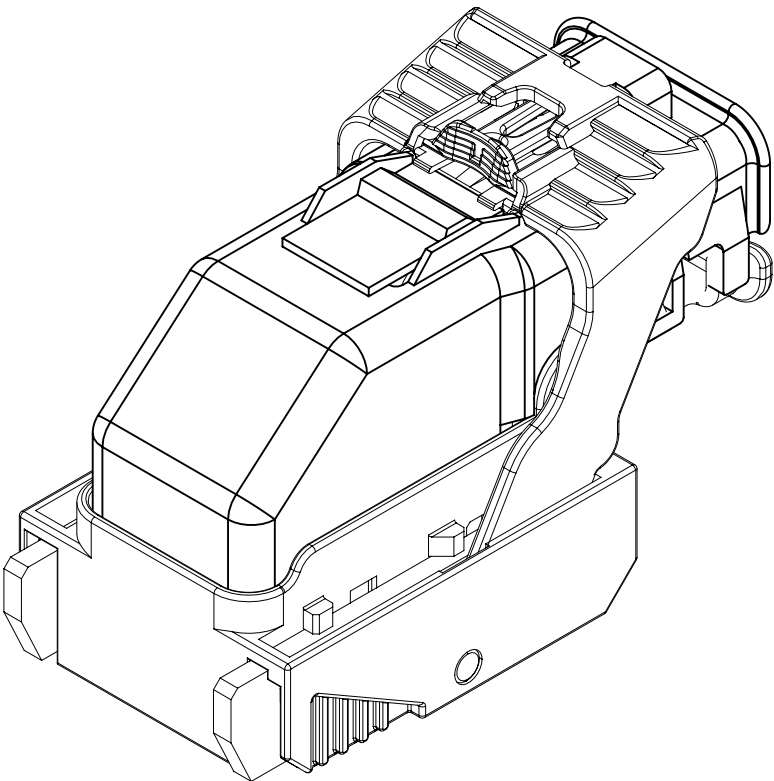


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ISO VIEW

		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
		ST	REV	PD1	
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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 ON 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

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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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:

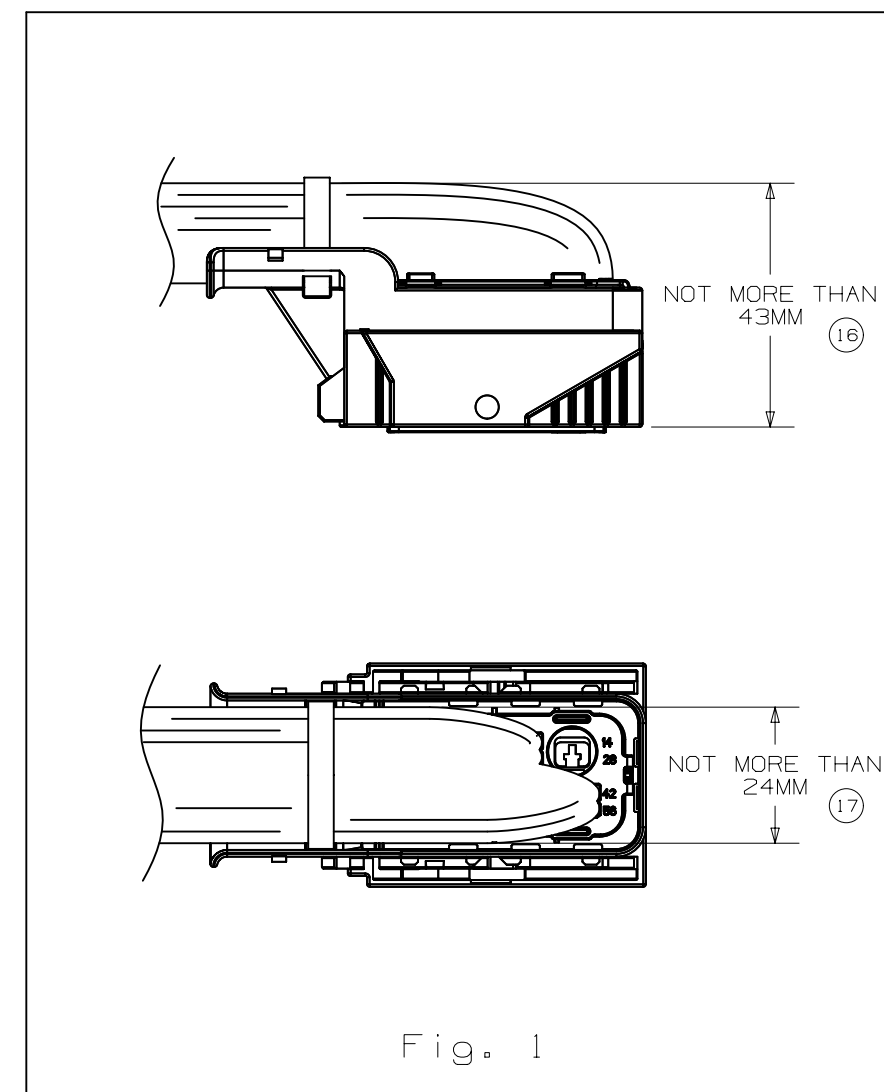
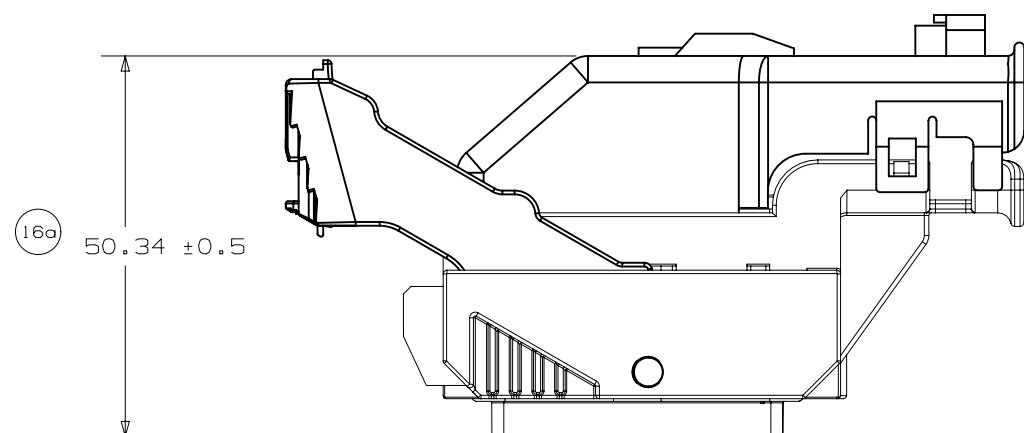
ALL TESTING DONE IN ACCORDANCE WITH USCAR-2 REV5 SECTION 5.3

