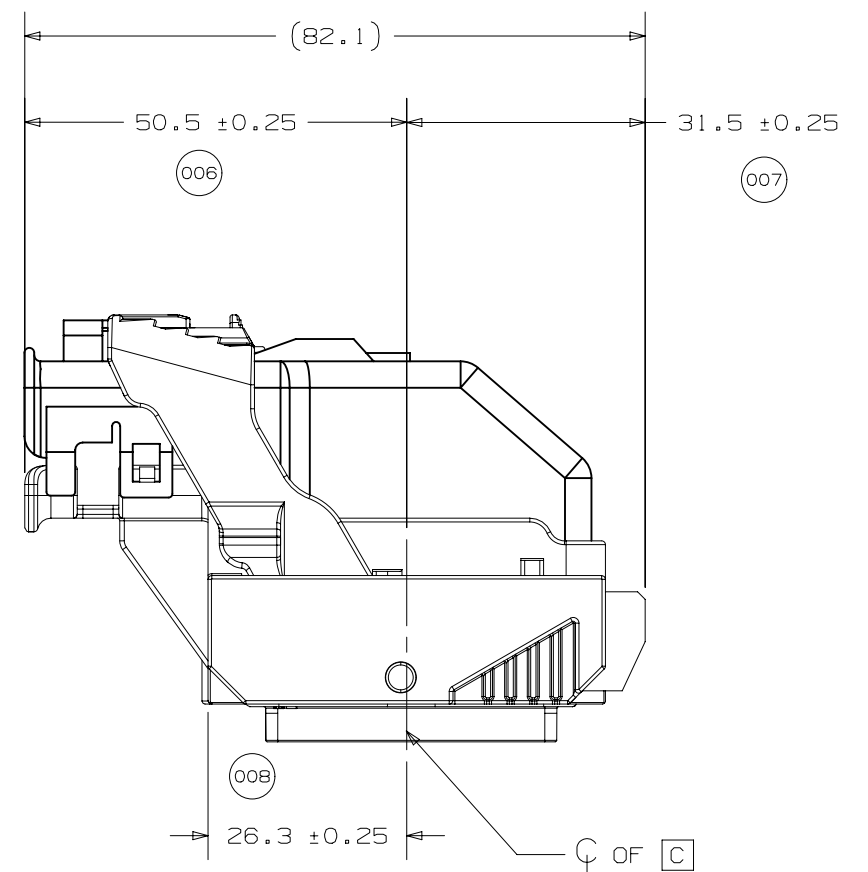
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WIRE DRESS OPTION 0 SHOWN



WIRE DRESS OPTION 0 SHOWN



WIRE DRESS OPTION 9 SHOWN



PAGE TITLE
LOCATION AND PACKAGING DIMENSIONS
REFERENCING INTERFACE DATUMS B & C

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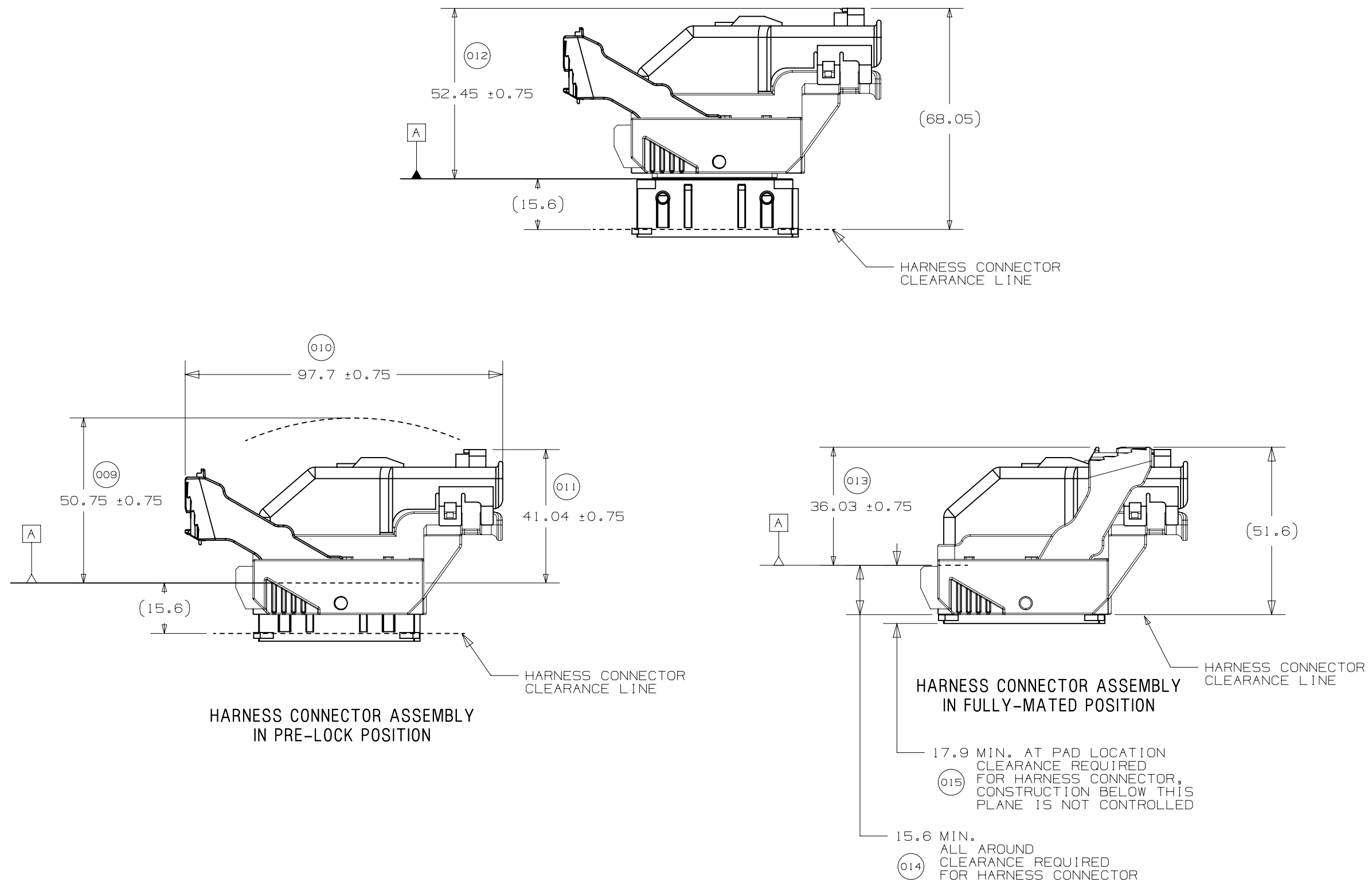
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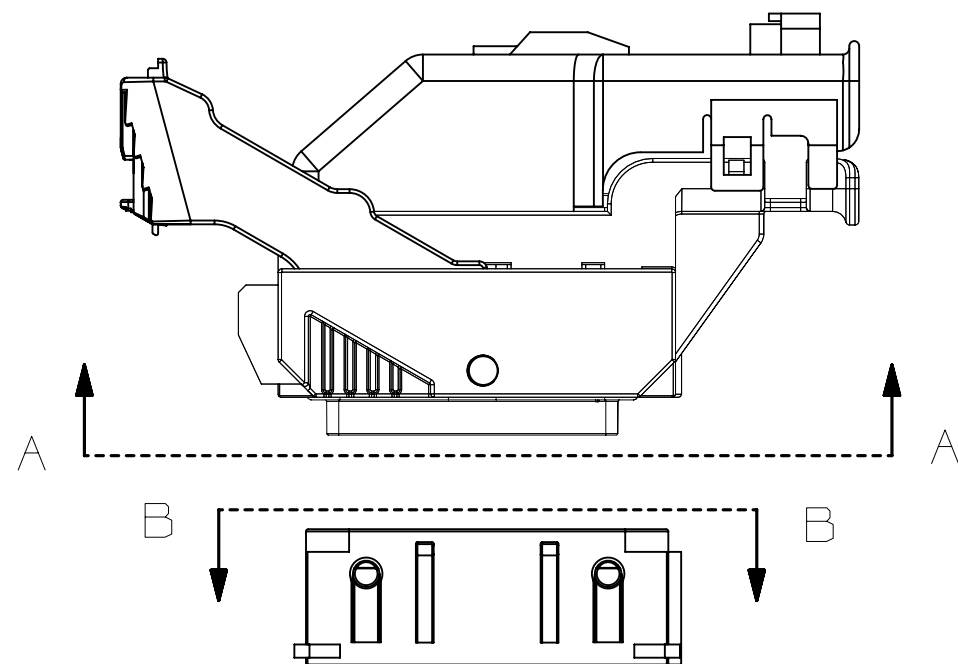
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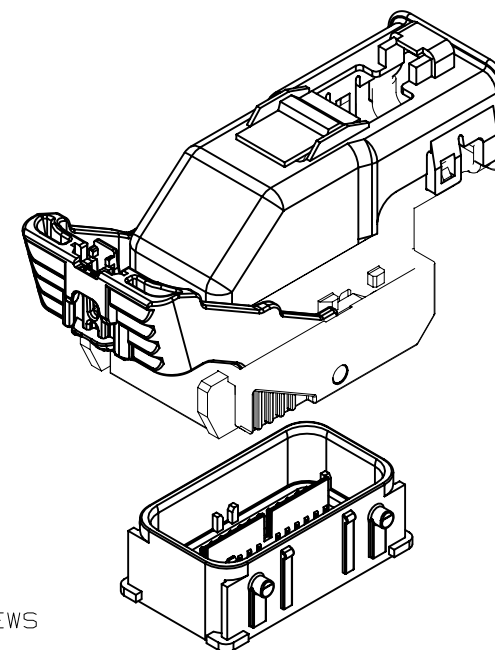
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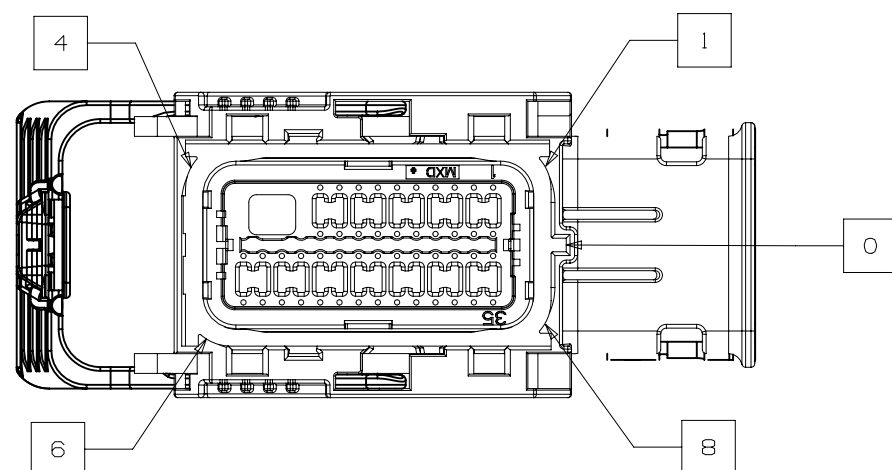




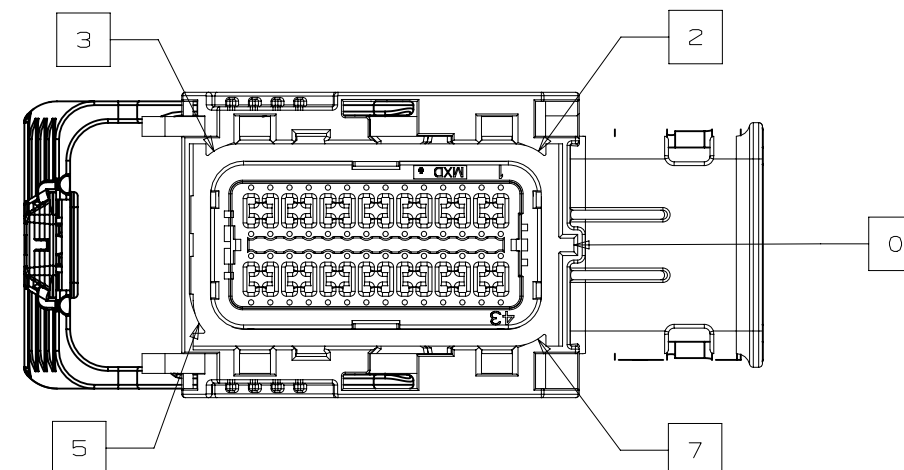
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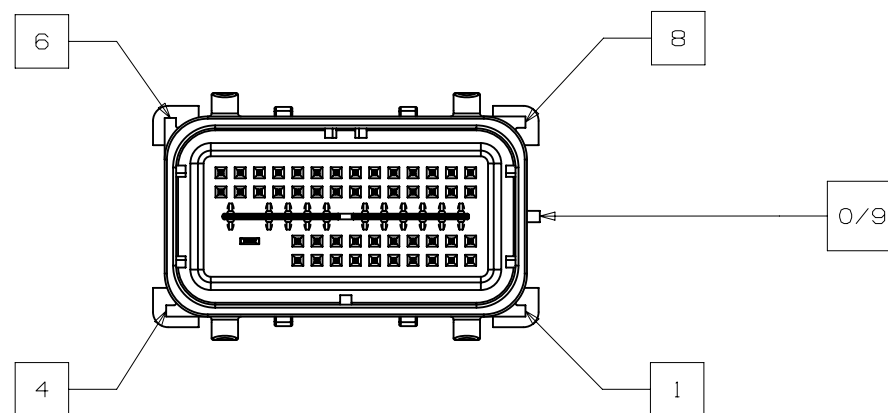
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FOR KEY OPTIONS AND CONFIGURATIONS



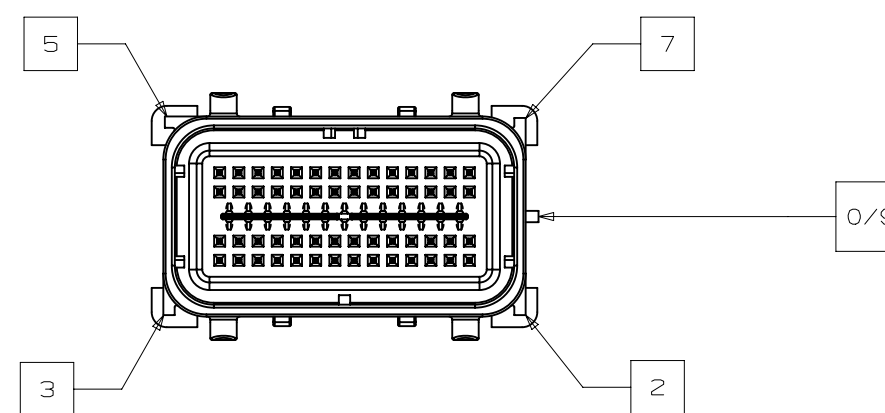
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KEY OPTION B SHOWN



SECTION A-A
KEY OPTION K SHOWN



SECTION B-B
KEY OPTION B SHOWN



SECTION B-B
KEY OPTION K SHOWN

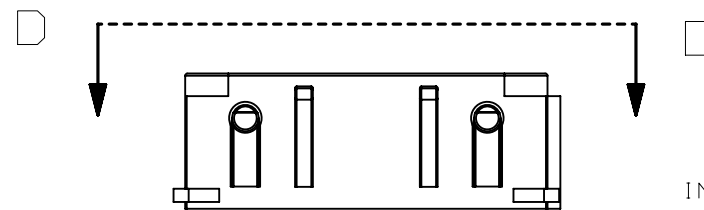
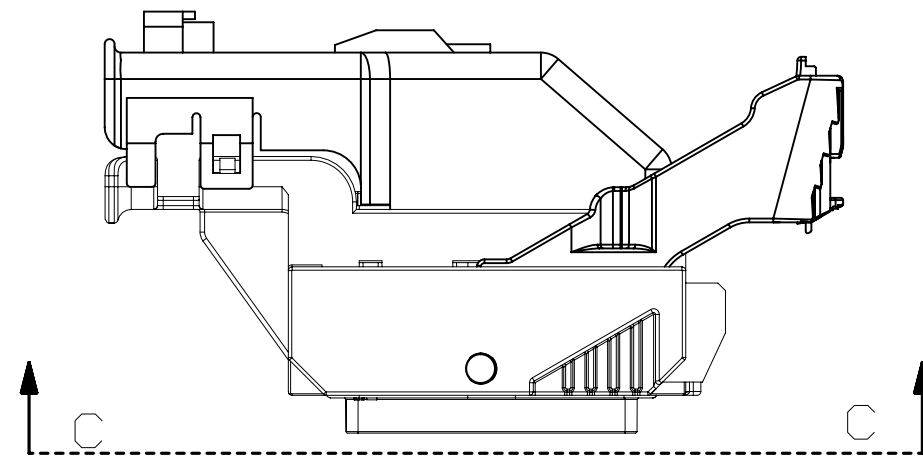


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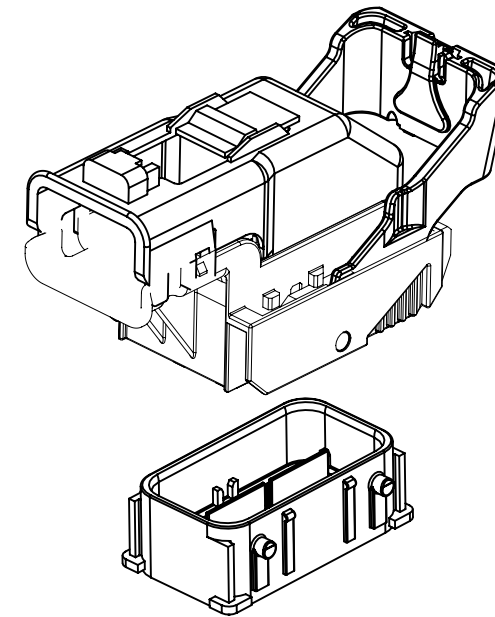
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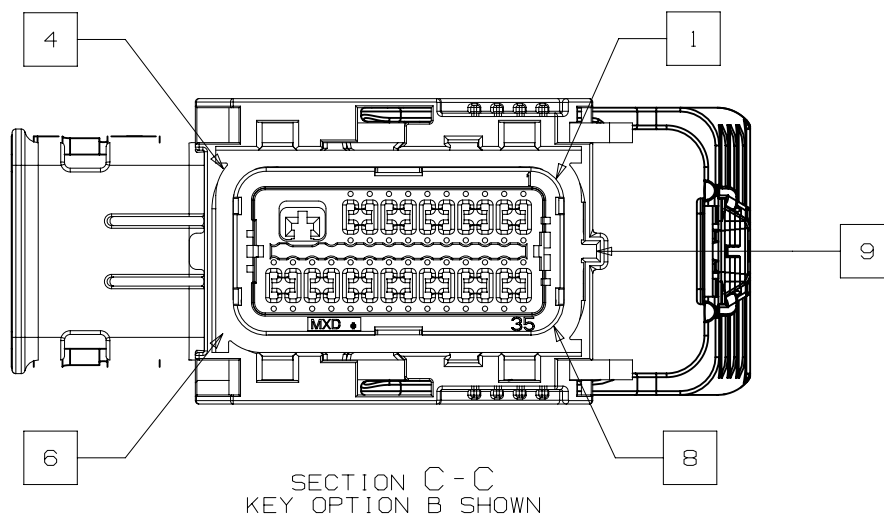
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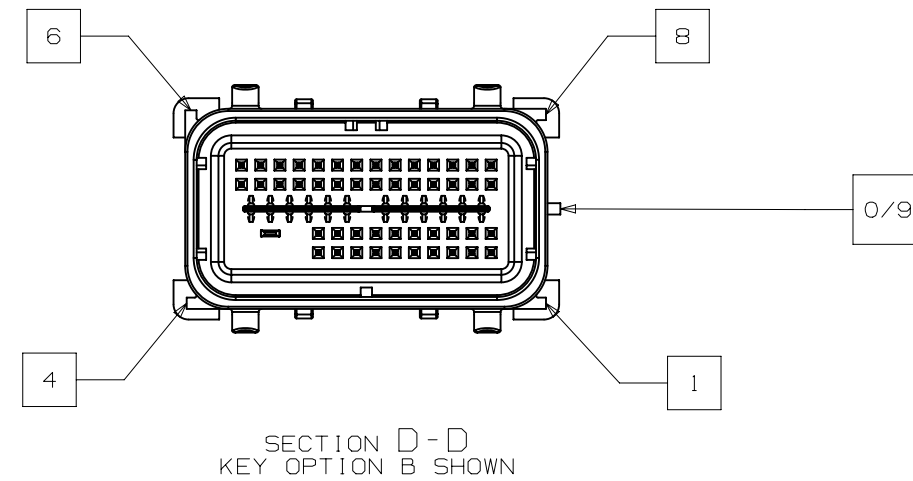
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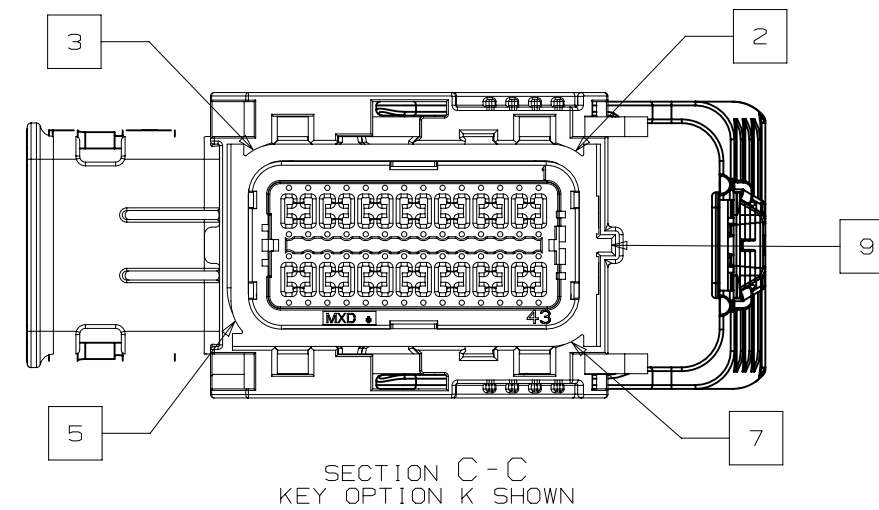
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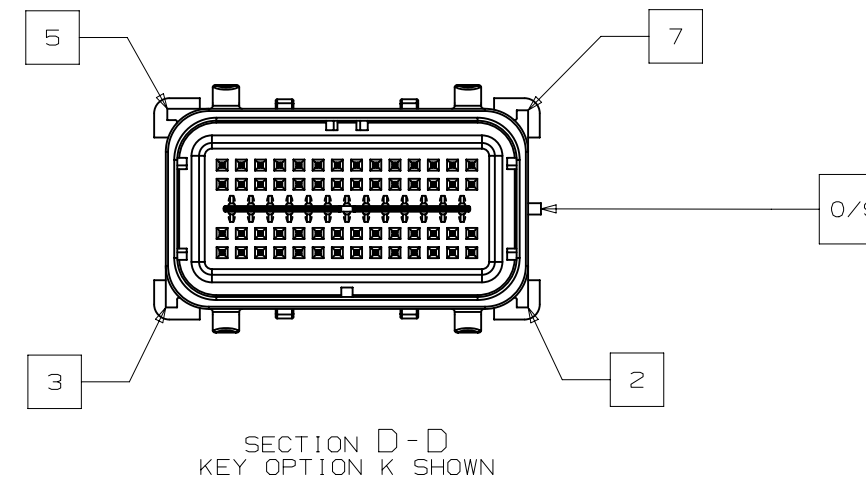
SECTION C-C
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SECTION D-D
KEY OPTION B SHOWN



SECTION C-C
KEY OPTION K SHOWN



SECTION D-D
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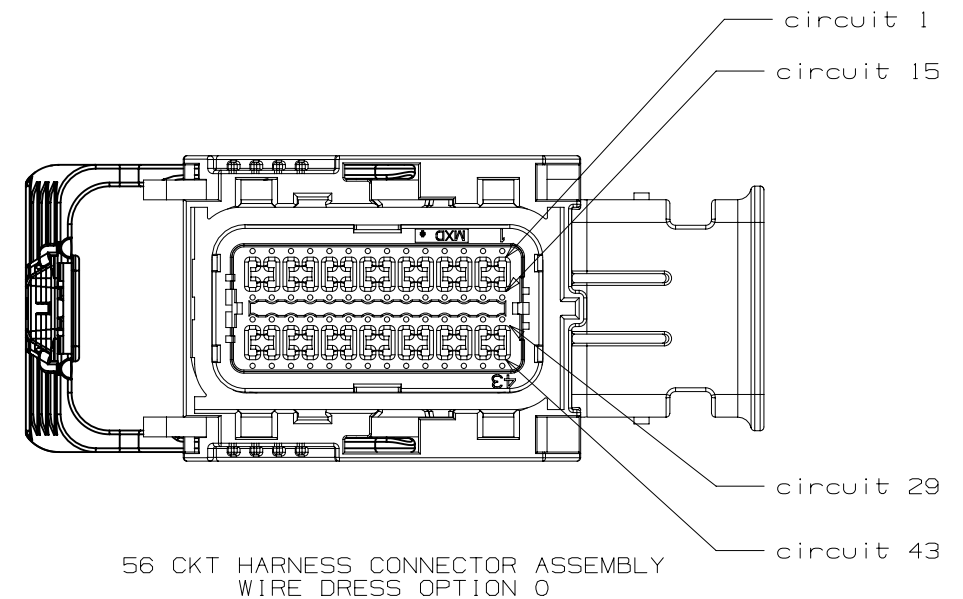
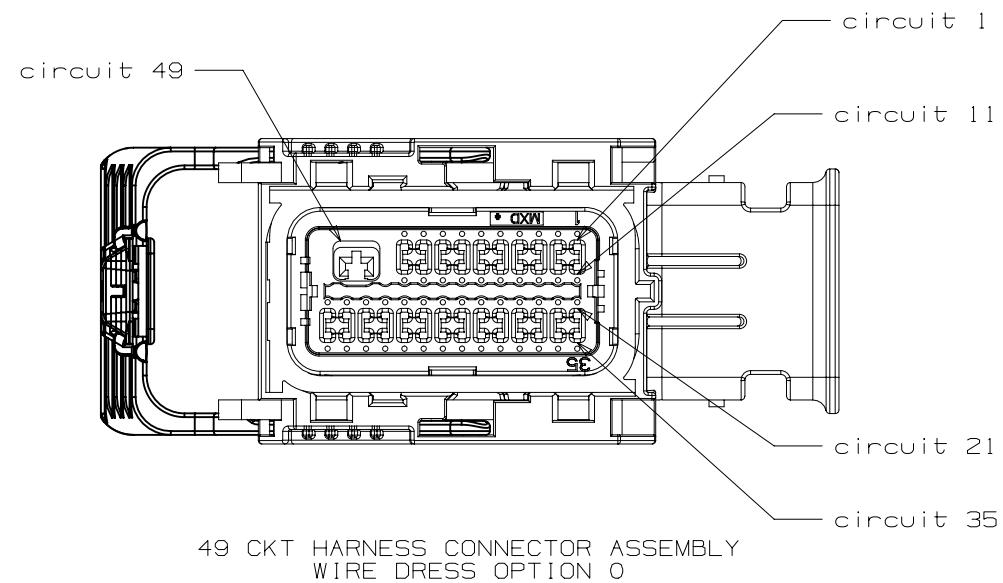


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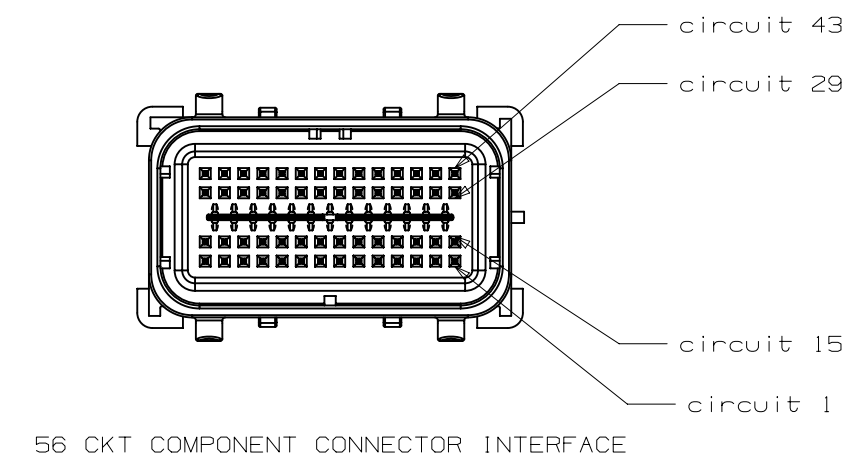
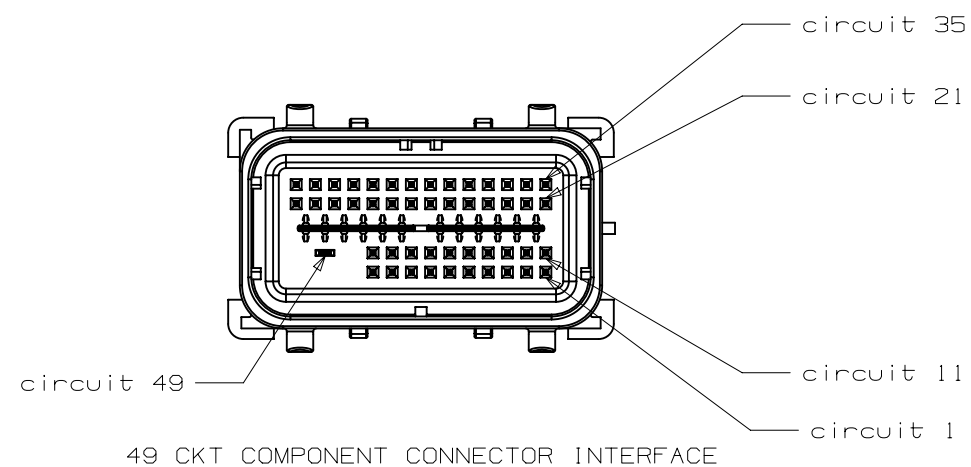
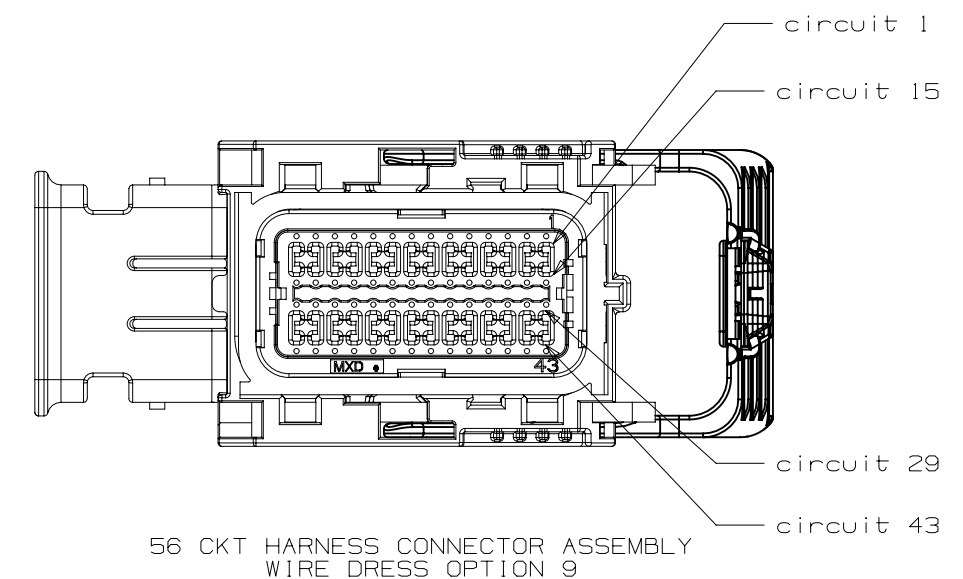
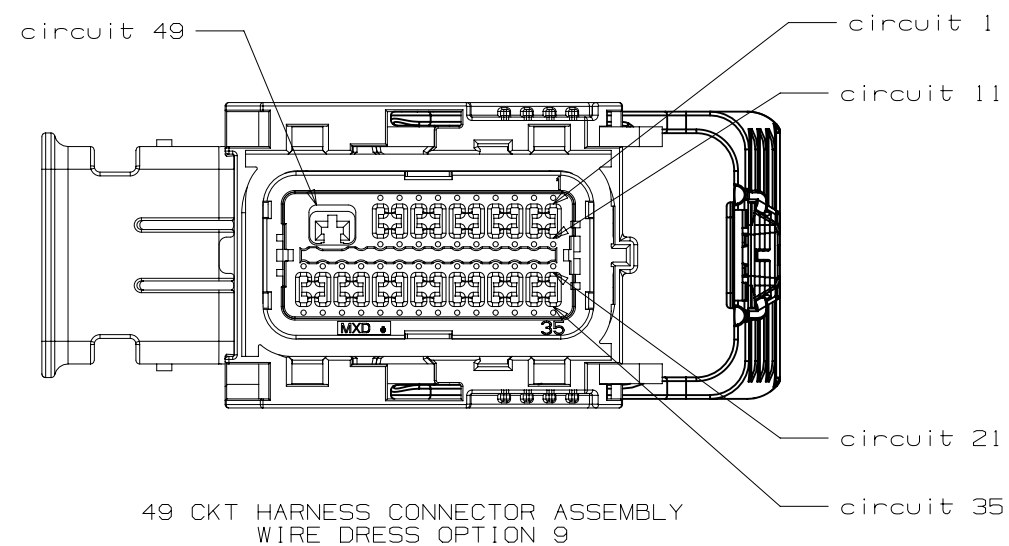
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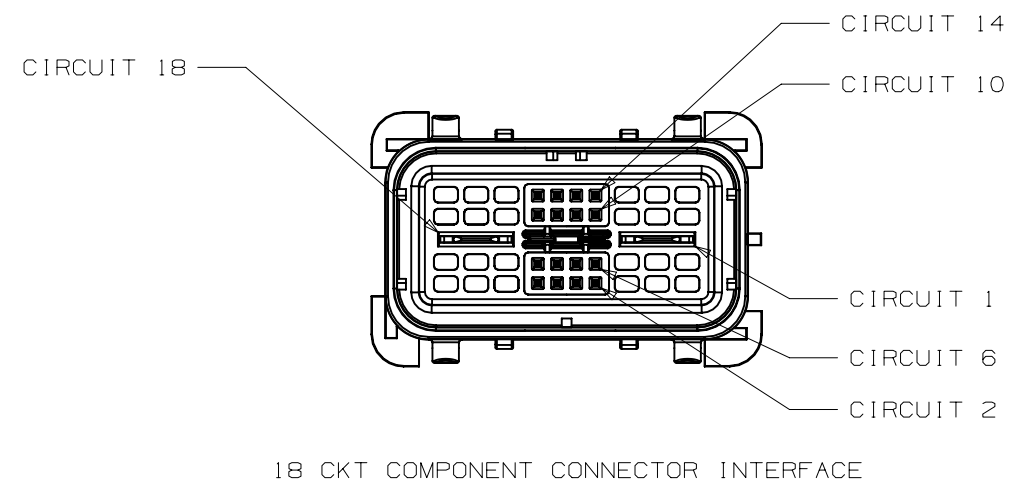
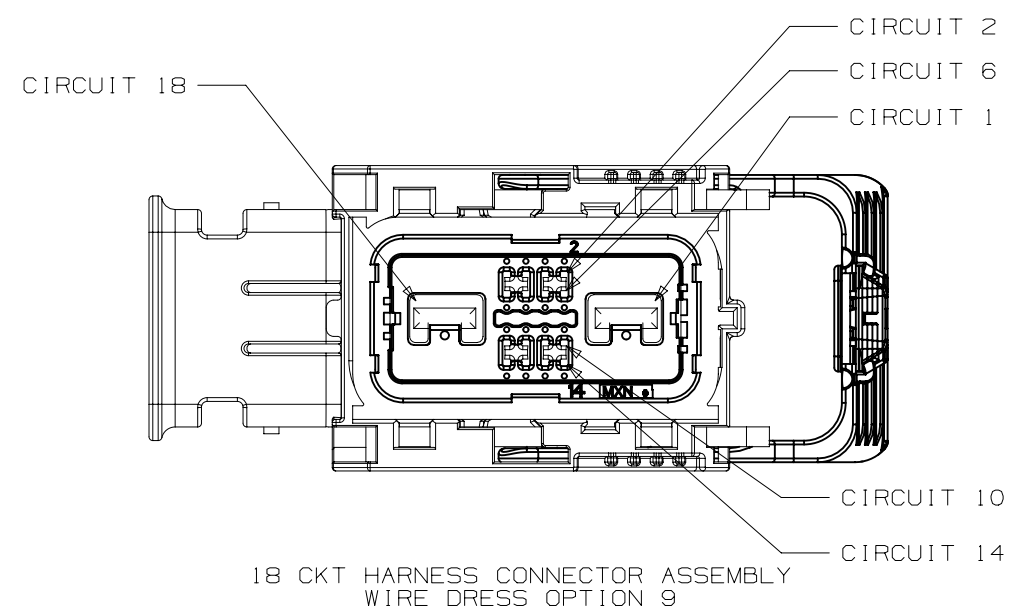
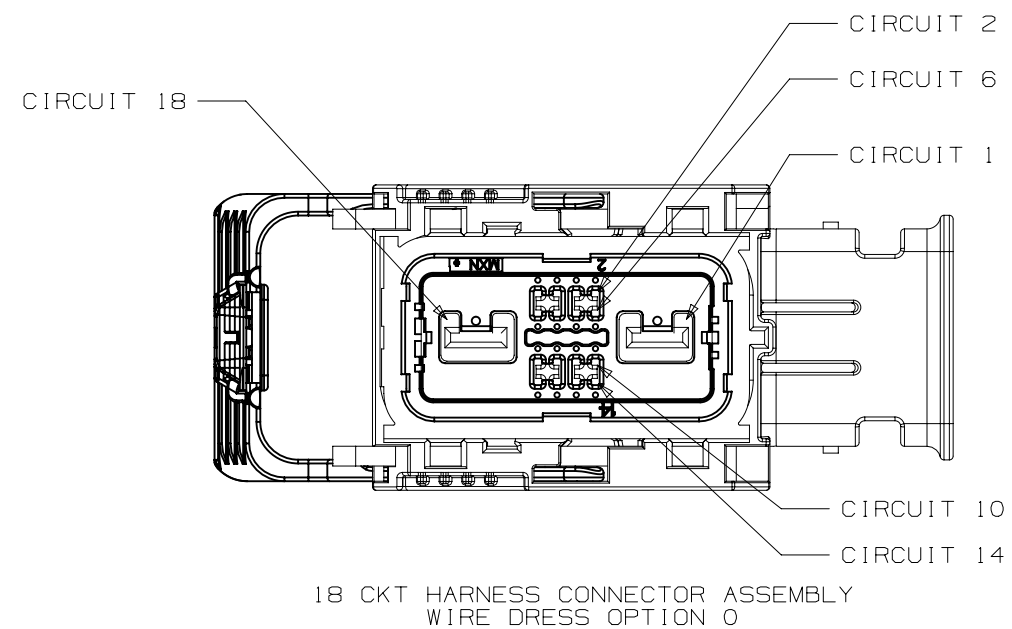
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INTERFACE SIDE SHOWN ON ALL VIEWS





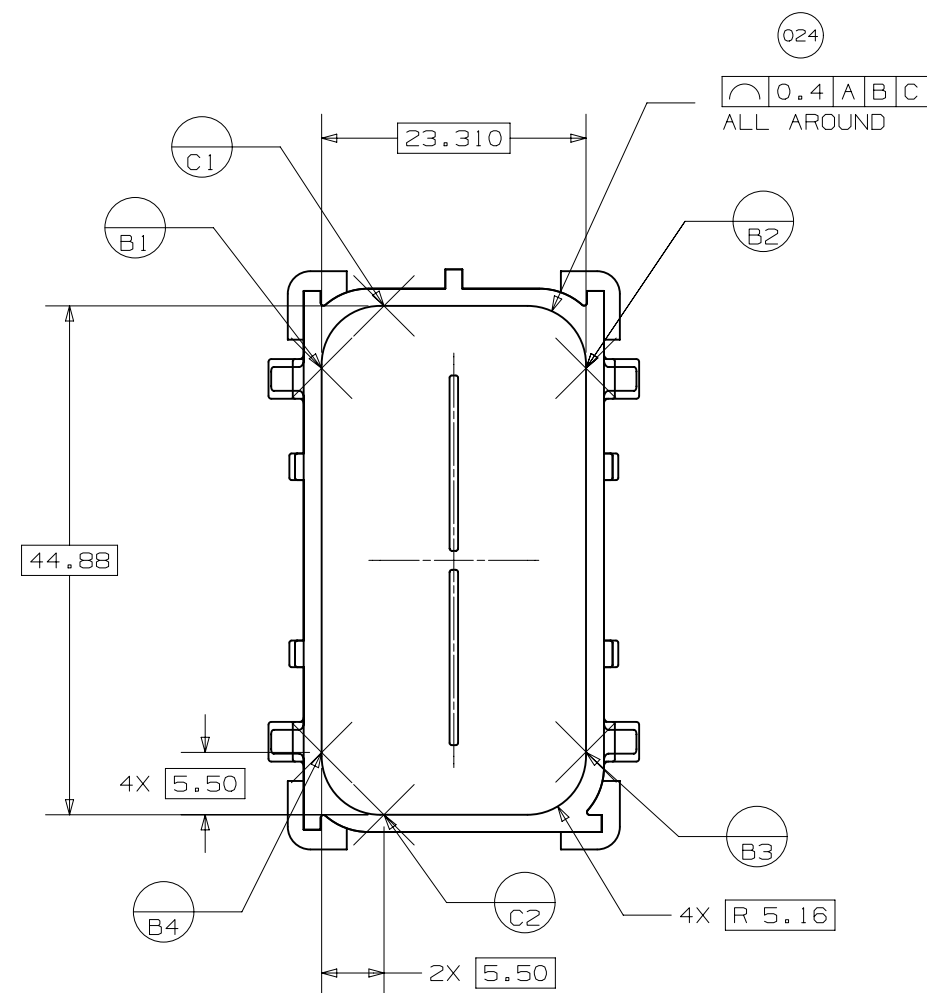
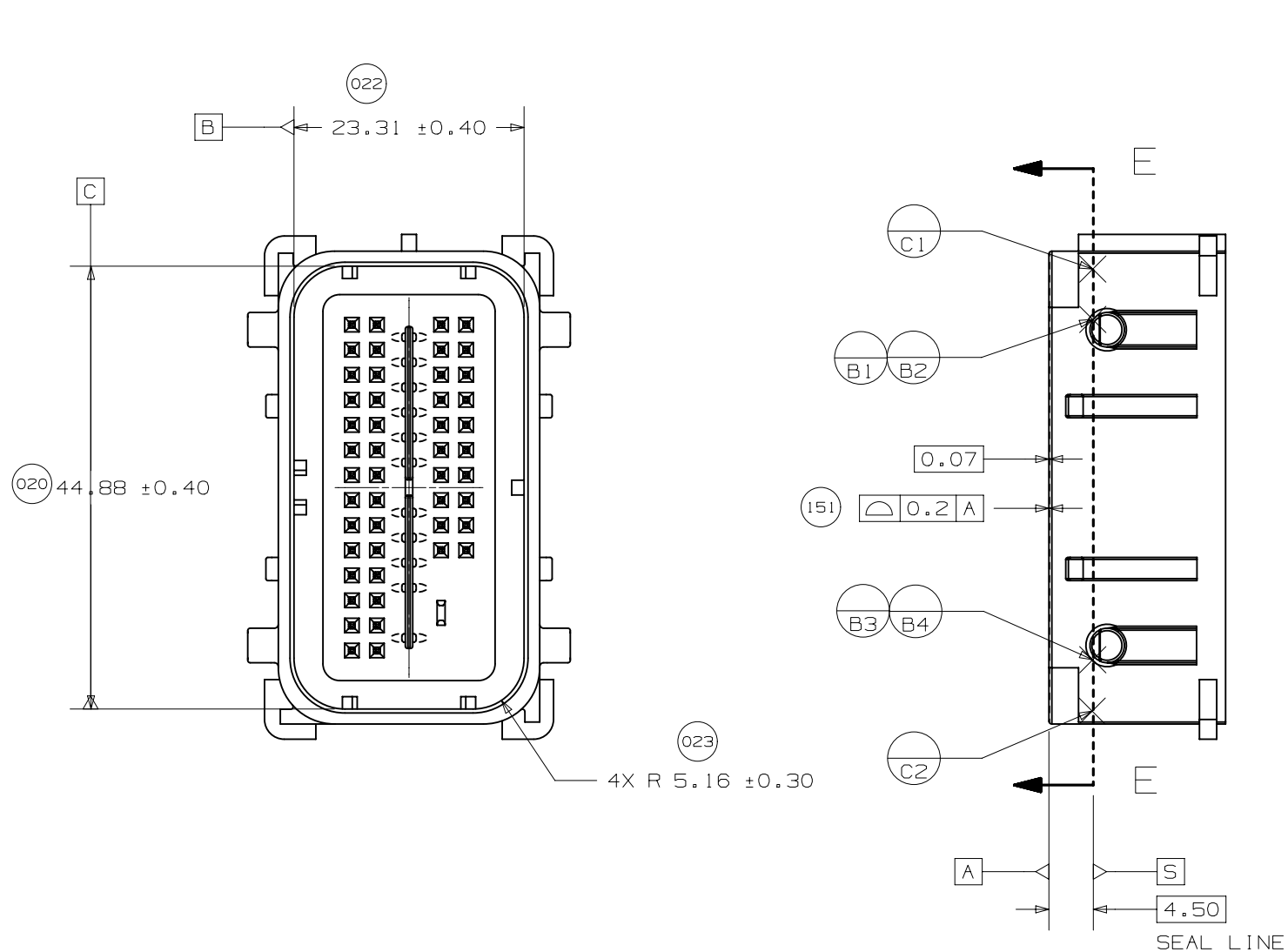
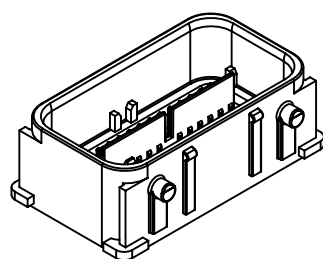
INTERFACE SIDE SHOWN ON ALL VIEWS