- 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

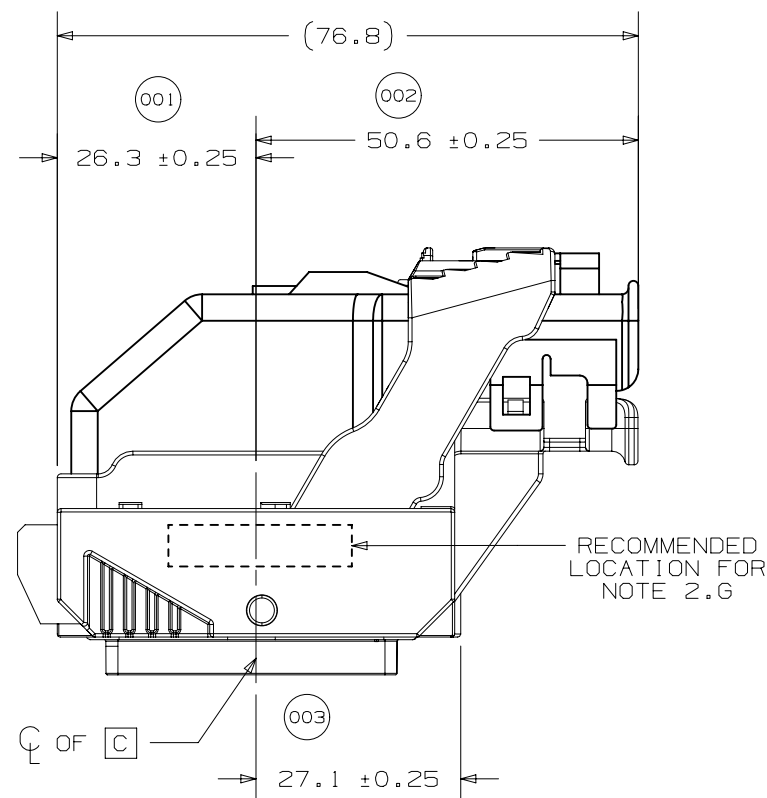


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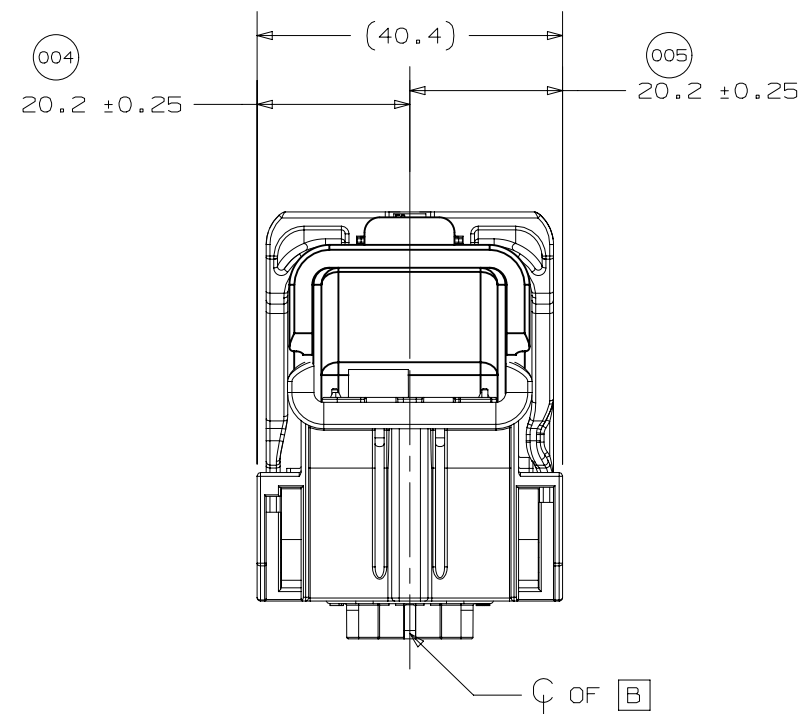
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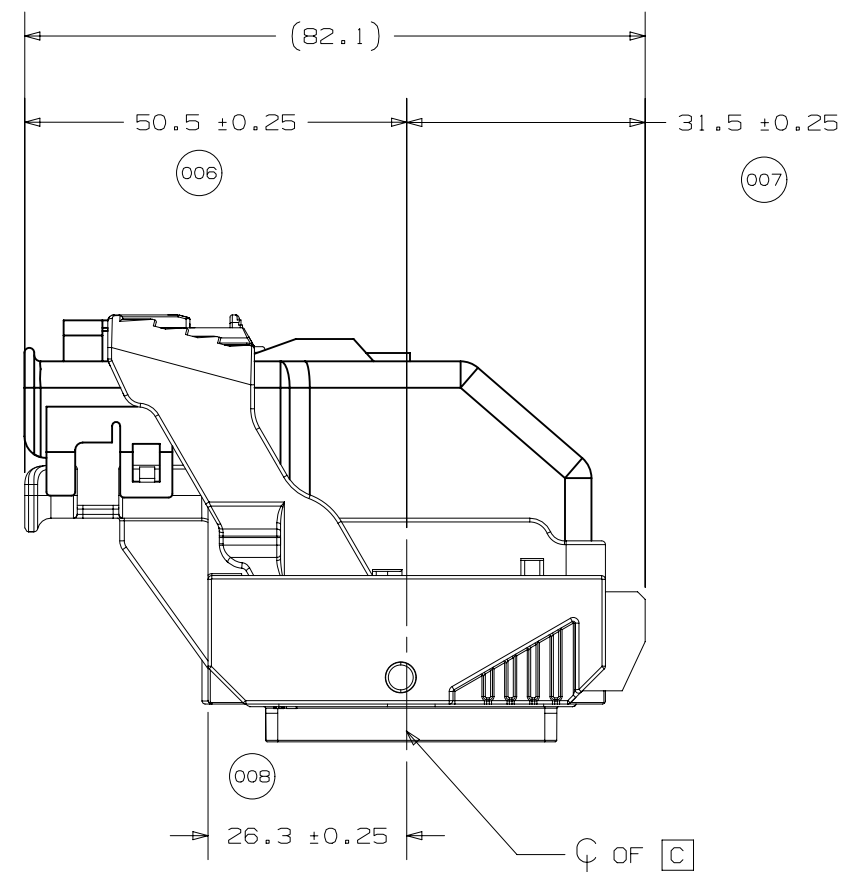
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WIRE DRESS OPTION 0 SHOWN



WIRE DRESS OPTION 0 SHOWN



WIRE DRESS OPTION 9 SHOWN



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LOCATION AND PACKAGING DIMENSIONS
REFERENCING INTERFACE DATUMS B & C

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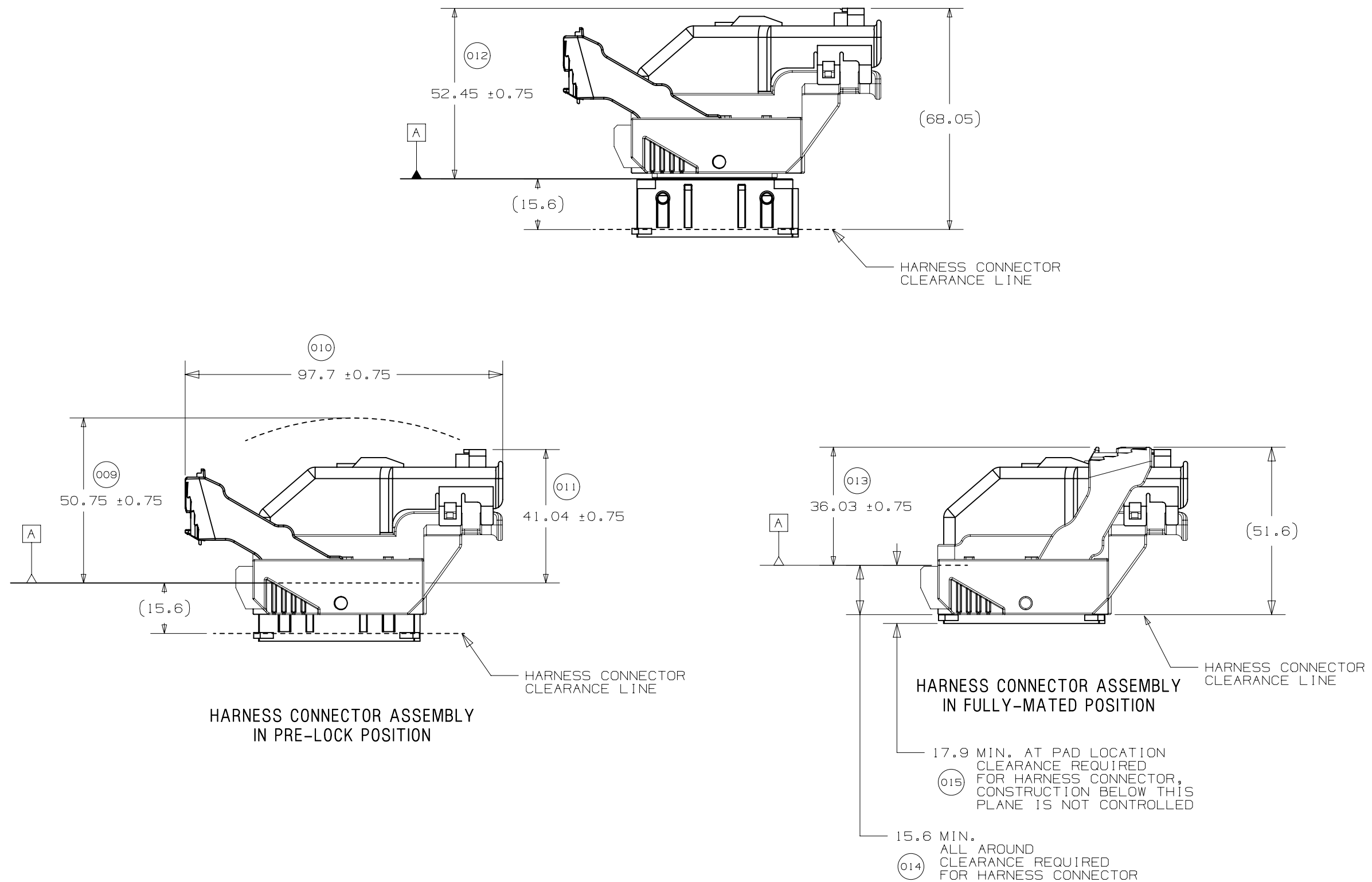
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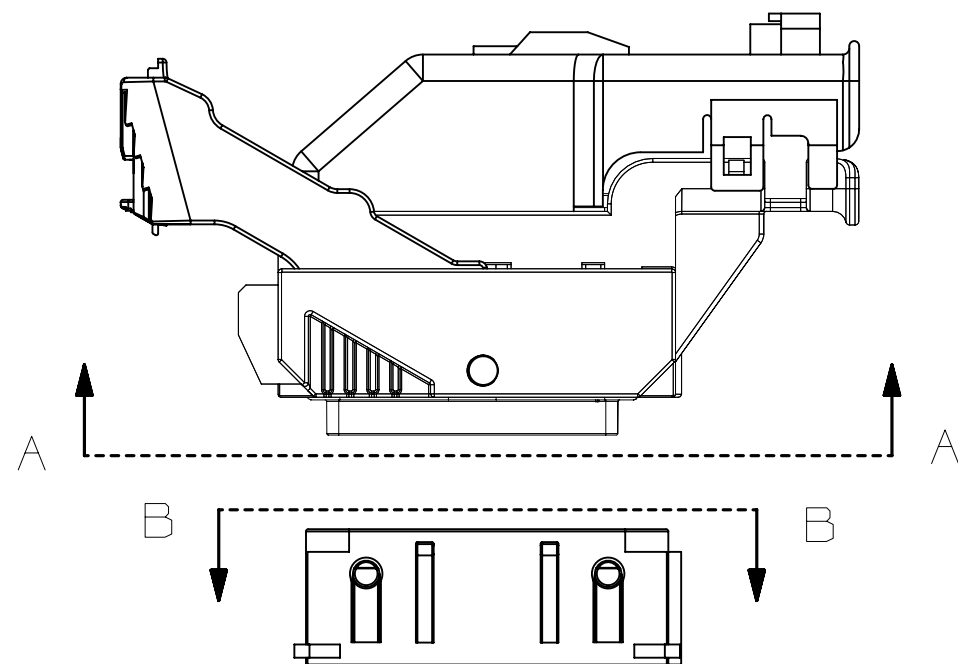
ST REV PDI

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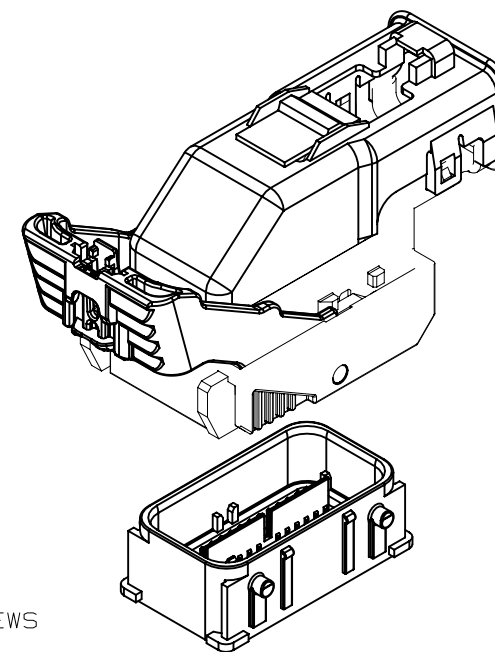
PAGE NUMBER

9 of 22

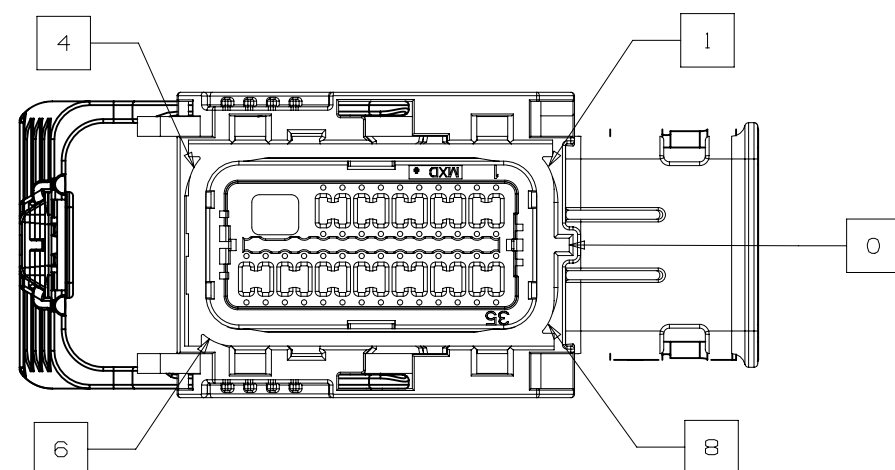




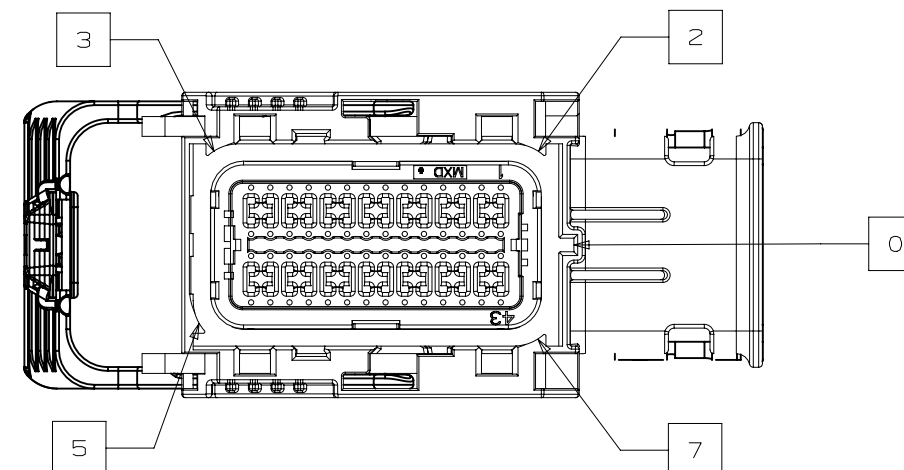
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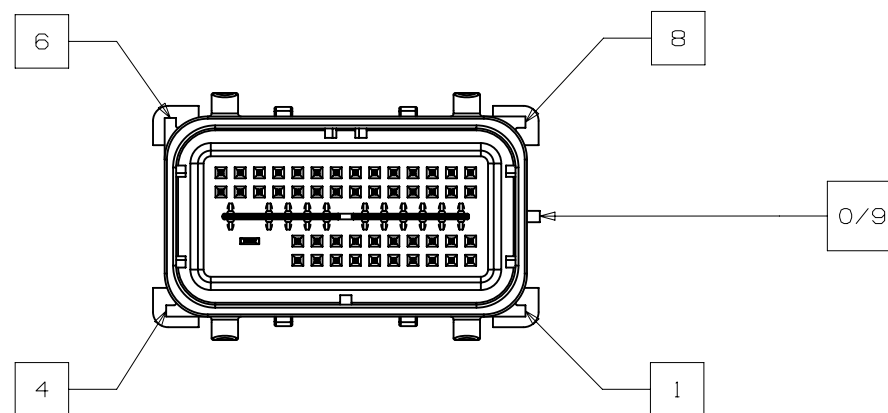
NOTE: REFERENCE THE COMPONENT TABLE
FOR KEY OPTIONS AND CONFIGURATIONS