PAGE TITLE
CIRCUIT CONFIGURATIONS

DRAWING NUMBER
12642694

DWG STATUS			PAGE NUMBER	
ST	REV	PD1		
R	001		14	of 22



SECTION E-E
(AT SEAL LINE)

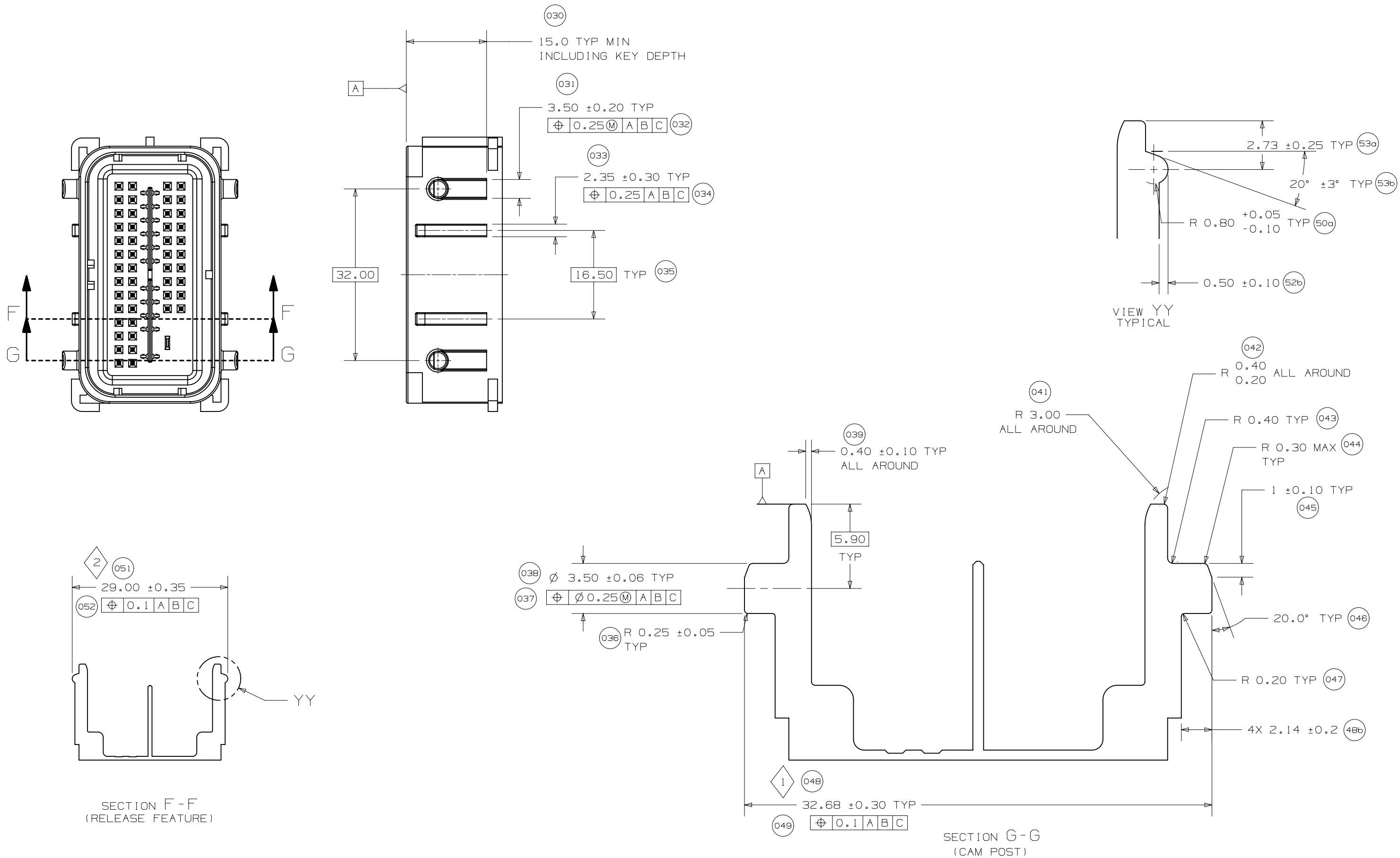
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PAGE TITLE
COMPONENT CONNECTOR INTERFACE

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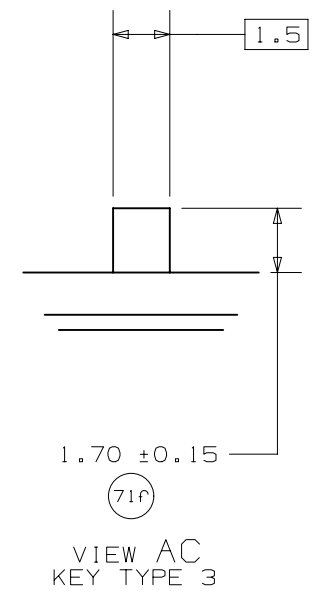
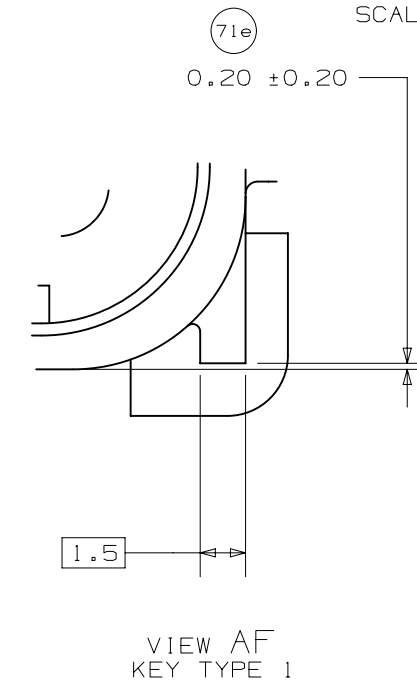
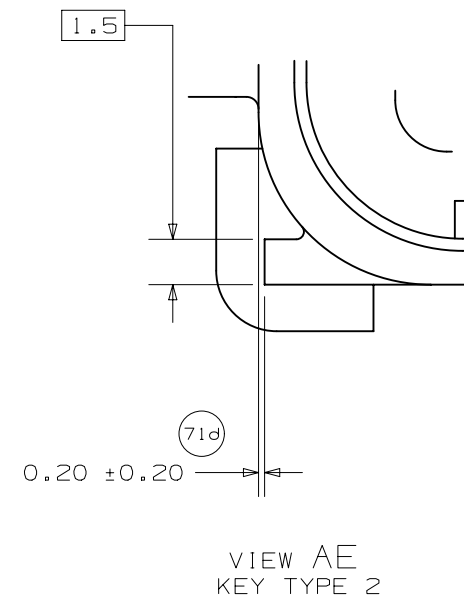
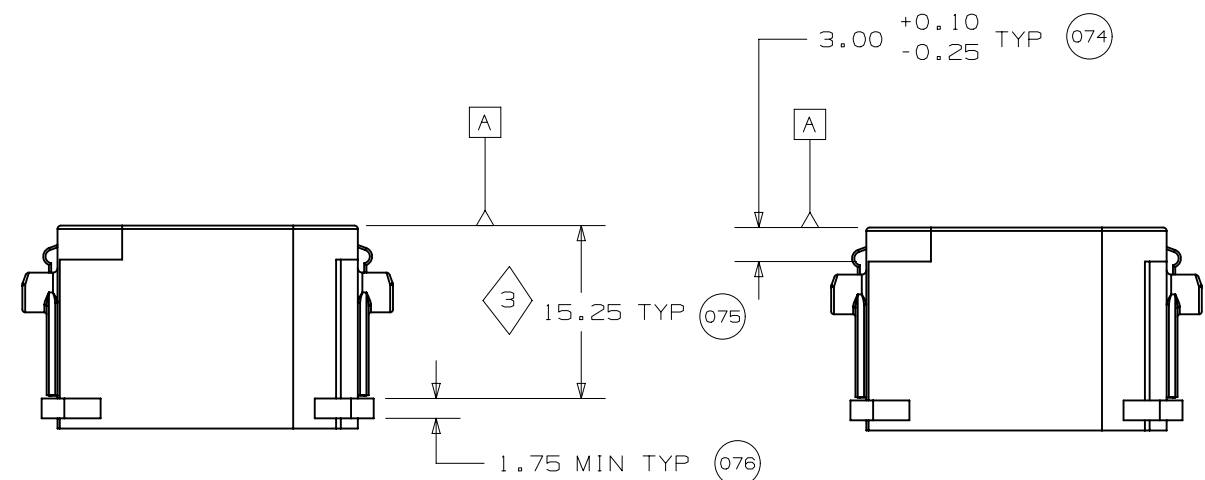
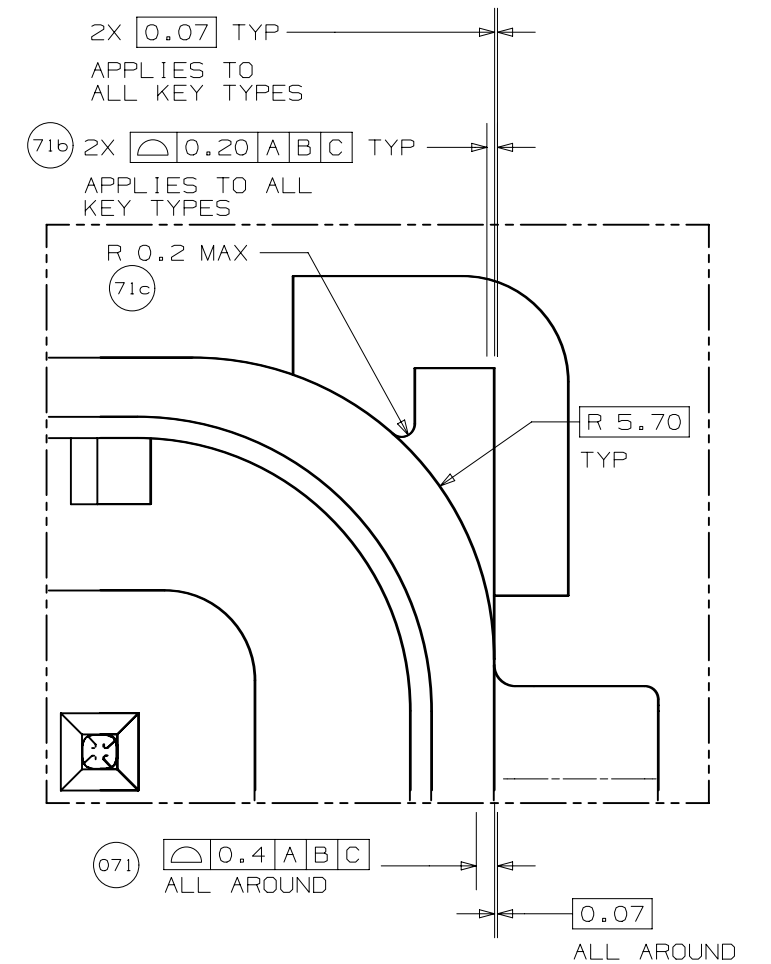
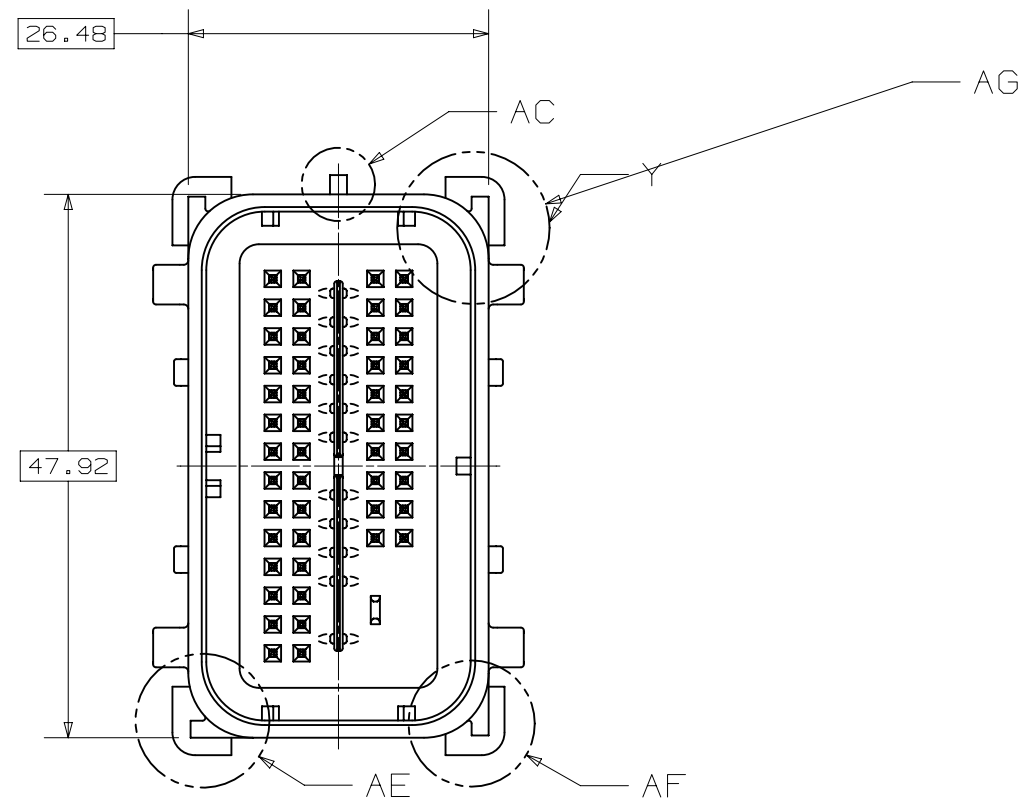
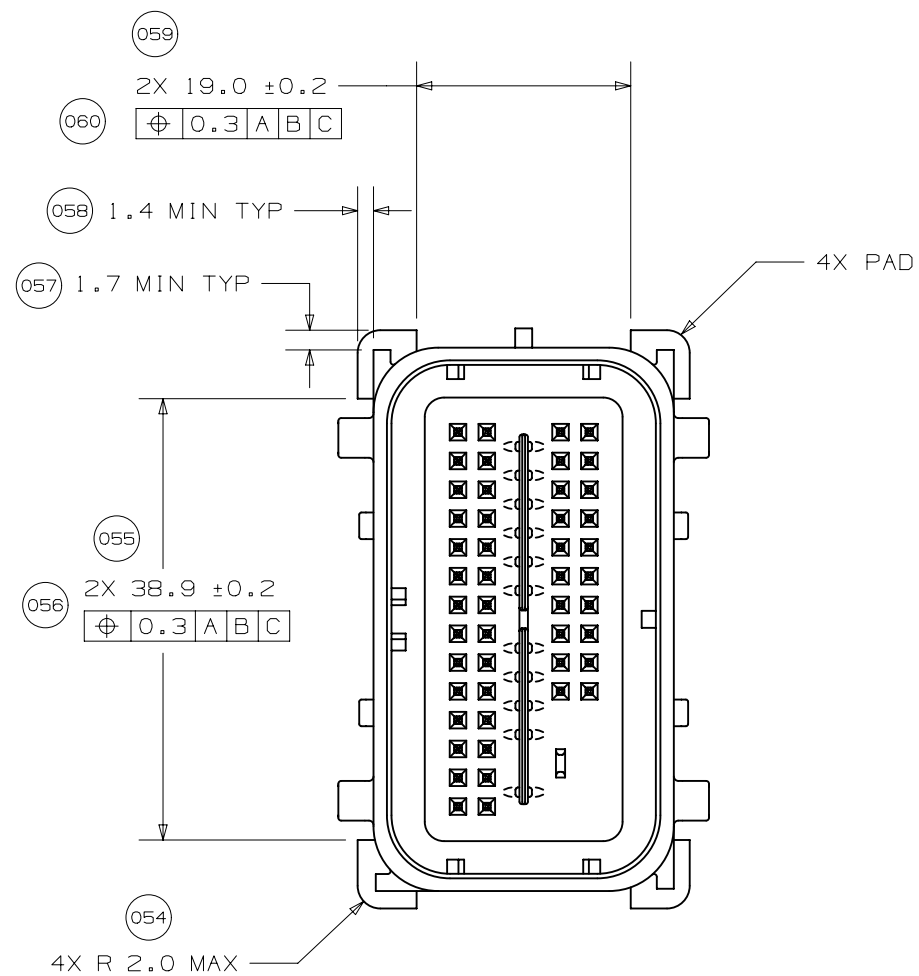
DWG STATUS			PAGE NUMBER	
ST	REV	PD1	15	OF 22
R	001			



PAGE TITLE
COMPONENT CONNECTOR INTERFACE

DRAWING NUMBER
12642694

DWG STATUS			PAGE NUMBER	
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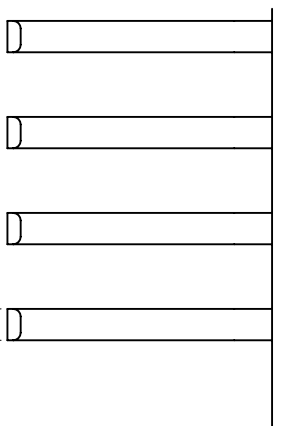
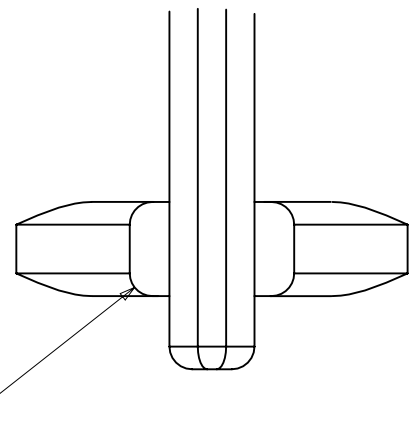
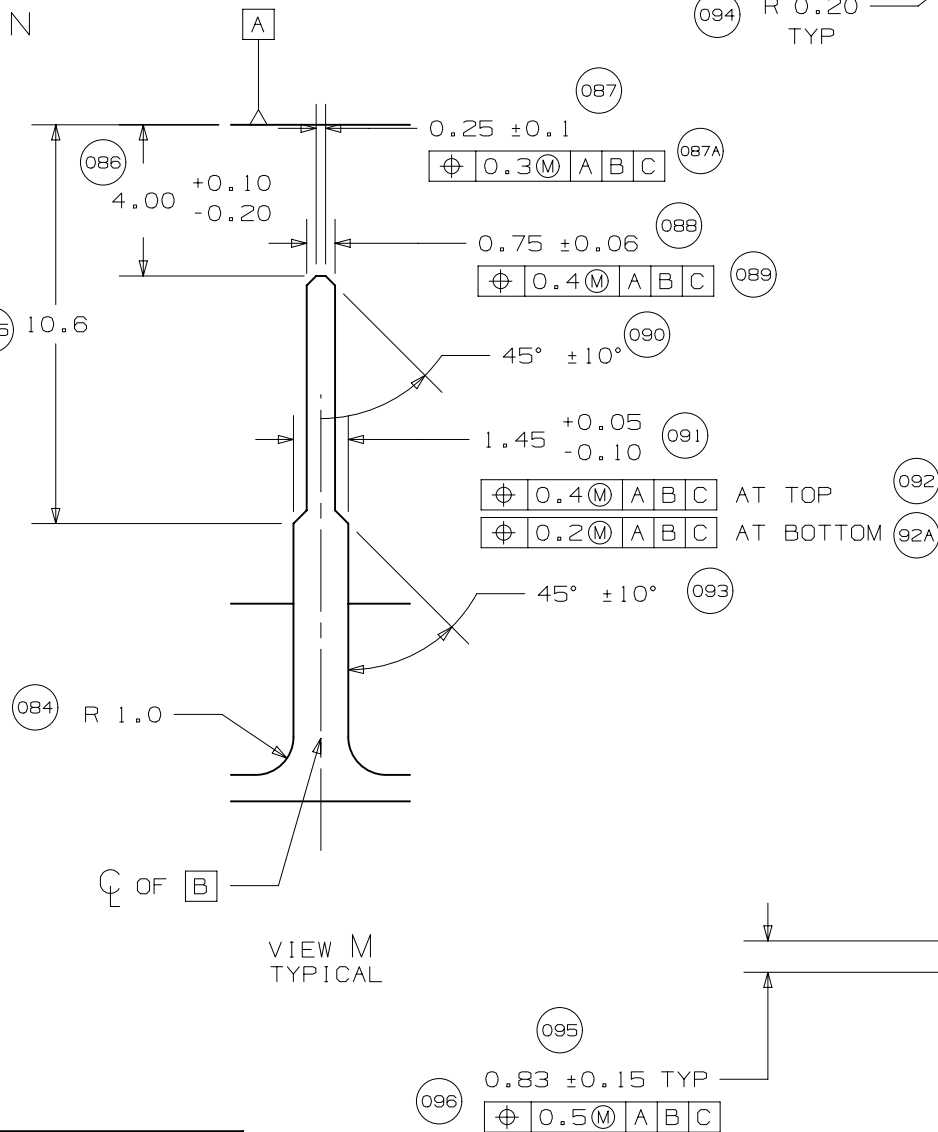
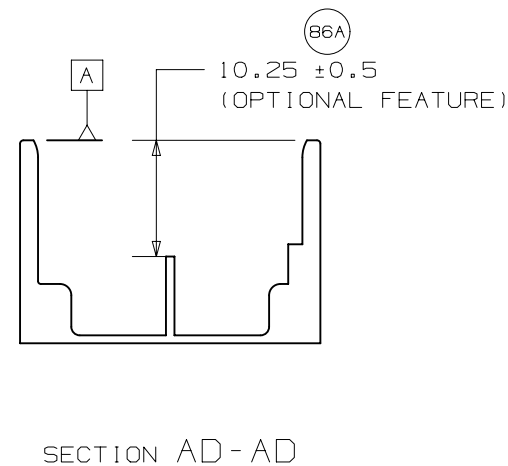
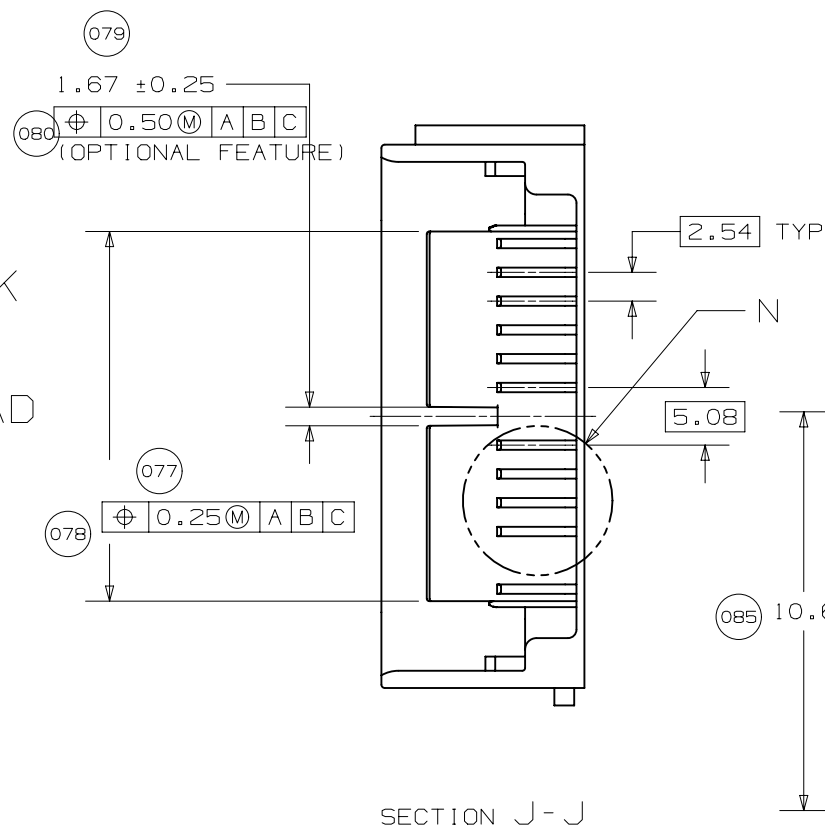
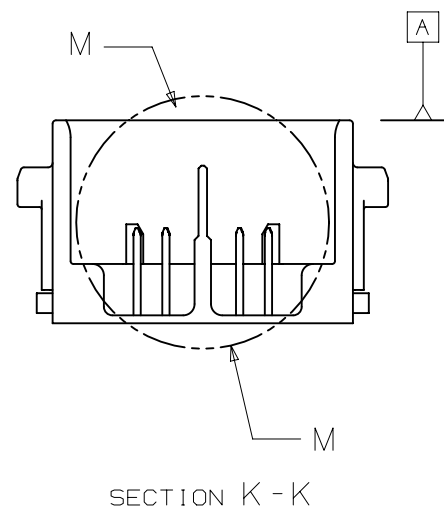
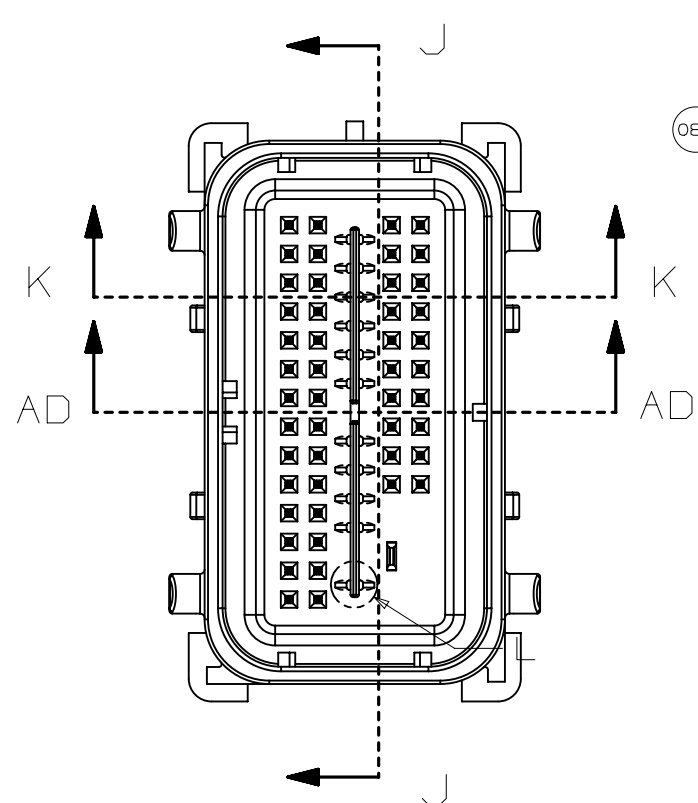


PAGE TITLE
COMPONENT CONNECTOR INTERFACE

DRAWING NUMBER
12642694

DWG STATUS		
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R	001	

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17 of 22



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49 / 56 CKT	32.60 +0.10/-0.80
18 CKT	10.04 +0.10/-0.80

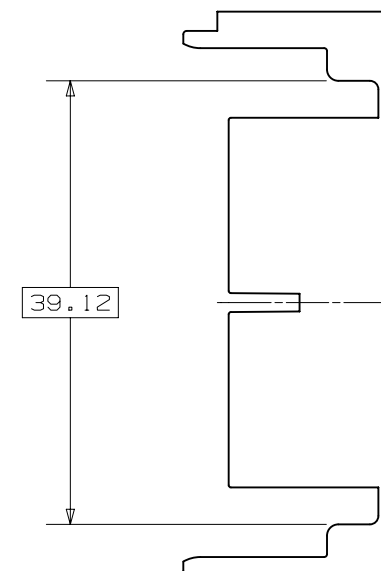
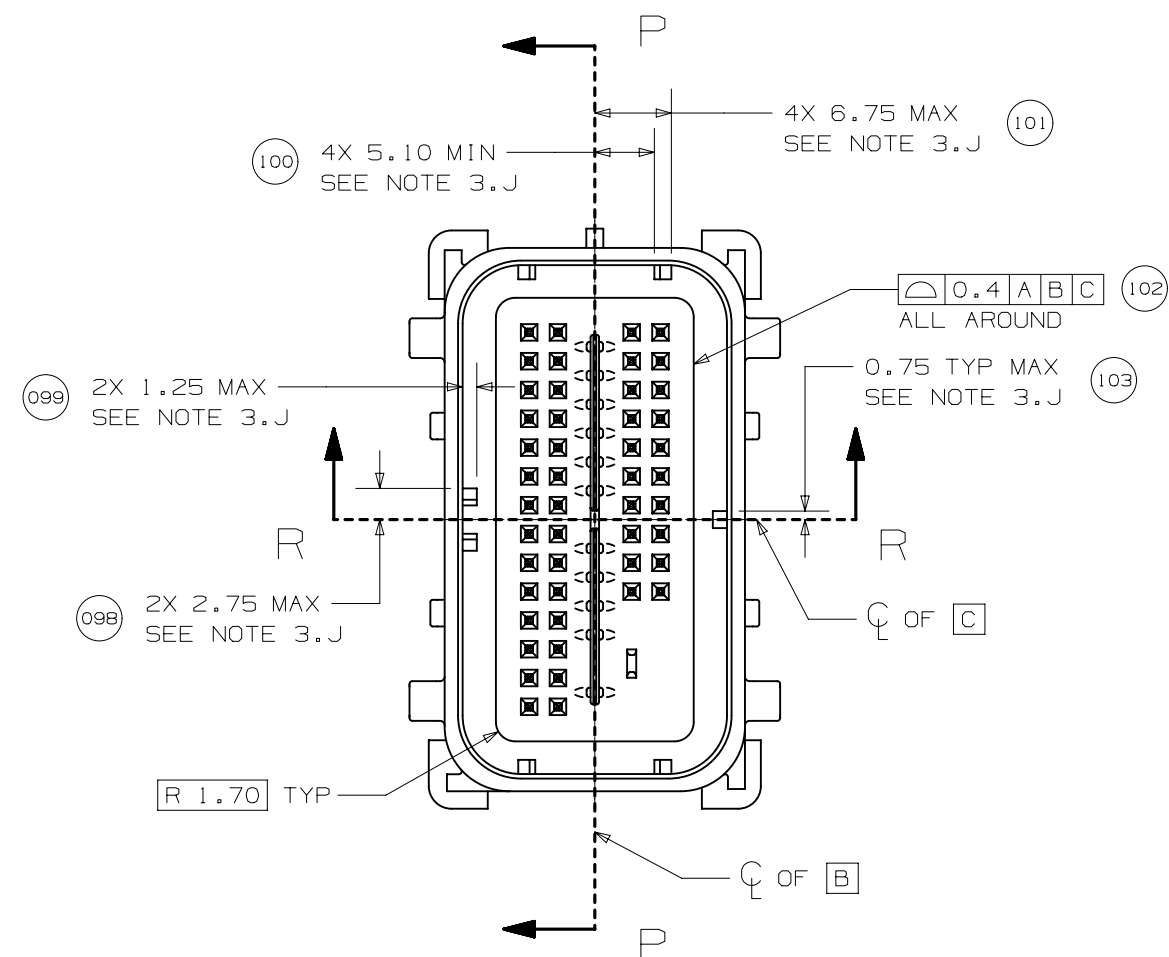


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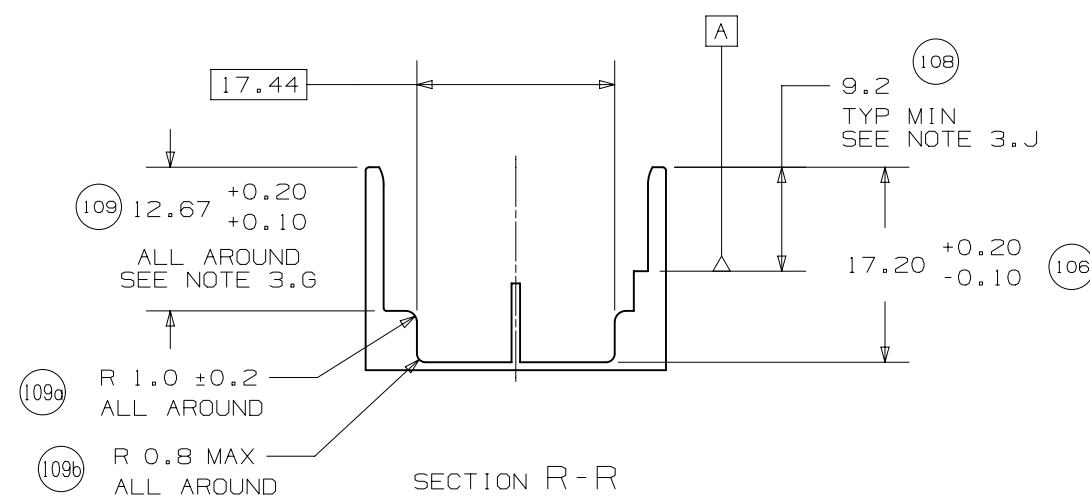
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SECTION P-P



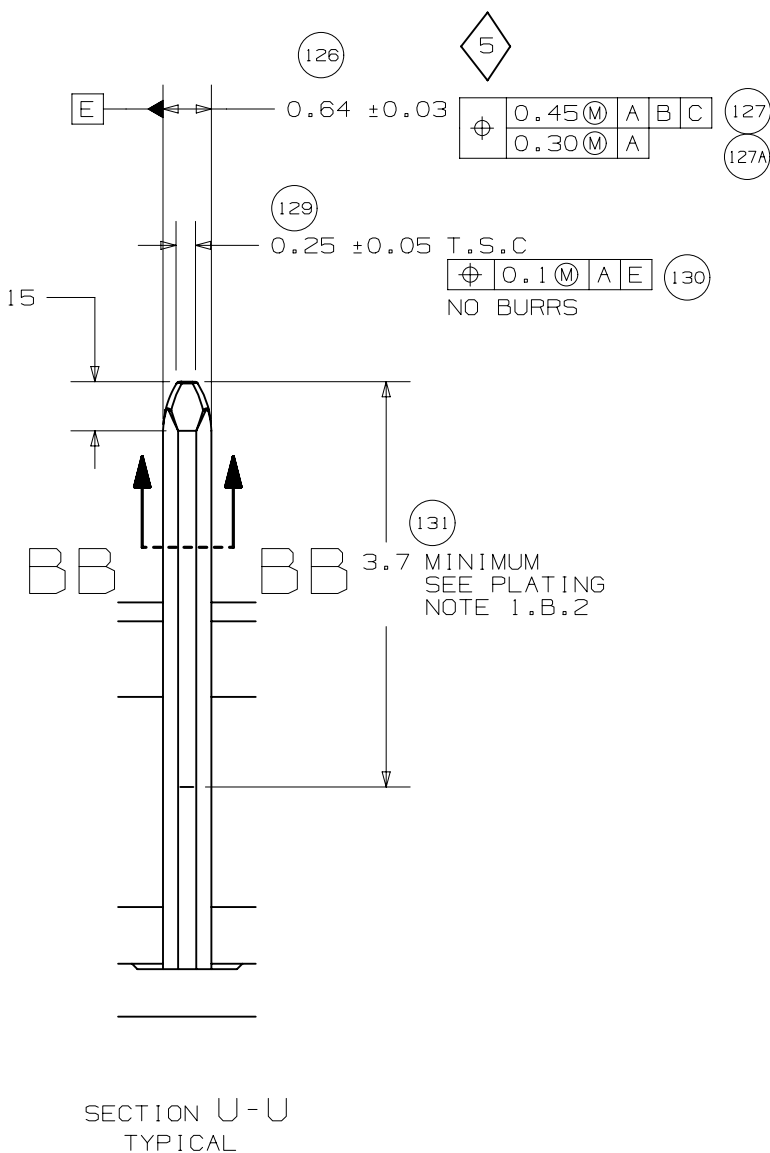
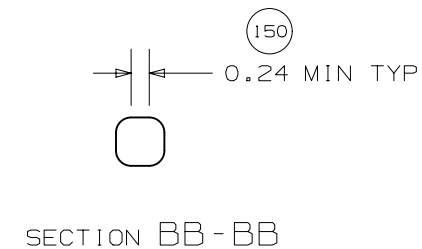
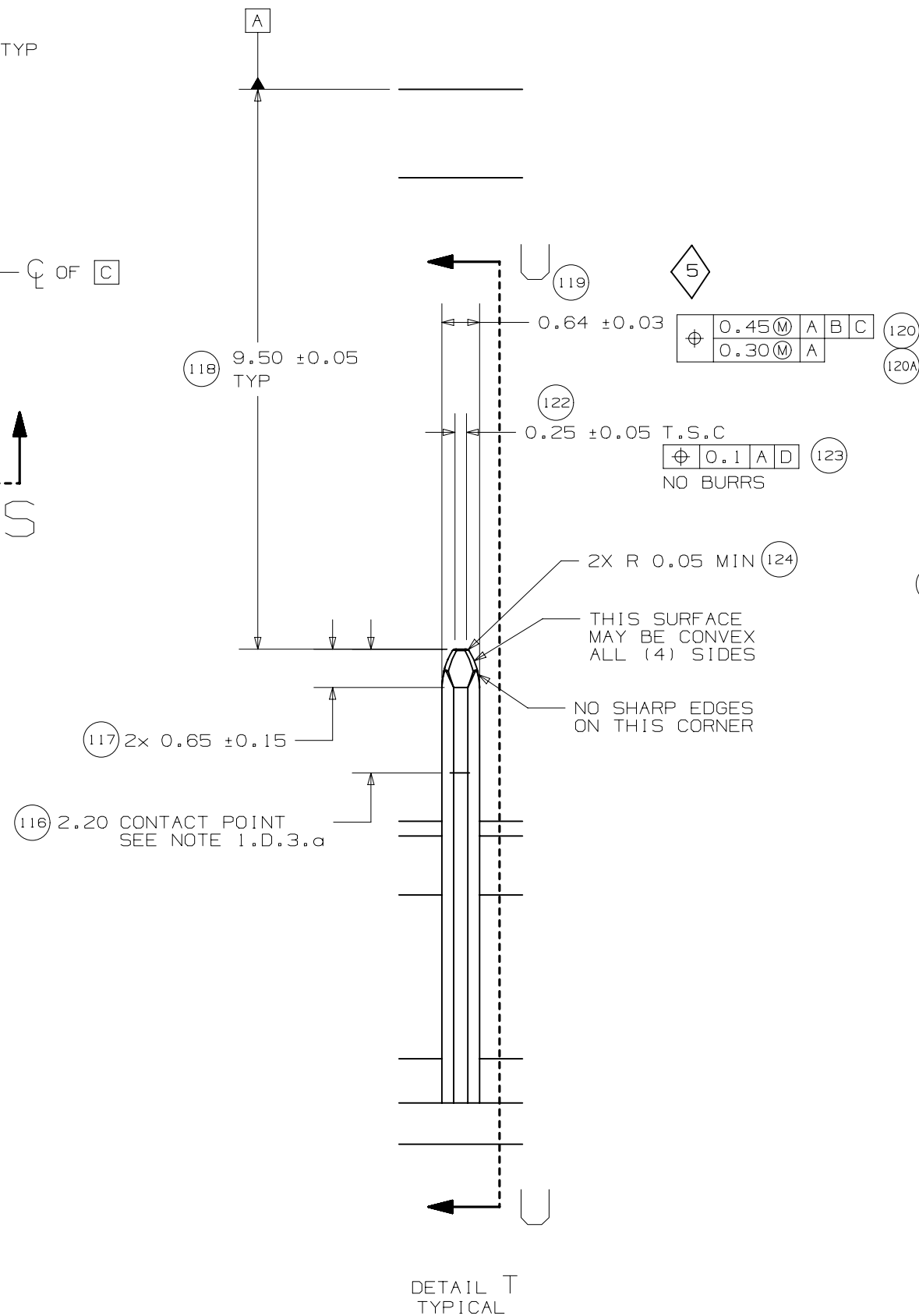
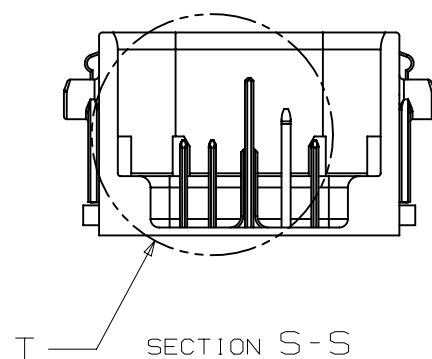
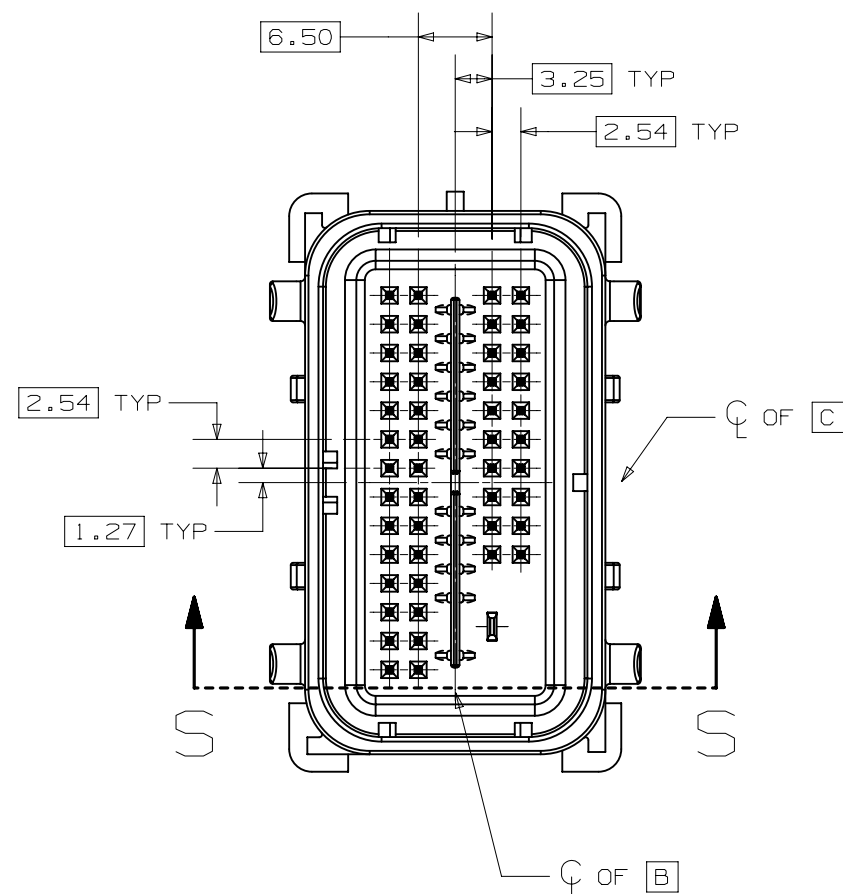
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PAGE TITLE
COMPONENT CONNECTOR INTERFACE

DRAWING NUMBER
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DWG STATUS			PAGE NUMBER	
ST	REV	PD1		
R	001		19	OF 22



DETAIL T
TYPICAL

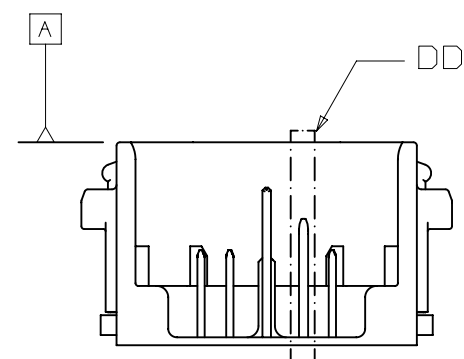
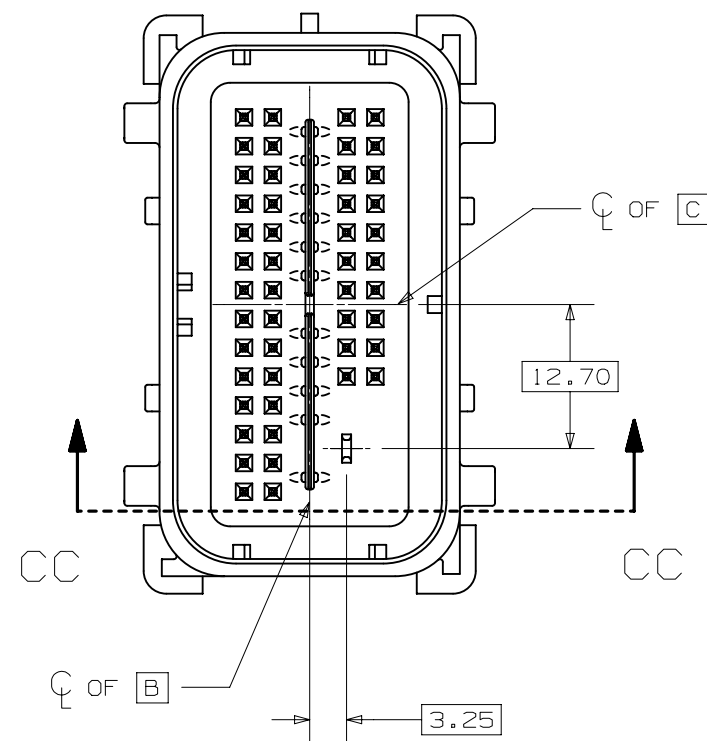