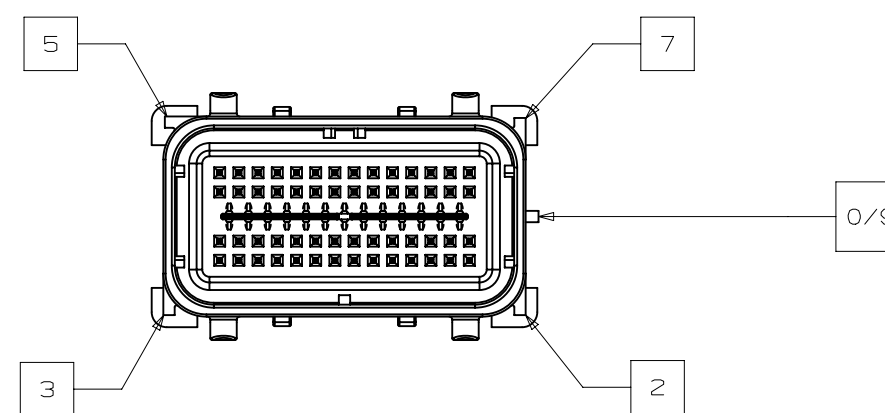
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SECTION A-A
KEY OPTION K SHOWN



SECTION B-B
KEY OPTION B SHOWN



SECTION B-B
KEY OPTION K SHOWN

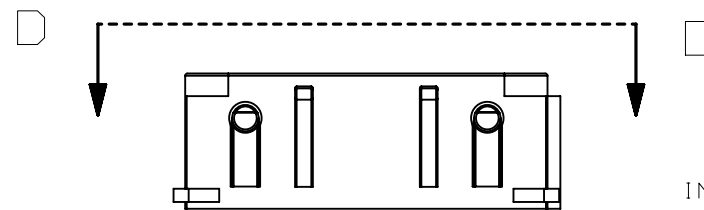
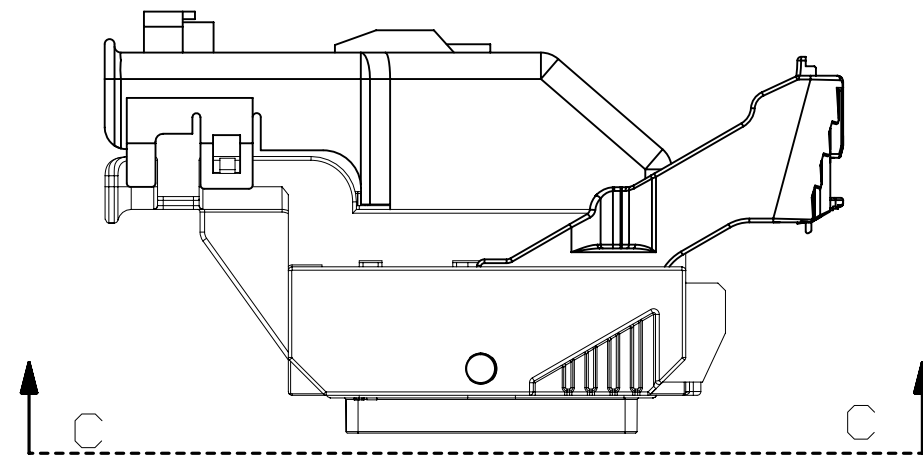


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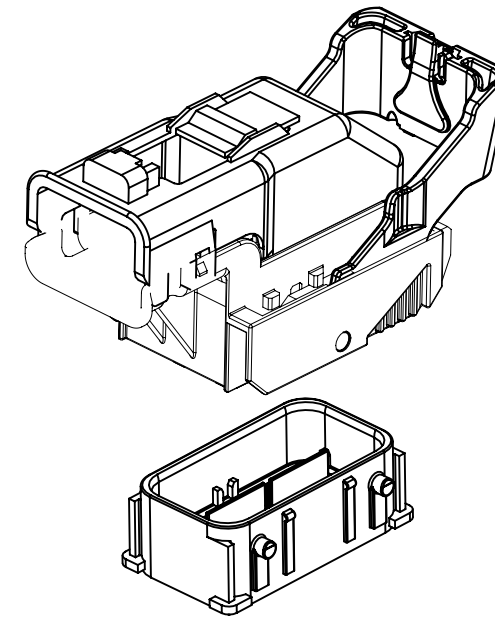
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12642694

DWG STATUS		
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R	001	

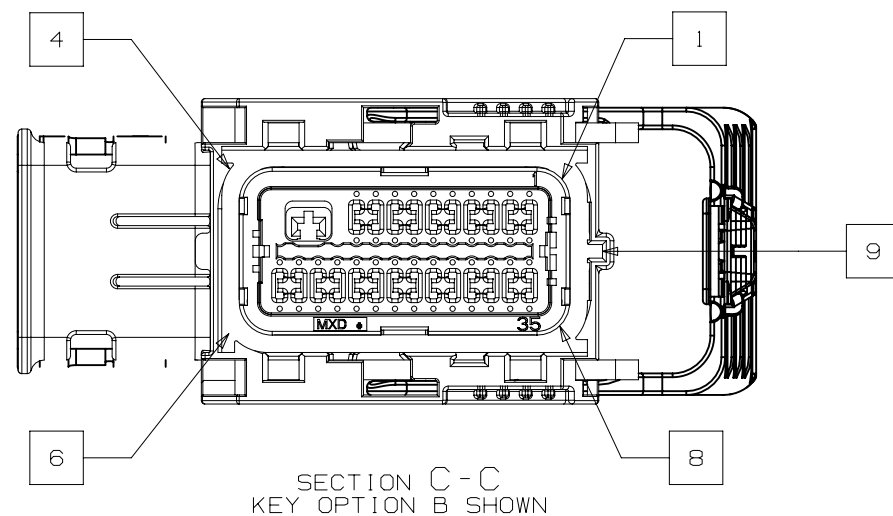
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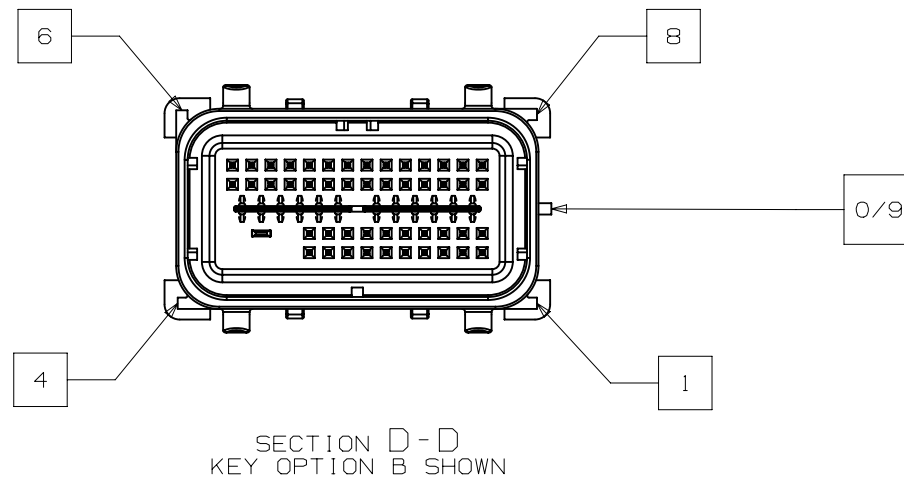
INTERFACE SIDE SHOWN ON ALL SECTION VIEWS