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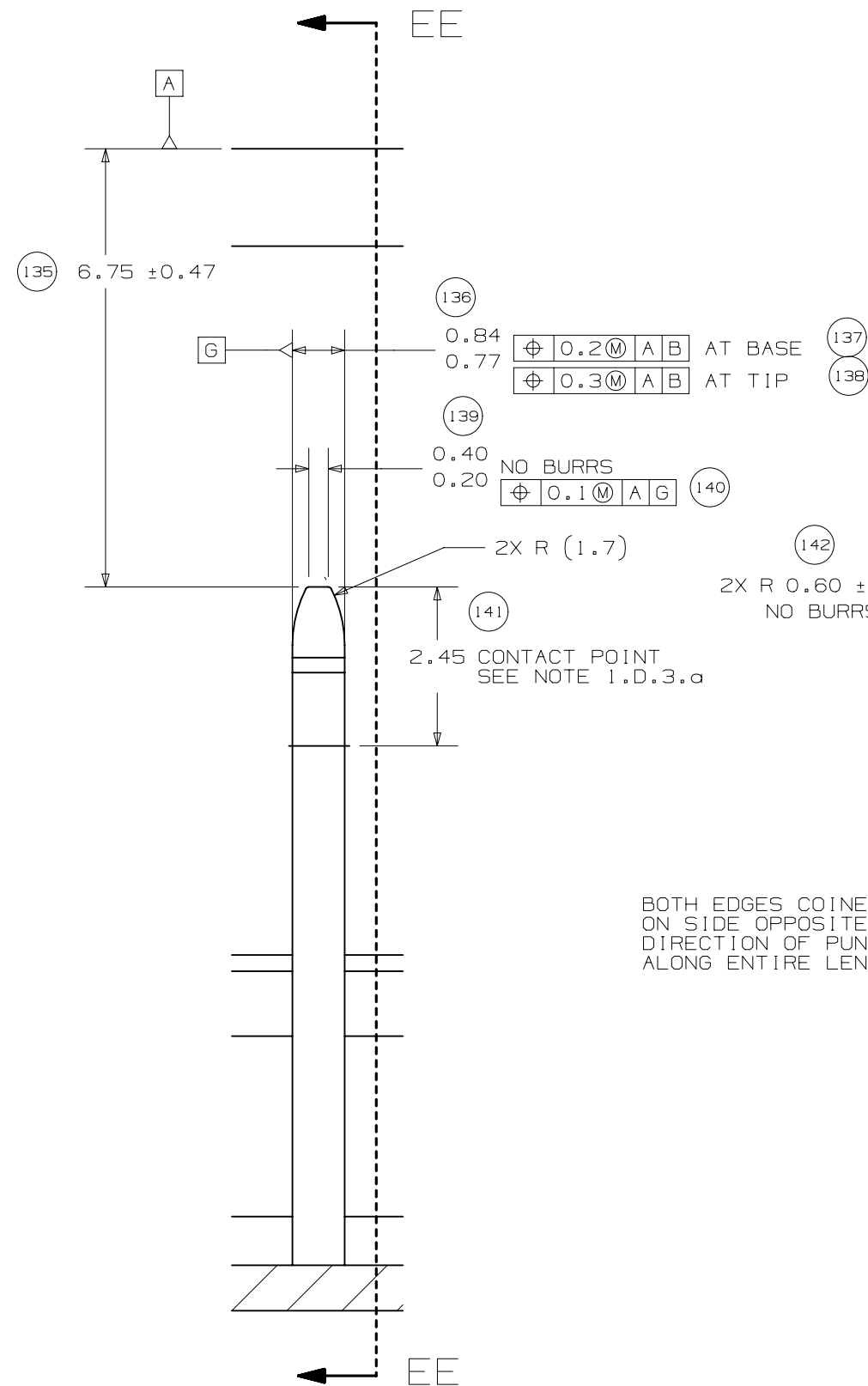
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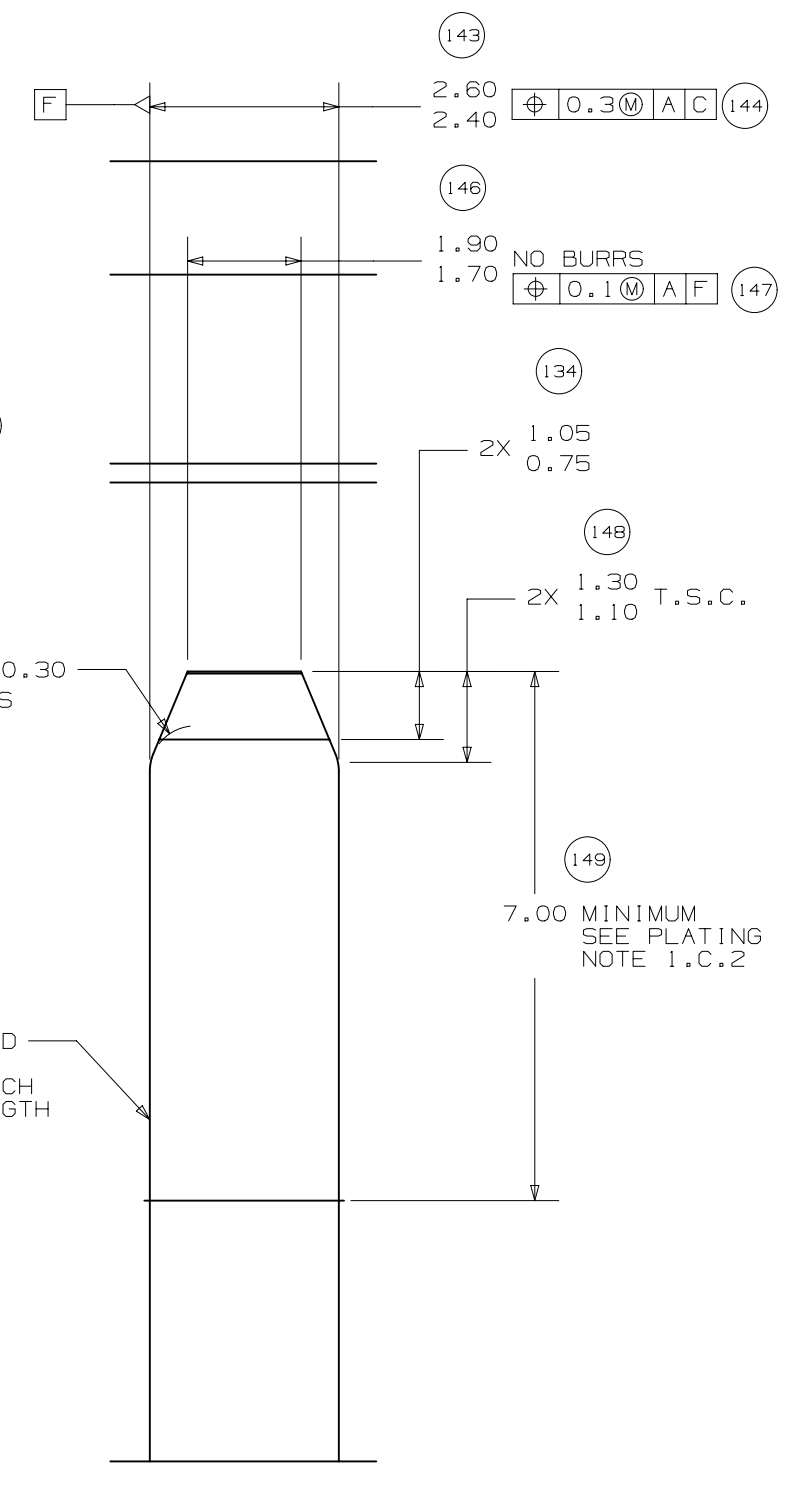
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SECTION CC-CC



DETAIL DD
TYPICAL



SECTION EE-EE
TYPICAL

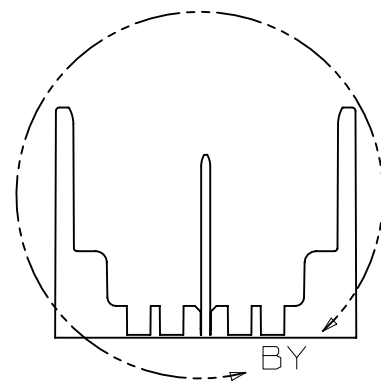
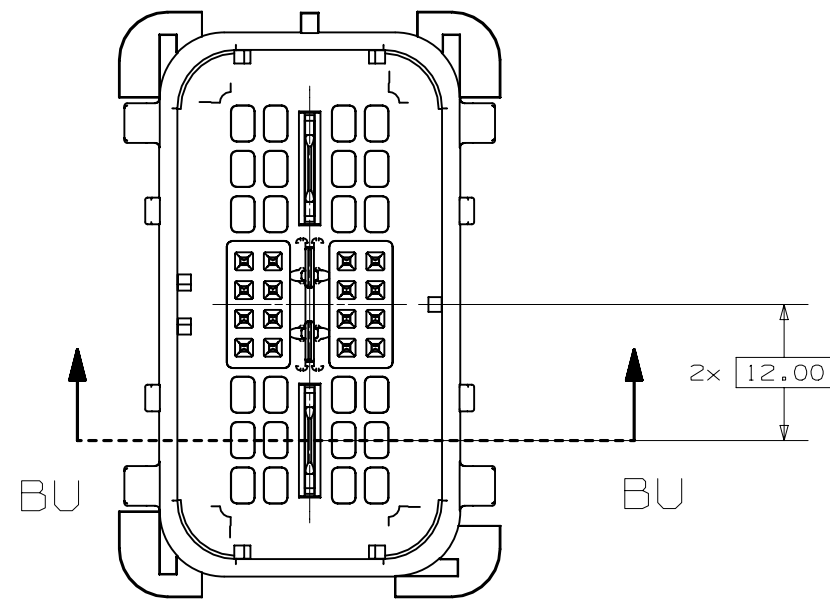


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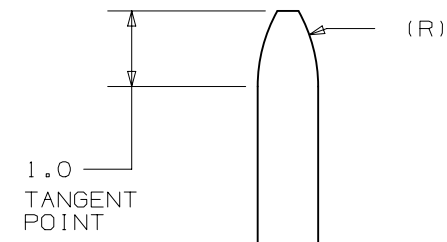
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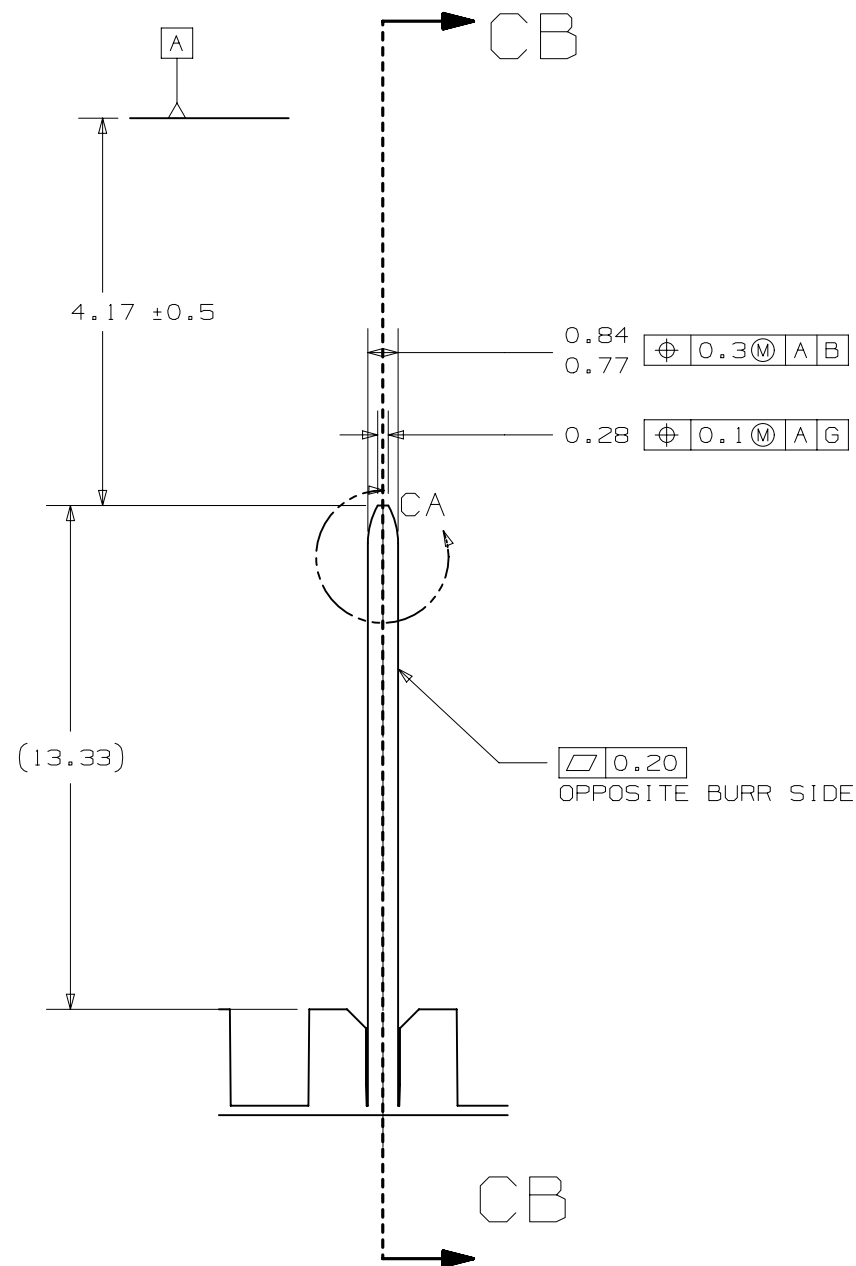
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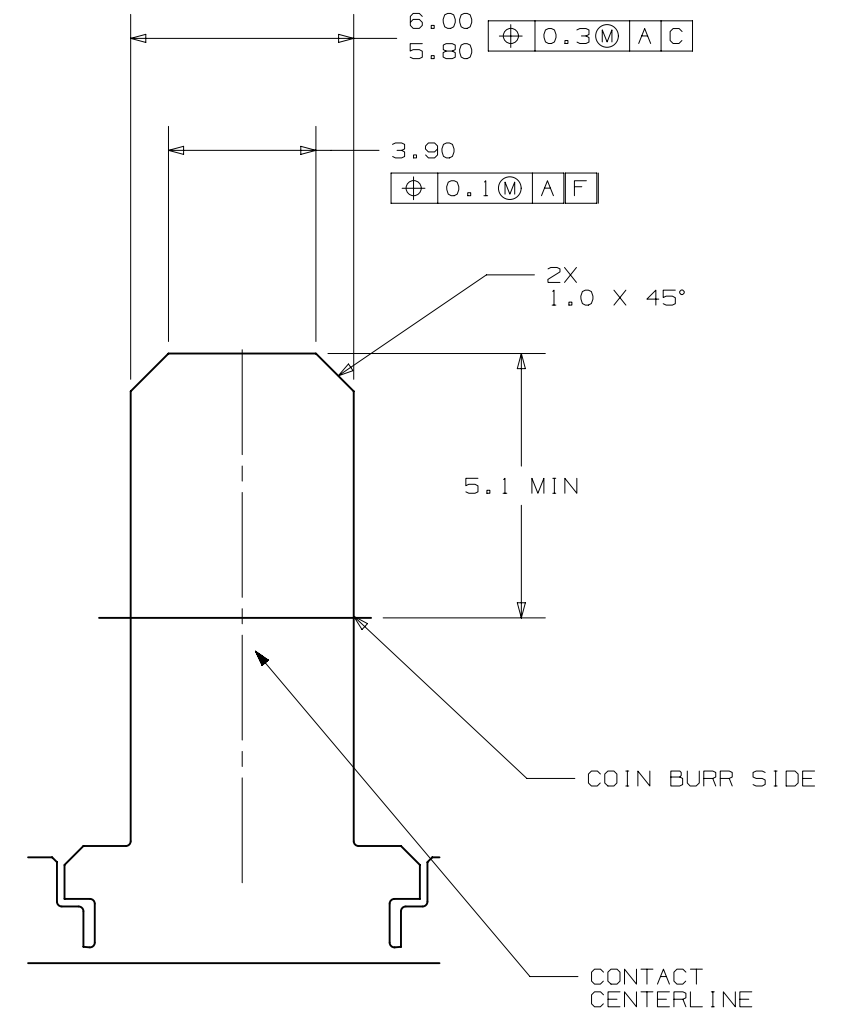
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VIEW CA
SCALE 10:1



VIEW BY
SCALE 5:1



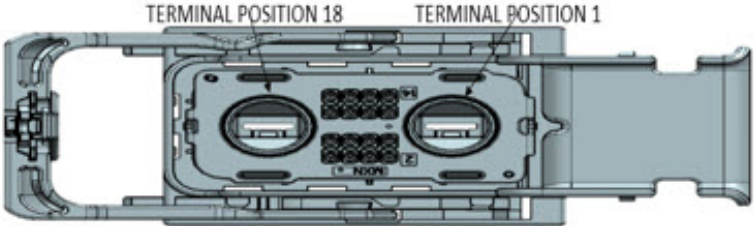
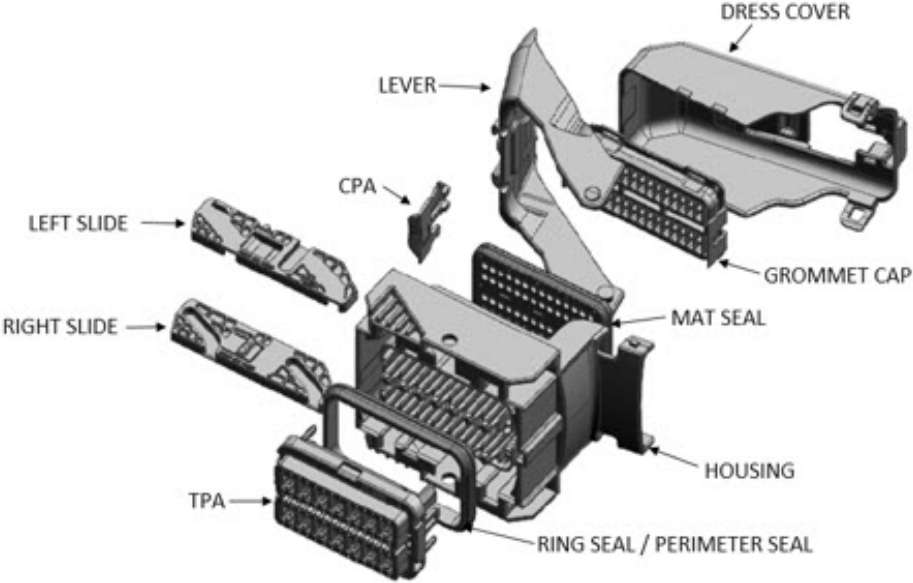
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PAGE TITLE
COMPONENT CONNECTOR INTERFACE

DRAWING NUMBER
12642694

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ABBREVIATION	DESCRIPTION	COLOR	MATERIAL
G-CAP-0-P	GROMMET CAP OPTION 0 PLUGGED	BLACK	SPS/PA, G.F 30%
G-CAP-0-O	GROMMET CAP OPTION 0 ALL OPEN	BLACK	SPS/PA, G.F 30%
G-CAP-9-P	GROMMET CAP OPTION 9 PLUGGED	BLACK	SPS/PA, G.F 30%
G-CAP-9-O	GROMMET CAP OPTION 9 ALL OPEN	BLACK	SPS/PA, G.F 30%
C-HSG-G0	CONNECTOR HOUSING KEY G - WDC OPT 0	BLACK1	SPS/PA, G.F 30%
C-HSG-H0	CONNECTOR HOUSING KEY H- WDC OPT 0	BLACK	SPS/PA, G.F 30%
C-HSG-G9	CONNECTOR HOUSING KEY G- WDC OPT 9	BLACK	SPS/PA, G.F 30%
C-HSG-H9	CONNECTOR HOUSING KEY H- WDC OPT 9	BLACK	SPS/PA, G.F 30%
TPA-G0	TERMINAL POSITION ASSURANCE (TPA) OPTION 0	BLUE	SPS/PA, G.F 30%
TPA-H0	TERMINAL POSITION ASSURANCE (TPA) OPTION 0	STONE GRAY	SPS/PA, G.F 30%
TPA-G9	TERMINAL POSITION ASSURANCE (TPA) OPTION 9	BLUE	SPS/PA, G.F 30%
TPA-H9	TERMINAL POSITION ASSURANCE (TPA) OPTION 9	STONE GRAY	SPS/PA, G.F 30%
MAL	MATE ASSIST LEVER	BLACK	SPS/NYLON GF30
RS	SLIDE - RIGHT	BLACK	PPE/PA, G.F. 30%
LS	SLIDE - LEFT	BLACK	PPE/PA, G.F. 30%
CVR BLACK	DRESS COVER BLACK	BLACK	PBT, G.F. 30%
CVR GRAY	DRESS COVER GRAY	GRAY	PBT, G.F. 30%
CVR BLUE	DRESS COVER BLUE	BLUE	PBT, G.F. 30%
CVR BROWN	DRESS COVER BROWN	BROWN	PBT, G.F. 30%
CVR GREEN	DRESS COVER GREEN	GREEN	PBT, G.F. 30%
CVR NATURAL	DRESS COVER NATURAL	NATURAL	PBT, G.F. 30%
CVR YELLOW	DRESS COVER YELLOW	YELLOW	PBT, G.F. 30%
CPA	CONNECTOR POSITION ASSURANCE (CPA)	RED	PPE/PA 10% GF
MSEAL	MAT SEAL	RUST RED	INHERENTLY LUBRICATED SILICONE RUBBER
RSEAL	RING SEAL	RUST RED	INHERENTLY LUBRICATED SILICONE RUBBER

FOR ADDITIONAL INFOMRATION SEE SD-34576-001

ASSEMBLY DESCRIPTION	ASSEMBLY PART NUMBER	CONNECTOR HOUSING	GROMMET CAP	TPA	RIGHT SLIDE	LEFT SLIDE	MATE ASSIST LEVER	CPA	MAT SEAL	RING SEAL	BLOCKED TERMINALS					STATUS	COMMENTS	INTEGRAL COMPONENTS SOLD SEPARATELY
											CAVITY WITH A NUMBER INDICATES BLOCKED TERMINAL POSITION							DRESS COVER
											CAVITY WITHOUT A NUMBER INDICATES OPEN TERMINAL POSITION							
MX123 CONN ASSY 18 CKT BLU OPT0 KEY G/18	348510007	C-HSG-G0	G-CAP-0-P	TPA-G0	RS	LS	MAL	CPA	MSEAL	RSEAL	-	-	-	-	-	SALEABLE		345750003
MX123 CONN ASSY 18 CKT GRY OPT0 KEY H/18	348510008	C-HSG-H0	G-CAP-0-P	TPA-H0	RS	LS	MAL	CPA	MSEAL	RSEAL	-	-	-	-	-	SALEABLE		345750003
MX123 CONN ASSY 18 CKT BLU OPT9 KEY G/18	348510019	C-HSG-G9	G-CAP-9-P	TPA-G9	RS	LS	MAL	CPA	MSEAL	RSEAL	-	-	-	-	-	SALEABLE		345750003
MX123 CONN ASSY 18 CKT GRY OPT9 KEY H/18	348510020	C-HSG-H9	G-CAP-9-P	TPA-H9	RS	LS	MAL	CPA	MSEAL	RSEAL	-	-	-	-	-	SALEABLE		345750003
MX123 CONN ASSY 18 CKT BLU OPT0 KEY G/2	348510025	C-HSG-G0	G-CAP-0-P	TPA-G0	RS	LS	MAL	CPA	MSEAL	RSEAL	-	17	16	15	14	SALEABLE		345750003
MX123 CONN ASSY 18 CKT GRY OPT0 KEY H/2	348510026	C-HSG-H0	G-CAP-0-P	TPA-H0	RS	LS	MAL	CPA	MSEAL	RSEAL	-	17	16	15	14	SALEABLE		345750003
MX123 CONN ASSY 18 CKT BLU OPT0 KEY G/8	348510027	C-HSG-G0	G-CAP-0-P	TPA-G0	RS	LS	MAL	CPA	MSEAL	RSEAL	-	17	16	15	14	SALEABLE		345750003
												13	12	11	10			
												-	8	-	-			
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ER NO

DATE06/03/2024

DOCUMENT NO. 348511801

REVISION E

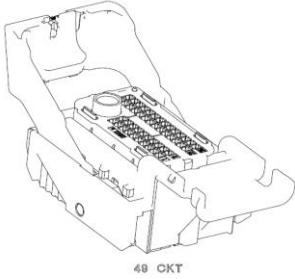
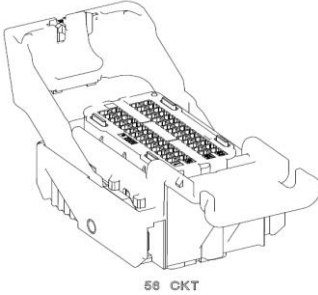
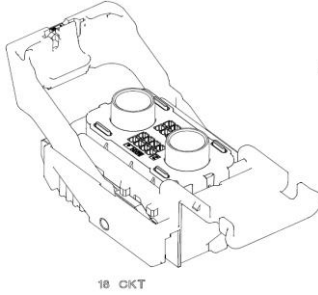
Page 1 of 2



MX123 SEALED RCPT ASSY (18 Ckt)

BOM & PIN OUT SHEET

ASSEMBLY DESCRIPTION	ASSEMBLY PART NUMBER	CONNECTOR HOUSING	GROMMET CAP	TPA	RIGHT SLIDE	LEFT SLIDE	MATE ASSIST LEVER	CPA	MAT SEAL	RING SEAL	BLOCKED TERMINALS					STATUS	COMMENTS	INTEGRAL COMPONENTS SOLD SEPARATELY	
											CAVITY WITH A NUMBER INDICATES BLOCKED TERMINAL POSITION							DRESS COVER	
											CAVITY WITHOUT A NUMBER INDICATES OPEN TERMINAL POSITION								
MX123 CONN ASSY 18 CKT GRY OPT0 KEY H/12	348510028	C-HSG-H0	G-CAP-0-P	TPA-H0	RS	LS	MAL	CPA	MSEAL	RSEAL	-	-	-	-	-	-	SALEABLE		345750003
												13	12	11	-				
												9	8	7	-				
												-	-	-	-				
MX123 CONN ASSY 18 CKT BLU OPT9 KEY G/10	348510029	C-HSG-G9	G-CAP-9-P	TPA-G9	RS	LS	MAL	CPA	MSEAL	RSEAL	-	17	16	15	-	-	SALEABLE		345750003
												13	12	-	-				
												9	-	-	6				
												5	-	-	-				
MX123 CONN ASSY 18 CKT GRY OPT0 KEY H/11	348510030	C-HSG-H0	G-CAP-0-P	TPA-H0	RS	LS	MAL	CPA	MSEAL	RSEAL	-	-	-	-	-	-	SALEABLE		345750003
												13	12	11	-				
												9	8	7	-				
												5	-	-	-				
MX123 CONN ASSY 18 CKT GRY OPT9 KEY H/11	348510031	C-HSG-H9	G-CAP-9-P	TPA-H9	RS	LS	MAL	CPA	MSEAL	RSEAL	-	17	-	-	14	-	SALEABLE		345750003
												-	-	11	10				
												-	-	-	-				
												-	4	3	2				
MX123 CONN ASSY 18 CKT GRY OPT0 KEY H/8	348510032	C-HSG-H0	G-CAP-0-P	TPA-H0	RS	LS	MAL	CPA	MSEAL	RSEAL	-	-	-	-	-	-	SALEABLE		345750003
												13	12	-	-				
												9	8	7	6				
												5	4	3	2				
MX123 CONN ASSY 18 CKT GRY OPT0 KEY H/10	348510033	C-HSG-H0	G-CAP-0-P	TPA-H0	RS	LS	MAL	CPA	MSEAL	RSEAL	-	-	-	-	-	-	SALEABLE		345750003
												13	12	-	-				
												-	8	7	6				
												-	4	3	2				
MX123 CONN ASSY 18 CKT GRY OPT0 KEY H/3	348510034	C-HSG-H0	G-CAP-0-P	TPA-H0	RS	LS	MAL	CPA	MSEAL	RSEAL	-	17	16	15	14	-	SALEABLE		345750003
												13	12	11	10				
												9	8	7	6				
												-	4	3	2				
MX123 CONN ASSY 18 CKT BLU OPT9 KEY G/11	348510035	C-HSG-G9	G-CAP-9-P	TPA-G9	RS	LS	MAL	CPA	MSEAL	RSEAL	-	17	16	15	-	-	SALEABLE		345750003
												-	-	-	-				
												9	8	7	6				
												-	-	-	-				

UNCHECKED cavity number(s) are OPEN

56	55	54	53	52	51	50	49	48	47	46	45	44	43
☐	☐	☐	☐	☐	☐	☐	☒	☒	☒	☒	☐	☒	☒
42	41	40	39	38	37	36	35	34	33	32	31	30	29
☐	☐	☐	☐	☒	☒	☒	☐	☐	☐	☒	☒	☒	☒
28	27	26	25	24	23	22	21	20	19	18	17	16	15
☐	☐	☒	☒	☒	☒	☒	☒	☒	☒	☐	☐	☐	☒
14	13	12	11	10	9	8	7	6	5	4	3	2	1
☐	☐	☒	☒	☒	☒	☒	☒	☒	☒	☒	☐	☐	☒

FOR ADDITIONAL INFORMATION SEE SD-34576-001

STATUS	GM PART #	HRNS CONN ASSY			TPA GROMMET CAP																	
		MATERIAL/PART	WIRE DRESS OPTION	KEY OPTION ▽ Fp	COLOR OPTION ▽ Fp	NUMBERS INDICATE CAVITIES OPEN FOR CIRCUITS ▽ Fp																
		NUMBER																				
SALEABLE	12672838	34576-0103	0	A	BLACK																	
CONCEPT ONLY	12672840	34576-0203	0	B	ST GRY	48	47	46	45	44	43	42	41	40	39	38	37	36	35			
SALEABLE	12672842	34576-0303	0	C	BLUE	34	33	32	31	30	29	28	27	26	25	24	23	22	21			
CONCEPT ONLY	TBD	34576-0403	0	D	BROWN	49				20	19	18	17	16	15	14	13	12	11			
CONCEPT ONLY	TBD	34576-0503	0	E	GREEN					10	9	8	7	6	5	4	3	2	1			
CONCEPT ONLY	TBD	34576-0603	0	F	NATURAL																	
SALEABLE	12672848	34576-0703	0	G	BLUE																	
SALEABLE	12672846	34576-0803	0	H	ST GRY	56	55	54	53	52	51	50	49	48	47	46	45	44	43			
TOOL DES. REL.	12672844	34576-0903	0	J	BLACK	42	41	40	39	38	37	36	35	34	33	32	31	30	29			
TOOL DES. REL.	TBD	34576-1003	0	K	BROWN	28	27	26	25	24	23	22	21	20	19	18	17	16	15			
TOOL DES. REL.	TBD	34576-1103	0	L	GREEN	14	13	12	11	10	9	8	7	6	5	4	3	2	1			
TOOL DES. REL.	TBD	34576-1203	0	M	NATURAL																	
SALEABLE	12672839	34576-1303	9	A	BLACK																	
CONCEPT ONLY	12672841	34576-1403	9	B	ST GRY	48	47	46	45	44	43	42	41	40	39	38	37	36	35			
SALEABLE	12672843	34576-1503	9	C	BLUE	34	33	32	31	30	29	28	27	26	25	24	23	22	21			
CONCEPT ONLY	TBD	34576-1603	9	D	BROWN	49				20	19	18	17	16	15	14	13	12	11			
CONCEPT ONLY	TBD	34576-1703	9	E	GREEN					10	9	8	7	6	5	4	3	2	1			
CONCEPT ONLY	TBD	34576-1803	9	F	NATURAL																	
SALEABLE	12672849	34576-1903	9	G	BLUE																	

STATUS	GM PART #	HRNS CONN ASSY			TPA GROMMET CAP																
		MATERIAL/PART	WIRE DRESS OPTION	KEY OPTION ▽Fp	COLOR OPTION ▽Fp	NUMBERS INDICATE CAVITIES OPEN FOR CIRCUITS ▽Fp															
		NUMBER																			
TOOL DES. REL.	12672847	34576-2003	9	H	ST GRY	56	55	54	53	52	51	50	49	48	47	46	45	44	43		
TOOL DES. REL.	12672845	34576-2103	9	J	BLACK	42	41	40	39	38	37	36	35	34	33	32	31	30	29		
TOOL DES. REL.	TBD	34576-2203	9	K	BROWN	28	27	26	25	24	23	22	21	20	19	18	17	16	15		
TOOL DES. REL.	TBD	34576-2303	9	L	GREEN	14	13	12	11	10	9	8	7	6	5	4	3	2	1		
TOOL DES. REL.	TBD	34576-2403	9	M	NATURAL																
SALEABLE	12672834	34851-0007	0	G	BLUE																
SALEABLE	12672836	34851-0008	0	H	ST GRY	18						17	16	15	14	1					
												13	12	11	10						
												9	8	7	6						
												5	4	3	2						
SALEABLE	12672835	34851-0019	9	G	BLUE																
SALEABLE	12672837	34851-0020	9	H	ST GRY	18						17	16	15	14	1					
												13	12	11	10						
												9	8	7	6						
												5	4	3	2						
CONCEPT ONLY		160095-0001	0	A	BLACK																
CONCEPT ONLY		160095-0002	0	B	ST GRY	27				26	25	24	23	22	21	1					
CONCEPT ONLY		160095-0003	0	C	BLUE					20	19	18	17	16	15						
						28				14	13	12	11	10	9	2					
										8	7	6	5	4	3						
CONCEPT ONLY		160095-0013	9	A	BLACK																
CONCEPT ONLY		160095-0014	9	B	ST GRY	1				21	22	23	24	25	26	27					
CONCEPT ONLY		160095-0015	9	C	BLUE					15	16	17	18	19	20						
						2				9	10	11	12	13	14	28					
										3	4	5	6	7	8						
CONCEPT ONLY		160051-0001	0	A	BLACK																
CONCEPT ONLY		160051-0003	0	C		1	2	3	4	5	6	7	8	9	10	42					
						11	12	13	14	15	16	17	18	19	20						
						41					21	22	23	24	25	26	27	28	29	30	
											31	32	33	34	35	36	37	38	39	40	
CONCEPT ONLY		160051-0013	9	A	BLACK																

STATUS	GM PART #	HRNS CONN ASSY			TPA GROMMET CAP															
		MATERIAL/PART	WIRE DRESS OPTION	KEY OPTION ▽ Fp	COLOR OPTION ▽ Fp	NUMBERS INDICATE CAVITIES OPEN FOR CIRCUITS ▽ Fp														
		NUMBER																		
CONCEPT ONLY		160051-0015	9	C	BLUE	40	39	38	37	36	35	34	33	32	31	41				
						30	29	28	27	26	25	24	23	22	21					
						42				20	19	18	17	16	15	14	13	12	11	
										10	9	8	7	6	5	4	3	2	1	
SALEABLE	NOT APPLICABLE	34576-2503	0	G	BLUE	56	55	54	53				49	48	47			44		
								40			37	36	35	34	33					
													20	19	18					
							13	12			9		7	6				2		
SALEABLE	NOT APPLICABLE	34576-2603	0	G	BLUE	56	55	54	53				49	48	47			44		
								40			37	36	35	34	33					
													20	19	18					
							13	12			9		7	6						
SALEABLE	NOT APPLICABLE	34576-2703	0	G	BLUE															
SALEABLE	NOT APPLICABLE	34576-2803	0	G	BLUE		55	54	53		51		49	48	47			44		
								40			37	36	35	34	33					
								26						20	19	18				
							13	12			9		7							
SALEABLE	NOT APPLICABLE	34576-2903	0	G	BLUE	56	55		53				49	48	47	46	45	44		
								40	39		37	36	35	34	33			30		
									25					20	19	18				
							13	12			9		7							
SALEABLE	NOT APPLICABLE	34576-3003	0	G	BLUE	56	55	54	53				49	48	47			44		
								40			37	36	35	34	33				29	
														20	19	18		16	15	
							13	12			9		7	6				2		
SALEABLE	NOT APPLICABLE	34576-3103	0	G	BLUE	56	55	54	53				49	48	47	46	45	44		
								40	39		37	36	35	34	33					
														20	19	18				
							13	12			9		7							
SALEABLE	NOT APPLICABLE	34576-3203	0	G	BLUE		55	54	53				49	48	47	46		44		
								40			37	36	35	34	33	32	31			
								26						20	19	18				
							13	12			9		7							

STATUS	GM PART #	HRNS CONN ASSY			TPA GROMMET CAP													
		MATERIAL/PART	WIRE DRESS OPTION	KEY OPTION ▽Fp	COLOR OPTION ▽Fp	NUMBERS INDICATE CAVITIES OPEN FOR CIRCUITS												
		NUMBER				▽Fp												
SALEABLE	NOT APPLICABLE	34576-3303	0	G	BLUE	56	55	54					49	48	47			44
								40			37	36	35	34	33		18	
							13	12			9		7	6				
							55	54	53				49	48	47			44
SALEABLE	NOT APPLICABLE	34576-3403	0	G	BLUE			40	39		37	36	35	34	33			
								26						20	19	18		
							13	12			9		7					
						56	55		53				49	48	47			44
SALEABLE	NOT APPLICABLE	34576-3503	0	G	BLUE			40			37	36	35	34	33			
														20	19	18		
							13	12			9		7	6				2
							55	54	53				49	48	47			44
SALEABLE	NOT APPLICABLE	34576-3603	0	G	BLUE			40			37	36	35	34	33			
								26						20	19	18		
							13	12			9		7					
						56	55	54	53		51		49	48	47			44
SALEABLE	NOT APPLICABLE	34576-3703	0	G	BLUE			40			37	36	35	34	33			29
														20	19	18		16
							13	12			9		7	6				2
						56		54	53				49		47	46		44
SALEABLE	NOT APPLICABLE	34576-3803	0	G	BLUE			40	39		37	36	35		33	32	31	29
									25					20	19	18		15
							13	12			9		7					2
						56		54	53				49		47			44
SALEABLE	NOT APPLICABLE	34576-3903	0	G	BLUE			40	39		37	36	35		33			29
									25					20	19	18		15
							13	12			9		7					
						56	55	54	53				49	48	47		45	44
SALEABLE	NOT APPLICABLE	34576-4003	0	G	BLUE			40	39		37	36	35	34	33			29
									25					20	19	18		16
							13	12			9		7	6				1
						56	55	54	53				49	48	47	46		44
SALEABLE	NOT APPLICABLE	34576-4103	0	G	BLUE			40	39	38	37	36	35	34	33	32	31	29
									25					20	19	18		16
							13	12			9		7					

STATUS	GM PART #	HRNS CONN ASSY			TPA GROMMET CAP													
		MATERIAL/PART	WIRE DRESS OPTION	KEY OPTION Fp	COLOR OPTION Fp	NUMBERS INDICATE CAVITIES OPEN FOR CIRCUITS												
		NUMBER				Fp												
SALEABLE	NOT APPLICABLE	34576-4203	0	G	BLUE	56	55	54	53				49	48	47		45	44
								40	39		37	36	35	34	33		18	
							13	12			9		7					
SALEABLE	NOT APPLICABLE	34576-4303	0	G	BLUE	56	55	54	53		51		49	48	47		45	44
							41	40		38	37	36	35	34	33			30
								26	25	24		22	21	20	19		17	
							13	12			9		7			4	3	1
SALEABLE	NOT APPLICABLE	34576-4403	0	G	BLUE	56	55	54	53				49	48	47	46		44
								40	39		37	36	35	34	33	32	31	29
									25					20	19	18		16
								12			9		7					
SALEABLE	NOT APPLICABLE	34576-4503	0	G	BLUE	56	55		53				49	48	47	46		44
								40	39		37	36	35	34	33	32	31	30
									25	24		22	21	20	19	18		16
							13	12			9		7			4		2
SALEABLE	NOT APPLICABLE	34576-4603	0	G	BLUE	56	55	54	53				49	48	47	46		44
								40	39		37	36	35	34	33	32	31	29
									25					20	19	18		16
							13	12			9		7					
SALEABLE	NOT APPLICABLE	34576-4703	0	G	BLUE	56	55		53		51		49	48	47			44
								40	39		37	36	35	34	33			30
									25			22	21	20	19	18		16
							13	12			9		7			4		2
SALEABLE	NOT APPLICABLE	34576-4803	0	G	BLUE		55		53		51		49	48	47			44
								40	39		37	36	35	34	33			29
								26						20	19	18		16
							13	12			9		7			4		2
TOOL DES. REL.	NOT APPLICABLE	34576-4903	9	G	BLUE		55	54	53				49	48	47	46		44
								40			37	36	35	34	33	32	31	
								26						20	19	18		
							13	12			9		7					
SALEABLE	NOT APPLICABLE	34576-5003	0	G	BLUE		55	54	53				49	48	47		45	44
								40			37	36	35	34	33			
								26						20	19	18		
							13	12			9		7					

STATUS	GM PART #	HRNS CONN ASSY			TPA GROMMET CAP													
		MATERIAL/PART	WIRE DRESS OPTION	KEY OPTION ▽Fp	COLOR OPTION ▽Fp	NUMBERS INDICATE CAVITIES OPEN FOR CIRCUITS												
		NUMBER				▽Fp												
SALEABLE	NOT APPLICABLE	34576-5103	0	G	BLUE		55		53		51		49	48	47			44
								40			37	36	35	34	33			29
								26		24				20	19	18		16
							13	12			9		7			4		2
SALEABLE	NOT APPLICABLE	34576-5203	0	G	BLUE	56	55	54	53				49	48	47			44
								40	39		37	36	35	34	33			29
														20	19	18		15
							13	12			9		7					
TOOL DES. REL.	NOT APPLICABLE	34576-5303	9	G	BLUE													
SALEABLE	NOT APPLICABLE	34576-5403	0	G	BLUE		55		53		51		49	48	47			44
								40	39		37	36	35	34	33			30
								26	25			22	21	20	19	18		16
							13	12			9		7			4		2
SALEABLE	NOT APPLICABLE	34576-5503	0	G	BLUE	56	55		53		51		49	48	47			44
								40	39		37	36	35	34	33			30
									25			22	21	20	19	18		16
							13	12			9		7			4		2
SALEABLE	NOT APPLICABLE	34576-5603	0	G	BLUE	56	55		53				49	48	47	46		44
								40	39		37	36	35	34	33	32	31	30
									25			22	21	20	19	18		16
							13	12			9		7			4		2
SALEABLE	NOT APPLICABLE	34576-5703	0	G	BLUE		55		53				49	48	47	46		44
								40	39		37	36	35	34	33	32	31	30
								26	25			22	21	20	19	18		16
							13	12			9		7			4		2
SALEABLE	NOT APPLICABLE	34576-5803	0	G	BLUE		55		53				49	48	47	46	45	44
								40	39		37	36	35	34	33			
								26	25					20	19	18		
							13	12			9		7					
SALEABLE	NOT APPLICABLE	34576-5903	0	G	BLUE	56			53	52					47		45	43
							41	40	39	38				34	33		31	30
						28	27	26	25	24				20	19	18		16
							13	12	11	10							3	2

STATUS	GM PART #	HRNS CONN ASSY			TPA GROMMET CAP															
		MATERIAL/PART	WIRE DRESS OPTION	KEY OPTION ▽Fp	COLOR OPTION ▽Fp	NUMBERS INDICATE CAVITIES OPEN FOR CIRCUITS ▽Fp														
		NUMBER																		
SALEABLE	NOT APPLICABLE	34576-6003	0	G	BLUE	56			53	52		50			47		45		43	
								40	39	38			34	33		31	30	29		
						28	27	26	25	24				20	19	18		16		
						14	13	12	11	10					5	4	3	2		
SALEABLE	NOT APPLICABLE	34576-6103	0	G	BLUE	56	55	54	53		51		49	48	47			44		
								40	39		37	36	35	34	33				29	
														20	19	18		16	15	
							13	12			9		7			4		2		
SALEABLE	NOT APPLICABLE	34576-6203	0	G	BLUE		55	54	53				49	48	47	46	45	44		
								40			37	36	35	34	33					
								26						20	19	18				
							13	12			9		7							
SALEABLE	NOT APPLICABLE	34576-6303	0	G	BLUE		55	54	53		51		49	48	47			44		
								40	39		37	36	35	34	33				29	
								26						20	19	18		16	15	
							13	12			9		7			4		2		
SALEABLE	NOT APPLICABLE	34576-6403	0	G	BLUE		55	54					49	48	47			44		
							41	40			37	36	35	34	33					
														20	19	18				
							13	12			9	8	7				3			
SALEABLE	NOT APPLICABLE	34576-6503	0	G	BLUE			54						47	46	45		43		
							41	40	39	38	37				33	32	31	30	29	
						28	27	26	25	24	23			20	19	18		16		
							13	12	11	10	9						3	2		
SALEABLE	NOT APPLICABLE	34576-6603	0	G	BLUE			54						47	46	45		43		
							41	40	39	38	37			34	33	32	31	30	29	
						28	27	26	25	24	23			20	19	18		16		
							13	12	11	10	9						3	2		
SALEABLE	NOT APPLICABLE	34576-6703	0	G	BLUE		55			52	51			48		46	45		43	
							41	40	39	38					33	32	31	30	29	
						28		26	25	24				20	19	18		16	15	
							13	12	11	10							3	2	1	
SALEABLE	NOT APPLICABLE	34576-6803	0	G	BLUE					52				48		46	45		43	
							41	40	39	38					33	32	31	30	29	
						28		26	25	24				20	19	18		16	15	
							13	12	11	10							3	2	1	

STATUS	GM PART #	HRNS CONN ASSY			TPA GROMMET CAP													
		MATERIAL/PART	WIRE DRESS OPTION	KEY OPTION ▽Fp	COLOR OPTION ▽Fp	NUMBERS INDICATE CAVITIES OPEN FOR CIRCUITS												
		NUMBER				▽Fp												
SALEABLE	NOT APPLICABLE	34576-6813	0	G	BLUE	56	55	54	53		51	50	49		47			44
						42			39		37	36	35	34				
							27		25		23	22	21			17		
						14			11		9	8	7	6	5	4		
SALEABLE	NOT APPLICABLE	34576-6823	0	G	BLUE	56		54	53			50	49		47			44
						42			39		37	36	35	34				
							27		25		23	22	21				17	
						14			11		9	8	7	6	5	4		
SALEABLE	NOT APPLICABLE	34576-6833	0	G	BLUE	56		54	53			50	49		47			
													21				17	
						14			11		9	8	7	6	5	4		
SALEABLE	NOT APPLICABLE	34576-6843	0	G	BLUE	56		54	53	52					47	46	45	43
							41	40	39	38	37				33	32	31	30
						28	27	26	25	24	23			20	19	18		16
							13	12	11	10	9						3	2
SALEABLE	NOT APPLICABLE	34576-6853	0	G	BLUE	56		54	53	52					47	46	45	43
							41	40	39	38	37			34	33	32	31	30
						28	27	26	25	24	23			20	19	18		16
							13	12	11	10	9						3	2
SALEABLE	NOT APPLICABLE	34576-6863	0	G	BLUE		55			52	51				48		46	45
							41	40		38						33	32	31
						28		26		24				20	19	18		16
							13	12		10							3	2
SALEABLE	NOT APPLICABLE	34576-6873	0	G	BLUE					52					48		46	45
							41	40		38						33	32	31
						28		26		24				20	19	18		16
							13	12		10							3	2
SALEABLE	NOT APPLICABLE	34576-6883	0	G	BLUE	56		54		52					47	46	45	43
							41	40	39	38	37			34	33	32	31	30
						28	27	26	25	24	23			20	19	18		16
							13	12	11	10	9						3	2
SALEABLE	NOT APPLICABLE	34576-6893	0	G	BLUE			54	53						47	46	45	
							41	40		38					33	32	31	30
						28	27	26	25	24				20	19	18		16
							13	12	11	10		8					3	2