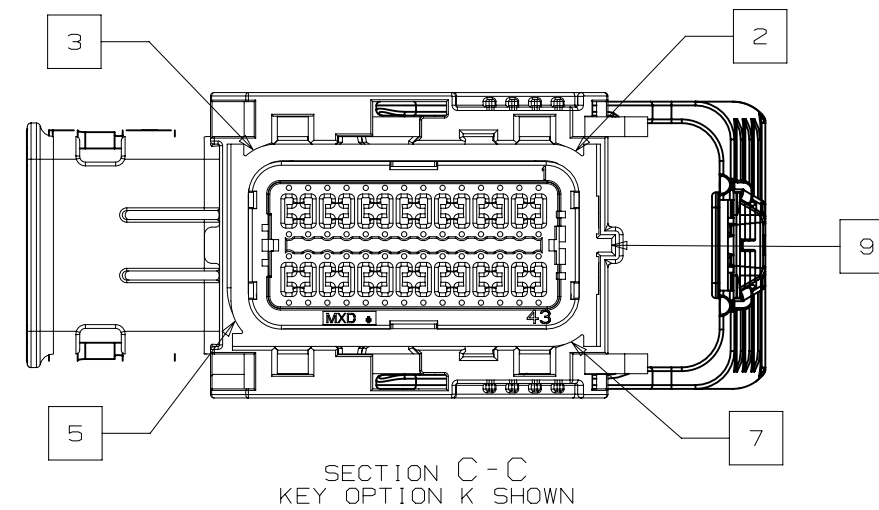
NOTE: REFERENCE THE COMPONENT TABLE
FOR KEY OPTIONS AND CONFIGURATIONS



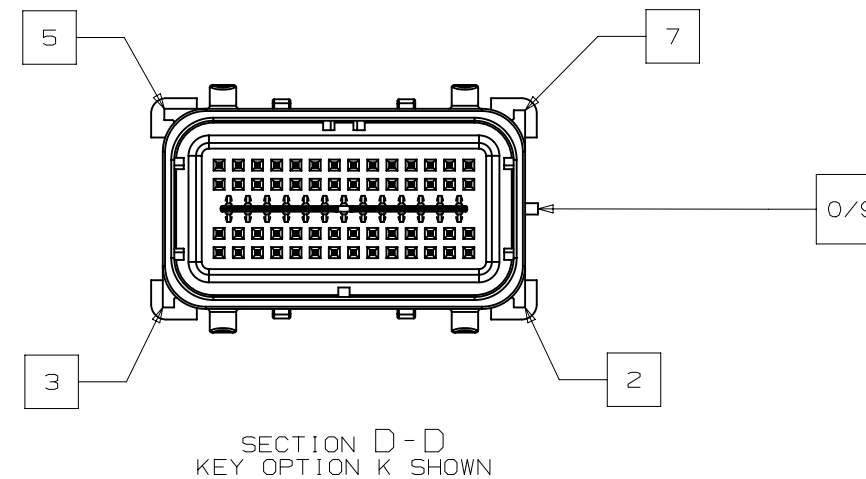
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SECTION D-D
KEY OPTION B SHOWN



SECTION C-C
KEY OPTION K SHOWN



SECTION D-D
KEY OPTION K SHOWN

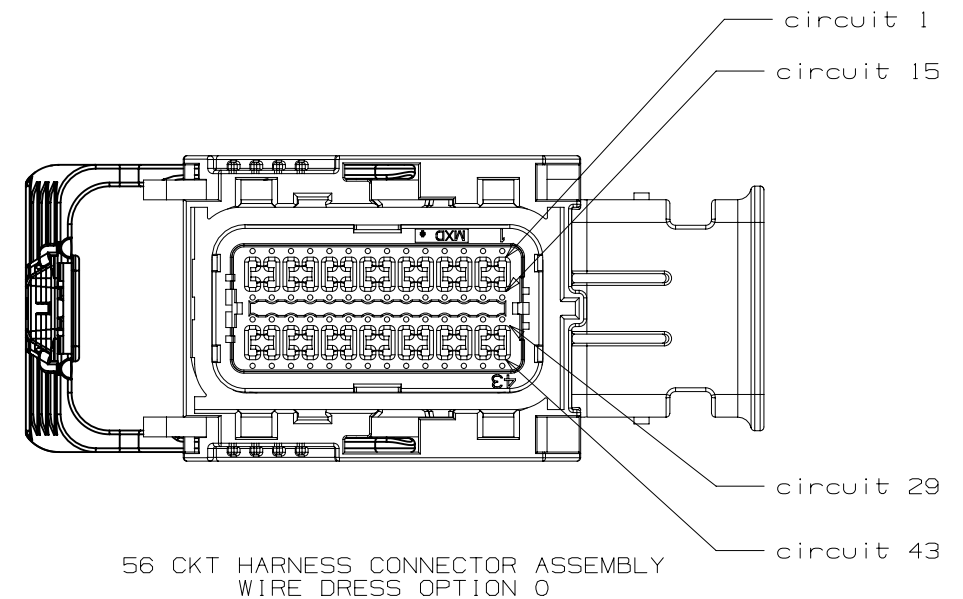
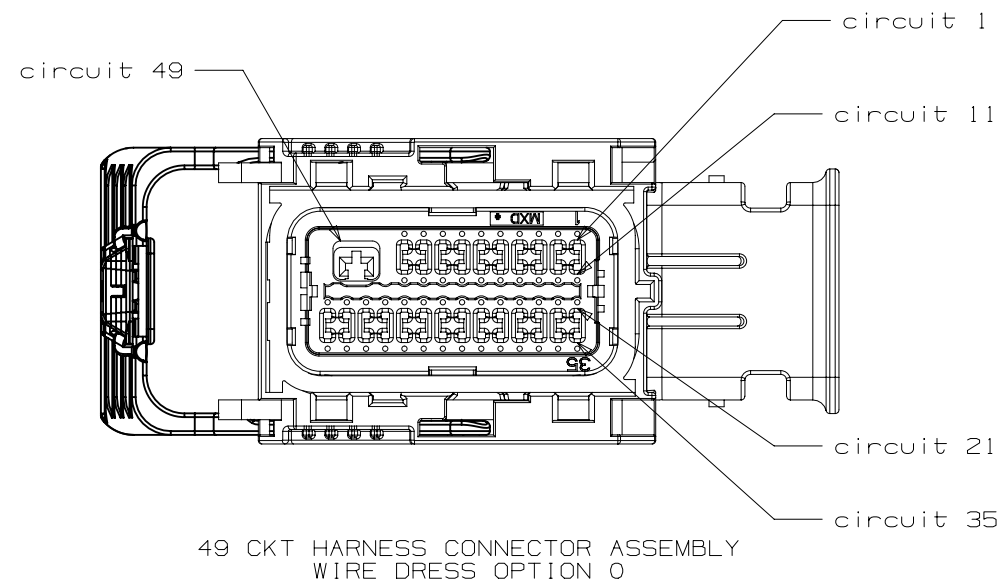