STATUS	GM PART #	HRNS CONN ASSY			TPA GROMMET CAP															
		MATERIAL/PART	WIRE DRESS OPTION	KEY OPTION ▽ Fp	COLOR OPTION ▽ Fp	NUMBERS INDICATE CAVITIES OPEN FOR CIRCUITS ▽ Fp														
		NUMBER																		
SALEABLE	NOT APPLICABLE	34576-6913	9	G	BLUE			54	53						47	46	45		43	
							41	40		38					33	32	31	30	29	
						28	27	26	25	24				20	19	18		16		
							13	12	11	10		8						3	2	
SALEABLE	NOT APPLICABLE	34576-6923	9	G	BLUE			54	53						47	46	45		43	
							41	40	39	38					33	32	31	30	29	
						28	27	26	25	24	23			20	19	18		16		
							13	12	11	10	9	8						3	2	
TOOL DES. REL.	NOT APPLICABLE	34851-0025	0	G	BLUE	18									1					
TOOL DES. REL.	NOT APPLICABLE	34851-0026	0	H	ST GRY	18									1					
SALEABLE	NOT APPLICABLE	34576-6933	0	G	BLUE		55	54	53				49	48	47	46	45	44		
								40			37	36	35	34	33					
								26					20	19	18					
						13	12			9		7								
SALEABLE	NOT APPLICABLE	34576-6943	0	G	BLUE			54	53					47	46	45		43		
							41	40		38					33	32	31	30	29	
						28		26	25	24				20	19	18		16		
							13	12	11	10		8					3	2		
SALEABLE	NOT APPLICABLE	34576-6953	0	G	BLUE			54	53					47	46	45		43		
							41	40	39	38					33	32	31	30	29	
						28	27	26	25	24	23			20	19	18		16		
							13	12	11	10	9	8					3	2		
SALEABLE	NOT APPLICABLE	34576-6963	0	G	BLUE	56		54	53	52				47	46	45		43		
							41	40	39	38				34	33	32	31	30	29	
						28	27	26	25	24	23			20	19	18		16		
							13	12	11	10	9	8					3	2		
SALEABLE	NOT APPLICABLE	34576-6973	0	G	BLUE	56				52	51	50						43		
						42	41			39	38						32	31	30	29
						28	27			25	24	23	22	21				17	16	15
						14				11	10		8		6	5	4	3	2	1

STATUS	GM PART #	HRNS CONN ASSY			TPA GROMMET CAP												
		MATERIAL/PART	WIRE DRESS OPTION	KEY OPTION Fp	COLOR OPTION Fp	NUMBERS INDICATE CAVITIES OPEN FOR CIRCUITS											
		NUMBER				Fp											
SALEABLE	NOT APPLICABLE	34576-6983	0	G	BLUE			54	53						46		44
								40	39	38	37	36			32	31	30
									25	24	23	22	21	20	19		
									11	10	9	8	7	6	5	4	2
SALEABLE	NOT APPLICABLE	34576-6993	0	G	BLUE	56	55	54	53	52	51				47	46	45
							41	40		38					33	32	31
						28	27	26	25	24				20	19	18	
							13	12	11	10		8				3	2
SALEABLE	NOT APPLICABLE	34576-7003	0	G	BLUE	56	55	54		52	51				47	46	45
							41	40		38					33	32	31
						28	27	26	25	24				20	19	18	
							13	12	11	10		8				3	2
SALEABLE	NOT APPLICABLE	34576-7013	0	G	BLUE	56	55	54	53	52	51				47	46	45
							41	40		38				34	33	32	31
						28	27	26	25	24				20	19	18	
							13	12	11	10		8				3	2
SALEABLE	NOT APPLICABLE	34576-7023	0	G	BLUE	56	55	54		52	51				47	46	45
							41	40		38				34	33	32	31
						28	27	26	25	24				20	19	18	
							13	12	11	10		8				3	2
SALEABLE	NOT APPLICABLE	34576-7033	0	G	BLUE	56		54	53	52					47	46	45
							41	40		38					33	32	31
						28	27	26	25	24				20	19	18	
							13	12	11	10		8				3	2
SALEABLE	NOT APPLICABLE	34576-7043	0	G	BLUE	56		54		52					47	46	45
							41	40		38					33	32	31
						28	27	26	25	24				20	19	18	
							13	12	11	10		8				3	2
SALEABLE	NOT APPLICABLE	34576-7053	0	G	BLUE	56		54	53	52					47	46	45
							41	40		38				34	33	32	31
						28	27	26	25	24				20	19	18	
							13	12	11	10		8				3	2
SALEABLE	NOT APPLICABLE	34576-7063	0	G	BLUE	56		54		52					47	46	45
							41	40		38				34	33	32	31
						28	27	26	25	24				20	19	18	
							13	12	11	10		8				3	2

STATUS	GM PART #	HRNS CONN ASSY			TPA GROMMET CAP															
		MATERIAL/PART	WIRE DRESS OPTION	KEY OPTION ▽Fp	COLOR OPTION ▽Fp	NUMBERS INDICATE CAVITIES OPEN FOR CIRCUITS ▽Fp														
		NUMBER																		
SALEABLE	NOT APPLICABLE	34576-7073	0	G	BLUE			54	53	52					47	46	45		43	
							41	40		38					33	32	31	30	29	
						28	27	26	25	24				20	19	18		16		
							13	12	11	10		8						3	2	
SALEABLE	NOT APPLICABLE	34576-7083	0	G	BLUE			54	53	52					47	46	45		43	
							41	40		38				34	33	32	31	30	29	
						28	27	26	25	24				20	19	18		16		
							13	12	11	10		8						3	2	
SALEABLE	NOT APPLICABLE	34576-7093	0	G	BLUE			54	53						47	46	45		43	
							41	40		38					33	32	31	30	29	
						28	27	26	25	24				20	19	18		16		
							13	12	11	10		8						3	2	
SALEABLE	NOT APPLICABLE	34576-7103	0	G	BLUE	56	55			52	51	50	49	48	47		45		43	
						42	41						35	34	33				29	
						28	27	26								18	17	16	15	
						14	13	12									3		1	
SALEABLE	NOT APPLICABLE	34576-7113	0	G	BLUE			54							47	46	45		43	
							41	40		38					33	32	31	30	29	
						28	27	26	25	24				20	19	18		16		
							13	12	11	10		8						3	2	
SALEABLE	NOT APPLICABLE	34576-7123	0	G	BLUE	56	55			52	51	50	49	48	47		45		43	
						42	41						35	34	33				29	
						28	27	26								18		16	15	
						14	13	12									3		1	
SALEABLE	NOT APPLICABLE	34576-7133	9	G	BLUE	56		54	53	52					47	46	45		43	
							41	40	39	38				34	33	32	31	30	29	
						28	27	26	25	24	23			20	19	18		16		
							13	12	11	10	9	8						3	2	
SALEABLE	NOT APPLICABLE	34576-7143	9	G	BLUE	56	55	54	53	52	51				47	46	45		43	
							41	40		38				34	33	32	31	30	29	
						28	27	26	25	24				20	19	18		16		
							13	12	11	10		8						3	2	
SALEABLE	NOT APPLICABLE	34576-7153	9	G	BLUE	56		54	53	52			49		47	46	45		43	
							41	40	39	38				34	33	32	31	30	29	
						28	27	26	25	24	23			20	19	18		16		
							13	12	11	10	9	8						3	2	

STATUS	GM PART #	HRNS CONN ASSY			TPA GROMMET CAP													
		MATERIAL/PART	WIRE DRESS OPTION	KEY OPTION Fp	COLOR OPTION Fp	NUMBERS INDICATE CAVITIES OPEN FOR CIRCUITS												
		NUMBER				Fp												
SALEABLE	NOT APPLICABLE	34576-7163	0	G	BLUE				53				49		47	46	45	44
									40			37	36	35		33		
									26					20	19	18		
							13	12				9		7				
SALEABLE	NOT APPLICABLE	34576-7173	9	G	BLUE		55			52	51			48		46	45	
							41	40		38					33	32	31	30
						28		26		24				20	19	18		16
							13	12		10							3	2
SALEABLE	NOT APPLICABLE	34576-7183	0	G	BLUE	56	55		53				49	48	47	46		44
									40	39		37	36	35	34	33	32	31
										25	24		22	21	20	19	18	
							13	12				9		7			4	2
SALEABLE	NOT APPLICABLE	34576-7193	9	G	BLUE	56		54	53	52					47	46	45	
							41	40		38				34	33	32	31	30
						28	27	26		24				20	19	18		16
							13	12		10							3	2
SALEABLE	NOT APPLICABLE	34576-7203	0	G	BLUE	56	55	54	53	52	51				47	46	45	
							41	40		38				34	33	32	31	30
						28	27	26	25	24				20	19	18		16
							13	12	11	10		8					3	2
SALEABLE	NOT APPLICABLE	34576-7213	0	G	BLUE	56	55			52	51	50	49	48	47	46	45	
						42	41						35	34	33		31	29
						28	27	26					21		19	18		16
						14	13	12								4	3	1
SALEABLE	NOT APPLICABLE	34576-7223	0	G	BLUE			54	53						47	46	45	
							41	40	39	38				34	33		31	30
						28	27	26	25	24			21	20	19	18		16
							13	12	11	10				6			3	2
SALEABLE	NOT APPLICABLE	34576-7233	0	G	BLUE											46	45	
														33				
												21				18	17	
																	3	
SALEABLE	NOT APPLICABLE	34576-7243	0	G	BLUE			54	53						47		45	
							41	40	39	38				34	33		31	30
						28	27	26	25	24				20	19	18		16
							13	12	11	10							3	2

STATUS	GM PART #	HRNS CONN ASSY			TPA GROMMET CAP																	
		MATERIAL/PART	WIRE DRESS OPTION	KEY OPTION ▽Fp	COLOR OPTION ▽Fp	NUMBERS INDICATE CAVITIES OPEN FOR CIRCUITS ▽Fp																
		NUMBER																				
SALEABLE	NOT APPLICABLE	34851-0027	0	G	BLUE	18									1							
											9		7	6								
											5		3	2								
											17	16	15	14								
SALEABLE	NOT APPLICABLE	34851-0028	0	H	ST GRY	18									10	1						
														6								
											5	4	3	2								
SALEABLE	NOT APPLICABLE	34576-7253	0	G	BLUE	56		54	53	52					47	46	45		43			
							41	40	39	38					33	32	31	30	29			
						28	27	26	25	24	23			20	19	18		16				
							13	12	11	10	9	8					3	2				
SALEABLE	NOT APPLICABLE	34576-7263	0	G	BLUE	56	55	54	53	52	51	50					45		43			
						42	41	40	39				35	34	33							
						28	27									18		16				
						14	13										3	2				
SALEABLE	NOT APPLICABLE	34576-7273	0	G	BLUE	56	55	54	53	52	51	50					45					
						42	41	40	39				35	34	33							
						28	27									18		16				
						14	13										3	2				
SALEABLE	NOT APPLICABLE	34576-7283	0	G	BLUE			54	53					47	46	45		43				
							41	40		38				34	33	32	31	30	29			
						28	27	26	25	24				20	19	18		16				
							13	12	11	10		8		6			3	2				
SALEABLE	NOT APPLICABLE	34576-7293	9	G	BLUE			54	53				49	48	47	46	45		43			
							41	40		38					33	32	31	30	29			
						28	27	26	25	24				20	19	18		16	15			
							13	12	11	10		8		6			3	2	1			
SALEABLE	NOT APPLICABLE	34576-7303	0	G	BLUE	56	55			52	51	50					45					
						42	41						35	34	33							
						28	27									18		16				
						14	13										3					
SALEABLE	NOT APPLICABLE	34576-7313	0	G	BLUE	56	55	54	53	52	51	50					45					
						42	41	40	39				35	34	33							
						28	27				23					18	17	16				
						14	13				9						3	2				

STATUS	GM PART #	HRNS CONN ASSY			TPA GROMMET CAP													
		MATERIAL/PART	WIRE DRESS OPTION	KEY OPTION ▽Fp	COLOR OPTION ▽Fp	NUMBERS INDICATE CAVITIES OPEN FOR CIRCUITS ▽Fp												
		NUMBER																
SALEABLE	NOT APPLICABLE	34576-7323	0	G	BLUE	56	55	54	53	52	51	50				45		
						42	41	40	39				35	34	33			
						28	27				23					18		16
						14	13				9					3		2
SALEABLE	NOT APPLICABLE	34576-7333	0	G	BLUE	56	55	54	53	52	51	50				45		
						42	41	40	39				35	34	33			
						28	27									18	17	16
						14	13									3		2
SALEABLE	NOT APPLICABLE	34576-7343	0	G	BLUE	56	55			52	51	50				46	45	
						42	41								33			
						28	27						21			18	17	16
						14	13									3		
SALEABLE	NOT APPLICABLE	34576-7353	0	G	BLUE	56			53	52		50			47	46	45	43
								40		38				34	33	32	31	30
						28	27	26	25	24			20	19	18		16	
							13	12	11	10		8				3	2	
SALEABLE	NOT APPLICABLE	34851-0029	9	G	BLUE	18							14	1				
													11					
												8	7					
												4	3					
SALEABLE	NOT APPLICABLE	34576-7363	0	H	ST. GRAY						51	50		48	47	46	45	
														34	33	32	31	29
													21	20				
										9	8	7	6		4	3	2	1
SALEABLE	NOT APPLICABLE	34576-7373	9	G	BLUE					52				48	47			43
								40			37	36		34				30
										24				20				15
						14							7					
SALEABLE	NOT APPLICABLE	34851-0030	0	H	ST. GRAY	18					17	16	15	14	1			
														10				
														6				
												4	3	2				
SALEABLE	NOT APPLICABLE	34576-9113	0	A	BLACK													
						49												

STATUS	GM PART #	HRNS CONN ASSY			TPA GROMMET CAP														
		MATERIAL/PART	WIRE DRESS OPTION	KEY OPTION ▽Fp	COLOR OPTION ▽Fp	NUMBERS INDICATE CAVITIES OPEN FOR CIRCUITS ▽Fp													
		NUMBER																	
SALEABLE	NOT APPLICABLE	34576-9123	0	C	BLUE														
						49													
SALEABLE	NOT APPLICABLE	34576-7383	9	G	BLUE	56	55	54	53				49	48	47		45	44	
								40	39		37	36	35	34	33				29
									25					20	19	18		16	15
							13	12			9		7	6					1
SALEABLE	NOT APPLICABLE	34576-7393	0	G	BLUE	56	55			52	51	50				46	45	44	
						42	41												
												21		19	18			15	
						14	13					8					3		
SALEABLE	NOT APPLICABLE	34576-7403	0	G	BLUE	56	55			52	51	50					45		
						42	41												
						28	27					22				18	17	16	
						14	13					8					3		
SALEABLE	NOT APPLICABLE	34576-7413	0	G	BLUE			54	53				49	48	47	46		44	43
								40	39	38	37	36				32	31	30	29
								26	25	24	23		21	20	19		17		15
								12	11	10	9		7	6	5	4		2	1
SALEABLE	NOT APPLICABLE	34576-7423	0	G	BLUE			54	53				49	48	47	46		44	43
								40	39	38	37	36	35	34	33	32	31	30	29
								26	25	24	23		21	20	19		17		15
								12	11	10	9		7	6	5	4		2	1
SALEABLE	NOT APPLICABLE	34576-7433	0	G	BLUE			54	53				49	48	47	46		44	43
								40	39	38	37	36	35	34	33	32	31	30	29
								26	25	24	23		21	20	19				15
								12	11	10	9		7	6	5	4		2	1
SALEABLE	NOT APPLICABLE	34576-7443	0	G	BLUE			54	53				49	48	47				43
								40	39	38	37	36				32	31	30	29
								26	25	24	23			20			17		15
								12	11	10	9		7	6	5	4		2	1
SALEABLE	NOT APPLICABLE	34576-7453	9	G	BLUE					52				48	47		45		43
								40			37	36		34				30	
										24				20					15
						14							7						

STATUS	GM PART #	HRNS CONN ASSY			TPA GROMMET CAP													
		MATERIAL/PART	WIRE DRESS OPTION	KEY OPTION ▽Fp	COLOR OPTION ▽Fp	NUMBERS INDICATE CAVITIES OPEN FOR CIRCUITS												
		NUMBER				▽Fp												
SALEABLE	NOT APPLICABLE	34576-7463	9	G	BLUE											33		31
										24	23	22	21	20	19	18		16
										10	9	8	7	6				2
SALEABLE	NOT APPLICABLE	34576-7473	9	G	BLUE	56	55	54	53		51	50	49			46		44
						42	41		39	38			35		33	32	31	29
						28	27	26	25		23	22	21		19	18	17	16
							13	12	11	10	9	8		6	5	4	3	2
SALEABLE	NOT APPLICABLE	34576-7483	0	G	BLUE	56	55			52	51	50					45	
						42	41						35	34	33			
						28	27									18		16
						14	13									4	3	
SALEABLE	NOT APPLICABLE	34576-7493	0	G	BLUE	56	55	54	53	52	51	50					45	
						42	41	40	39									
						28	27									18		16
						14	13									4	3	2
SALEABLE	NOT APPLICABLE	34576-7503	0	G	BLUE	56	55			52	51	50					45	
						42	41											
						28	27									18		16
						14	13									4	3	
SALEABLE	NOT APPLICABLE	34576-7513	0	G	BLUE	56	55	54	53	52	51	50	49	48	47	46	45	44
						42	41	40	39	38			35	34	33	32	31	30
						28	27	26	25		23	22	21		19	18	17	16
						14	13	12	11	10	9	8		6	5	4	3	2
SALEABLE	NOT APPLICABLE	34576-7523	9	G	BLUE													
											37	36						
										24				20				
													7					
SALEABLE	NOT APPLICABLE	34576-7533	9	G	BLUE	56		54	53	52			49	48	47	46	45	43
							41	40	39	38				34	33	32	31	30
						28	27	26	25	24	23			20	19	18		16
							13	12	11	10	9	8					3	2
SALEABLE	NOT APPLICABLE	34576-7543	9	G	BLUE	56		54	53	52				48	47	46	45	43
							41	40	39	38				34	33	32	31	30
						28	27	26	25	24	23			20	19	18		16
							13	12	11	10	9	8					3	2

STATUS	GM PART #	HRNS CONN ASSY			TPA GROMMET CAP													
		MATERIAL/PART	WIRE DRESS OPTION	KEY OPTION ▽Fp	COLOR OPTION ▽Fp	NUMBERS INDICATE CAVITIES OPEN FOR CIRCUITS												
		NUMBER				▽Fp												
SALEABLE	NOT APPLICABLE	34576-7553	0	A	BLACK	48		46		44	43			40	39	38		35
						34	33	32	31		29			26	25	24	23	21
						49						8	7				3	1
SALEABLE	NOT APPLICABLE	34576-7563	0	C	BLUE	48	47	46	45	44			41	40	39	38	37	36
						34	33	32		30						24	23	21
						49						18	17	16	15	14	13	12
										10	9	8	7	6	5		3	2
SALEABLE	NOT APPLICABLE	34576-7573	0	G	BLUE					52	51	50					45	43
													35	34	33	32		
						28	27	26								18		15
						14	13	12					7	6			3	1
SALEABLE	NOT APPLICABLE	34576-7583	0	G	BLUE					52	51	50					45	43
																32		
						28	27	26								18		15
						14	13	12					7	6			3	1
SALEABLE	NOT APPLICABLE	34576-7593	0	G	BLUE					52	51	50					45	43
													35	34	33	32		
						28	27	26								18		15
						14	13	12					7	6		4	3	1
SALEABLE	NOT APPLICABLE	34576-7603	0	G	BLUE	56	55			52	51	50					45	44
						42	41				37	36	35	34	33	32		30
						28	27	26		24		22		20	19			16
						14	13	12		10		8	7	6				1
SALEABLE	NOT APPLICABLE	34576-7613	9	C	BLUE	48	47		45	44			41	40	39	38	37	36
						34	33	32		30						24	23	21
						49						18	17	16	15	14	13	12
										10	9	8	7	6	5		3	2
SALEABLE	NOT APPLICABLE	34576-7623	9	A	BLACK	48		46		44	43	42		40	39	38		35
						34	33	32	31		29	28		26	25	24	23	21
						49												11
												8	7				3	1
SALEABLE	NOT APPLICABLE	34576-7633	0	A	BLACK	48	47	46	45	44			41	40	39	38	37	36
						34	33	32		30						24	23	21
						49						18	17	16	15	14	13	12
										10	9	8	7	6	5		3	2

STATUS	GM PART #	HRNS CONN ASSY			TPA GROMMET CAP													
		MATERIAL/PART	WIRE DRESS OPTION	KEY OPTION Fp	COLOR OPTION Fp	NUMBERS INDICATE CAVITIES OPEN FOR CIRCUITS Fp												
		NUMBER																
SALEABLE	NOT APPLICABLE	34576-7643	0	G	BLUE	42	41										30	29
						28		26			23			20			17	15
						14					9							1
						48	47	46	45					40		38	37	36
SALEABLE	NOT APPLICABLE	34576-7653	0	C	BLUE	34		32	31		29				25	24	23	22
						49				20	19	18	17	16				12
										10	9				5			2
																		1
SALEABLE	NOT APPLICABLE	34576-7663	9	A	BLACK	48	47	46	45					40		38	37	36
						34		32	31		29				25	24	23	22
						49				20	19	18	17	16				12
										10	9				5			2
SALEABLE	NOT APPLICABLE	34576-7673	0	C	BLUE	48	47	46	45	44			41	40	39	38	37	36
						34	33	32		30		28	27			24	23	21
						49						18	17		15	14	13	12
										10	9	8	7	6	5		3	2
SALEABLE	NOT APPLICABLE	34576-7683	0	A	BLACK	48		46		44	43	42			39	38		35
						34		32	31		29	28			25	24	23	21
						49				20	19					14		11
										10	9	8	7				3	1
SALEABLE	NOT APPLICABLE	34576-7693	0	G	BLUE					52	51	50				46	45	43
																32		
						28	27	26								18		15
						14	13	12					7	6			3	1
SALEABLE	NOT APPLICABLE	34576-7703	0	G	BLUE					52	51	50				46	45	43
													35	34	33	32		
						28	27	26								18		15
						14	13	12					7	6			3	1
SALEABLE	NOT APPLICABLE	34576-7713	0	G	BLUE					52	51	50				46	45	43
													35	34	33	32		
						28	27	26								18		15
						14	13	12					7	6		4	3	1
SALEABLE	NOT APPLICABLE	34576-7723	9	C	BLUE	48	47	46	45	44			41	40	39	38	37	36
						34	33	32		30						24	23	21
						49						18	17	16	15	14	13	12
										10	9	8	7	6	5		3	2

STATUS	GM PART #	HRNS CONN ASSY			TPA GROMMET CAP													
		MATERIAL/PART	WIRE DRESS OPTION	KEY OPTION ▽Fp	COLOR OPTION ▽Fp	NUMBERS INDICATE CAVITIES OPEN FOR CIRCUITS												
		NUMBER				▽Fp												
SALEABLE	NOT APPLICABLE	34576-7733	0	A	BLACK					44	43	42	41		39			35
							33			30		28	27	26		15	14	13
						49						18				15	14	13
												8	7	6			4	3
SALEABLE	NOT APPLICABLE	34576-7743	0	C	BLUE						43							
									31		29			26	25			22
						49				20	19							
																4		2
SALEABLE	NOT APPLICABLE	34576-7753	0	G	BLUE					52	51	50				46	45	
															33			
						28	27						21			18	17	
						14	13										3	
SALEABLE	NOT APPLICABLE	34576-7763	9	A	BLACK					44	43	42	41		39			35
							33			30		28	27	26				21
						49						18	17			14	13	11
												8	7	6		4	3	
SALEABLE	NOT APPLICABLE	34576-7773	9	A	BLACK	48	47	46	45	44	43			40		38	37	36
						34		32	31		29	28	27		25	24	23	22
						49				20	19			16	15			12
										10	9				5			2
SALEABLE	NOT APPLICABLE	34851-0031	9	H	ST. GRAY	18						16	15		1			
												13	12					
												9	8	7	6			
												5						
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STATUS	GM PART #	HRNS CONN ASSY			TPA GROMMET CAP													
		MATERIAL/PART	WIRE DRESS OPTION	KEY OPTION ▽Fp	COLOR OPTION ▽Fp	NUMBERS INDICATE CAVITIES OPEN FOR CIRCUITS												
		NUMBER				▽Fp												
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SALEABLE	NOT APPLICABLE	34576-7823	0	A	BLACK	48	47	46	45					40		38	37	36
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						49				20	19		17	16				12
SALEABLE	NOT APPLICABLE	34576-7833	0	C	BLUE	48	47		45	44			41	40	39	38	37	36
						34		32		30		28				24		21
						49					9		7	6	5		3	1
SALEABLE	NOT APPLICABLE	34576-7843	9	A	BLACK	48	47	46	45	44	43			40		38	37	36
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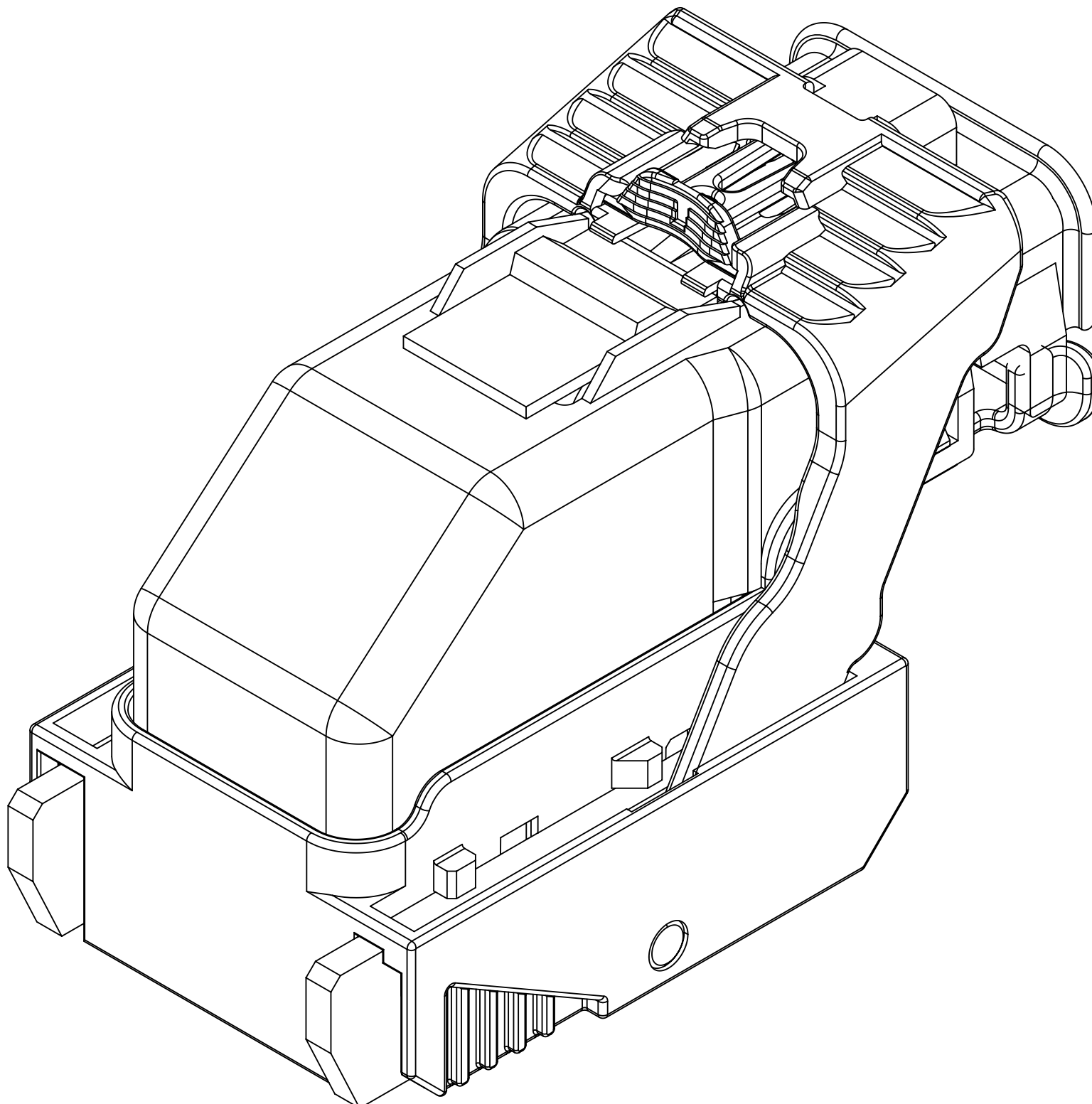
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		NUMBER																		
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										10	9		7	6						1
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										10		8	7	6	5					

STATUS	GM PART #	HRNS CONN ASSY			TPA GROMMET CAP															
		MATERIAL/PART	WIRE DRESS OPTION	KEY OPTION ▽ Fp	COLOR OPTION ▽ Fp	NUMBERS INDICATE CAVITIES OPEN FOR CIRCUITS ▽ Fp														
		NUMBER																		
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						49				20		18	17	16		14	13	12		
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STATUS	GM PART #	HRNS CONN ASSY			TPA GROMMET CAP															
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SALEABLE	NOT APPLICABLE	34576-9143	9	C	BLUE		47		45	44				40	39	38	37	36		
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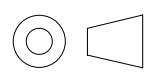
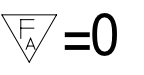
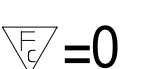
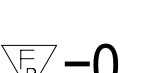
STATUS	GM PART #	HRNS CONN ASSY			TPA GROMMET CAP													
		MATERIAL/PART	WIRE DRESS OPTION	KEY OPTION Fp	COLOR OPTION Fp	NUMBERS INDICATE CAVITIES OPEN FOR CIRCUITS Fp												
		NUMBER																
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						49						18	17	16	15			
												8	7	6	5			

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MX123 HARNESS CONN - SEALED
18/49/56 CKTS

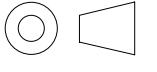
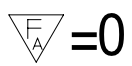
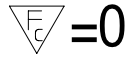
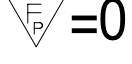
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A6	UPDATED TABLE IN SHEET 4: STATUS UPDATED IN ROWS 28 & 29 NEW ROWS ADDED - 47, 48 & 49

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		 =0  =0  =0		mm	INCH	DRAWN BY SKRAJENDRANA	DATE 2016/12/15	TITLE ICD - MX123 18/49/56CKT INTERFACE CONNECTION DRW MOLEX			
			4 PLACES	± ---	± ---	CHECKED BY	DATE				
			3 PLACES	± ---	± ---	VKOSHY	2016/12/15	APPROVED BY VKOSHY	DATE 2017/03/03		
			2 PLACES	± 0.13	± ---						
			1 PLACE	± 0.25	± ---	MATERIAL NO.	DOCUMENT NO. SD-34576-0001				SHEET NO. 1 OF 22
			0 PLACE	± ---	± ---						
		ANGULAR ± 1°			SEE BOM TABLE						
		DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS			SIZE D	THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION					

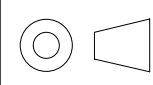
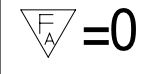
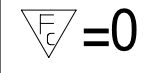
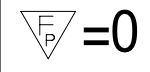
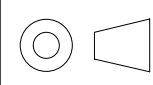
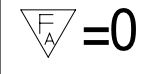
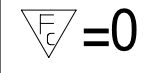
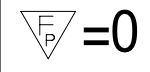
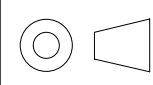
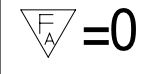
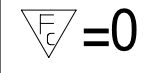
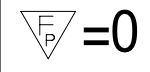
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Rev. G 2012/01/11

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M											KEY PRODUCT CHARACTERISTICS (IN ACCORDANCE WITH QN 1805 OR ON 1050)											M																		
L											▽ SAFETY/COMPLIANCE ◇ FIT/FUNCTION							TOTAL ON DRAWING	4	L																				
K																		LAST NO. USED	4	K																				
J											NO	TYPE	DESCRIPTION			RATIONALE			PAGE/ZONE	J																				
											1	F/F	32.68			IMPROVE CONNECTOR SYSTEM MATING			15																					
											2	F/F	29.00			INSURE PROPER RELEASE OF LEVER			15																					
											3	F/F	15.25			INSURE FINAL MATE POSITION			16																					
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H																						H																		
G																						G																		
F																						F																		
E																						E																		
D																						D																		
C																						C																		
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ENTER DESCRIPTION EC NO: UAU2017-0870 DRWN: ACHITALIA 2017/03/27 CHKD: A6 APPR: VKOSHY 2017/03/29	REV	DESCRIPTION	QUALITY SYMBOLS	GENERAL TOLERANCES (UNLESS SPECIFIED)			DIMENSION STYLE MM ONLY		SCALE 1:1	DESIGN UNITS METRIC	 THIRD ANGLE PROJECTION
			 =0  =0  =0			mm	INCH	DRAWN BY SKRAJENDRANA	DATE 2016/12/15	TITLE ICD - MX123 18/49/56CKT INTERFACE CONNECTION DRW MOLEX	
				4 PLACES	± ---	± ---	CHECKED BY VKOSHY	DATE 2016/12/15			
				3 PLACES	± ---	± ---	APPROVED BY VKOSHY	DATE 2017/03/03			
				2 PLACES	± 0.13	± ---	MATERIAL NO.	DOCUMENT NO. SD-34576-0001			
				1 PLACE	± 0.25	± ---	SEE BOM TABLE	SHEET NO. 3 OF 22			
			0 PLACE	± ---	± ---						
			ANGULAR ± 1°				THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION				
			DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS								

[illegible]

20	19	18	17	16	15	14	13	12	11	10	9	8	7	6	5	4	3	2	1																																						
NOTES: UNLESS OTHERWISE SPECIFIED 1. MATERIAL FOR INTERFACE: A. RESIN: 1. 30% G.F. PBT; 20% MAX. (BY WEIGHT) REGRIND. 2. MATING CONNECTOR INTERFACE PART COLOR MUST BE SAME AS MATCHING KEYED HARNESS CONNECTOR ASSEMBLY. 3. MUST BE VALIDATED FOR INDIVIDUAL DEVICE APPLICATION REQUIREMENTS. B. 0.64MM PINS: 1. BASE MATERIAL: COPPER ALLOY; CONDUCTIVITY >= 28% IACS AT 20°C; TENSILE STRENGTH >= 635 N/mm²; SURFACE ROUGHNESS R_a 0.6 MAX. 2. PLATING FINISH: SILVER (Ag). PLATING TO BE 1.9-3.3 um ELECTRODEPOSITED SEMI-BRIGHT SILVER OVER 1.25-2.25 um DUCTILE SULPHAMATE NICKEL PER NOTE 1(D). 3. ANTI-TARNISH: SYNTHETIC HYDROCARBON CONTACT SURFACE FINISH OR EQUIVALENT APPLIED WITHOUT VOID TO CONTACT AREA (MIN 3.7mm FROM PIN TIP). C. 2.8MM BLADE: 1. BASE MATERIAL: COPPER ALLOY; CONDUCTIVITY>= 28% IACS AT 20°C; TENSILE STRENGTH >= 350 N/mm²; SURFACE ROUGHNESS R_a 0.6 MAX. 2. PLATING FINISH: TIN. 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SHALL BE NODULE FREE WHEN VIEWED AT 10X MAGNIFICATION IN MEASURED IN CONTACT SURFACE AREA PLUS 0.5MM PERIMETER AROUND THE CONTACT SURFACE AREA. d. ALL PLATINGS SHALL HAVE A 1.0% MAXIMUM BY WEIGHT IMPURITIES. IMPURITIES ARE DEFINED AS ALL ELEMENTS NOT THE PRIMARY PLATING OR HARDENING AGENT IF APPLICABLE, AS DETERMINED BY WET CHEMICAL ANALYSIS OR AUGER METHOD. NO SINGLE IMPURITY SHALL EXCEED 0.1% MAXIMUM BY WEIGHT. 3. TESTING a. THICKNESS TO BE MEASURED IN CONTACT SURFACE AREA PLUS 0.5MM PERIMETER AROUND THE CONTACT SURFACE AREA AS DESIGNATED IN THE DRAWING. THICKNESS SHALL BE DETERMINED BY METHOD OF X-RAY (XRF). b. PLATING ADHESION SHALL BE TESTED BY A BEND TEST FOR ALL METALS. THE TEST SAMPLE SHALL BE BENT 90 DEGREES TO DETERMINE DEPOSIT ADHESION. TESTING SHALL BE COMPLETED IN ACCORDANCE WITH ASTM SPEC B571. 2. DESIGN - GENERAL: A. THIS IS A 100% CAD GENERATED PART. THE CAD MATHEMATICAL DATA IS THE MASTER FOR THIS PART. 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THIS INCLUDES MATERIAL CODE, RECYCLING CODE, CAVITY ID AND DATE CODE. K-1. PARTS MUST BE FREE OF DISCOLORATION, SALT RESIDUE AND OTHER IMPERFECTIONS THAT AFFECT FIT OR FUNCTION. K-2. SCRATCHES OR DENTS NOT TO EXCEED 0.013mm IN DEPTH. L. FOLLOWING PRODUCTION CODES TO BE PERMANENTLY MARKED & HUMAN READABLE TO A LETTER HEIGHT OF 1.5 ±0.5MM X 0.3 MAX DEEP 1. MATERIAL #: XXXXX-XXXX 2. DATE CODE: JJJY (JULIAN DAY, LAST DIGIT OF YEAR) 3. INSPECTION MACHINE CODE + SERIAL #: X_XXXXX 3. DESIGN - MANUFACTURING: A. DRAFT TO BE WITHIN TOLERANCE. B. ALLOWABLE FLASH MAX 0.2 HIGH X MAX 0.13 THICK. C. ALLOWABLE PARTING LINE MISMATCH 0.2 MAX. D. EJECTOR PINS MARK TO BE FLUSH TO 0.25 MAX DEPRESSED. E. ALLOWABLE GATE VESTIGE FLUSH TO 0.25 MAX PROTRUSION. F. NO EXTERNAL MOLD RELEASE AGENT ALLOWED DURING MANUFACTURING. G. STEEL THAT FORMS THE INDICATED SURFACE MUST BE POLISHED WITH A DIAMOND FINISH (SPI A-2) OVER THE FULL PERIPHERY OF THE TOOL. SURFACE MUST HAVE NO MISMATCH. H. 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RESTRICTED AND REPORTABLE SUBSTANCES FOR PARTS PER GMW3059. <table><tr><td rowspan="5">ENTER DESCRIPTION EC NO: UAU2017-0870 DRWN: ACHITALIA 2017/03/27 CHKD: 2017/03/29 APPR: VKOSHY</td><td rowspan="5">DESCRIPTION REV</td><td>QUALITY SYMBOLS</td><td colspan="2">GENERAL TOLERANCES (UNLESS SPECIFIED)</td><td colspan="2">DIMENSION STYLE MM ONLY</td><td>SCALE 1:1</td><td>DESIGN UNITS METRIC</td><td> THIRD ANGLE PROJECTION</td></tr><tr><td rowspan="4">=0 =0 =0</td><td></td><td></td><td>DRAWN BY SKRAJENDRANA</td><td>DATE 2016/12/15</td><td rowspan="2">TITLE ICD - MX123 18/49/56CKT INTERFACE CONNECTION DRW MOLEX</td></tr><tr><td></td><td></td><td>CHECKED BY VKOSHY</td><td>DATE 2016/12/15</td></tr><tr><td></td><td></td><td>APPROVED BY VKOSHY</td><td>DATE 2017/03/03</td><td rowspan="2">DOCUMENT NO. SD-34576-0001</td><td rowspan="2">SHEET NO. 5 OF 22</td></tr><tr><td colspan="2">ANGULAR ± 1°</td><td>SIZE D</td><td colspan="2">THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION</td></tr><tr><td colspan="2">DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS</td><td colspan="5"></td></tr></table> tb_frame_D_P_AM_T Rev. G 2012/07/11																				ENTER DESCRIPTION EC NO: UAU2017-0870 DRWN: ACHITALIA 2017/03/27 CHKD: 2017/03/29 APPR: VKOSHY	DESCRIPTION REV	QUALITY SYMBOLS	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE MM ONLY		SCALE 1:1	DESIGN UNITS METRIC	 THIRD ANGLE PROJECTION	 =0  =0  =0			DRAWN BY SKRAJENDRANA	DATE 2016/12/15	TITLE ICD - MX123 18/49/56CKT INTERFACE CONNECTION DRW MOLEX			CHECKED BY VKOSHY	DATE 2016/12/15			APPROVED BY VKOSHY	DATE 2017/03/03	DOCUMENT NO. 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NOTES: UNLESS OTHERWISE SPECIFIED

1. MATERIAL FOR INTERFACE:

- A. RESIN:
- 1. 30% G.F. PBT; 20% MAX. (BY WEIGHT) REGRIND.
 - 2. MATING CONNECTOR INTERFACE PART COLOR MUST BE SAME AS MATCHING KEYED HARNESS CONNECTOR ASSEMBLY.
 - 3. MUST BE VALIDATED FOR INDIVIDUAL DEVICE APPLICATION REQUIREMENTS.

- B. 0.64MM PINS:
- 1. BASE MATERIAL: COPPER ALLOY; CONDUCTIVITY >= 28% IACS AT 20°C; TENSILE STRENGTH >= 635 N/mm² ;SURFACE ROUGHNESS R 0.6 MAX.
 - 2. PLATING FINISH: SILVER (Ag). PLATING TO BE 1.9-3.3 um ELECTRODEPOSITED SEMI-BRIGHT SILVER OVER 1.25-2.25 um DUCTILE SULPHAMATE NICKEL PER NOTE 1(D).
 - 3. ANTI-TARNISH: SYNTHETIC HYDROCARBON CONTACT SURFACE FINISH OR EQUIVALENT APPLIED WITHOUT VOID TO CONTACT AREA (MIN 3.7mm FROM PIN TIP).

- C. 2.8MM BLADE:
- 1. BASE MATERIAL: COPPER ALLOY; CONDUCTIVITY>= 28% IACS AT 20°C; TENSILE STRENGTH >= 350 N/mm² ; SURFACE ROUGHNESS R 0.6 MAX.
 - 2. PLATING FINISH: TIN. PLATING TO BE 2.5-5.0 um ELECTRODEPOSITED TIN, MATTE FINISH OVER 1.25-2.5um DUCTILE SULPHAMATE NICKEL PER NOTE 1(D).

- D. 6.3MM BLADE:
- 1. BASE MATERIAL: COPPER ALLOY; CONDUCTIVITY>= 50% IACS AT 20°C;
 - 2. PLATING FINISH: SILVER (Ag) PLATING TO BE 1.9-3.3 um ELECTRODEPOSITED SEMI-BRIGHT SILVER, OVER 1.25-2.5um DUCTILE SULPHAMATE NICKEL PER NOTE 1(D) WITH ENVIRONMENTAL BARRIER OR TIN/SILVER (ELECTRO-DEPOSITED), UNDERPLATE 0.5-2.0 um NICKEL OR COPPER. TOP PLATING: 1.0-3.0 um (SILVER RANGE 3.75-X.XX NO ANTI-TARNISH COATING REQUIRED).

- E. PLATING REQUIREMENTS:
- 1. SILVER PLATING
 - a. 99.5% PURE SEMI-BRIGHT WITH NO ORGANIC BRIGHTNERS OR CHROMATES.
 - 2. NICKEL PLATING
 - a. ELECTRODEPOSITED DUCTILE SULFAMATE NICKEL WITH A NON-BRIGHTENED FINISH. NO ORGANIC OR BRIGHTENING AGENTS SHALL BE ALLOWED.
 - b. SHALL ONLY BE USED AS AN UNDERLYING PLATING AND MAY NOT BE USED AS AN ELECTRICAL CONTACT SURFACE PLATING.
 - c. SHALL BE NODULE FREE WHEN VIEWED AT 10X MAGNIFICATION IN MEASURED IN CONTACT SURFACE AREA PLUS 0.5MM PERIMETER AROUND THE CONTACT SURFACE AREA.
 - d. ALL PLATINGS SHALL HAVE A 1.0% MAXIMUM BY WEIGHT IMPURITIES. IMPURITIES ARE DEFINED AS ALL ELEMENTS NOT THE PRIMARY PLATING OR HARDENING AGENT IF APPLICABLE, AS DETERMINED BY WET CHEMICAL ANALYSIS OR AUGER METHOD. NO SINGLE IMPURITY SHALL EXCEED 0.1% MAXIMUM BY WEIGHT.
 - 3. TESTING
 - a. THICKNESS TO BE MEASURED IN CONTACT SURFACE AREA PLUS 0.5MM PERIMETER AROUND THE CONTACT SURFACE AREA AS DESIGNATED IN THE DRAWING. THICKNESS SHALL BE DETERMINED BY METHOD OF X-RAY (XRF).
 - b. PLATING ADHESION SHALL BE TESTED BY A BEND TEST FOR ALL METALS. THE TEST SAMPLE SHALL BE BENT 90 DEGREES TO DETERMINE DEPOSIT ADHESION. TESTING SHALL BE COMPLETED IN ACCORDANCE WITH ASTM SPEC B571.

2. DESIGN - GENERAL:

- A. THIS IS A 100% CAD GENERATED PART. THE CAD MATHEMATICAL DATA IS THE MASTER FOR THIS PART. WHERE DIMENSIONS ARE SPECIFIED ON THE DRAWING, THE DRAWING IS THE AUTHORITY FOR DIMENSIONAL VALUES. FOR DIMENSIONAL OR ANY INFORMATION NOT SHOWN ON THIS DRAWING, ANALYZE THE CAD MODEL.
- B. DIMENSIONS OBTAINED FROM THE DIGITAL MODEL ARE BASIC:
- 1. FOR RELATIONSHIPS BETWEEN FEATURES WHEN ESTABLISHED BY GEOMETRIC TOLERANCES.
 - 2. FOR THE FORM OF A FEATURE WHEN CONTROLLED BY A PROFILE TOLERANCE.
 - 3. FOR THE SIZE, FORM AND/OR RELATIONSHIP BETWEEN FIXED DATUM TARGETS.
- C. DIMENSIONS OBTAINED FROM THE DIGITAL MODEL ARE ROUNDED TO TWO DECIMAL PLACES (PER IEEE/ASTM SI 10-2002)
- D. VIEWS AND SECTIONS ON THIS DRAWING ARE IN ACCORDANCE WITH GM DCS SECTION C3.
- E. THE DIGITAL MODEL MUST CORRESPOND TO THE RELEASE LEVEL SHOWN IN THE PART BLOCK ON THIS DOCUMENT.
- F. TOLERANCES:
- 1. LINEAR 0.X ± 0.30
 - 0.XX ± 0.10
 - 0.XXX ± 0.10
 - 2. ANGULAR X° ± 3°
 - 3.

	1.0	A	B	C
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- G. MINIMUM WALL THICKNESS REQUIRED: 1.3mm.
- H. CORNERS SHOWN AS SHARP TO BE R 0.2 MAX.
- J. LETTERING SHALL BE 0.15 MAX RAISED IN 0.20 MAX RECESS PAD. THIS INCLUDES MATERIAL CODE, RECYCLING CODE, CAVITY ID AND DATE CODE.
- K-1. PARTS MUST BE FREE OF DISCOLORATION, SALT RESIDUE AND OTHER IMPERFECTIONS THAT AFFECT FIT OR FUNCTION.
- K-2. SCRATCHES OR DENTS NOT TO EXCEED 0.013mm IN DEPTH.
- L. FOLLOWING PRODUCTION CODES TO BE PERMANENTLY MARKED & HUMAN READABLE TO A LETTER HEIGHT OF 1.5 ±0.5MM X 0.3 MAX DEEP
- 1. MATERIAL #: XXXXX-XXXX
 - 2. DATE CODE: JJYY (JULIAN DAY, LAST DIGIT OF YEAR)
 - 3. INSPECTION MACHINE CODE + SERIAL #: X_XXXXX

3. DESIGN - MANUFACTURING:

- A. DRAFT TO BE WITHIN TOLERANCE.
- B. ALLOWABLE FLASH MAX 0.2 HIGH X MAX 0.13 THICK.
- C. ALLOWABLE PARTING LINE MISMATCH 0.2 MAX.
- D. EJECTOR PINS MARK TO BE FLUSH TO 0.25 MAX DEPRESSED.
- E. ALLOWABLE GATE VESTIGE FLUSH TO 0.25 MAX PROTRUSION.
- F. NO EXTERNAL MOLD RELEASE AGENT ALLOWED DURING MANUFACTURING.
- G. STEEL THAT FORMS THE INDICATED SURFACE MUST BE POLISHED WITH A DIAMOND FINISH (SPI A-2) OVER THE FULL PERIPHERY OF THE TOOL. SURFACE MUST HAVE NO MISMATCH.
- H. 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.
- J. OPTIONAL FEATURES PROVIDED FOR AUTOMATION.
- K. PART MUST BE FREE FROM BURRS AND SHARP EDGES, WHICH MIGHT BE DETRIMENTAL TO SATISFACTORY ASSEMBLY, SAFE HANDLING OR FUNCTION OF PART.
- L. PARTS AS DELIVERED TO ASSEMBLY SHALL BE CLEAN AND FREE OF DEBRIS, RESIDUAL ABRASIVE MATERIAL AND CORROSION PRODUCTS ADVERESLY AFFECTING FUNCTION OR APPEARENCE.
- M. RESTRICTED AND REPORTABLE SUBSTANCES FOR PARTS PER GMW3059.

ENTER DESCRIPTION EC NO: UAU2017-0870 DRWN: ACHITALIA 2017/03/27 CHKD: APPR: VKOSHY 2017/03/29 A6		DESCRIPTION REV	QUALITY SYMBOLS	GENERAL TOLERANCES (UNLESS SPECIFIED)			DIMENSION STYLE MM ONLY		SCALE 1:1	DESIGN UNITS METRIC		THIRD ANGLE PROJECTION		
			 =0		mm	INCH	DRAWN BY	DATE	TITLE ICD - MX123 18/49/56CKT INTERFACE CONNECTION DRW MOLEX					
				4 PLACES	± ---	± ---	SKRAJENDRANA	2016/12/15						
				3 PLACES	± ---	± ---	CHECKED BY	DATE						
				2 PLACES	± 0.13	± ---	VKOSHY	2016/12/15						
				1 PLACE	± 0.25	± ---	APPROVED BY	DATE						
			 =0	0 PLACE	± ---	± ---	VKOSHY	2017/03/03						
			ANGULAR ± 1°			MATERIAL NO.		DOCUMENT NO.						
			DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS			SEE BOM TABLE			SD-34576-0001					
			SIZE D	THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION										

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NOTES: UNLESS OTHERWISE SPECIFIED

4. SYSTEM REQUIREMENTS:

A. HARNESS CONNECTOR IS COMPATIBLE WITH THE FOLLOWING WIRE SIZE NO'S:

0.35mm2, MEETING GMW15626 - MIN OD OF 1.20MM

0.50mm2, MEETING GMW15626

0.75mm2, MEETING GMW15626 - MAX OD OF 2.06MM

B. CABLE TIE SPECIFICATIONS:

1. CABLE TIE:

TENSILE RATING: 220N / (50lbs) MIN

TIE LENGTH: 186mm MIN

TIE WIDTH: 4.75mm MAX

MATERIAL: NYLON

2. INSTALLATION:

CABLE TIE TENSION: 190N MIN

3. DRESSED WIRE BUNDLE PACKAGING: SEE FIG. 1

C. WHEN MATED WITH COMPONENT CONNECTOR INTERFACE AND/OR DRESS COVER, HARNESS CONNECTOR SYSTEM CONFORMS TO THE FOLLOWING:

1. SAE/USCAR-2, REV: 3 APRIL, 2001; CLASS 3

2. FIELD CORRELATED LIFE TEST, SAE/USCAR-20, NOV. 2001

3. GMW #3191 AUGUST 22, 2000 (DRAFT); TEMPERATURE CLASS 3 (145°C), SEALING CLASS 1 (HIGH PRESSURE SPRAY), VIBRATION CLASS 2 (ON BODY)

4. TPA USER FORCES (FULLY POPULATED WITH TERMINALS)

a. REMOVAL FROM LOCK TO PRE-SET: <=120N

D. WIRE SPECIFICATIONS:

1. WIRE SURFACE MUST BE FREE OF SCRATCHES, GROOVES OR DENTS WHERE FUNCTIONAL

5. TERMINAL CURRENT RATINGS:

A. MX64 RCPT TERM

ALL TESTING DONE IN ACCORDANCE WITH USCAR-2 REV5 SECTION 5.3

1. MX64 RCPT TERM Ag 0.50/0.75mm2 CRIMPED TO 0.75mm2 ISO WIRE AND MATED TO MX123 0.64MM PIN: SEE TABLE BELOW

2. MX64 RCPT TERM Ag 0.35mm2 CRIMPED TO 0.35mm2 ISO WIRE AND MATED TO MX123 0.64MM PIN: SEE TABLE BELOW

WIRE	CURRENT RATING			
	23 °C	85 °C	105 °C	125 °C
0.75mm2	11.3A	11.3A	9.5A	6.6A
0.50mm2	10.0A	10.0A	8.3A	5.7A
0.35mm2	8.5A	8.5A	7.1A	5.0A

B. 2.8MM RCPT TERM

ALL TESTING DONE IN ACCORDANCE WITH MOLEX DVP&R 0279 (TR# 7125)

1. 2.8MM RCPT TERM TIN 2.0mm2 CRIMPED TO 2.0mm2 ISO WIRE AND MATED TO MX123 2.8MM BLADE: 25.6 AMPS AT 125°C

C. 6.3MM RCPT TERM - DELPHI APEX

ALL TESTING DONE IN ACCORDANCE WITH USCAR-2 REV5 SECTION 5.3

1. 6.3MM RCPT TERM TIN/SILVER CRIMPED TO 6.0MM BLADE (Sn/Ag PLATED): 36A AT 125°C

6. CONTACT MOLEX AUTOMOTIVE FOR AVAILABLE CUSTOM PATTERNS OF CAVITIES OPEN FOR CIRCUITS - SEE GM DRAWING 13507495

ENTER DESCRIPTION

EC NO: UAU2017-0870

DRWN: ACHITALIA 2017/03/27

CHKD:

APPR: VKOSHY 2017/03/29

REV

QUALITY SYMBOLS

▽=0

▽=0

▽=0

GENERAL TOLERANCES (UNLESS SPECIFIED)

	mm	INCH
4 PLACES	± ---	± ---
3 PLACES	± ---	± ---
2 PLACES	± 0.13	± ---
1 PLACE	± 0.25	± ---
0 PLACE	± ---	± ---
ANGULAR		± 1°
DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		

DIMENSION STYLE MM ONLY

DRAWN BY	DATE
SKRAJENDRANA	2016/12/15
CHECKED BY	DATE
VKOSHY	2016/12/15
APPROVED BY	DATE
VKOSHY	2017/03/03

MATERIAL NO.

SEE BOM TABLE

SIZE D

THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION

SCALE 1:1

DESIGN UNITS METRIC

THIRD ANGLE PROJECTION

TITLE

ICD - MX123 18/49/56CKT
INTERFACE CONNECTION DRW
MOLEX

molex

DOCUMENT NO.

SD-34576-0001

SHEET NO.

6 OF 22

tb frame_D_P_AM.T

Rev. G 2012/07/11

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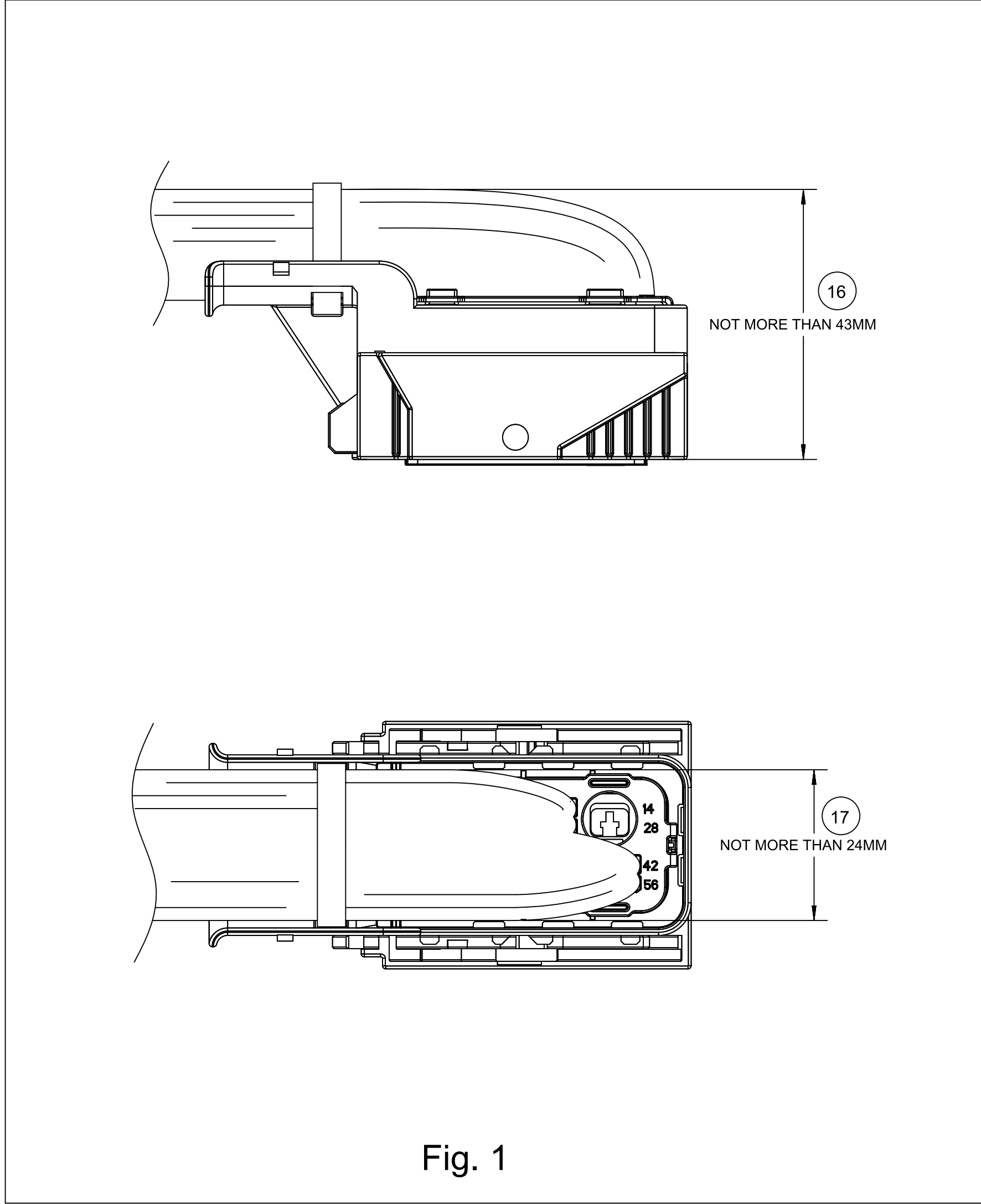
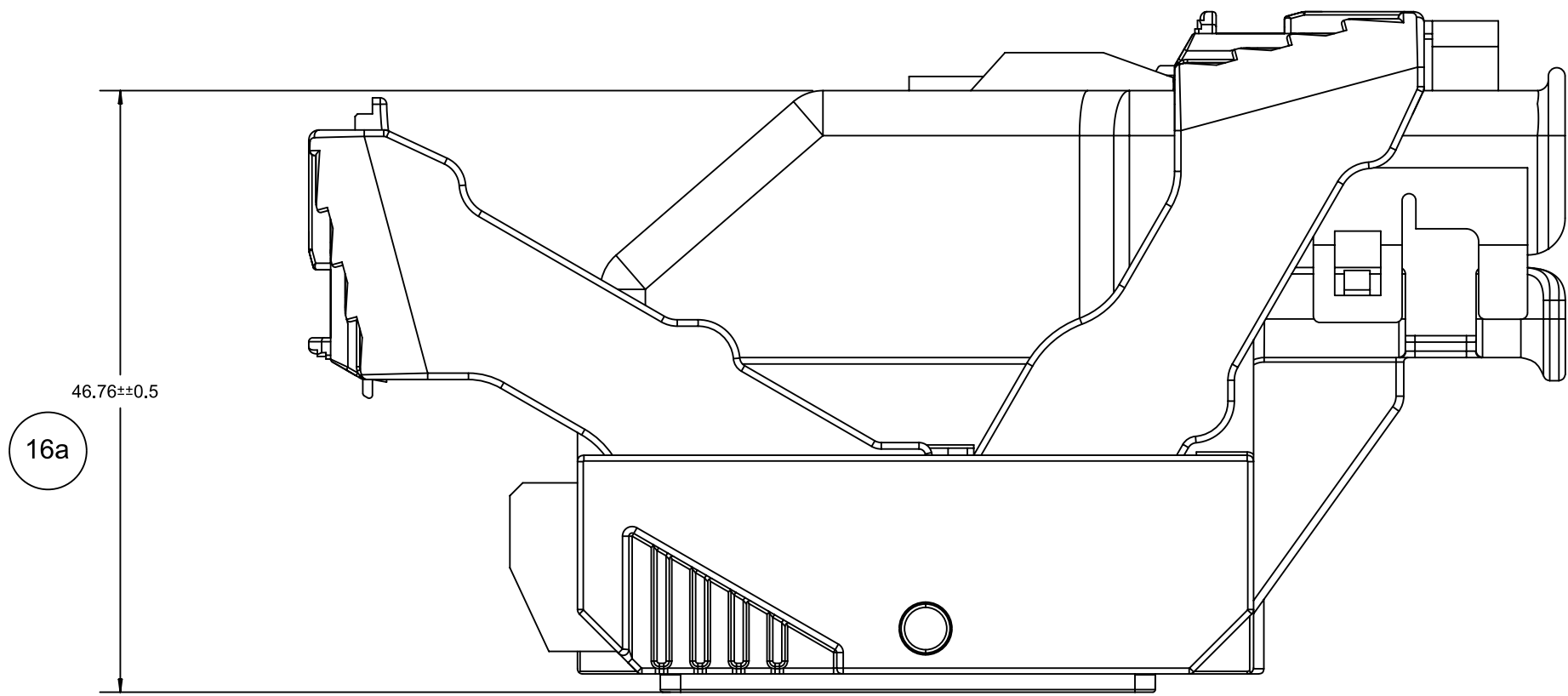
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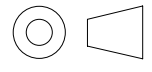
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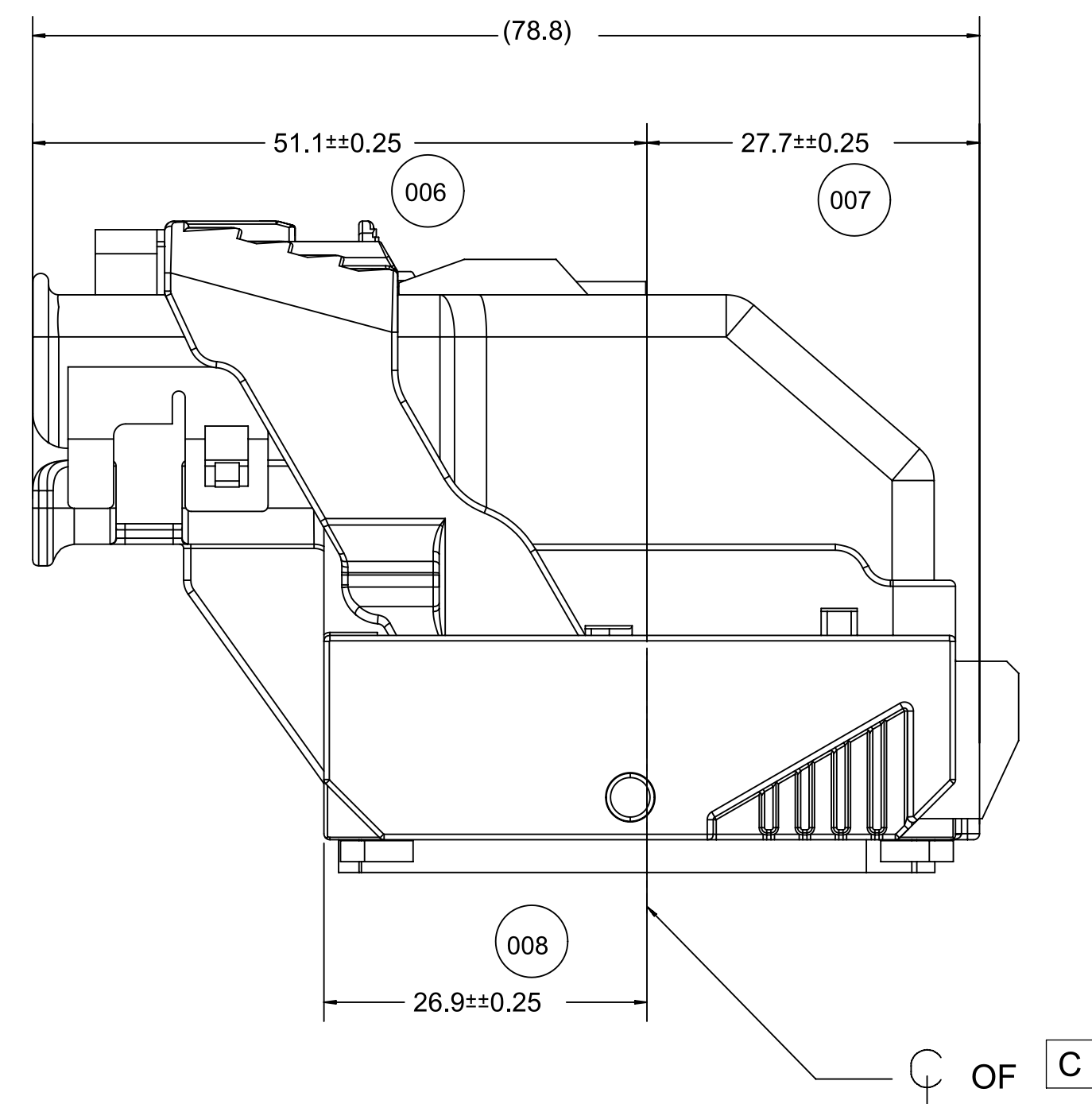
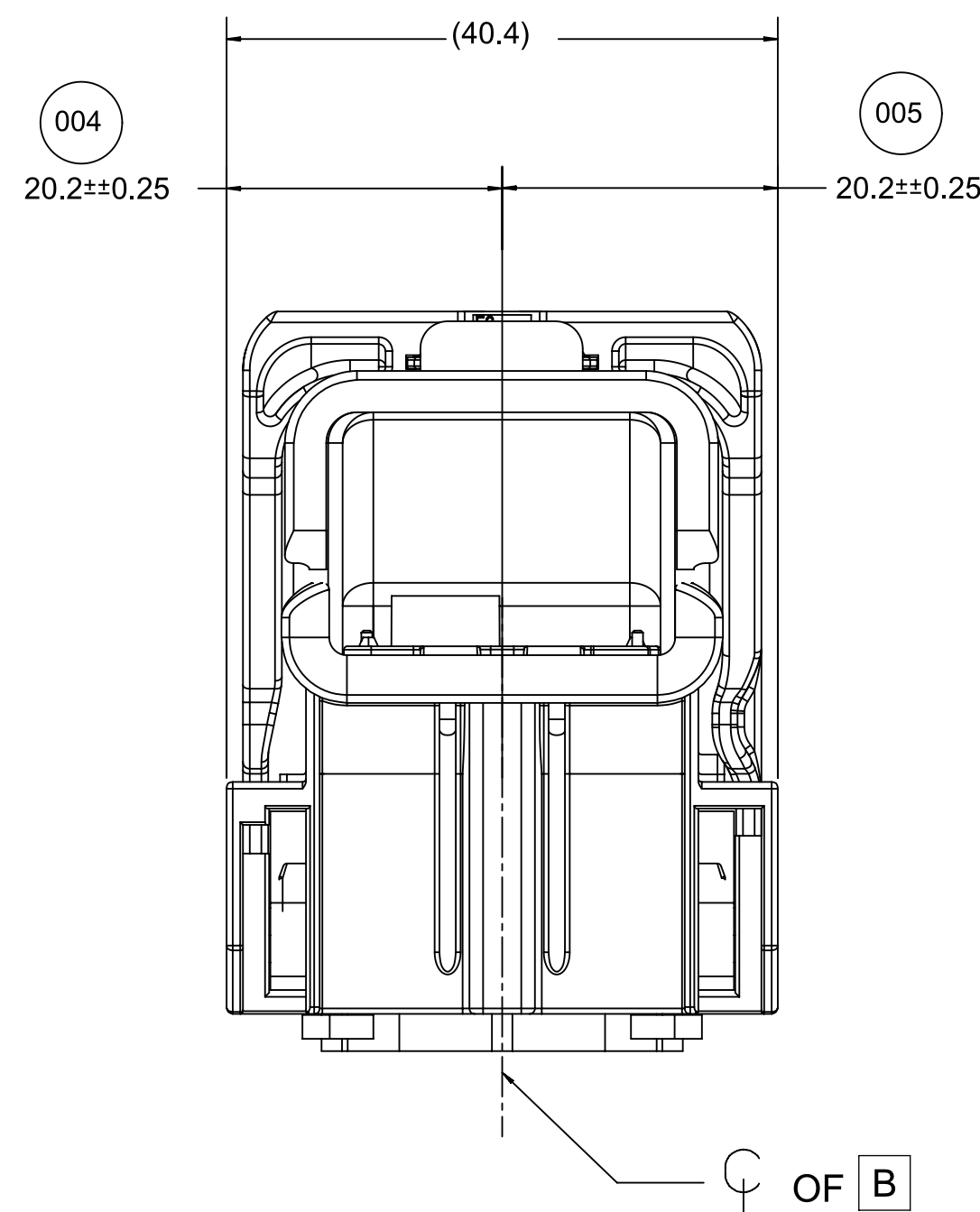
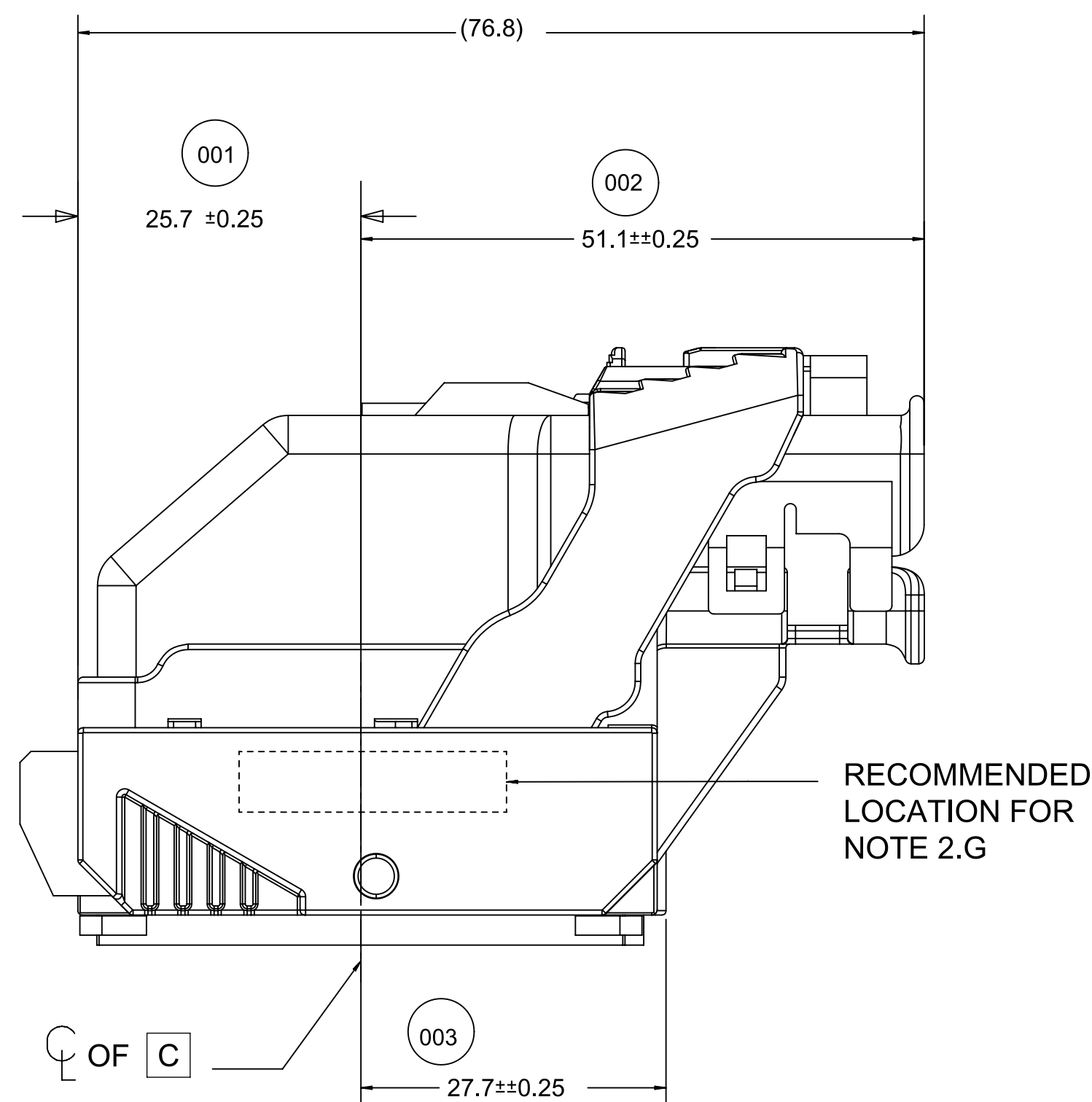
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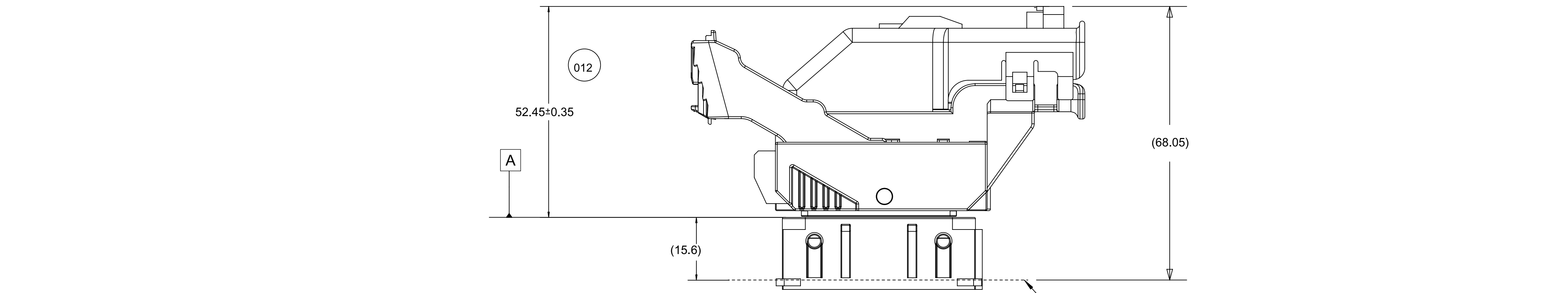
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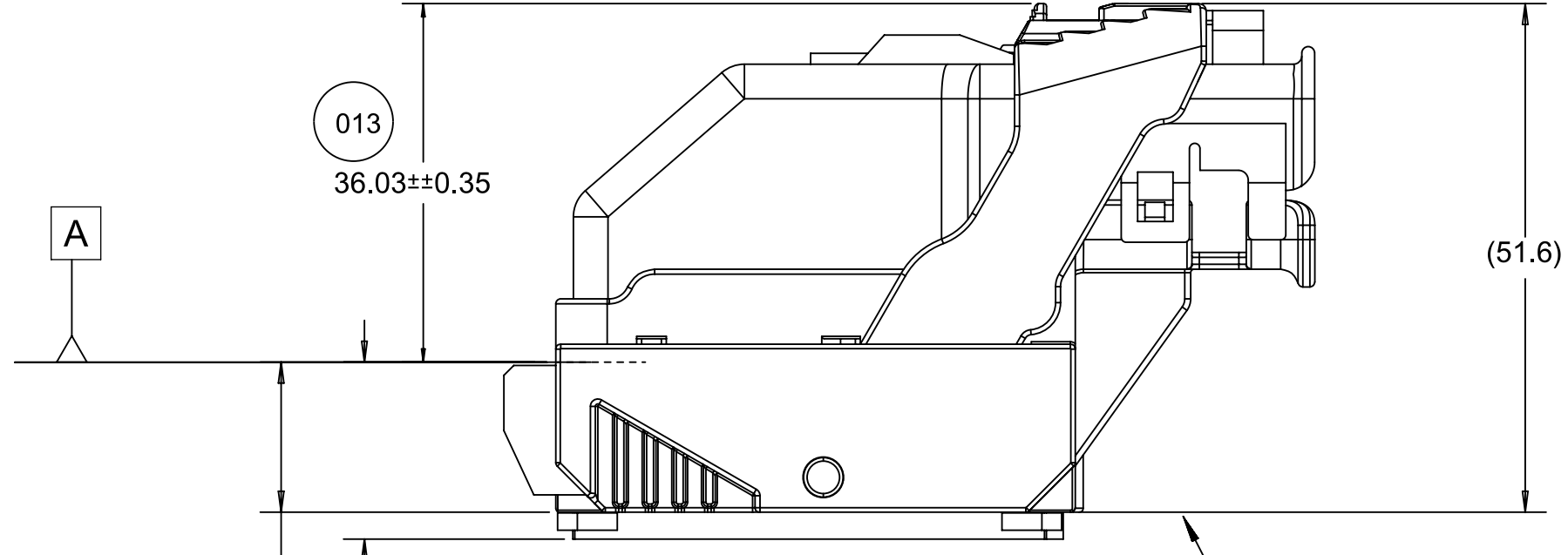
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			 =0	1 PLACE			± 0.25	± ---						
							0 PLACE	± ---	± ---					
ANGULAR ± 1°			MATERIAL NO.		DOCUMENT NO.			SHEET NO.						
DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS			SEE BOM TABLE		SD-34576-0001			7 OF 22						
			SIZE D	THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION										



ENTER DESCRIPTION EC NO: UAU017-0870 DRWN: ACHITALIA 20170327 CHKD: APPR: WKOSHY 20170329		DESCRIPTION	QUALITY SYMBOLS ▽E=0 ▽F=0 ▽G=0	GENERAL TOLERANCES (UNLESS SPECIFIED)			DIMENSION STYLE MM ONLY		SCALE 1:1	DESIGN UNITS METRIC	THIRD ANGLE PROJECTION	
						mm	INCH	DRAWN BY DATE SKRAJENDRANA 2016/12/15		TITLE ICD - MX123 18/49/56CKT INTERFACE CONNECTION DRW MOLEX		
								CHECKED BY DATE VKOSHY 2016/12/15				
								APPROVED BY DATE VKOSHY 2017/03/03				
REV			ANGULAR ± 1°			MATERIAL NO.		DOCUMENT NO.		SHEET NO.		
			DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS			SEE BOM TABLE		SD-34576-0001		8 OF 22		
THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION												

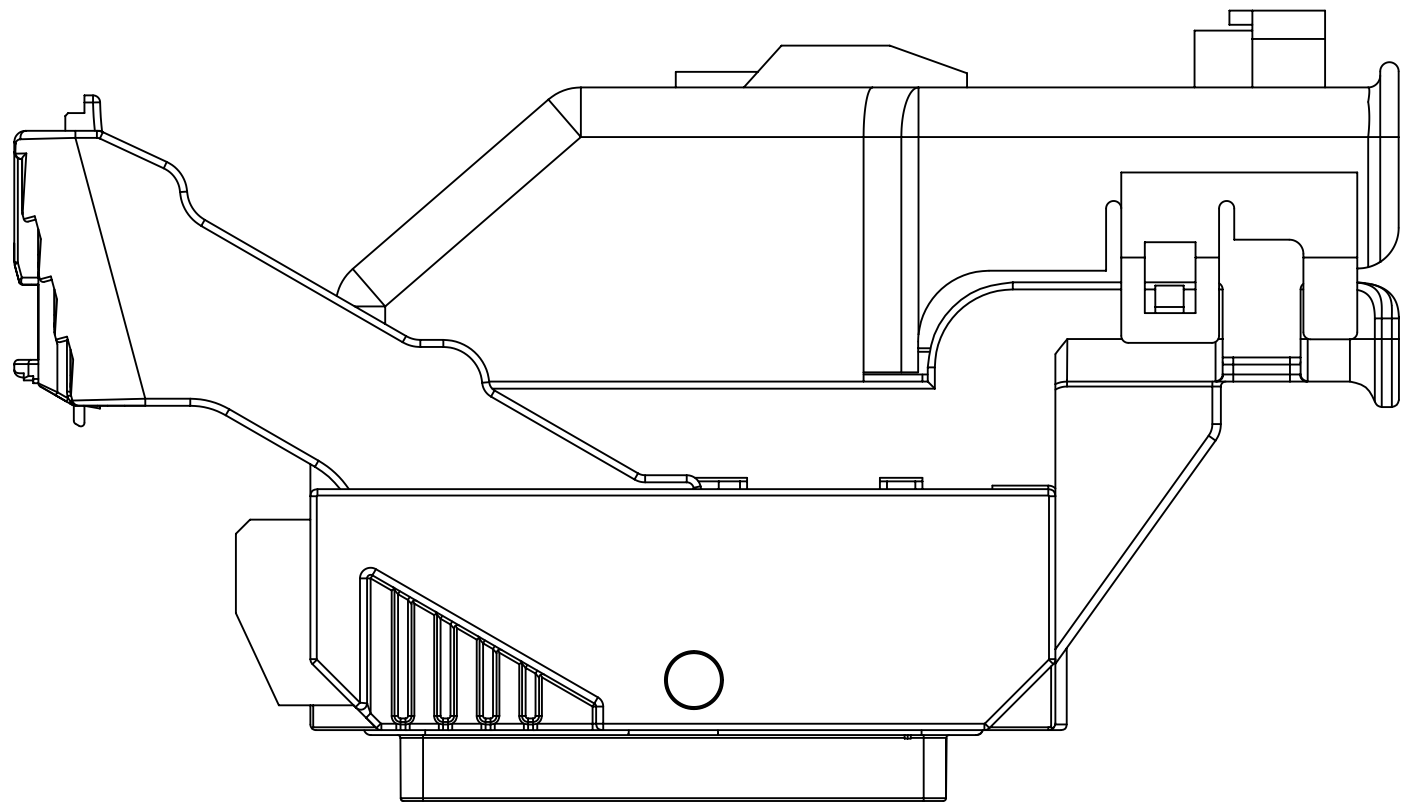


HARNESS CONNECTOR ASSEMBLY
IN PRE-LOCK POSITION



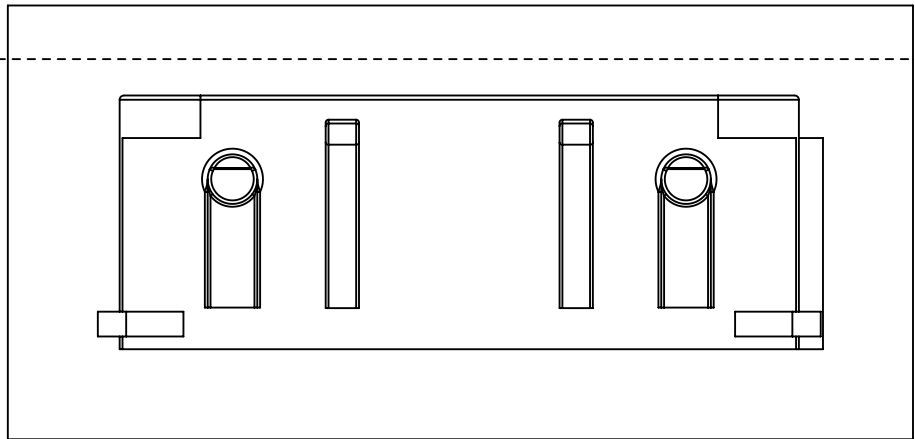
HARNESS CONNECTOR ASSEMBLY
IN FULLY-MATED POSITION

ENTER DESCRIPTION EC NO: UAU2017-0870 DRWN: ACHITALIA 2017/03/27 CHKD: VKOSHY APPR: VKOSHY 2017/03/29 REV	QUALITY SYMBOLS	GENERAL TOLERANCES (UNLESS SPECIFIED)			DIMENSION STYLE MM ONLY		SCALE 1:1	DESIGN UNITS METRIC		THIRD ANGLE PROJECTION		
		 =0 =0 =0		mm	INCH	DRAWN BY SKRAJENDRANA	DATE 2016/12/15	TITLE ICD - MX123 18/49/56CKT INTERFACE CONNECTION DRW MOLEX molex				
			4 PLACES	± ---	± ---	CHECKED BY VKOSHY	DATE 2016/12/15					
			3 PLACES	± ---	± ---	APPROVED BY VKOSHY	DATE 2017/03/03					
			2 PLACES	± 0.13	± ---							
			1 PLACE	± 0.25	± ---							
			0 PLACE	± ---	± ---	MATERIAL NO.		DOCUMENT NO.	SHEET NO.			
		ANGULAR ± 1°				SEE BOM TABLE		SD-34576-0001		9 OF 22		
		DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS				SIZE D	THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION					