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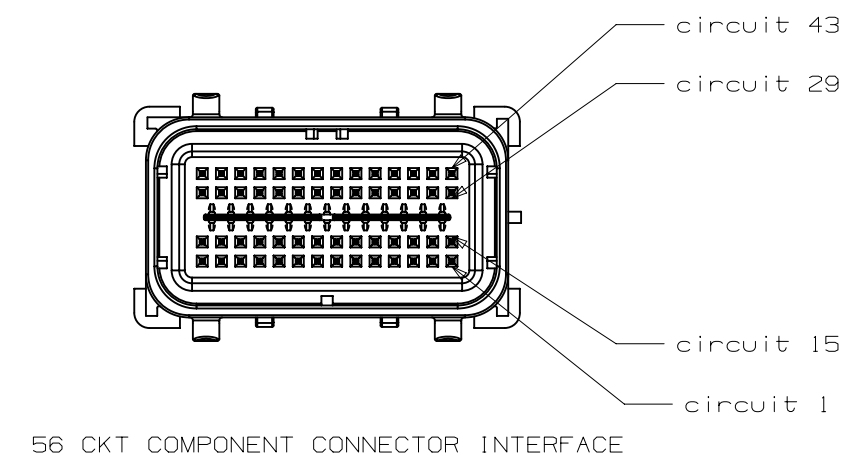
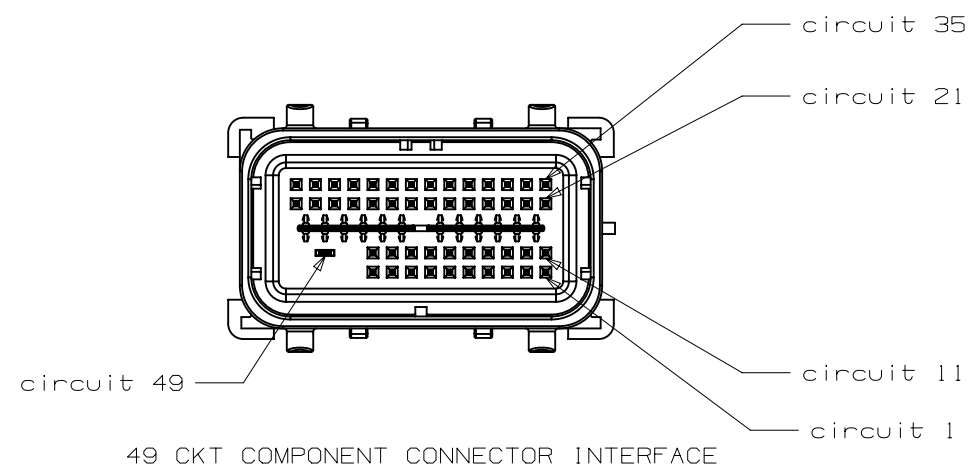
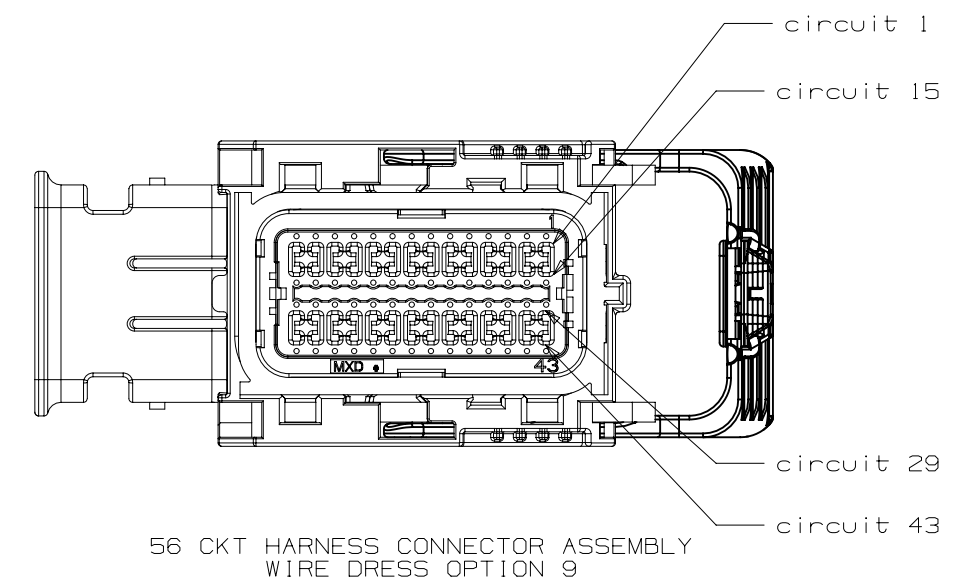
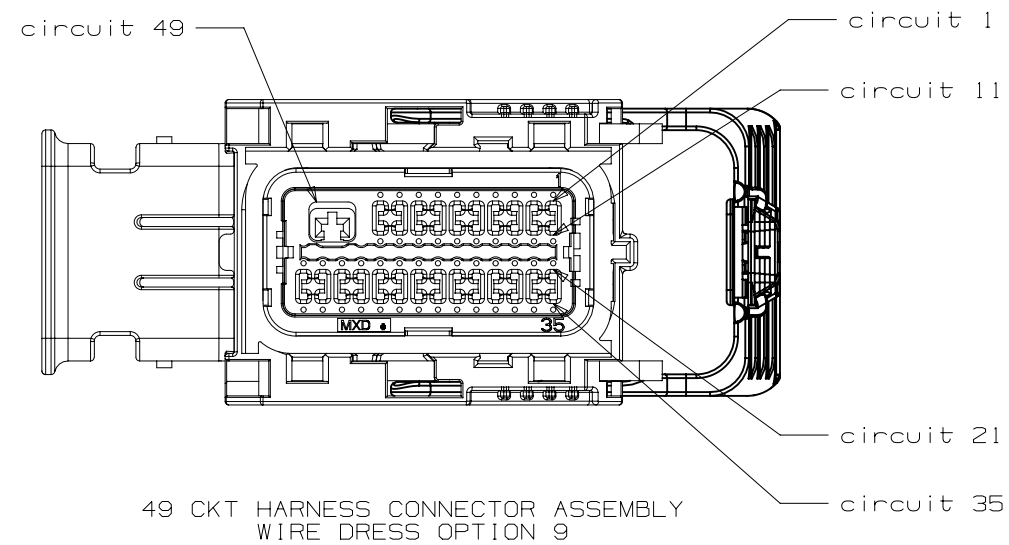
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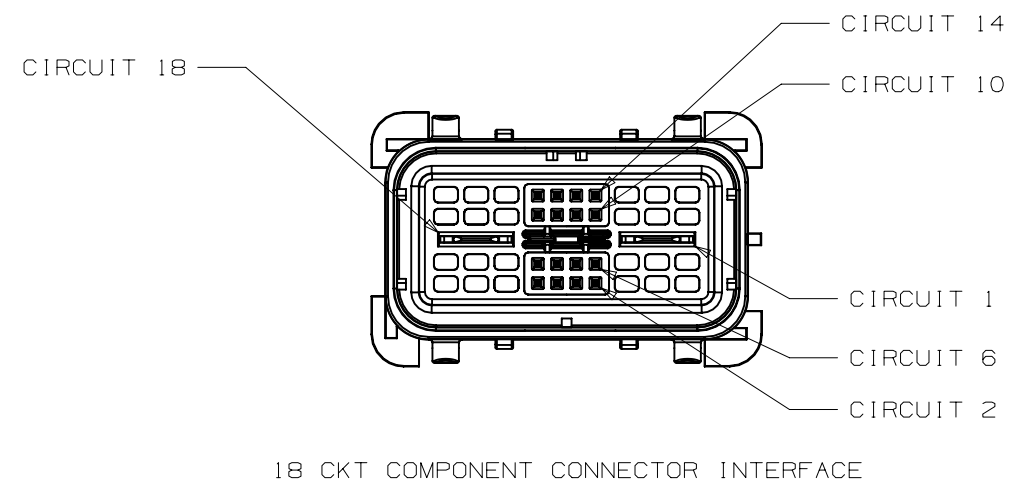
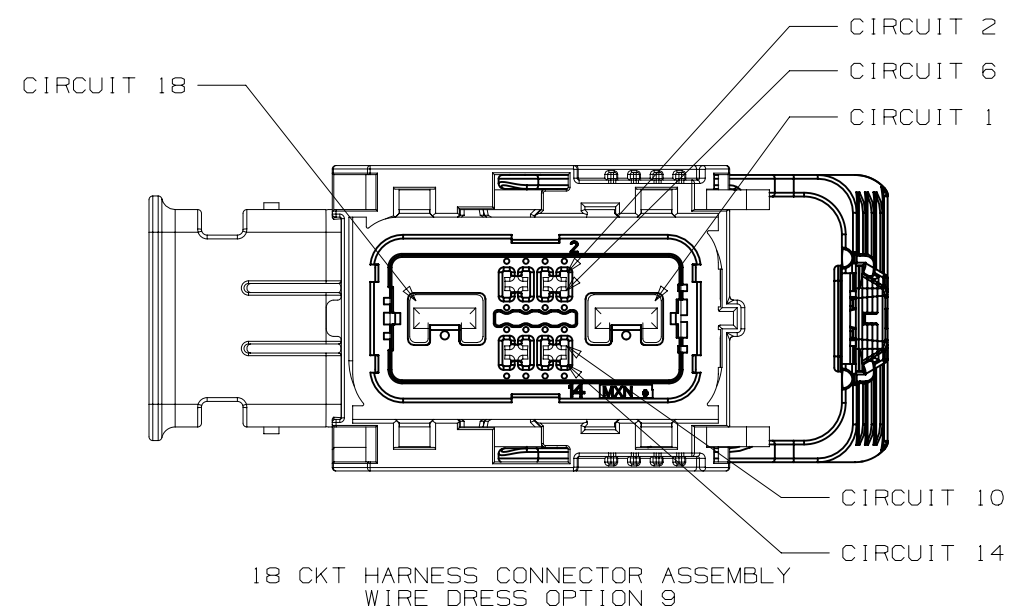
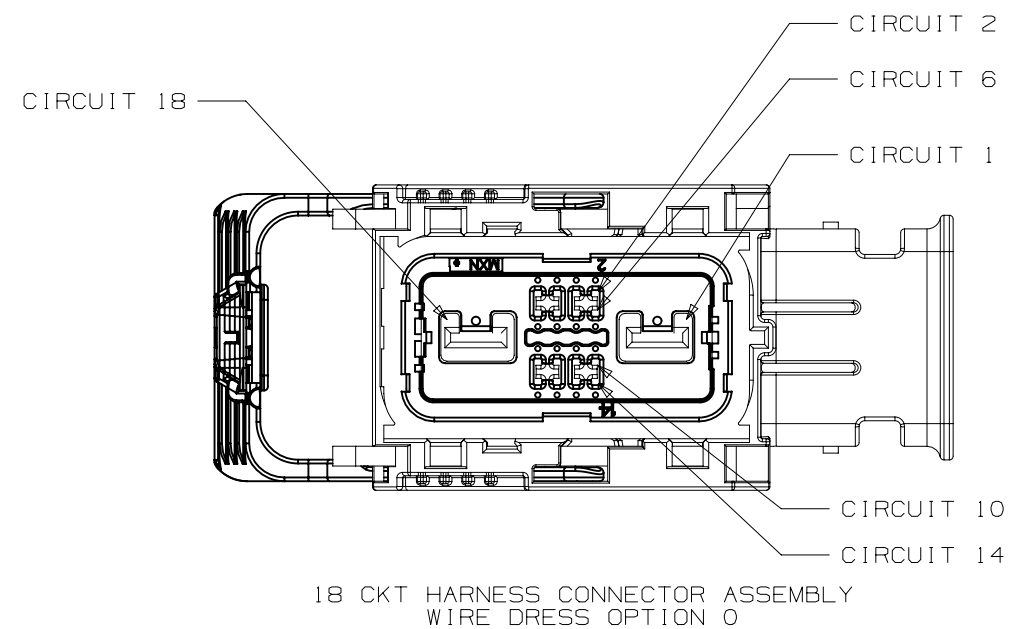
DWG STATUS		
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INTERFACE SIDE SHOWN ON ALL VIEWS