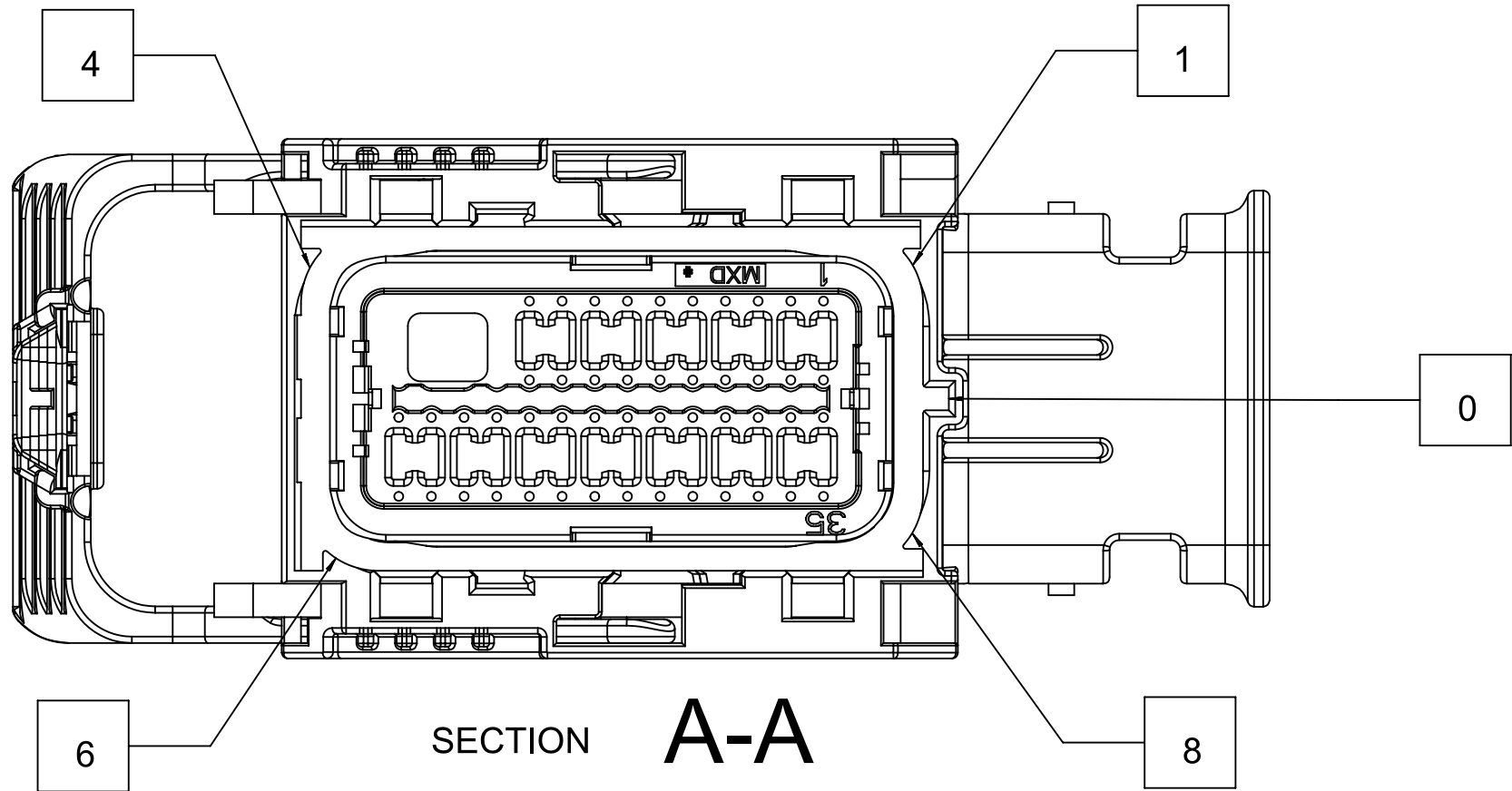
A

B



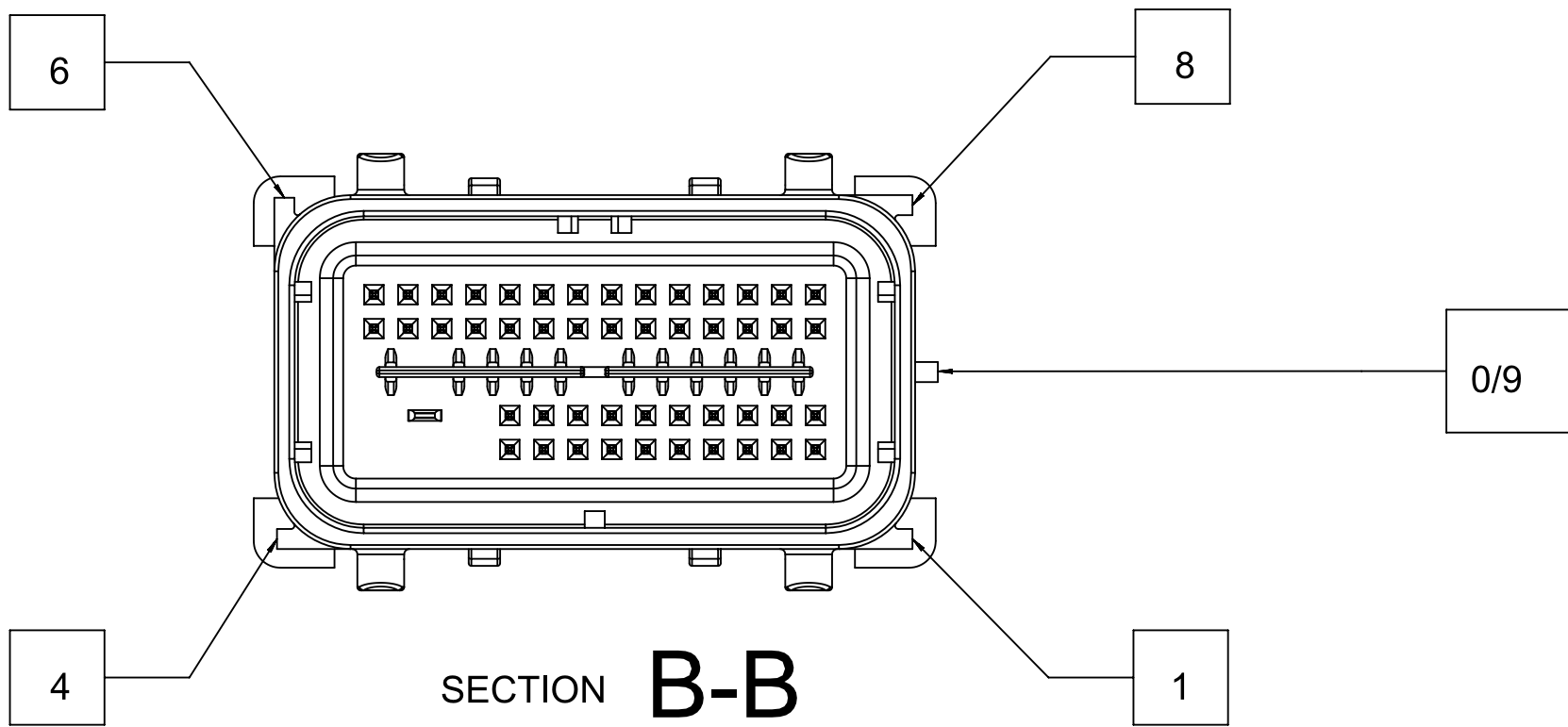
B

INTERFACE SIDE SHOWN IN ALL SECTION VIEWS



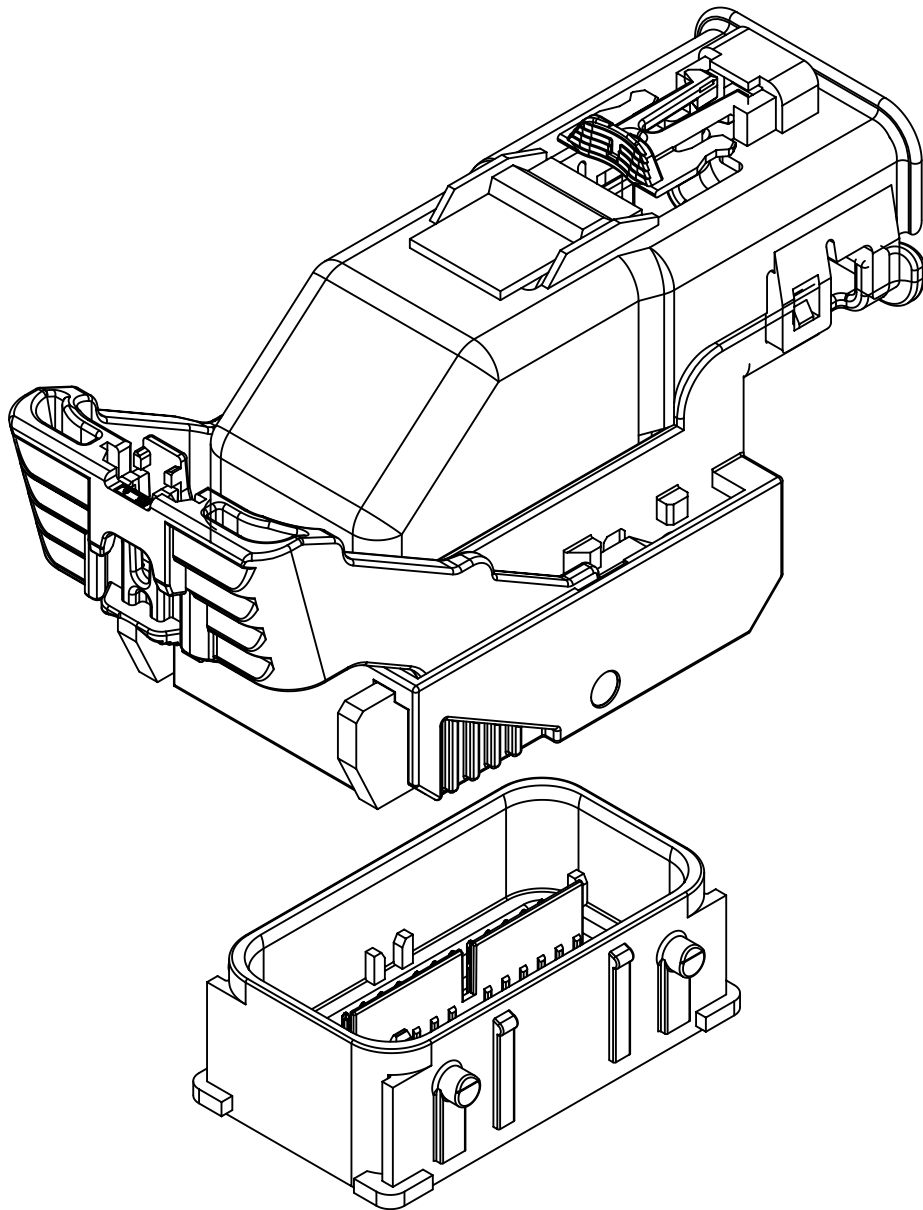
SECTION A-A

49 CKT HARNESS CONNECTOR ASSEMBLY
KEY OPTION B SHOWN

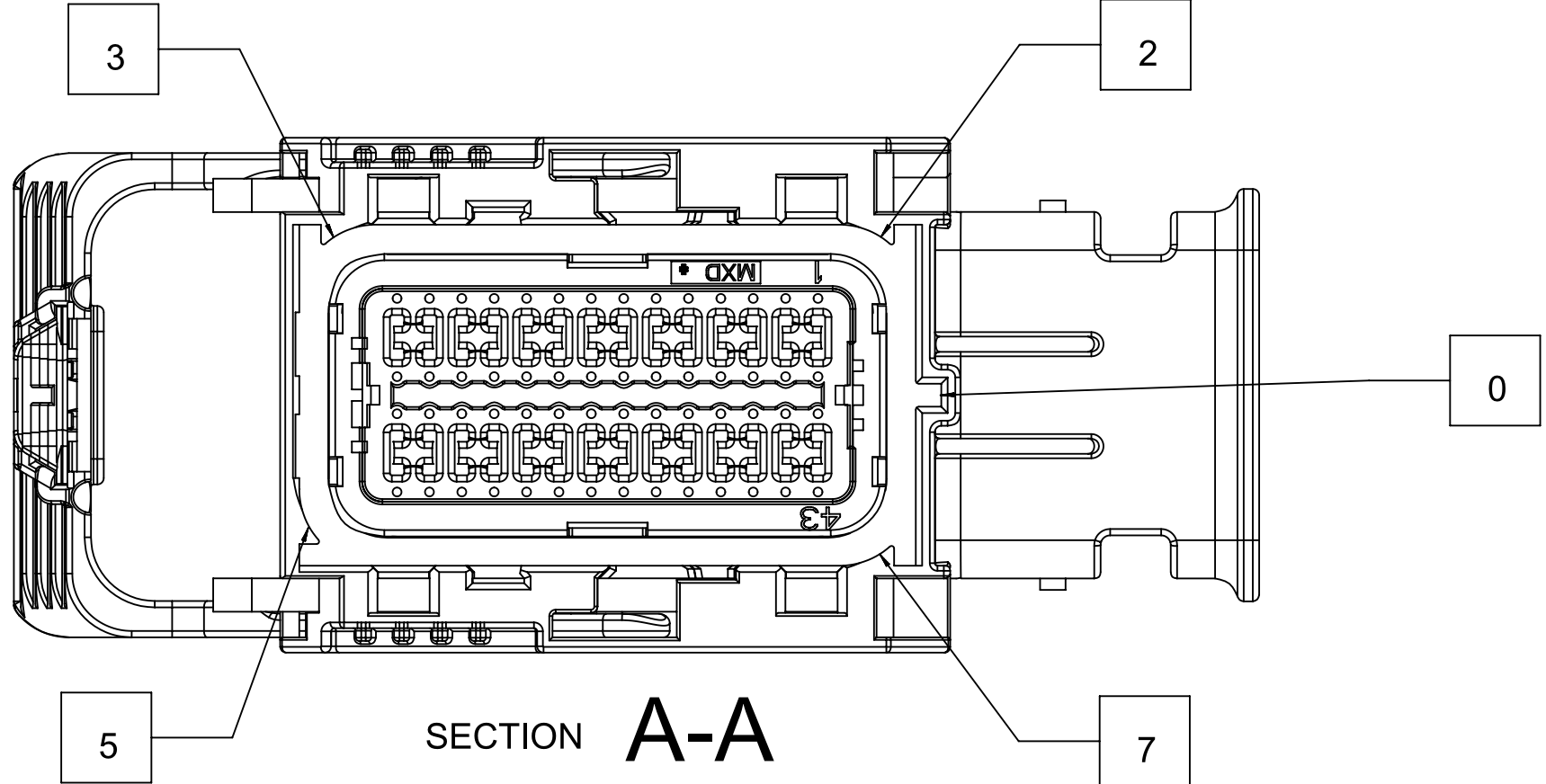


SECTION B-B

49 CKT COMPONENT CONNECTOR INTERFACE
KEY OPTION B SHOWN

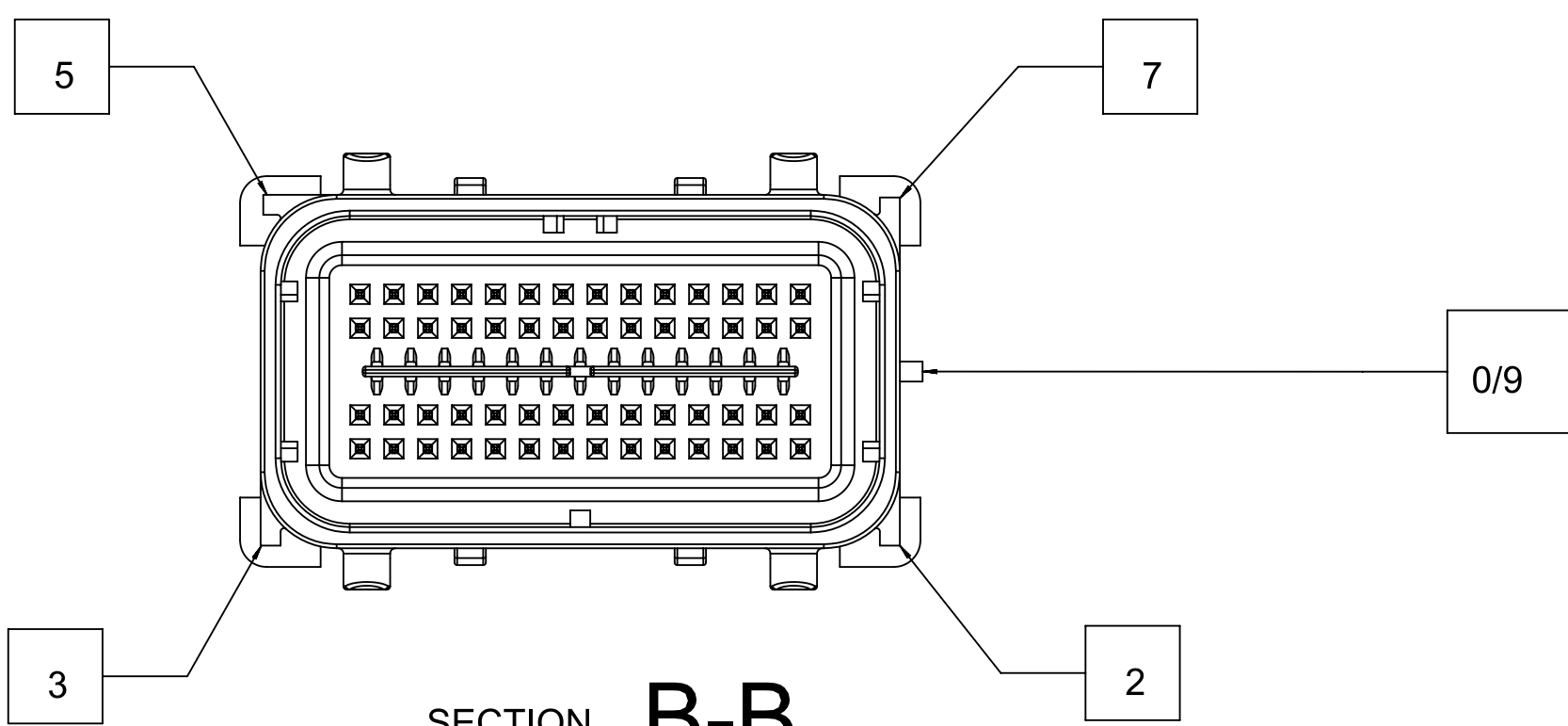


NOTE: REFERENCE THE COMPONENT TABLE
FOR KEY OPTIONS AND CONFIGURATIONS



SECTION A-A

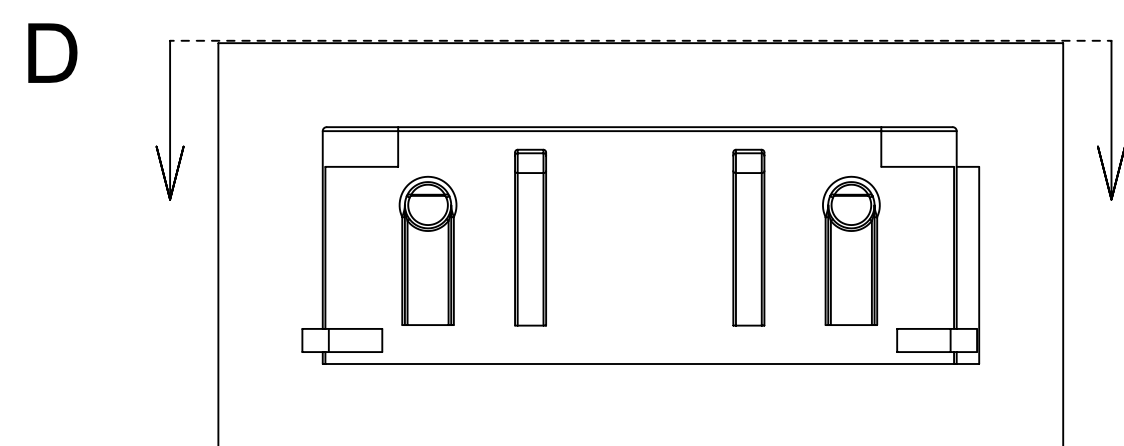
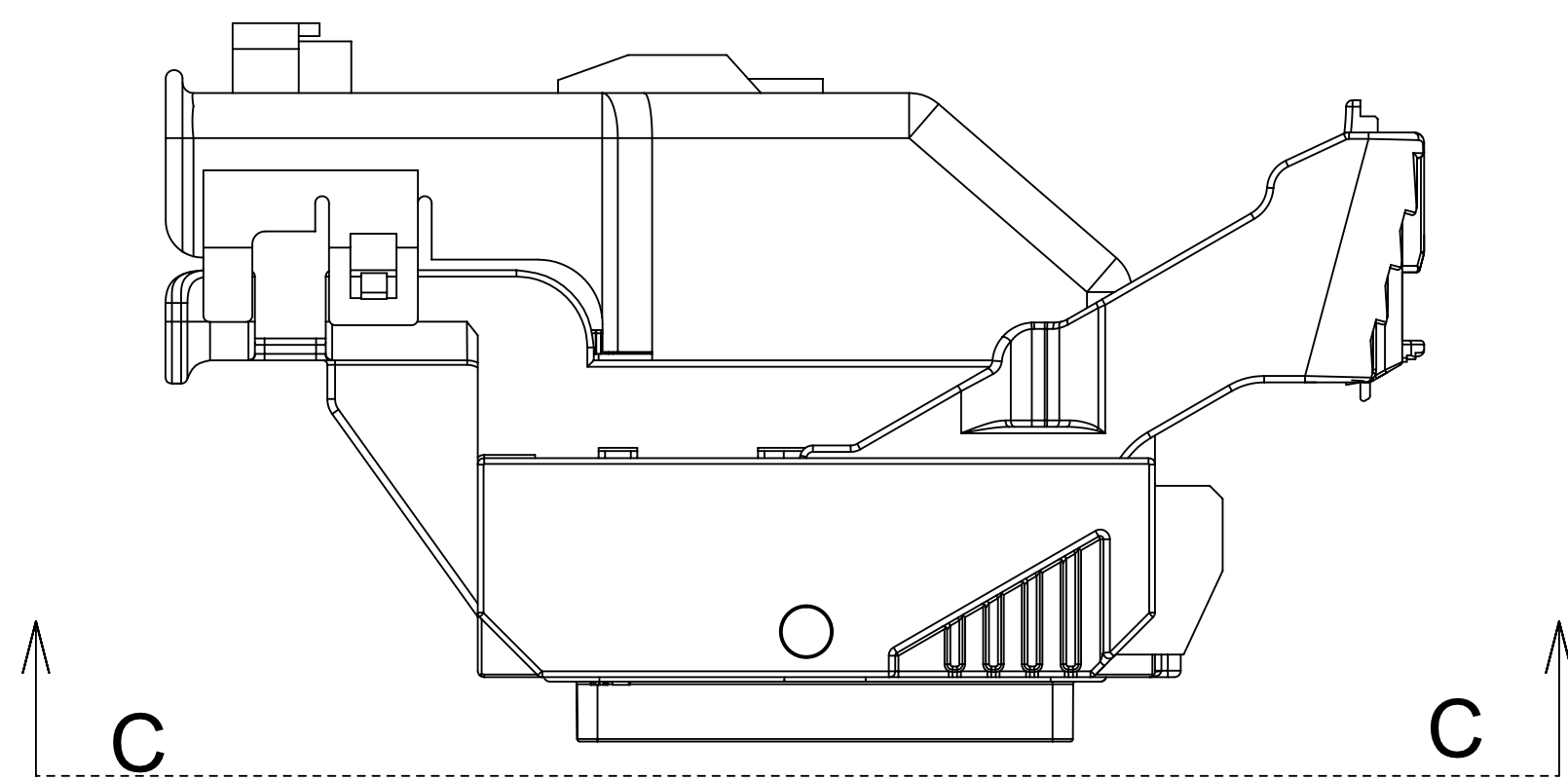
56 CKT HARNESS CONNECTOR ASSEMBLY
KEY OPTION K SHOWN



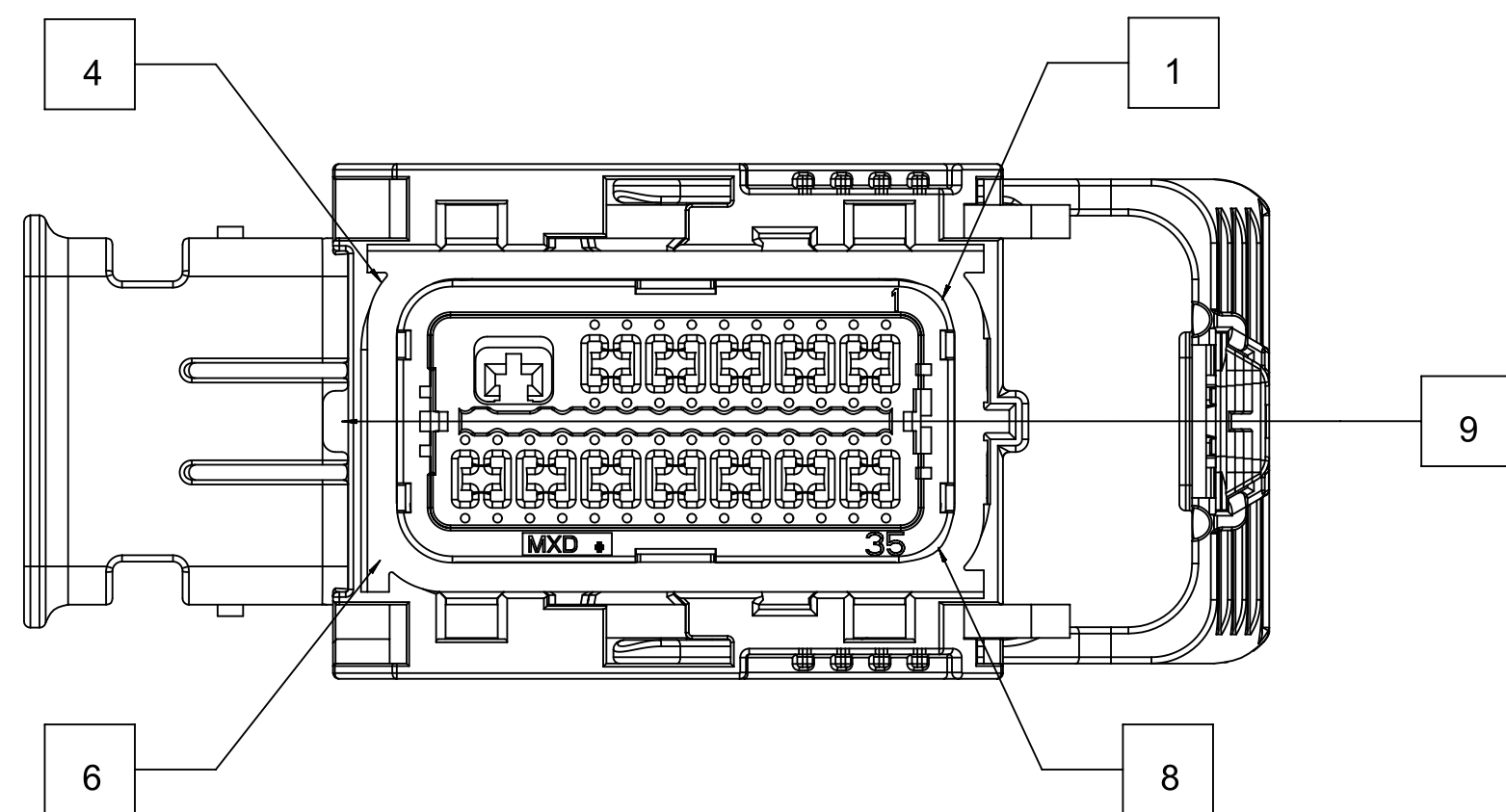
SECTION B-B

56 CKT COMPONENT CONNECTOR INTERFACE
KEY OPTION K SHOWN

ENTER DESCRIPTION EC NO: UAU2017-0870 DRWN: ACHITALIA 2017/03/27 CHKD: A6 APPR: VKOSHY 2017/03/29			DESCRIPTION	QUALITY SYMBOLS	GENERAL TOLERANCES (UNLESS SPECIFIED)			DIMENSION STYLE MM ONLY		SCALE 1:1	DESIGN UNITS METRIC		THIRD ANGLE PROJECTION
				=0 =0 =0		mm	INCH	DRAWN BY	DATE	TITLE ICD - MX123 18/49/56CKT INTERFACE CONNECTION DRW MOLEX			
					4 PLACES	± ---	± ---	SKRAJENDRANA	2016/12/15				
					3 PLACES	± ---	± ---	CHECKED BY	DATE				
					2 PLACES	± 0.13	± ---	VKOSHY	2016/12/15				
					1 PLACE	± 0.25	± ---	APPROVED BY	DATE				
				=0	0 PLACE	± ---	± ---	VKOSHY	2017/03/03				
				ANGULAR ± 1°			MATERIAL NO.		DOCUMENT NO.			SHEET NO.	
				DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS			SEE BOM TABLE		SD-34576-0001			10 OF 22	
				REV					SIZE D	THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION			

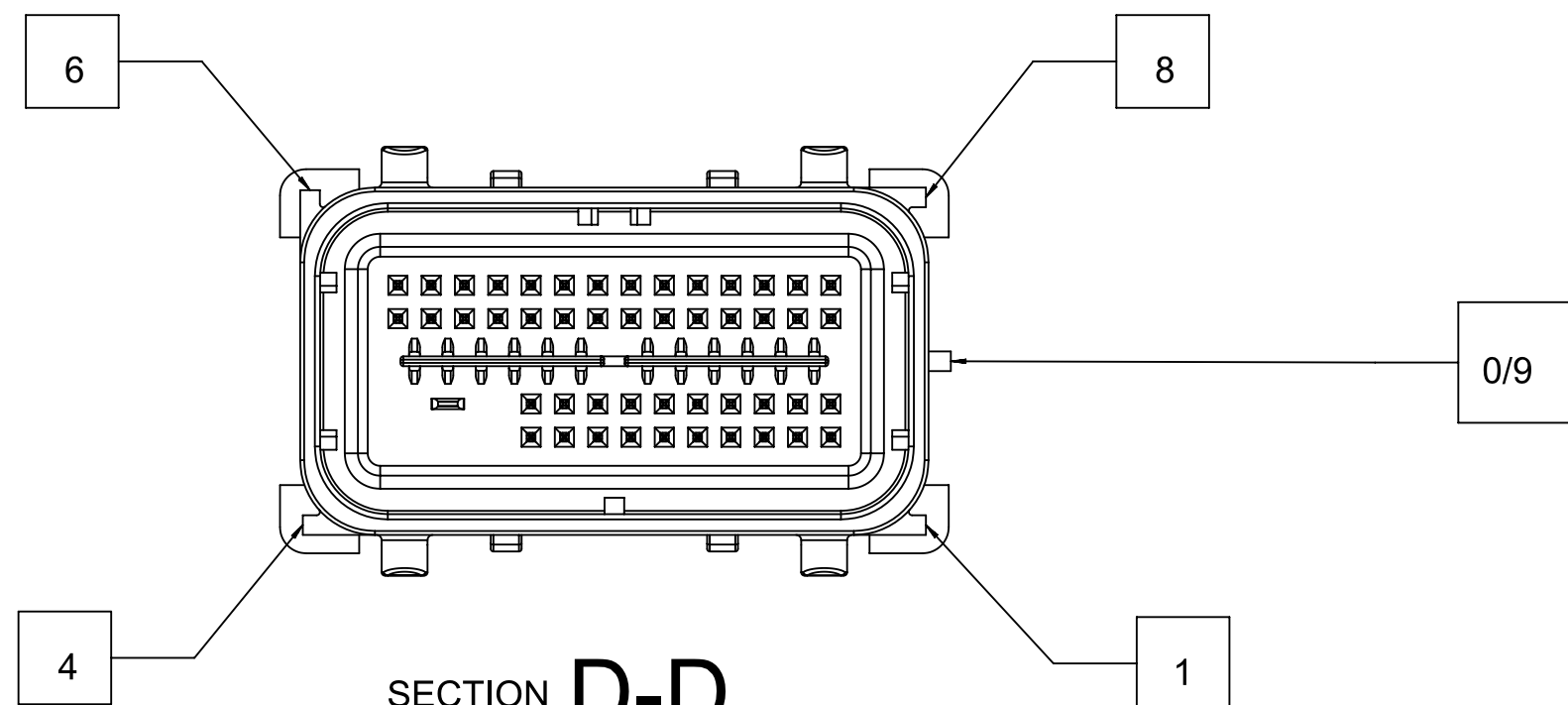


INTERFACE SIDE SHOWN ON ALL SECTION VIEWS

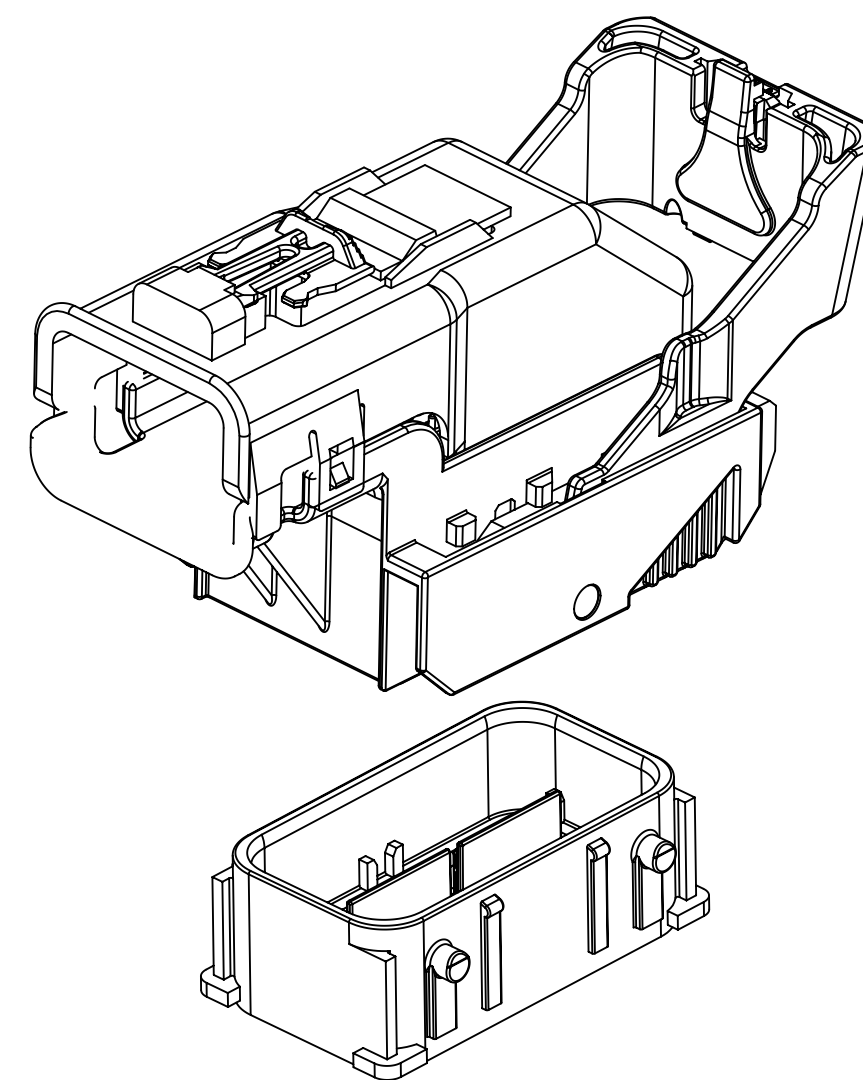


SECTION **C-C**

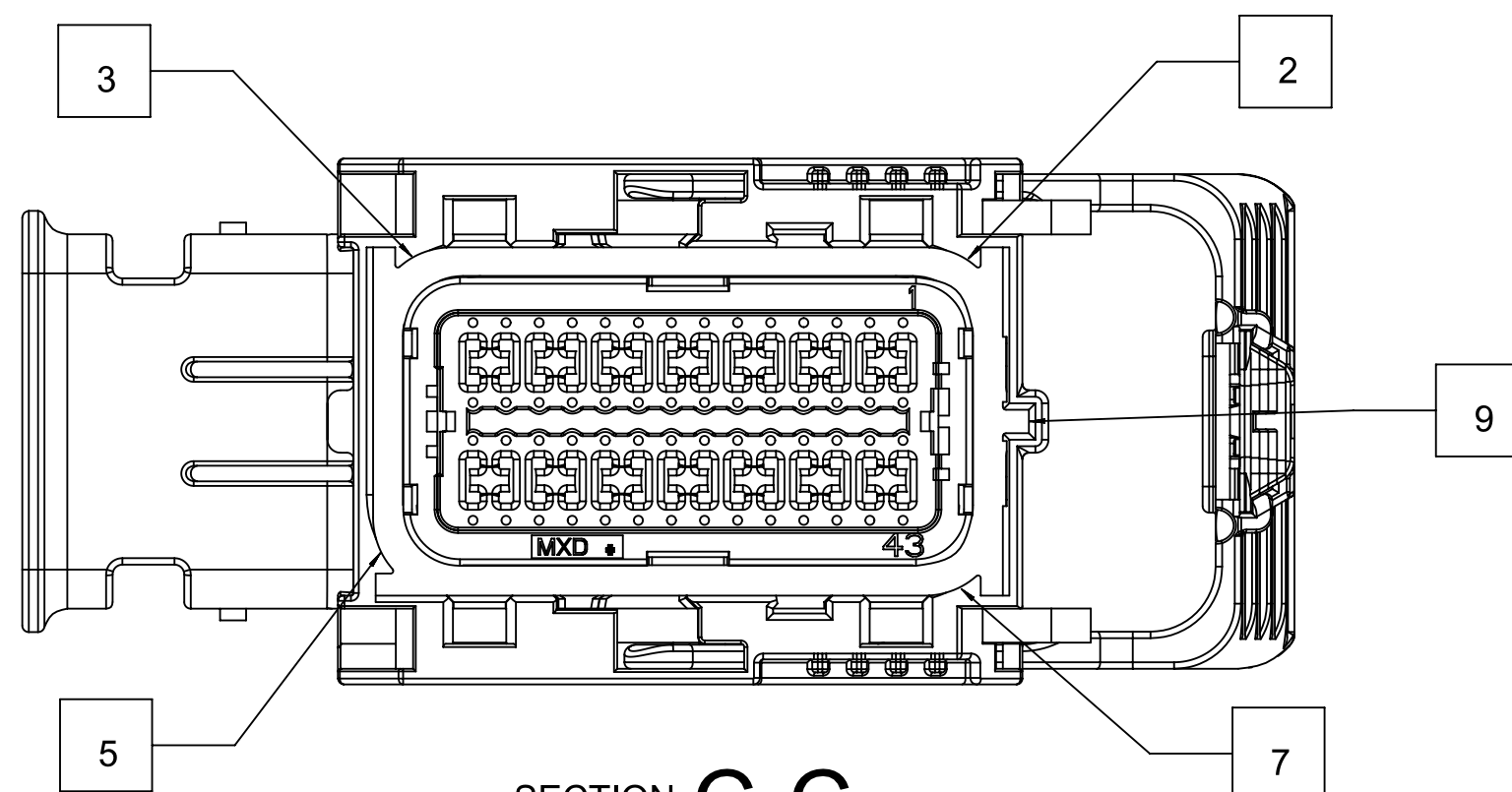
49 CKT HARNESS CONNECTOR ASSEMBLY
KEY OPTION B SHOWN



49 CKT COMPONENT CONNECTOR INTERFACE
KEY OPTION B SHOWN

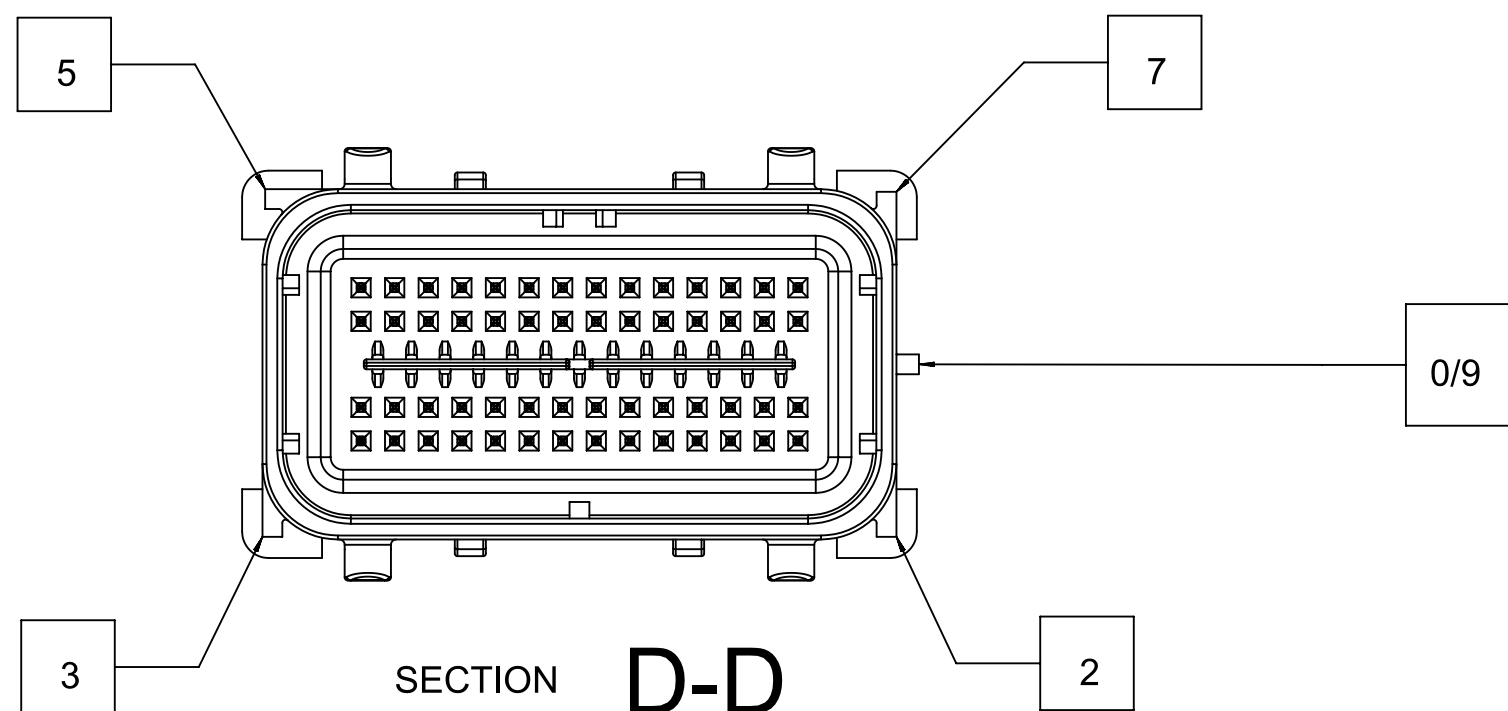


NOTE: REFERENCE THE COMPONENT TABLE
FOR KEY OPTIONS AND CONFIGURATIONS



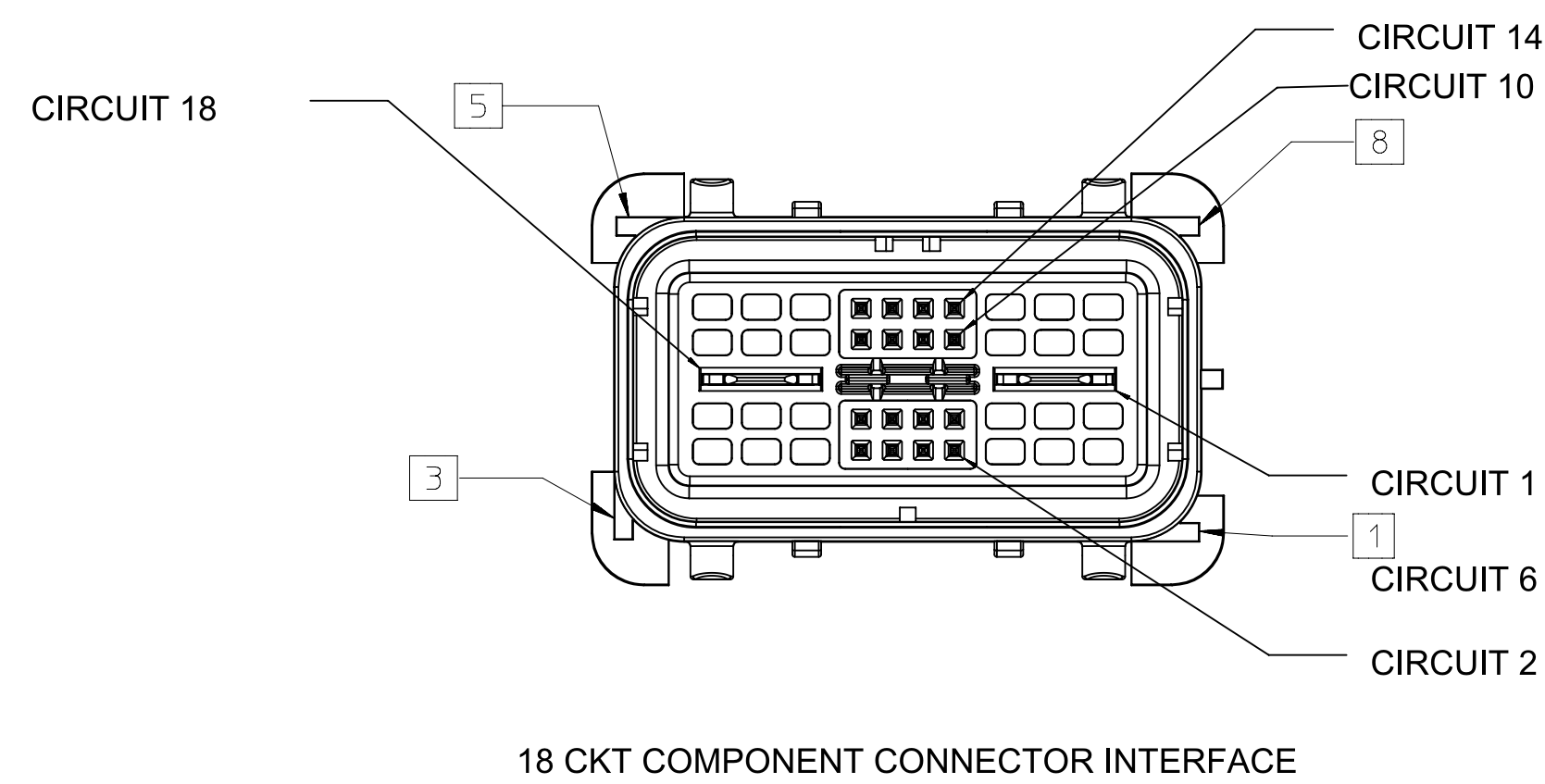
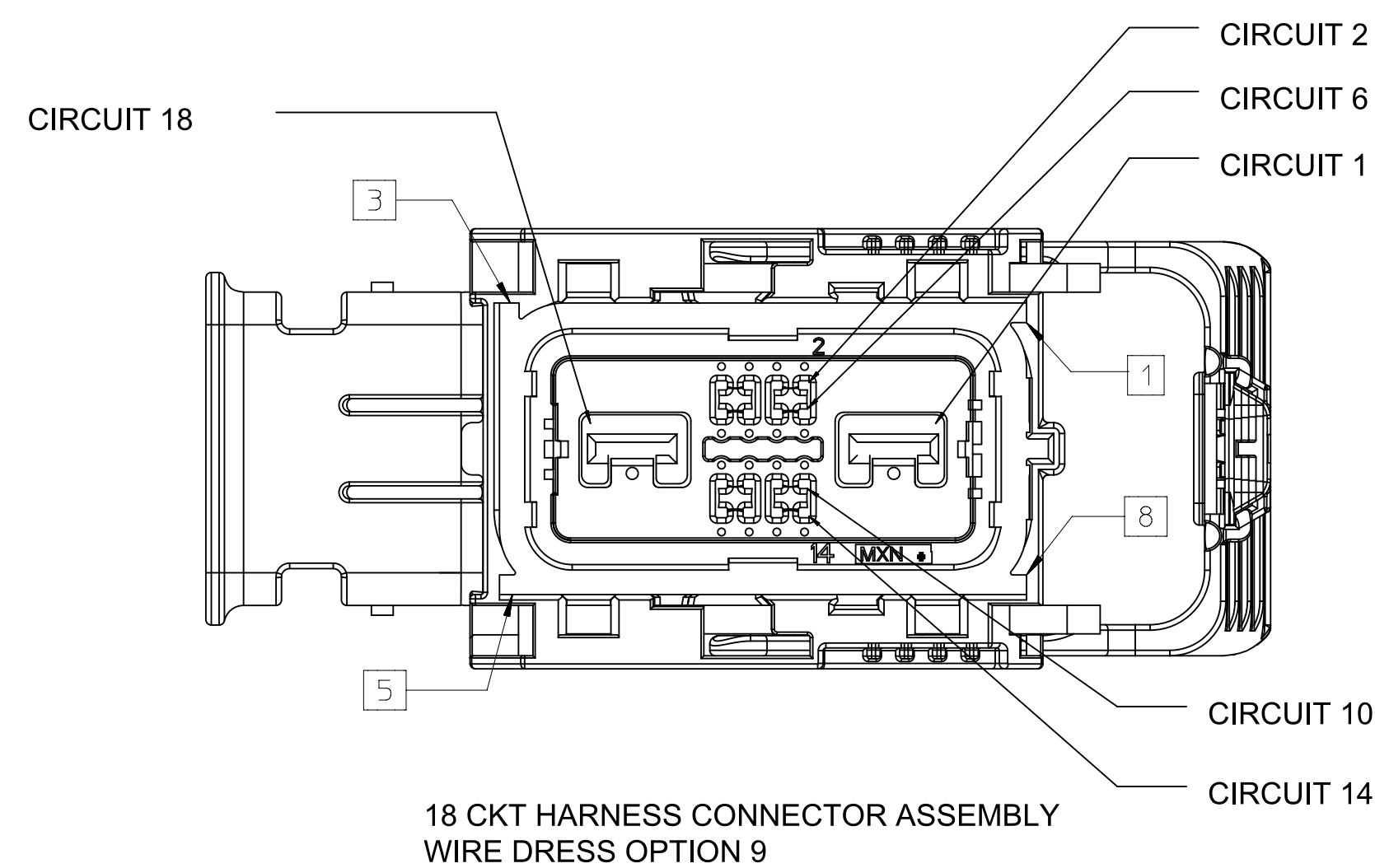
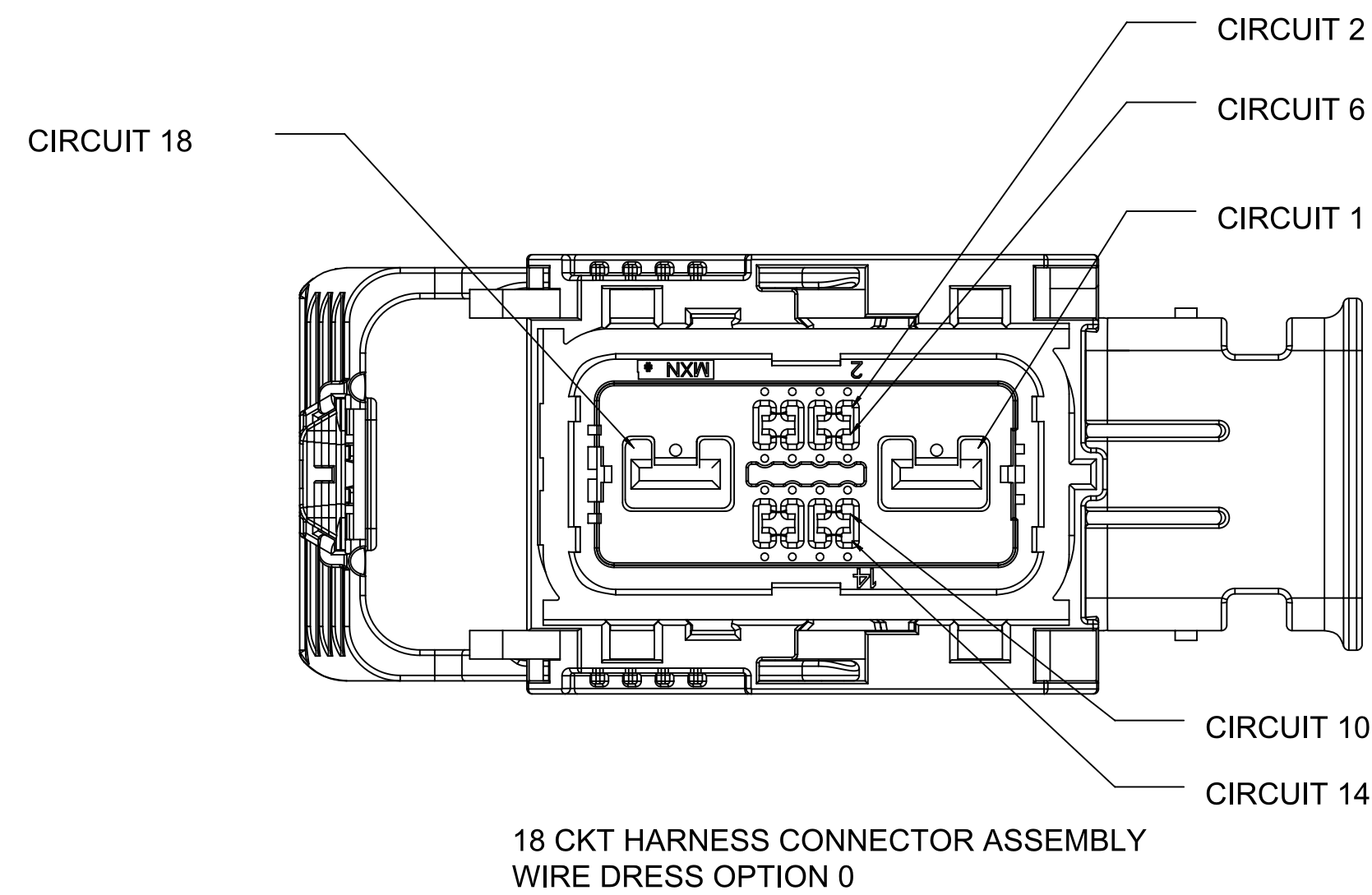
SECTION **C-C**

56 CKT HARNESS CONNECTOR ASSEMBLY
KEY OPTION K SHOWN



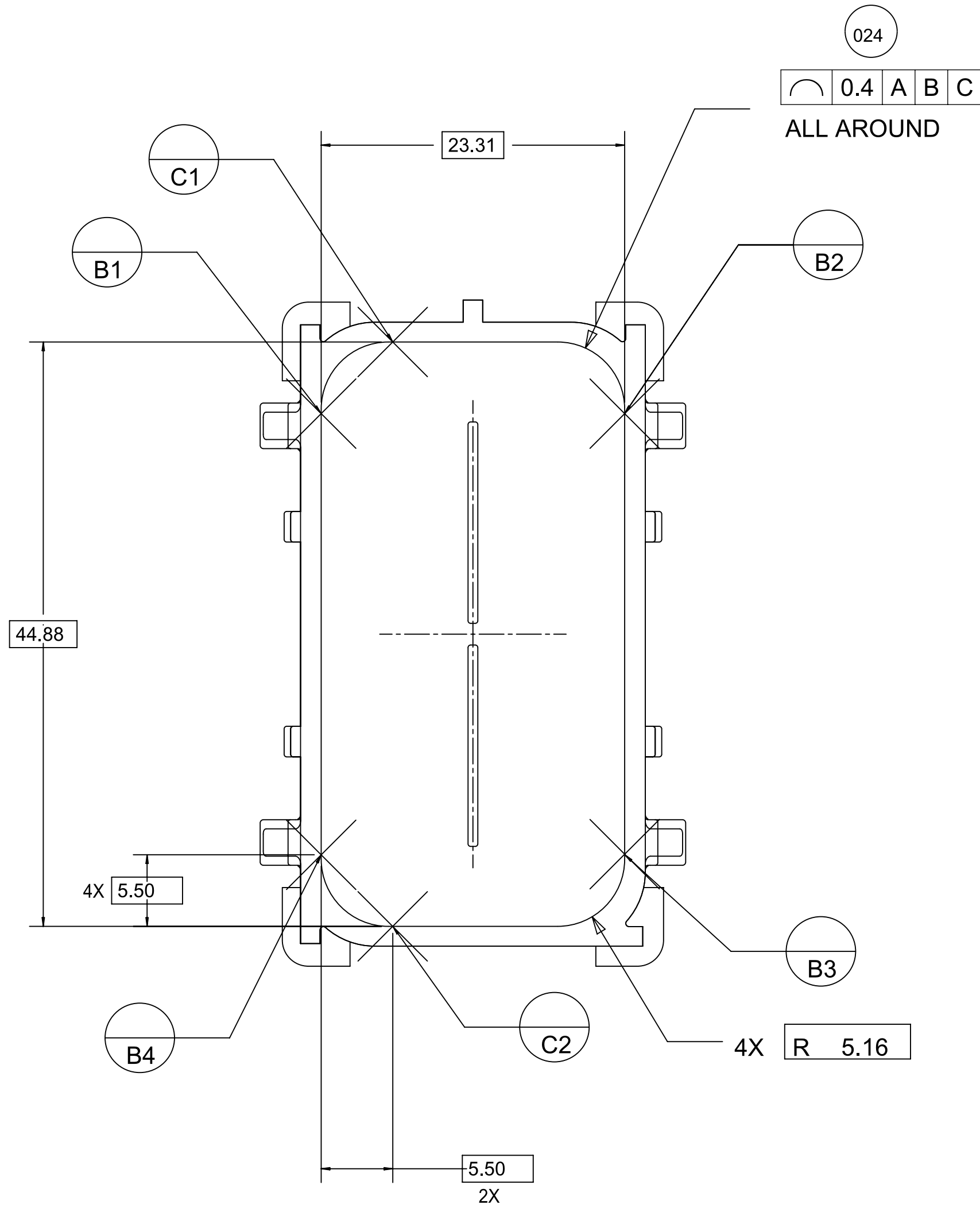
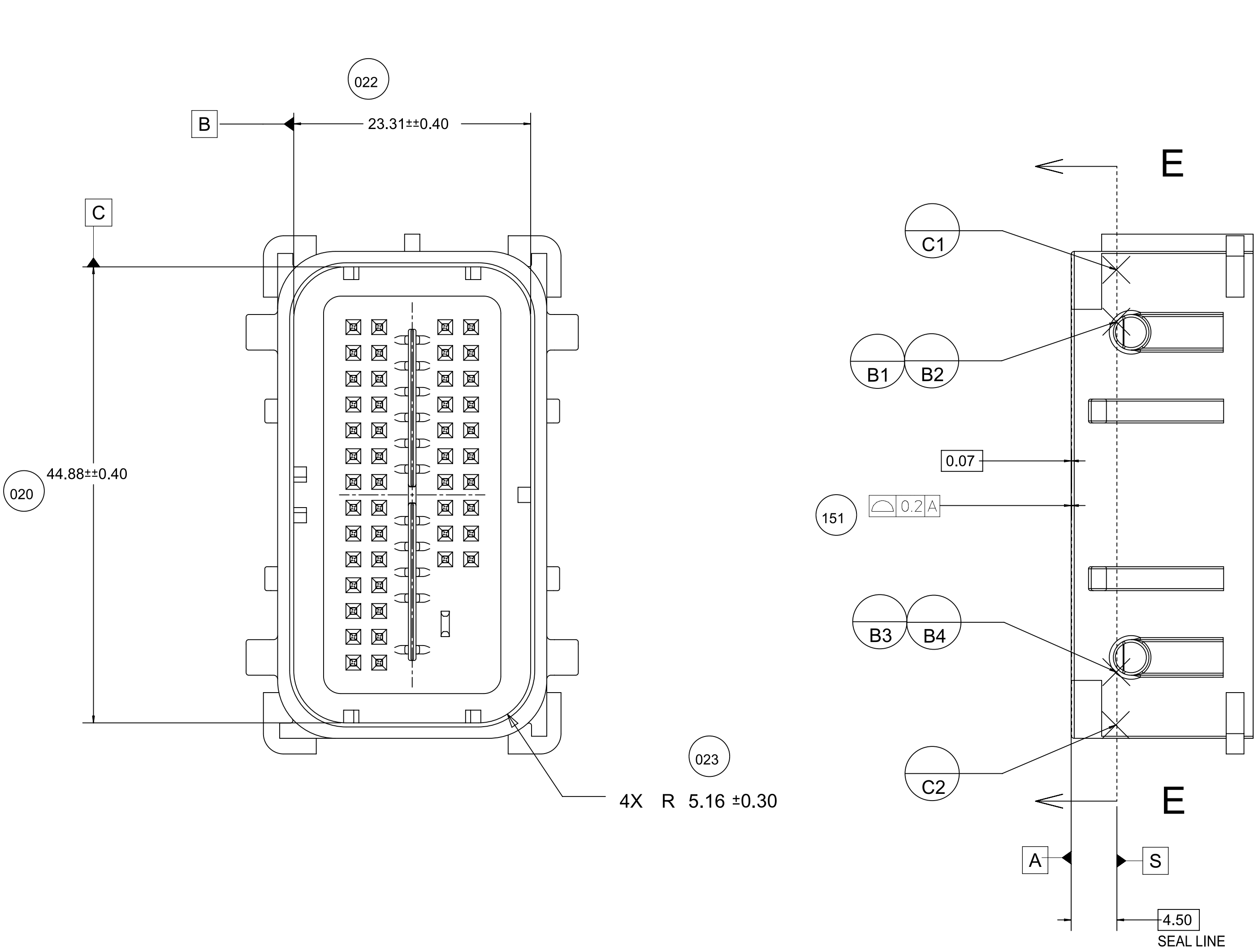
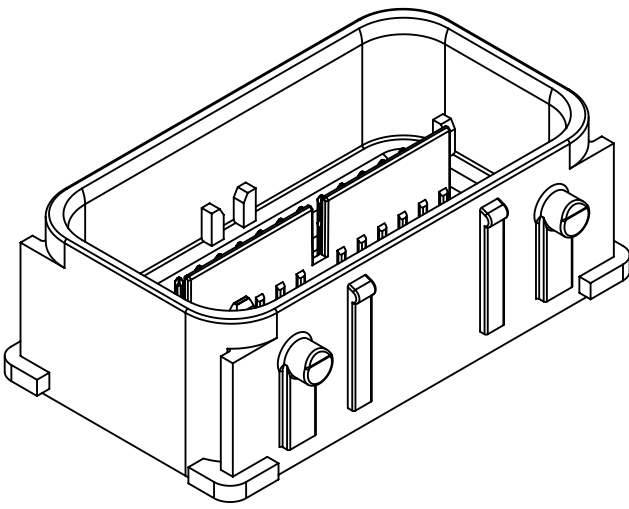
56 CKT COMPONENT CONNECTOR INTERFACE
KEY OPTION K SHOWN

ENTER DESCRIPTION EC NO: UAU017-0870 DRWN: ACHITALIA 2017/03/27 CHKD: WKOSHY APPR: WKOSHY 2017/03/29	DESCRIPTION	QUALITY SYMBOLS ▽E =0 ▽F =0 ▽G =0	GENERAL TOLERANCES (UNLESS SPECIFIED)			DIMENSION STYLE MM ONLY		SCALE 1:1	DESIGN UNITS METRIC	THIRD ANGLE PROJECTION	
					mm	INCH	DRAWN BY DATE SKRAJENDRANA 2016/12/15		TITLE ICD - MX123 18/49/56CKT INTERFACE CONNECTION DRW MOLEX		
							CHECKED BY DATE VKOSHY 2016/12/15				
							APPROVED BY DATE VKOSHY 2017/03/03		molex		
							MATERIAL NO.				
				SIZE D		THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION					



INTERFACE SIDE SHOWN ON ALL VIEWS

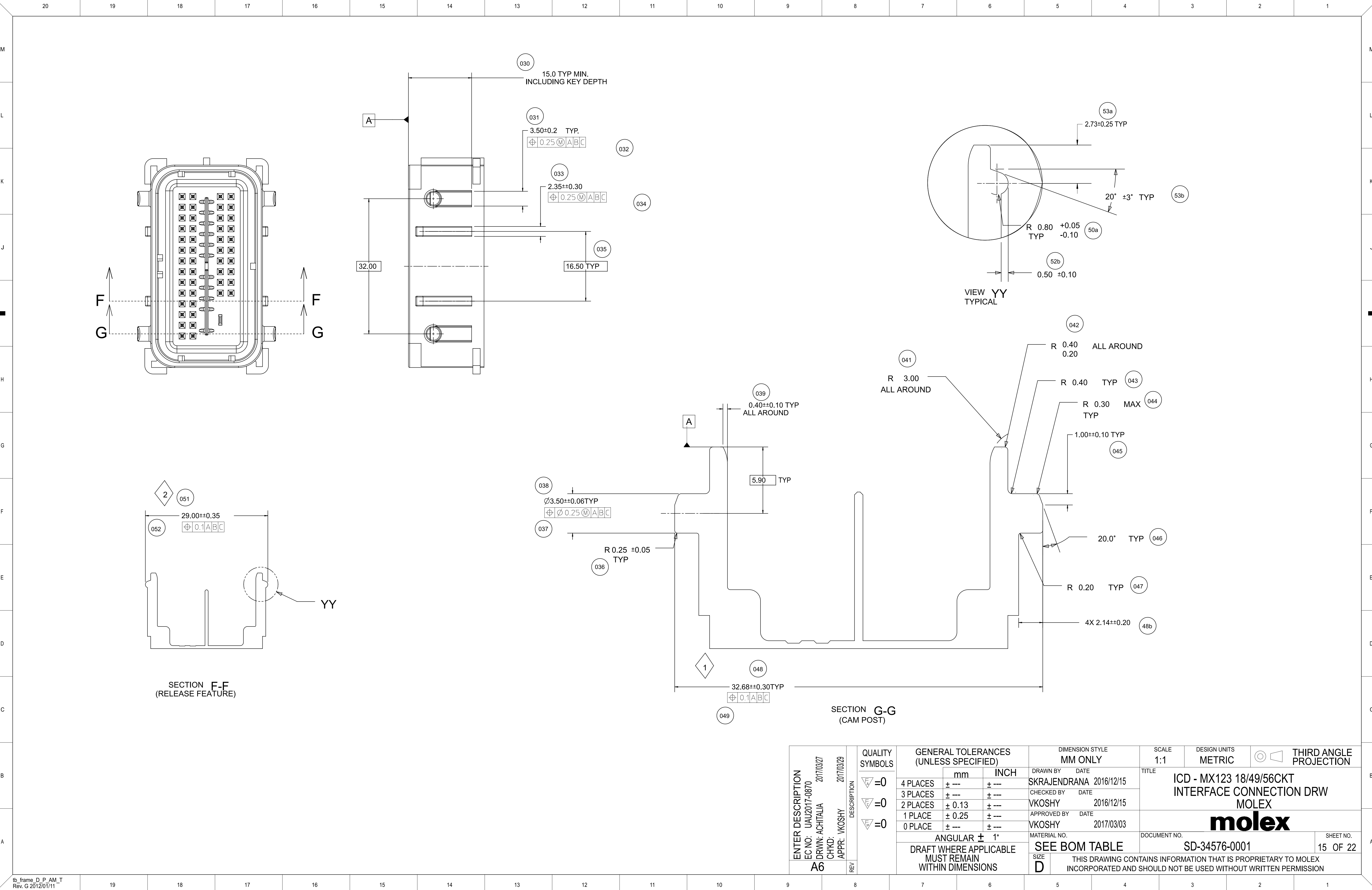
ENTER DESCRIPTION EC NO: UAU2017-0870 DRWN: ACHITALIA CHKD: 20170329 APP: VKOSHY A6		DESCRIPTION 20170329	QUALITY SYMBOLS ▽=0 ▽=0 ▽=0	GENERAL TOLERANCES (UNLESS SPECIFIED)			DIMENSION STYLE MM ONLY		SCALE 1:1	DESIGN UNITS METRIC		THIRD ANGLE PROJECTION	
								TITLE		ICD - MX123 18/49/56CKT INTERFACE CONNECTION DRW MOLEX 			
										DOCUMENT NO.		SHEET NO.	
						SEE BOM TABLE		SD-34576-0001				12 OF 22	
						THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION							

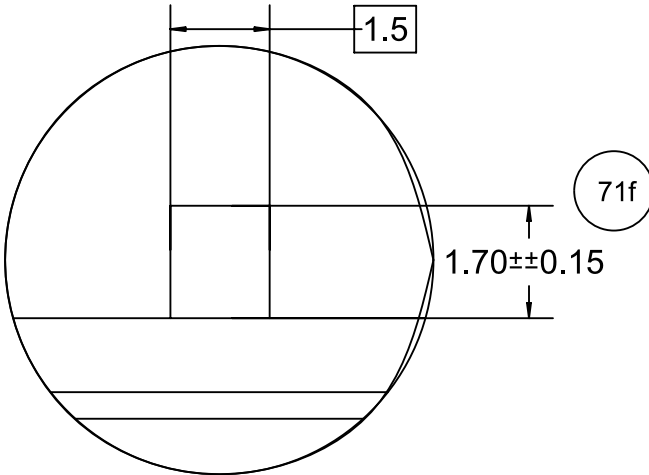
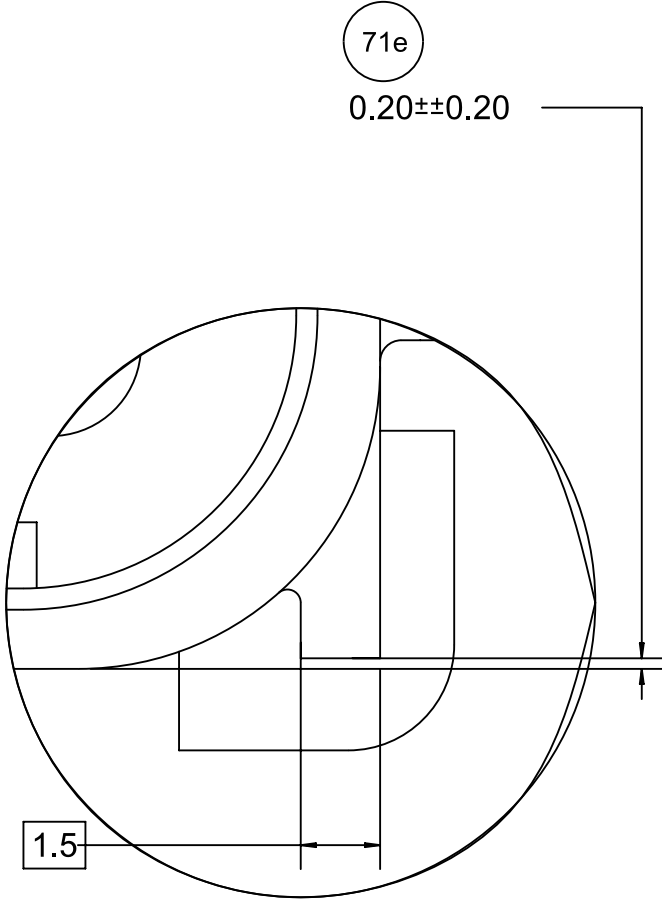
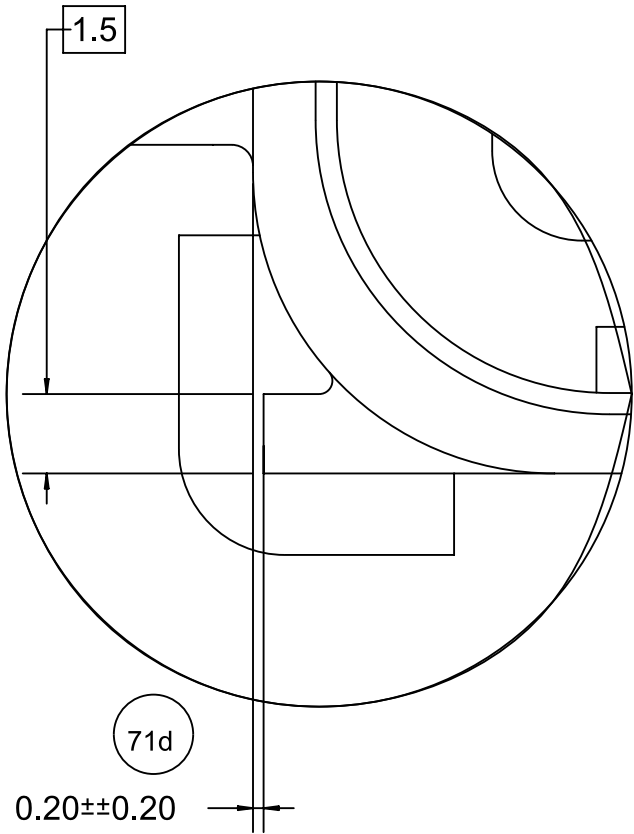
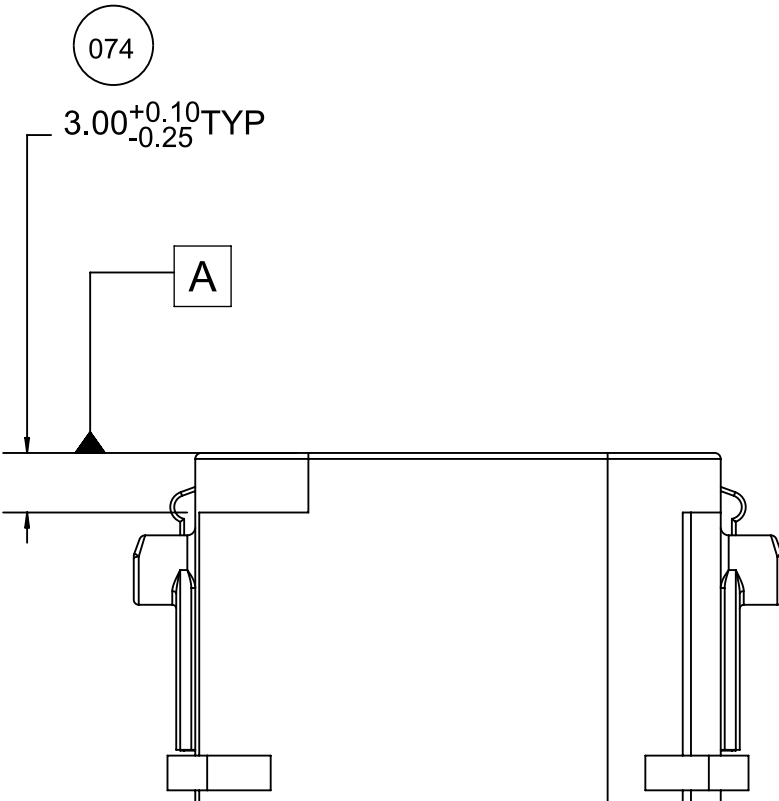
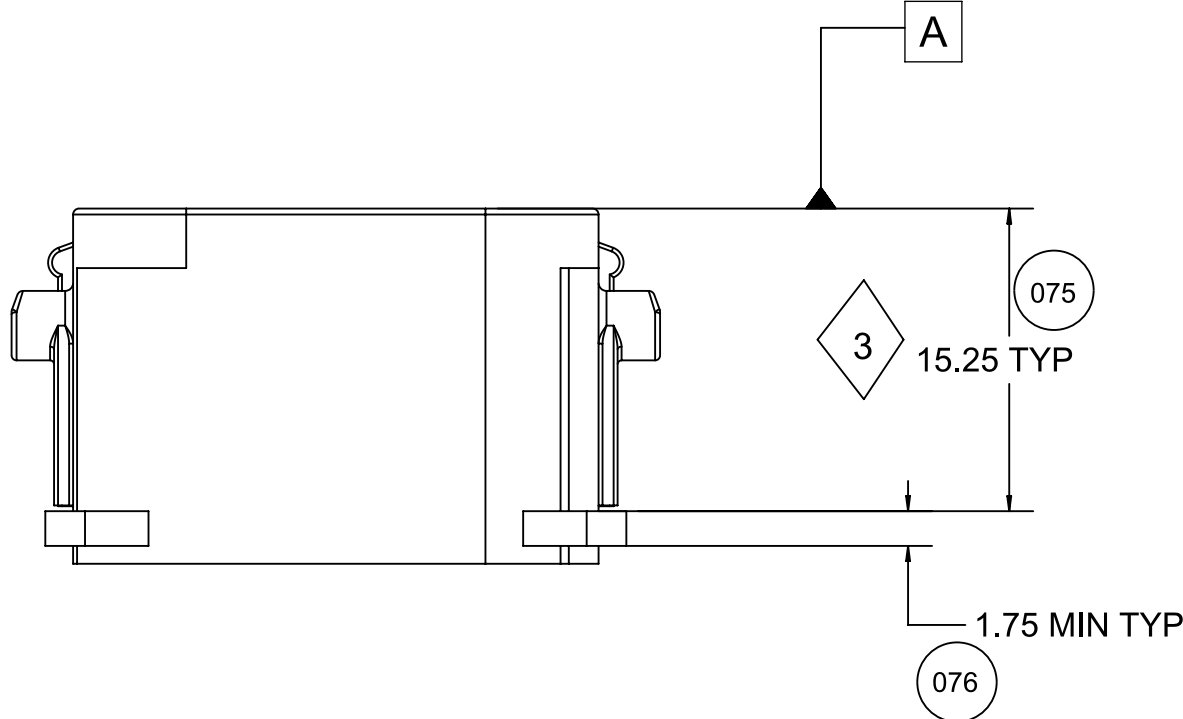
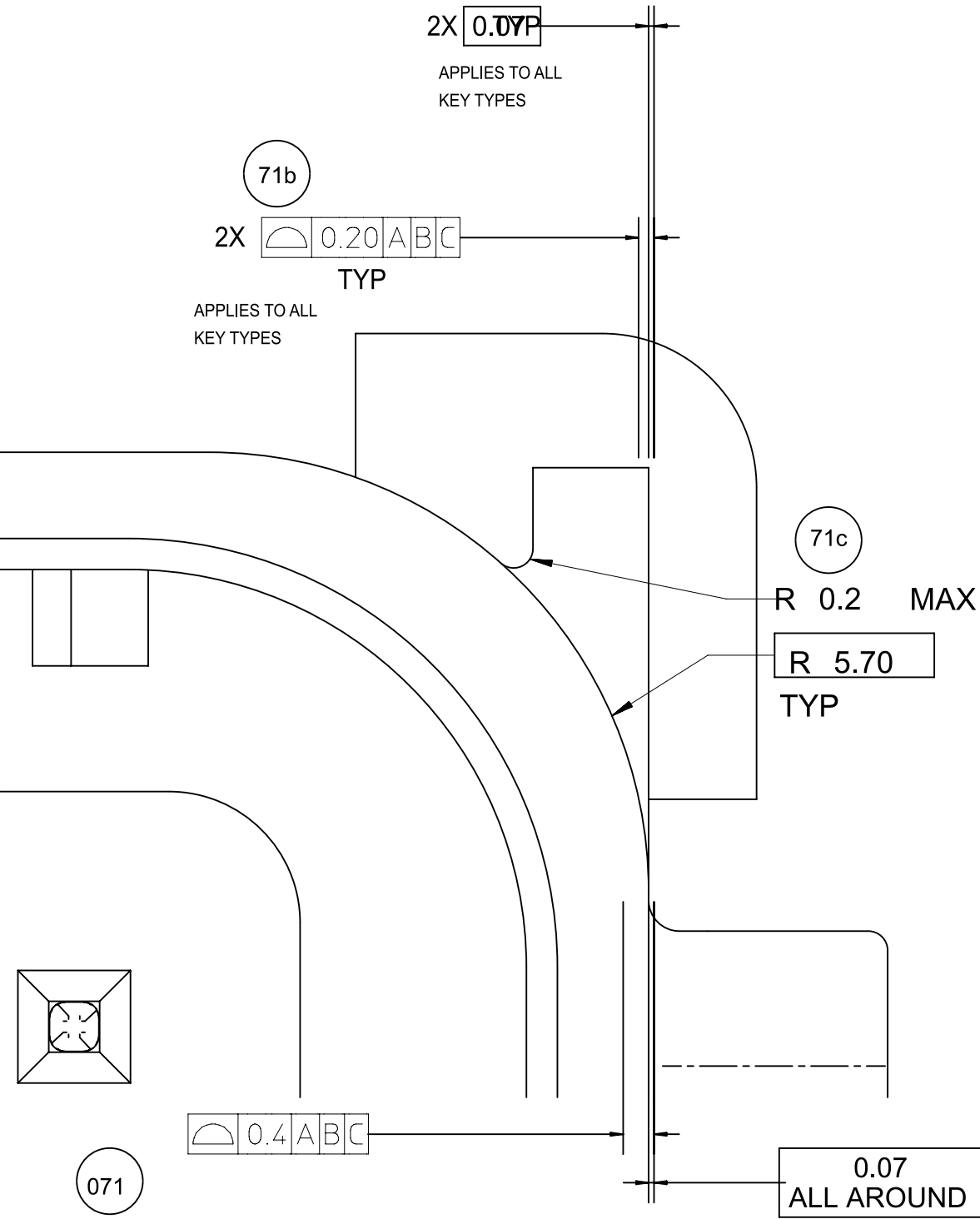
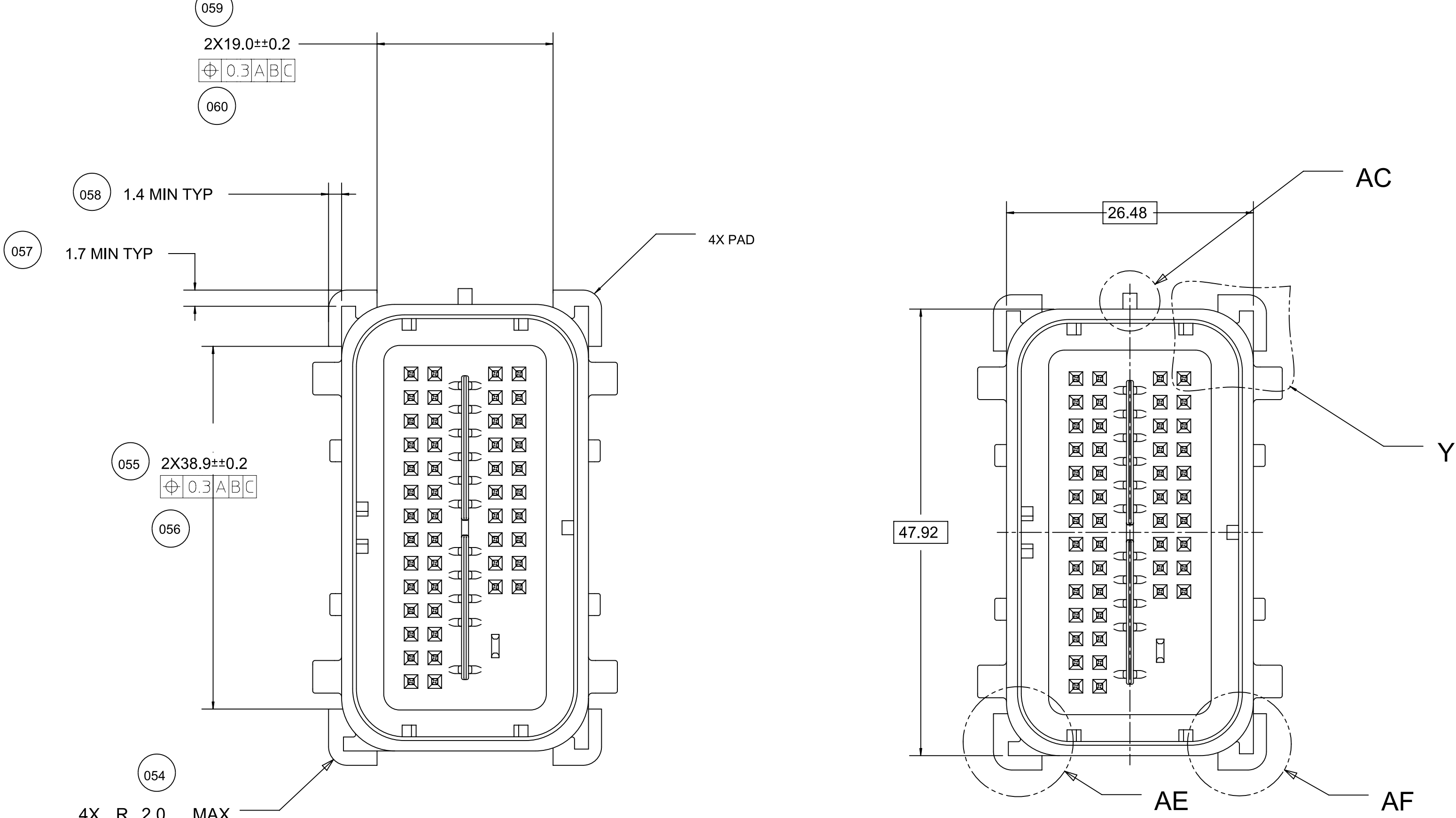


UNLESS SPECIFIED, TOLERANCE OF THE DEVICE INTERFACE TO BE

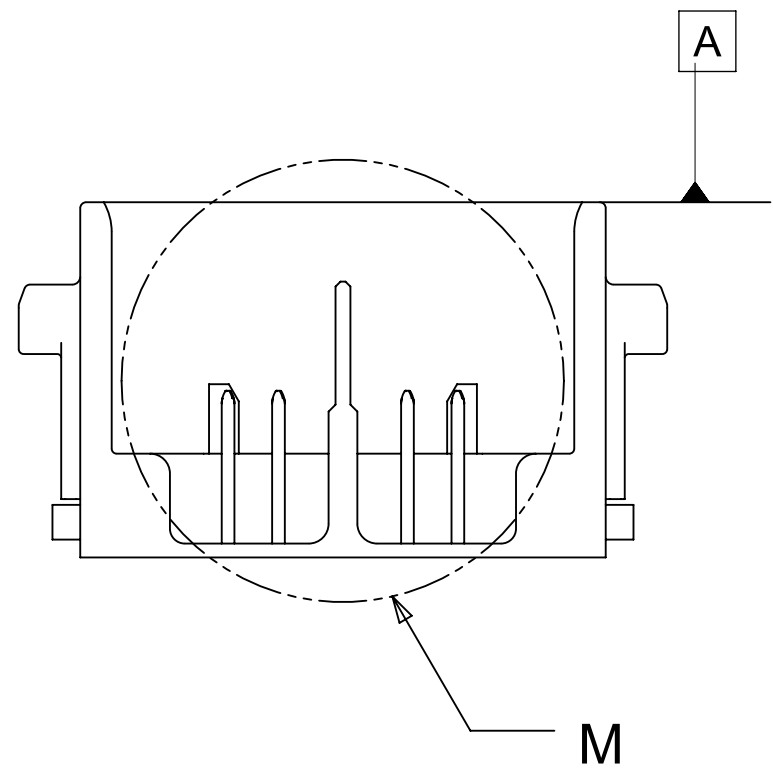
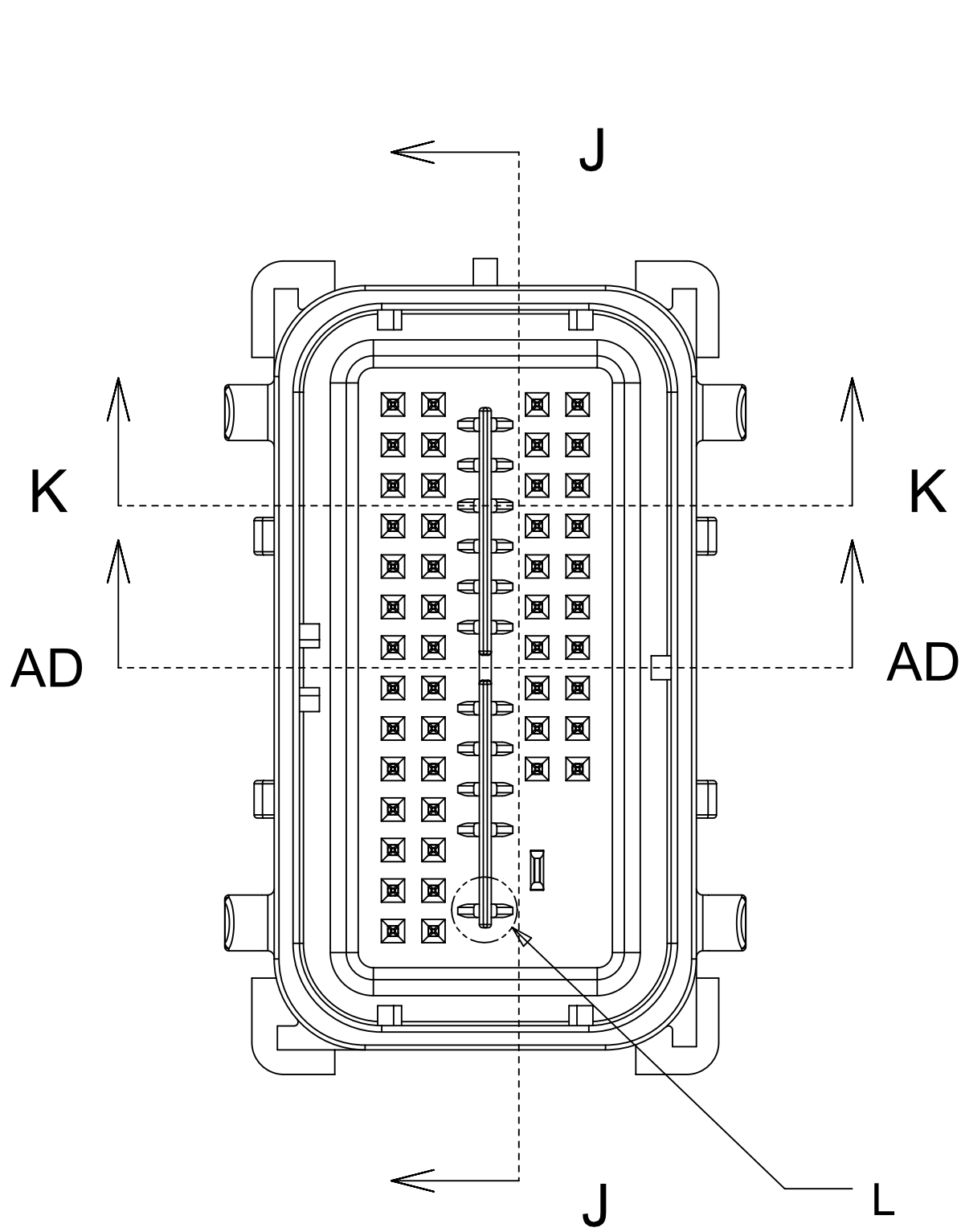
	0.13	A	B	C
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ENTER DESCRIPTION EC NO: UAU2017-0870 DRWN: ACHITALIA 2017/03/27 CHKD: A6 APPR: VKOSHY 2017/03/29			DESCRIPTION	REV	QUALITY SYMBOLS		GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE MM ONLY		SCALE 1:1	DESIGN UNITS METRIC		THIRD ANGLE PROJECTION					
					=0	mm		INCH	DRAWN BY DATE		TITLE ICD - MX123 18/49/56CKT INTERFACE CONNECTION DRW MOLEX molex								
						4 PLACES	± ---	± ---	SKRAJENDRANA 2016/12/15										
						3 PLACES	± ---	± ---	CHECKED BY DATE										
						2 PLACES	± 0.13	± ---	VKOSHY 2016/12/15										
						1 PLACE	± 0.25	± ---	APPROVED BY DATE		DOCUMENT NO. SD-34576-0001								
					0 PLACE	± ---	± ---	VKOSHY 2017/03/03		MATERIAL NO.							SHEET NO.		
					ANGULAR ± 1°				SEE BOM TABLE								14 OF 22		
DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS				SIZE D	THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION														

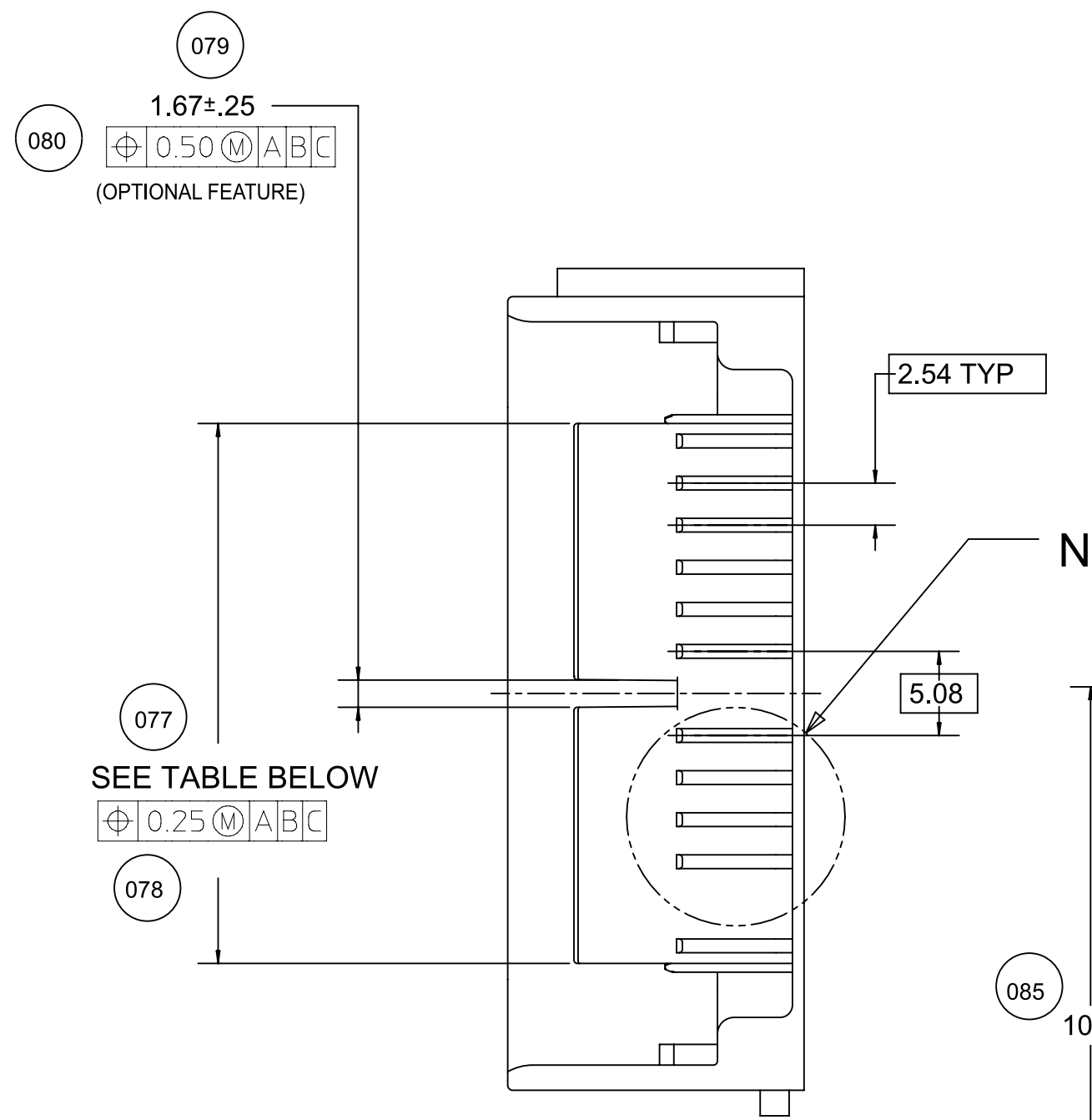




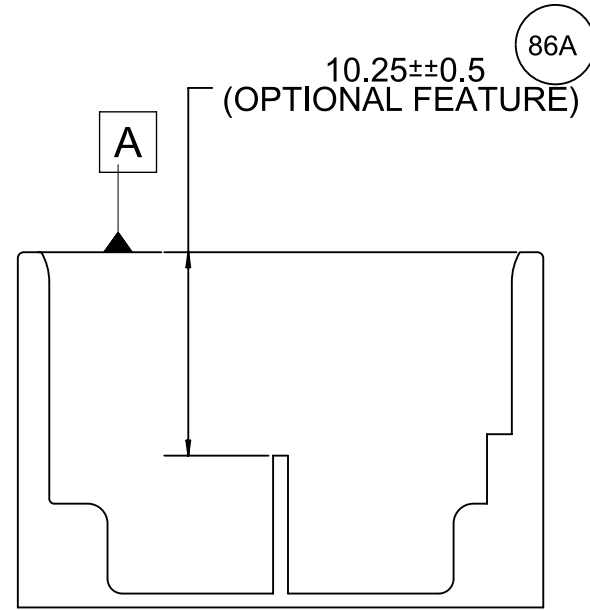
ENTER DESCRIPTION EC NO: UAU2017-0870 DRWN: ACHITALIA 2017/03/27 CHKD: A6 APPR: VKOSHY 2017/03/29				DESCRIPTION REV	QUALITY SYMBOLS		GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE MM ONLY		SCALE 1:1	DESIGN UNITS METRIC		THIRD ANGLE PROJECTION
=0		4 PLACES	± ---		± ---	DRAWN BY DATE SKRAJENDRANA 2016/12/15 CHECKED BY DATE VKOSHY 2016/12/15 APPROVED BY DATE VKOSHY 2017/03/03	TITLE ICD - MX123 18/49/56CKT INTERFACE CONNECTION DRW MOLEX	DOCUMENT NO. SD-34576-0001	SHEET NO. 16 OF 22					
=0		3 PLACES	± ---		± ---									
=0		2 PLACES	± 0.13		± ---									
=0		1 PLACE	± 0.25		± ---									
=0		0 PLACE	± ---		± ---									
ANGULAR ± 1°					MATERIAL NO.									
DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS					SEE BOM TABLE									
SIZE D					THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION									