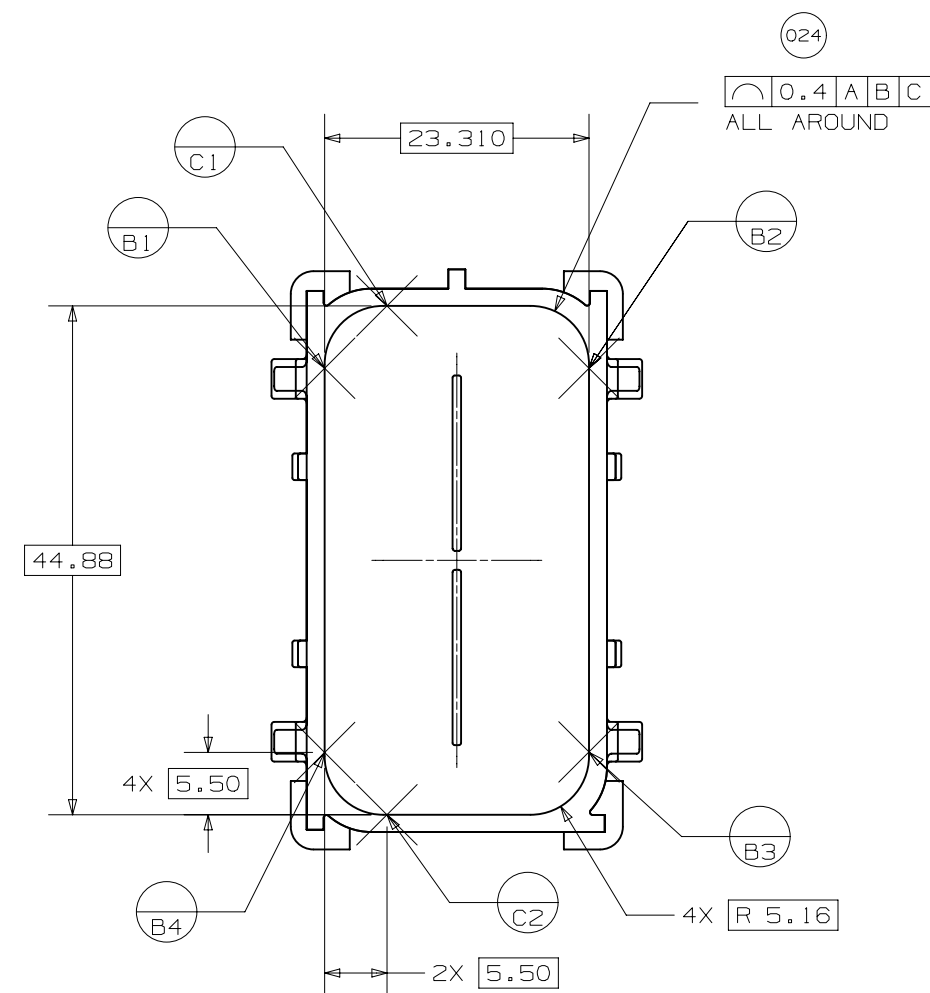
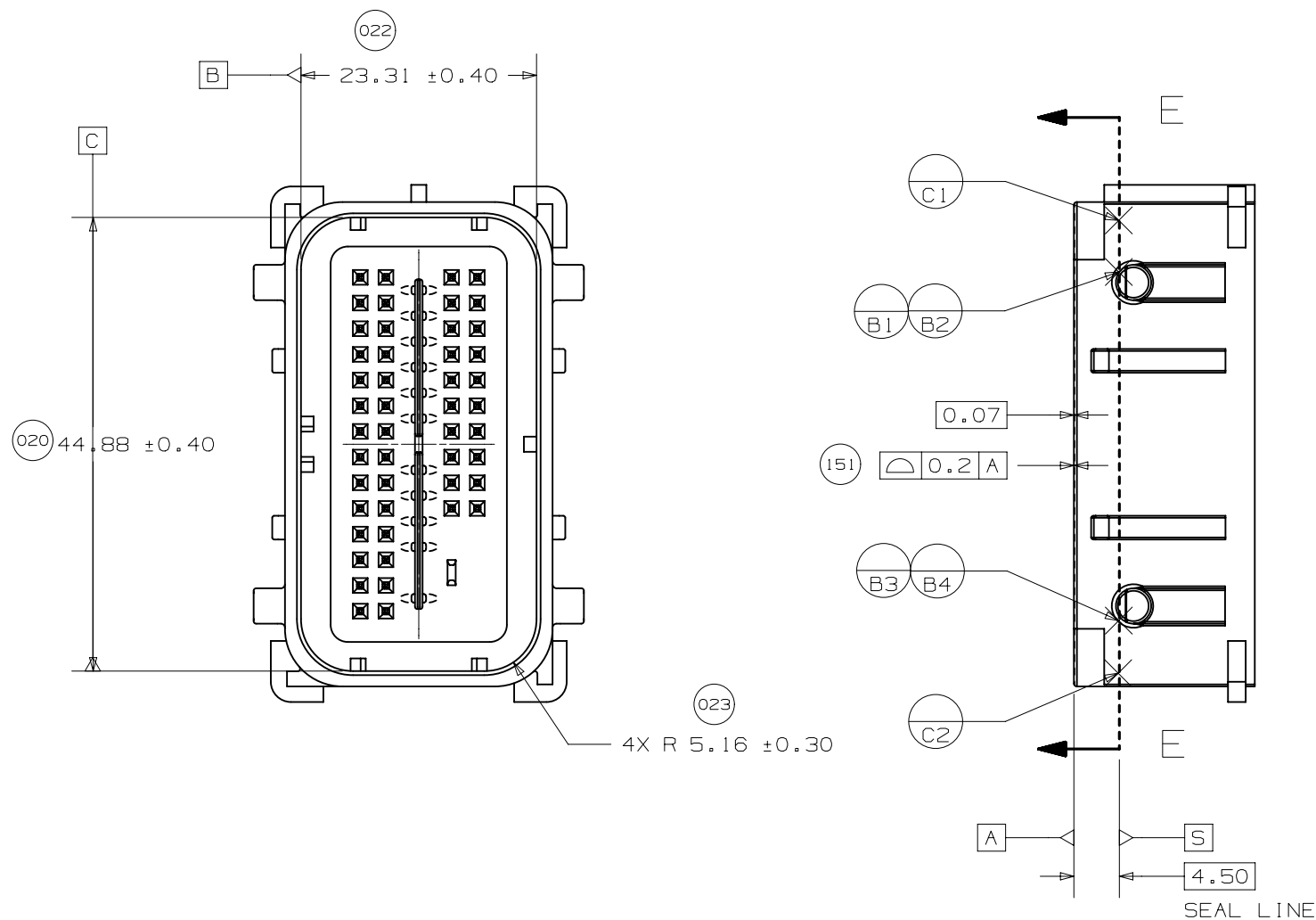
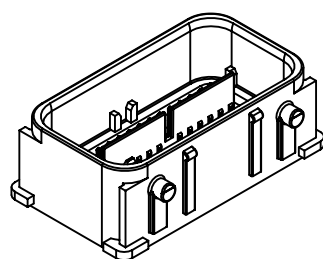
INTERFACE SIDE SHOWN ON ALL VIEWS