SECTION K-K

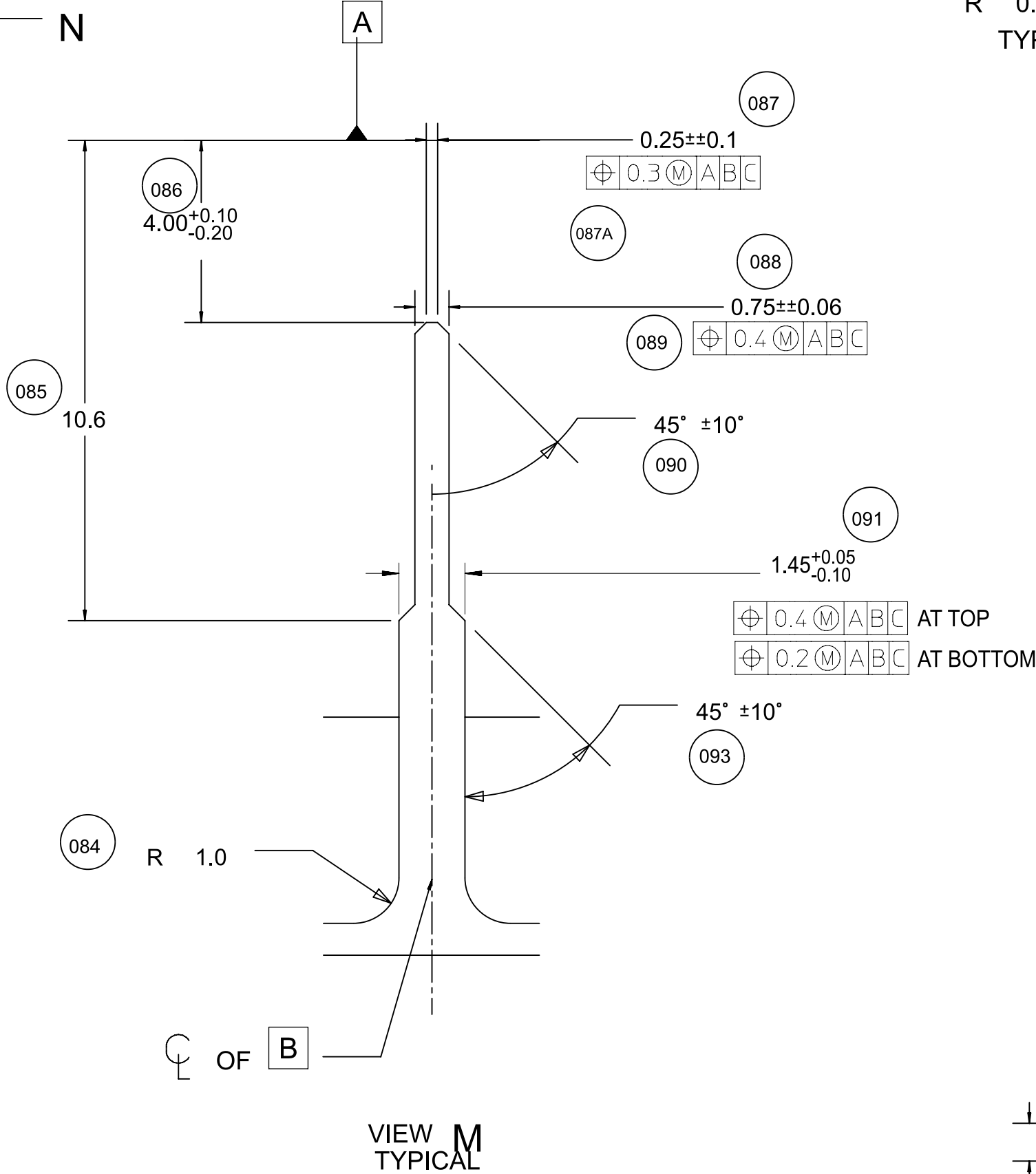


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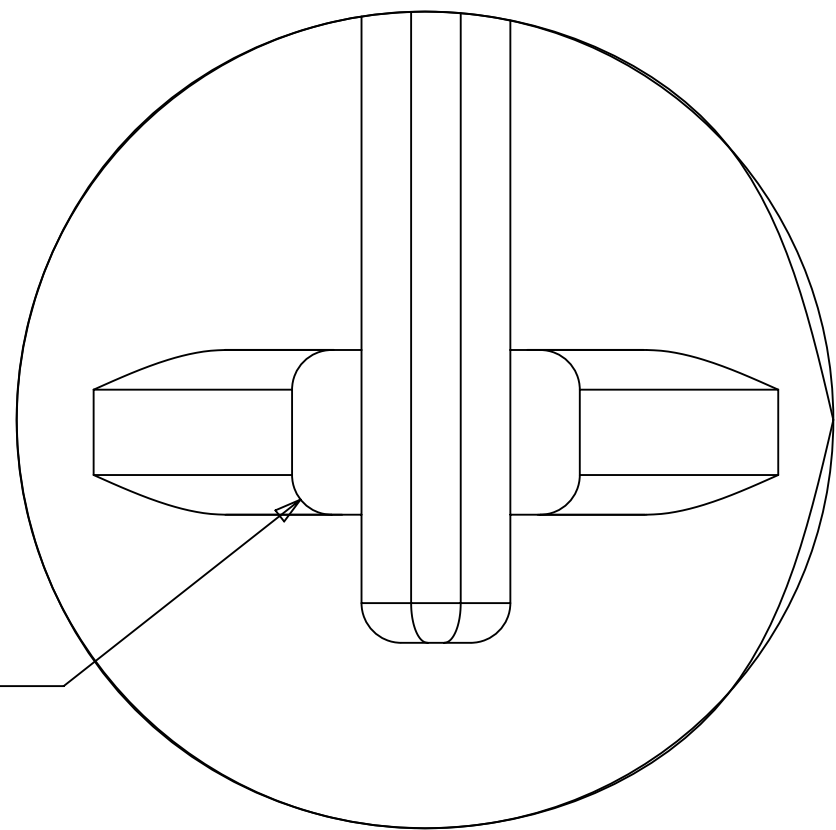


SECTION AD-AD

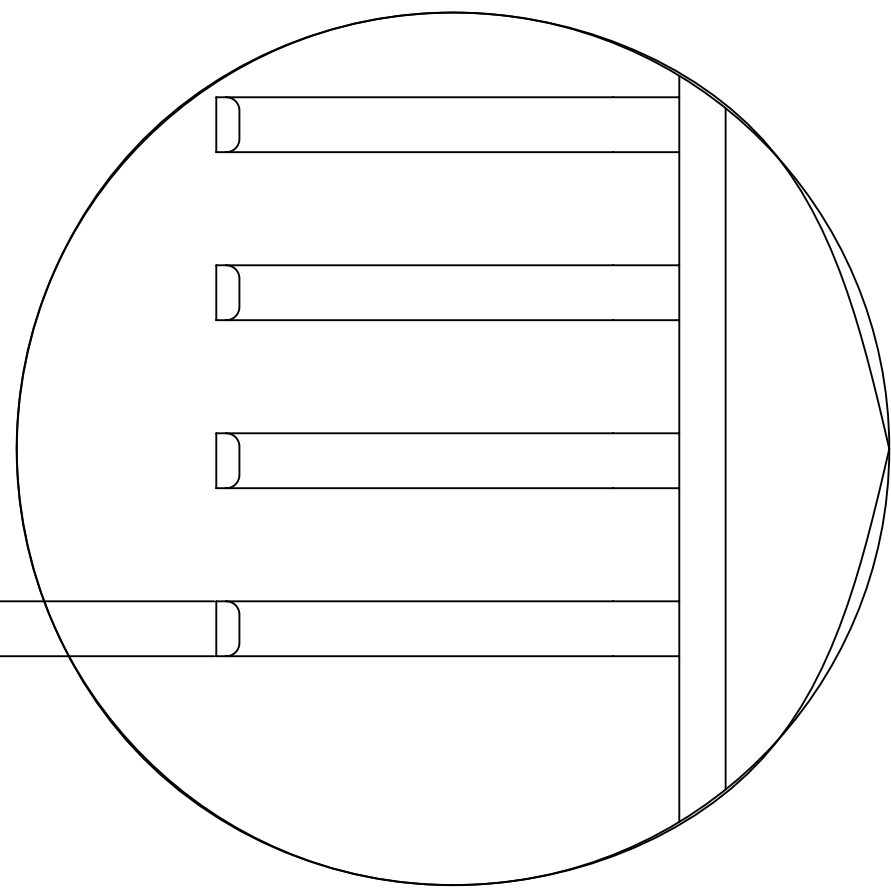
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49 / 56 CKT	32.60 +0.10/-0.60
18 CKT	10.04 +0.10/-0.60



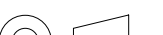
VIEW M TYPICAL

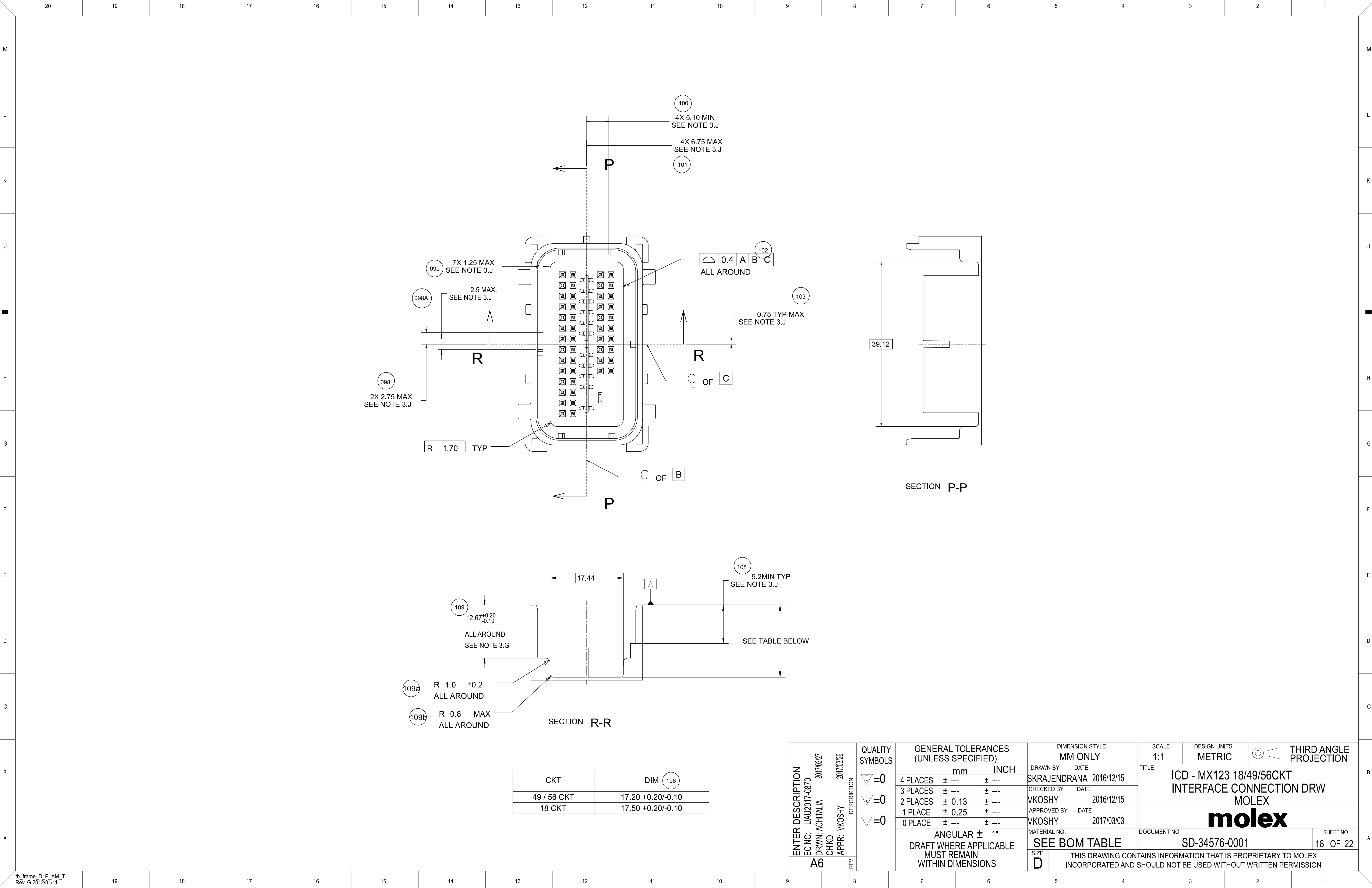


VIEW L

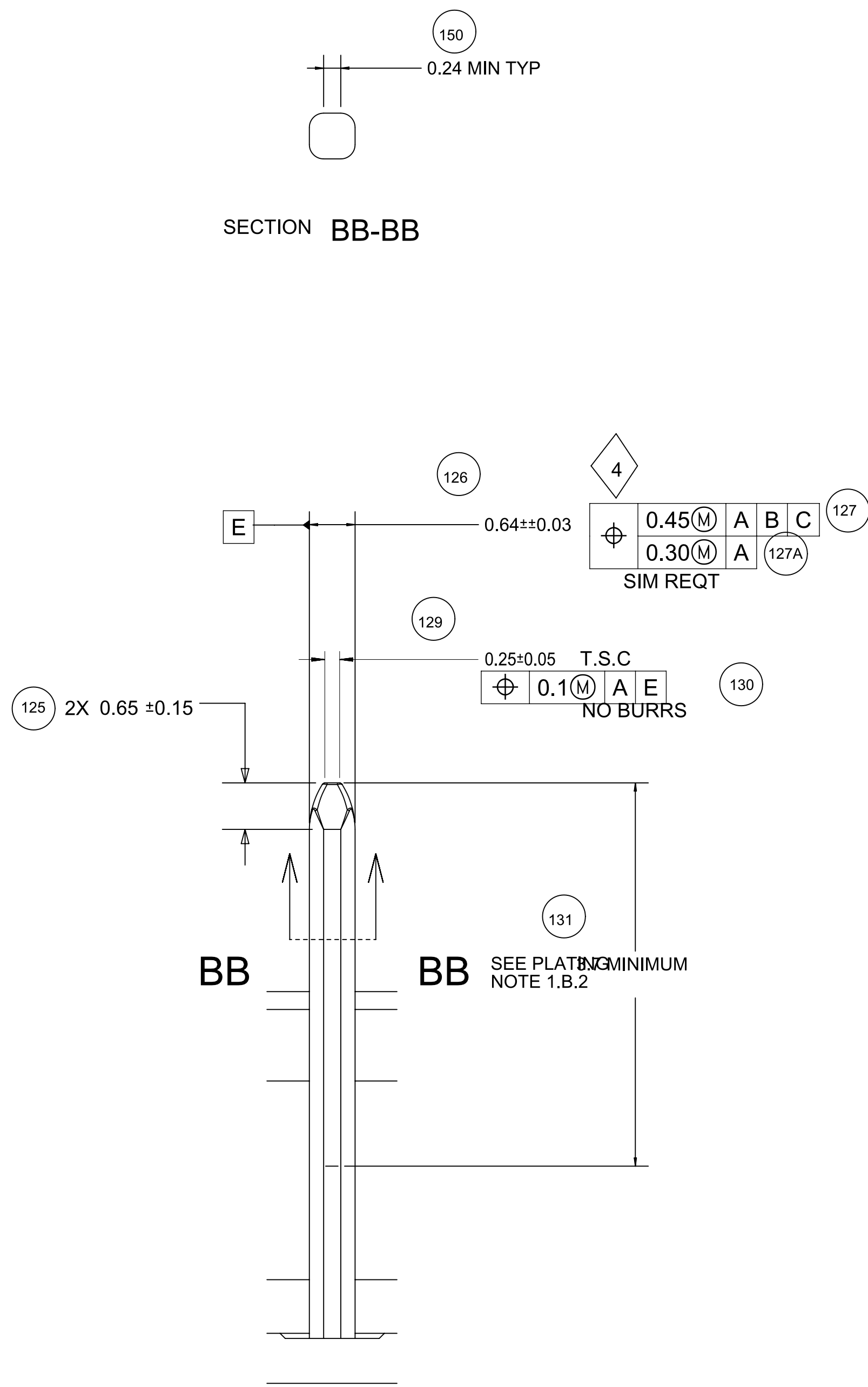
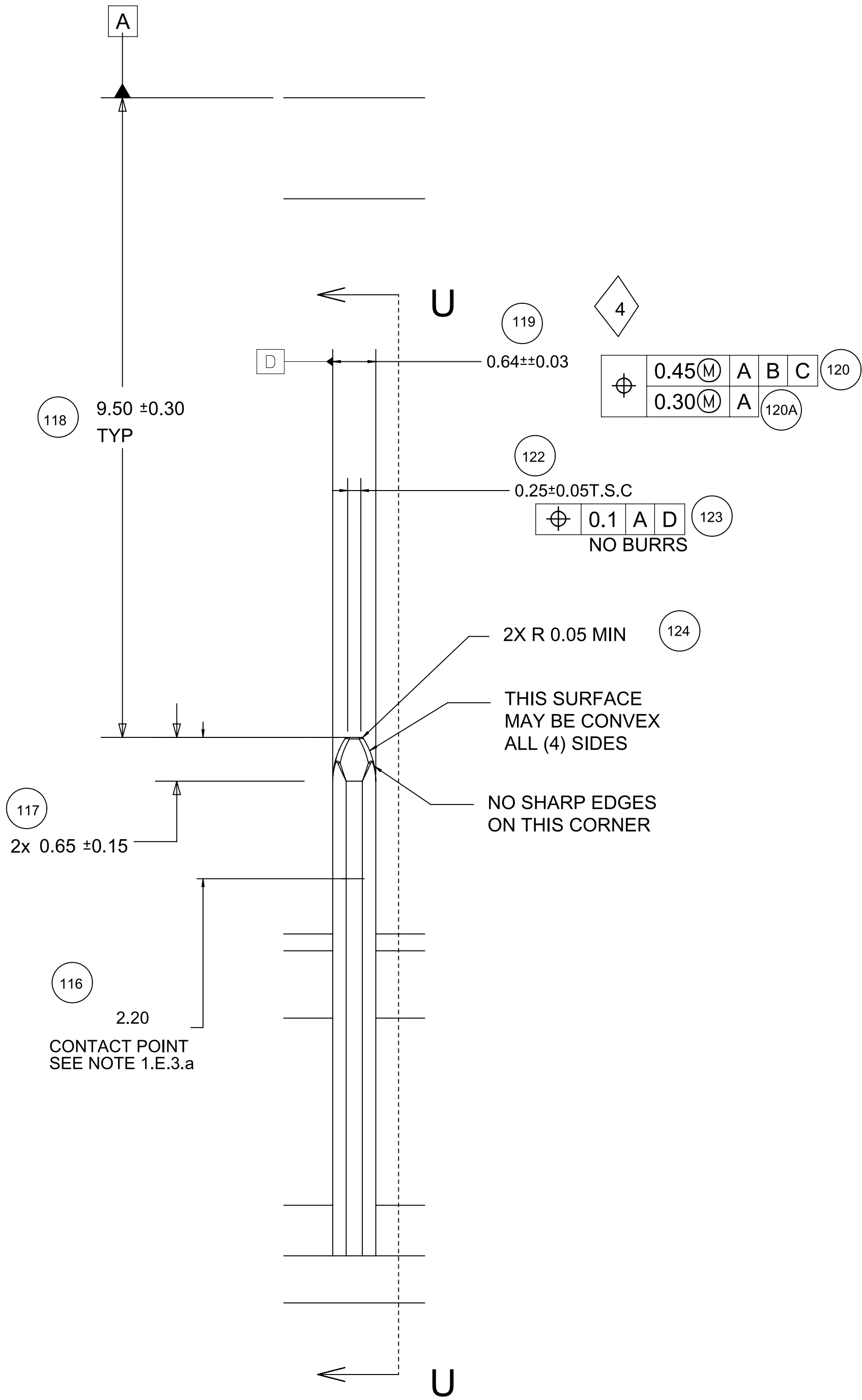
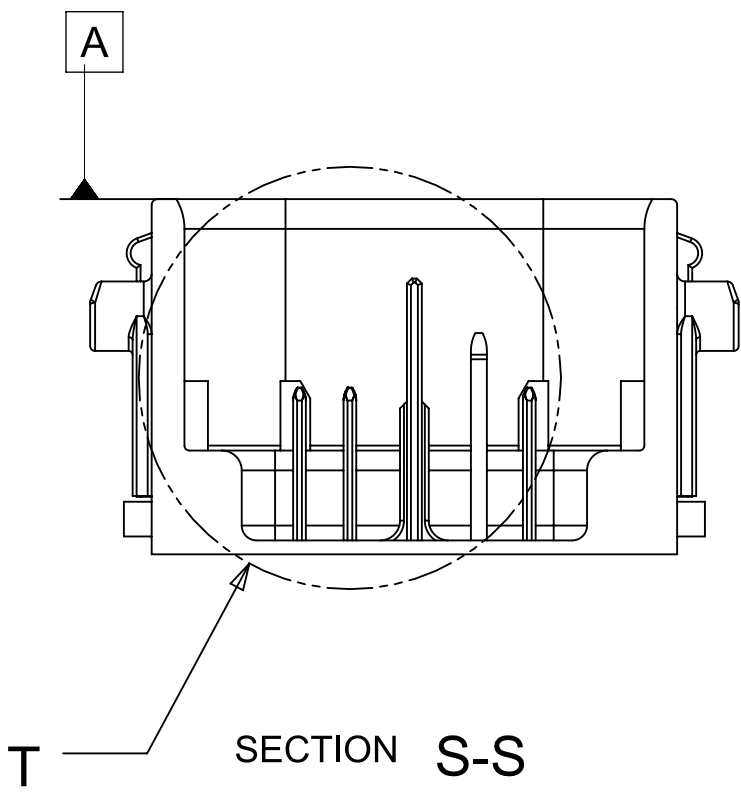
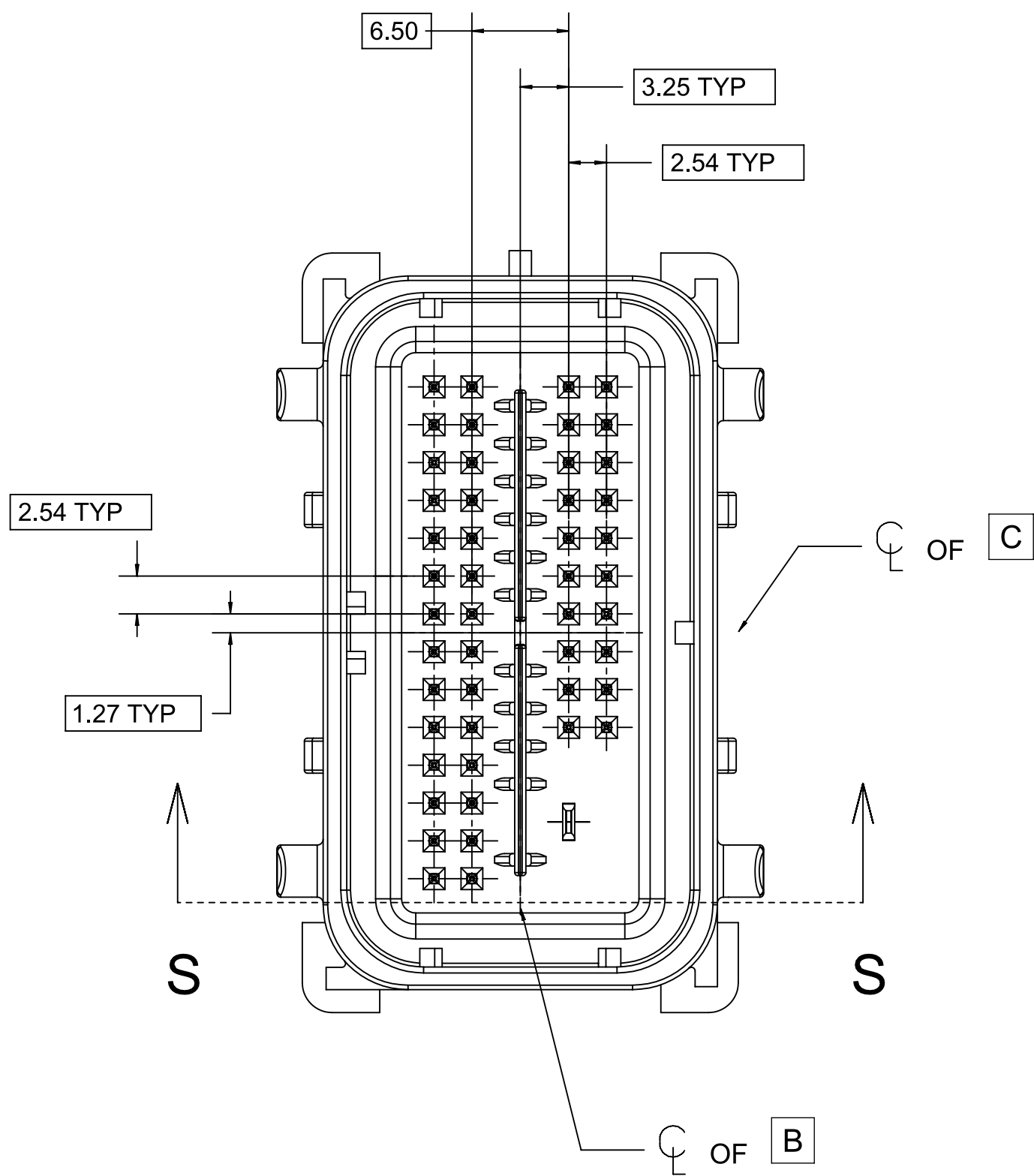


VIEW N

ENTER DESCRIPTION EC NO: UAU2017-0870 DRWN: ACHITALIA 2017/03/27 CHKD: VKOSHY APPR: VKOSHY 2017/03/29 REV		DESCRIPTION	QUALITY SYMBOLS	GENERAL TOLERANCES (UNLESS SPECIFIED)			DIMENSION STYLE MM ONLY		SCALE 1:1	DESIGN UNITS METRIC		THIRD ANGLE PROJECTION
				 =0  =0  =0			DRAWN BY SKRAJENDRANA	DATE 2016/12/15	TITLE ICD - MX123 18/49/56CKT INTERFACE CONNECTION DRW MOLEX 			
							CHECKED BY VKOSHY	DATE 2016/12/15				
							APPROVED BY VKOSHY	DATE 2017/03/03				
							MATERIAL NO.	DOCUMENT NO.				
							SEE BOM TABLE			SD-34576-0001		SHEET NO. 17 OF 22
DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS			SIZE D		THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION							



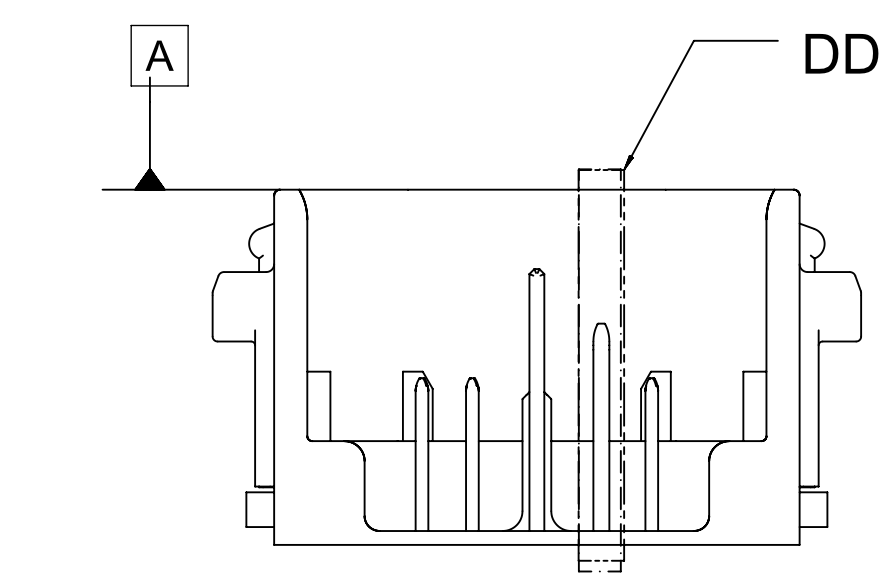
ENTER DESCRIPTION EC NO: UAU2017-0870 DRWN: ACHITALIA 2017/03/27 CHKD: A6 APPR: VKOSHY 2017/03/29			DESCRIPTION REV	QUALITY SYMBOLS	GENERAL TOLERANCES (UNLESS SPECIFIED)			DIMENSION STYLE MM ONLY		SCALE 1:1	DESIGN UNITS METRIC	THIRD ANGLE PROJECTION	TITLE ICD - MX123 18/49/56CKT INTERFACE CONNECTION DRW MOLEX molex		
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					4 PLACES	± ---	± ---	CHECKED BY VKOSHY	DATE 2016/12/15						
					3 PLACES	± ---	± ---	APPROVED BY VKOSHY	DATE 2017/03/03						
					2 PLACES	± 0.13	± ---	MATERIAL NO. SEE BOM TABLE							
					1 PLACE	± 0.25	± ---	DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		SIZE D				THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION	
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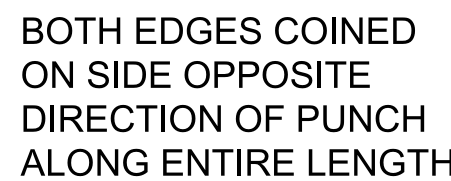
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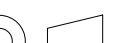
SECTION U-U TYPICAL

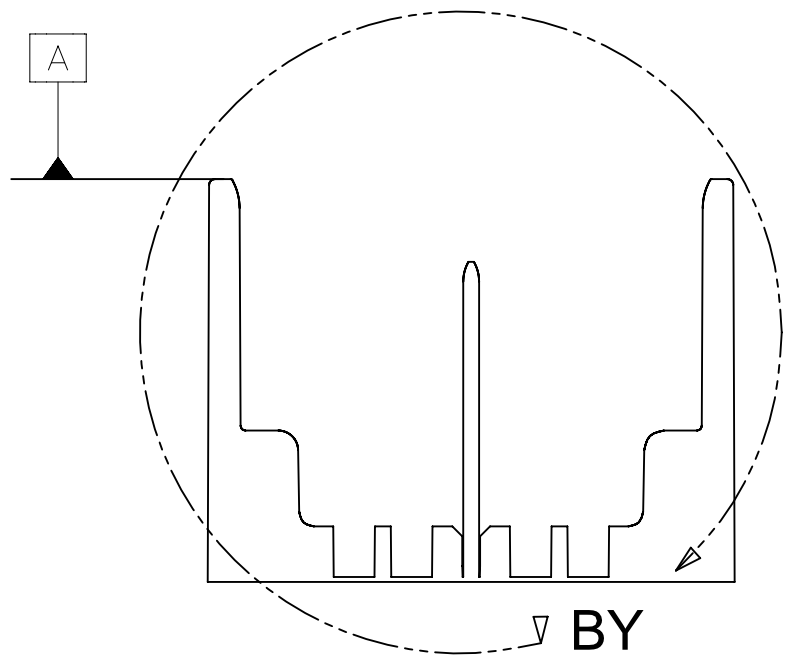
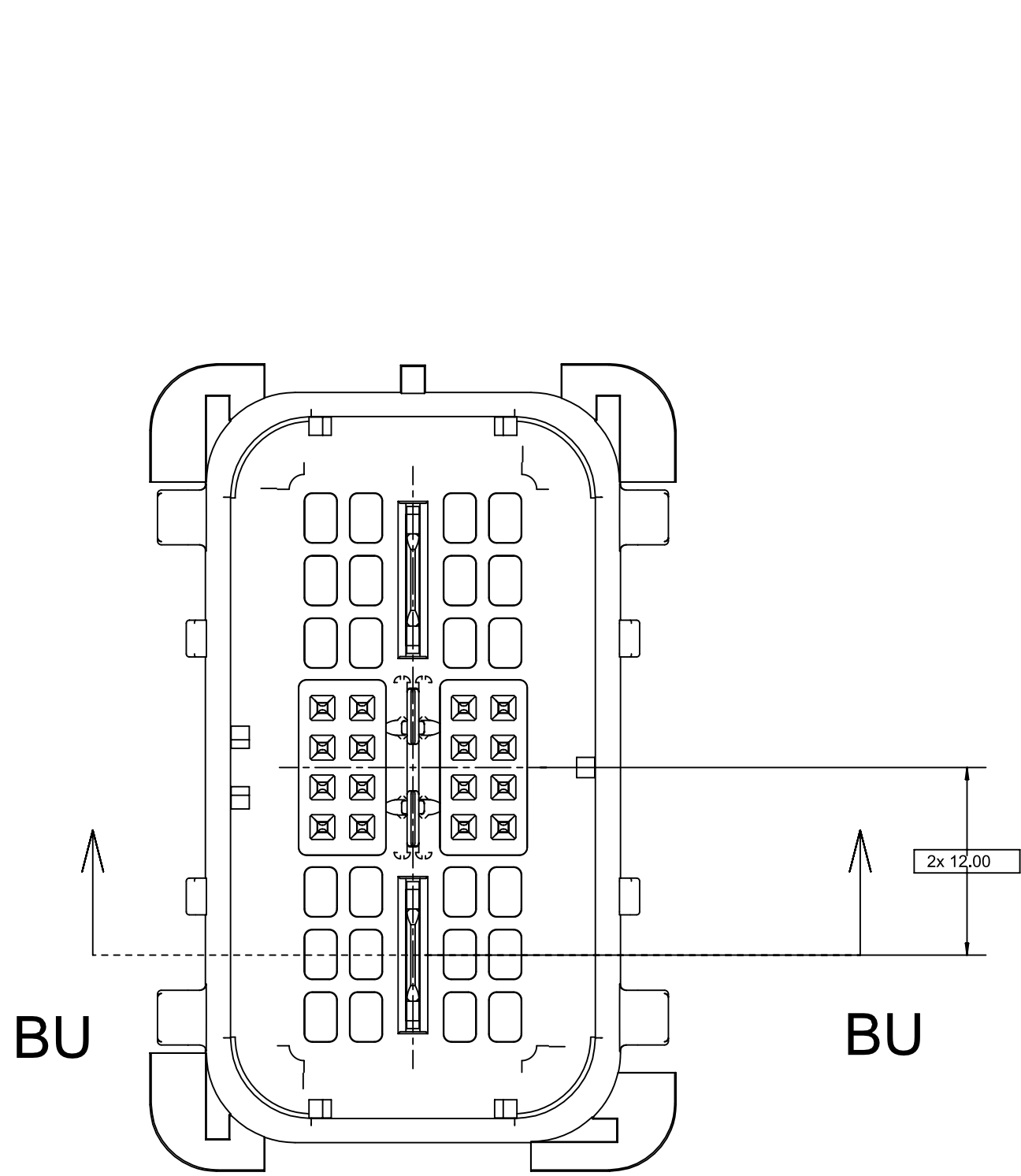
ENTER DESCRIPTION EC NO: UAU2017-0870 DRWN: ACHITALIA 2017/03/27 CHKD: A6 APPR: VKOSHY 2017/03/29			DESCRIPTION	QUALITY SYMBOLS		GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE MM ONLY		SCALE 1:1	DESIGN UNITS METRIC		THIRD ANGLE PROJECTION										
				=0 =0 =0	=0 =0 =0	4 PLACES	± ---	± ---	SKRAJENDRANA	2016/12/15	TITLE ICD - MX123 18/49/56CKT INTERFACE CONNECTION DRW MOLEX molex	DOCUMENT NO. SD-34576-0001	SHEET NO. 19 OF 22										
														3 PLACES	± ---	± ---	CHECKED BY VKOSHY	DATE 2016/12/15					
																			2 PLACES	± 0.13	± ---	APPROVED BY VKOSHY	DATE 2017/03/03
REV				0 PLACE	± ---	± ---	MATERIAL NO.	SEE BOM TABLE		THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION													
				ANGULAR ± 1°		DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		SIZE D															



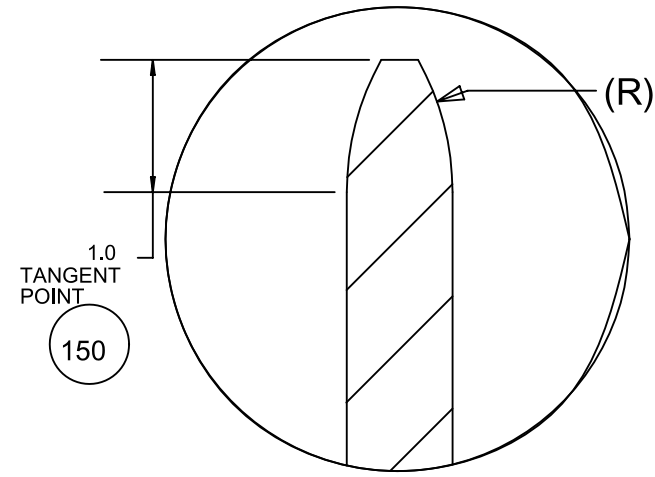
DETAIL DD
TYPICAL



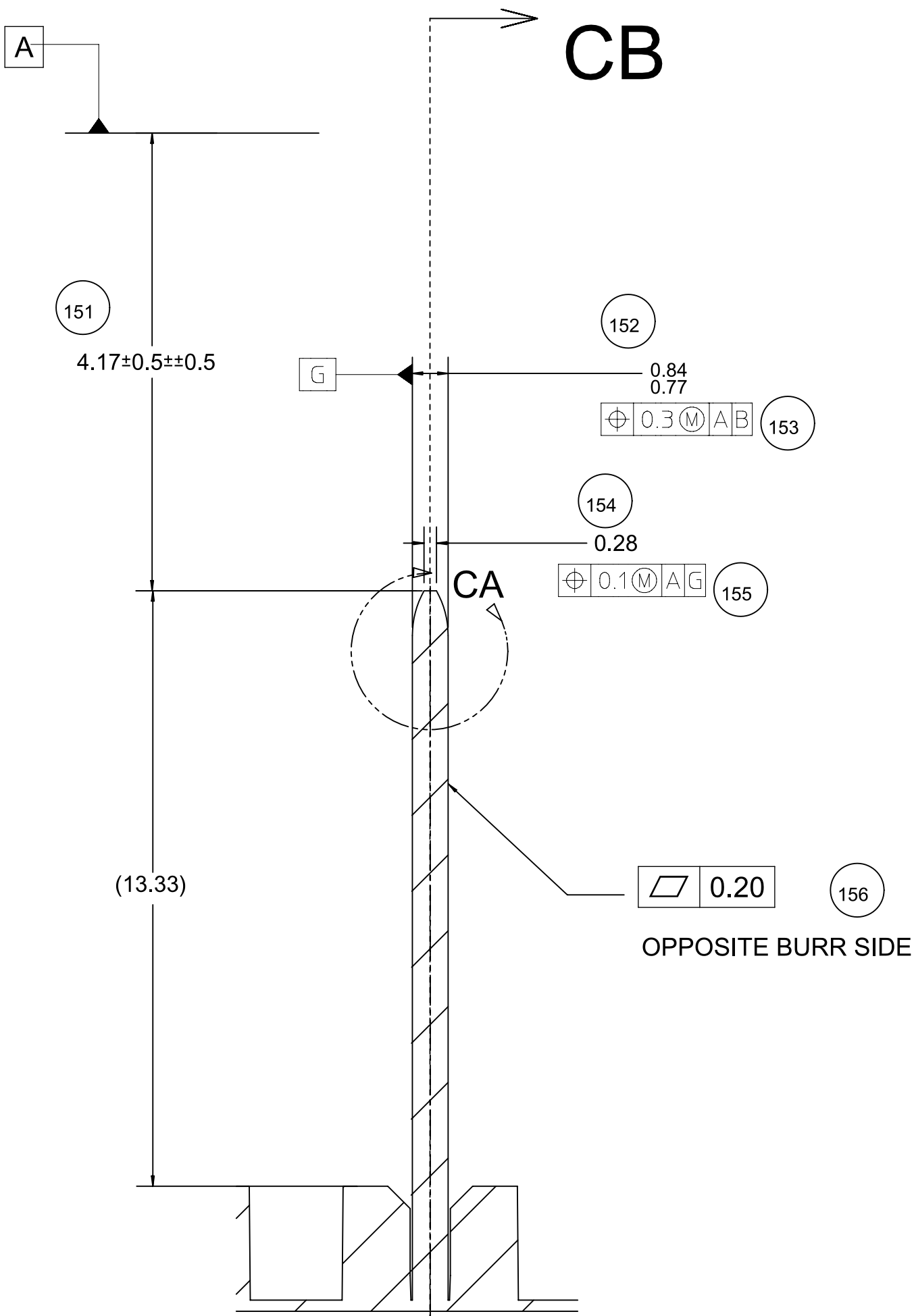
ENTER DESCRIPTION EC NO: UA2017-0870 DRWN: ACHITALIA CHKD: APPR: VKOSHY 2017/03/27 2017/03/29 A6		DESCRIPTION REV	QUALITY SYMBOLS	GENERAL TOLERANCES (UNLESS SPECIFIED)			DIMENSION STYLE MM ONLY		SCALE 1:1	DESIGN UNITS METRIC		THIRD ANGLE PROJECTION
			=0 =0 =0	4 PLACES	± ---	± ---	DRAWN BY	DATE	TITLE ICD - MX123 18/49/56CKT INTERFACE CONNECTION DRW MOLEX molex	DOCUMENT NO. SD-34576-0001 SHEET NO. 20 OF 22		
				3 PLACES	± ---	± ---	CHECKED BY	DATE				
				2 PLACES	± 0.13	± ---	VKOSHY	2016/12/15				
				1 PLACE	± 0.25	± ---	APPROVED BY	DATE				
				0 PLACE	± ---	± ---	VKOSHY	2017/03/03				
			ANGULAR ± 1°			MATERIAL NO.						
			DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS			SEE BOM TABLE						
						SIZE D		THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION				



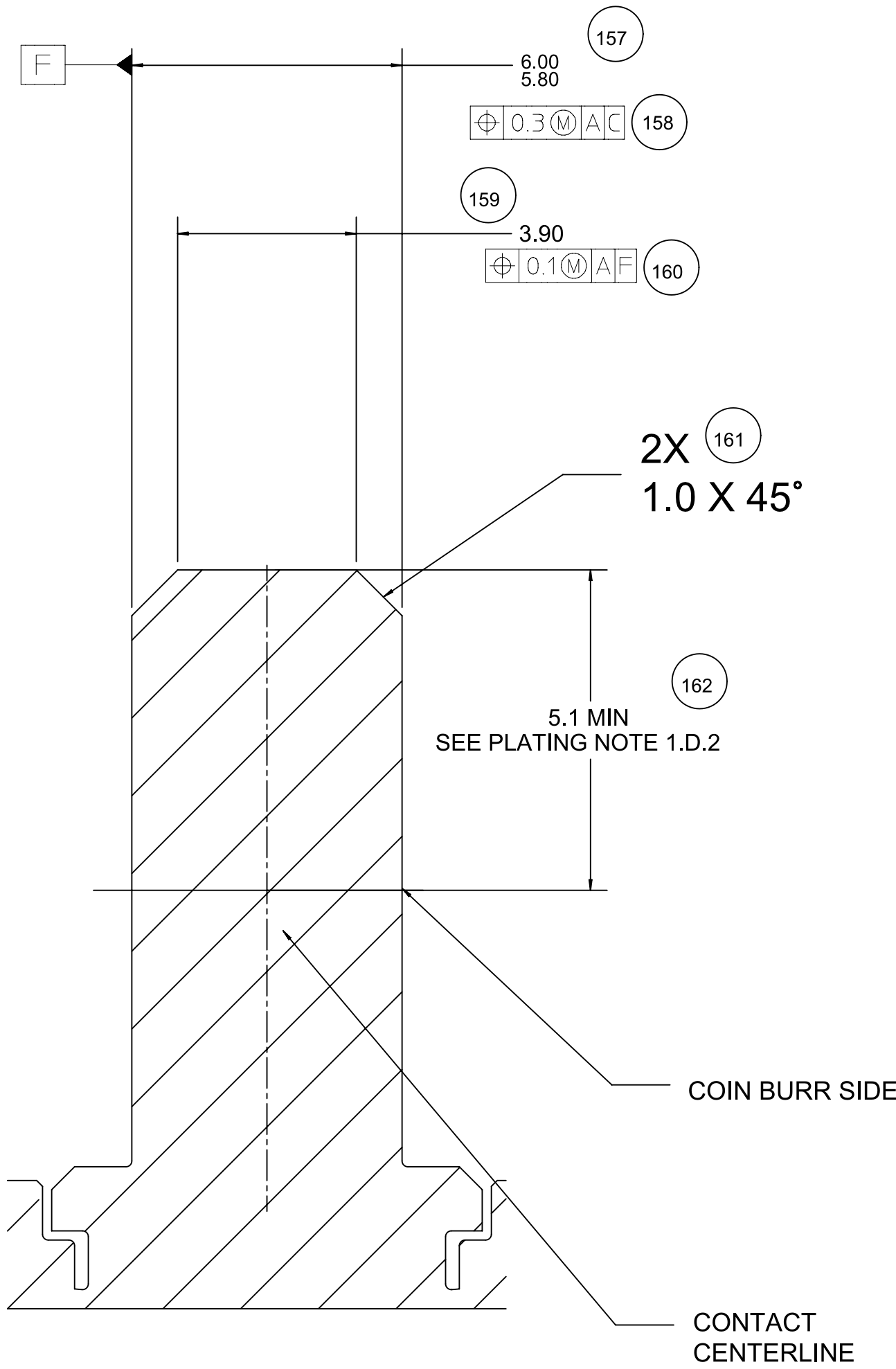
SECTION BU-BU



VIEW CA
SCALE 10:1



VIEW BY



SECTION CB-CB

ENTER DESCRIPTION EC NO: UAU2017-0870 DRWN: ACHITALIA 2017/03/27 CHKD: A6 APPR: VKOSHY 2017/03/29		DESCRIPTION REV	QUALITY SYMBOLS		GENERAL TOLERANCES (UNLESS SPECIFIED)				DIMENSION STYLE MM ONLY		SCALE 1:1	DESIGN UNITS METRIC		THIRD ANGLE PROJECTION	
			=0		mm		INCH		DRAWN BY SKRAJENDRANA		DATE 2016/12/15	TITLE ICD - MX123 18/49/56CKT INTERFACE CONNECTION DRW MOLEX			
			=0		4 PLACES	± ---	± ---	CHECKED BY VKOSHY		DATE 2016/12/15					
			=0		3 PLACES	± ---	± ---	APPROVED BY VKOSHY		DATE 2017/03/03					
			=0		2 PLACES	± 0.13	± ---	DOCUMENT NO. SD-34576-0001		SHEET NO. 21 OF 22					
			=0		1 PLACE	± 0.25	± ---	SEE BOM TABLE							
			=0		0 PLACE	± ---	± ---	THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION							
			ANGULAR ± 1°				MATERIAL NO.								
			DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS				SIZE D								