PAGE TITLE
CIRCUIT CONFIGURATIONS

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12642694

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SECTION E-E
(AT SEAL LINE)

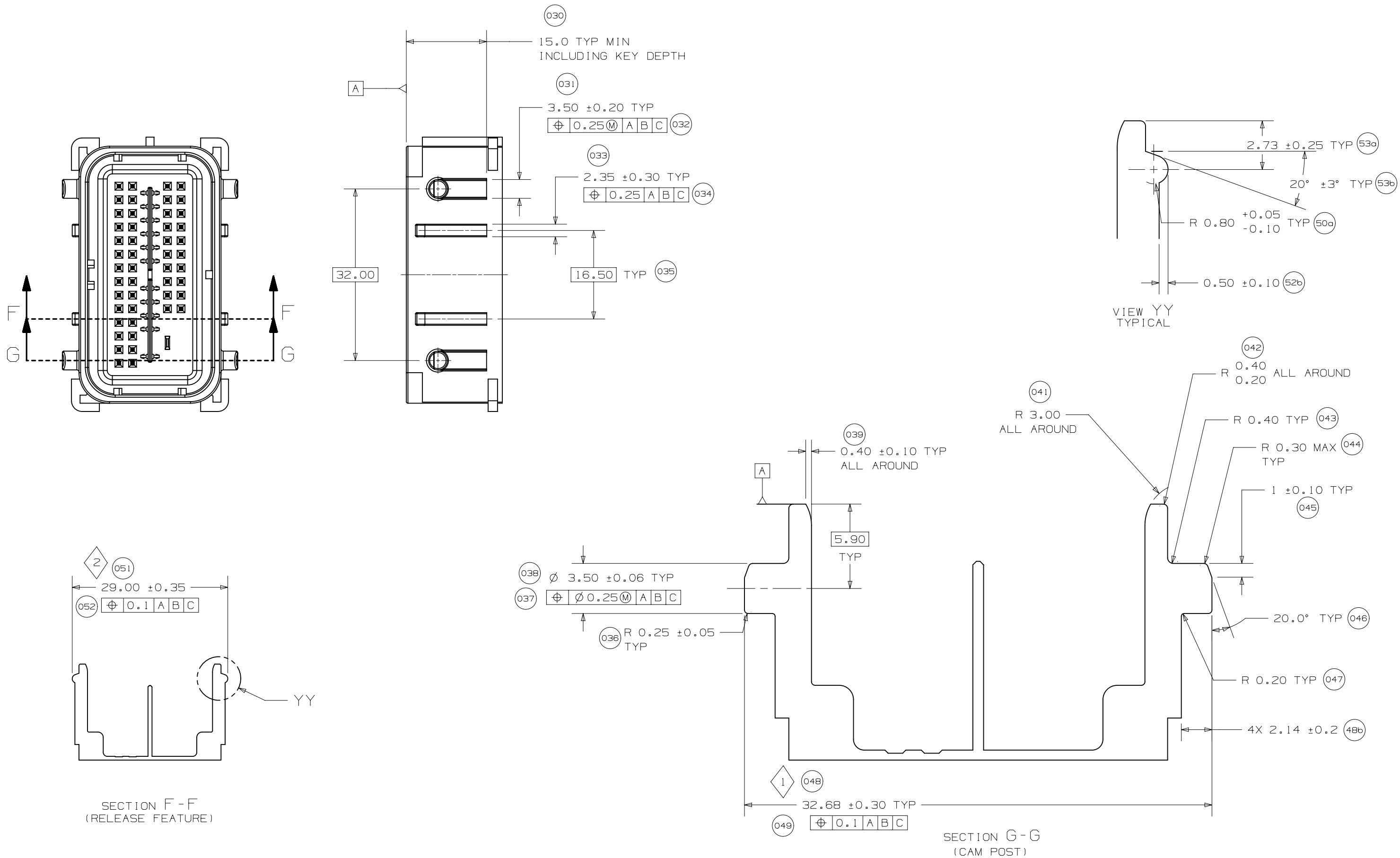
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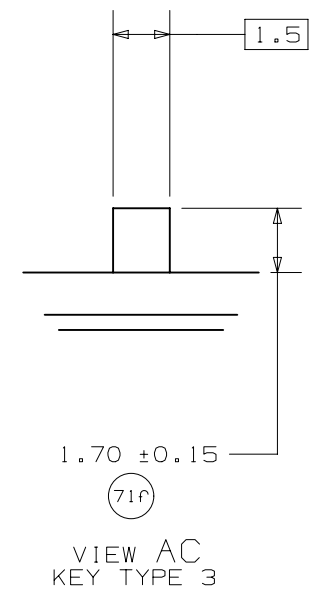
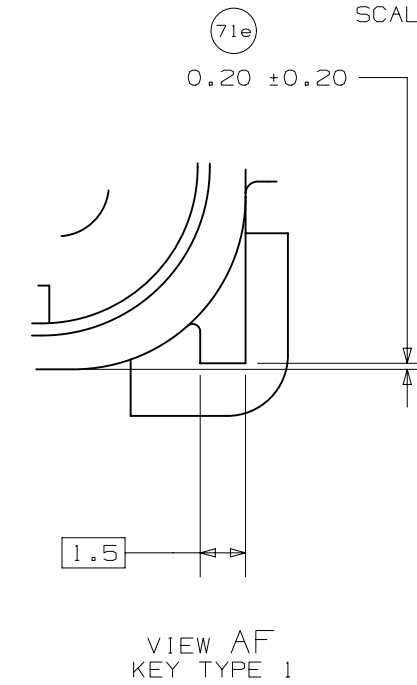
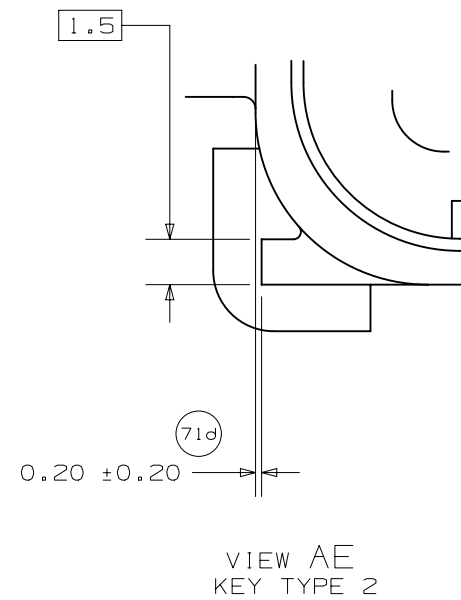
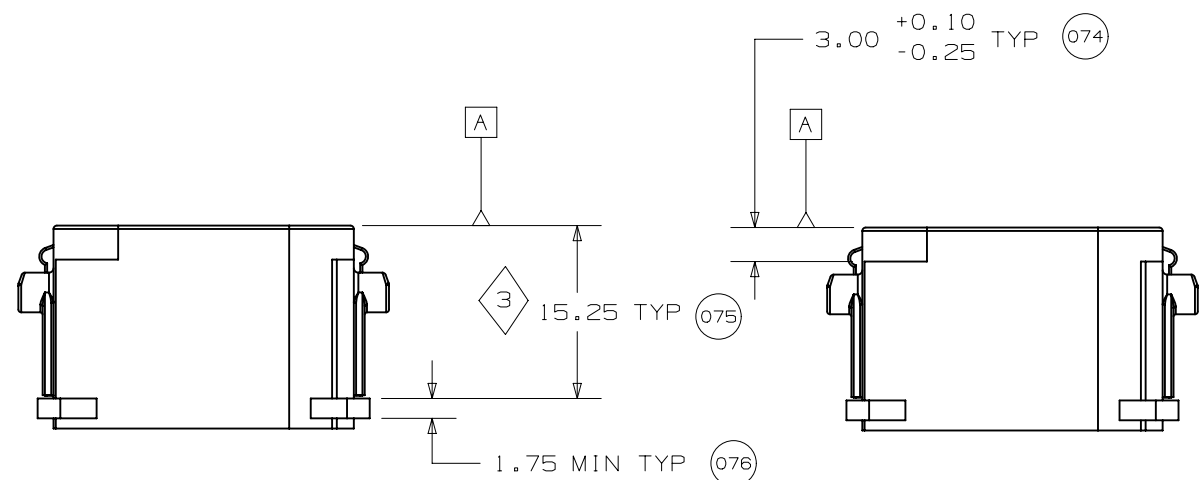
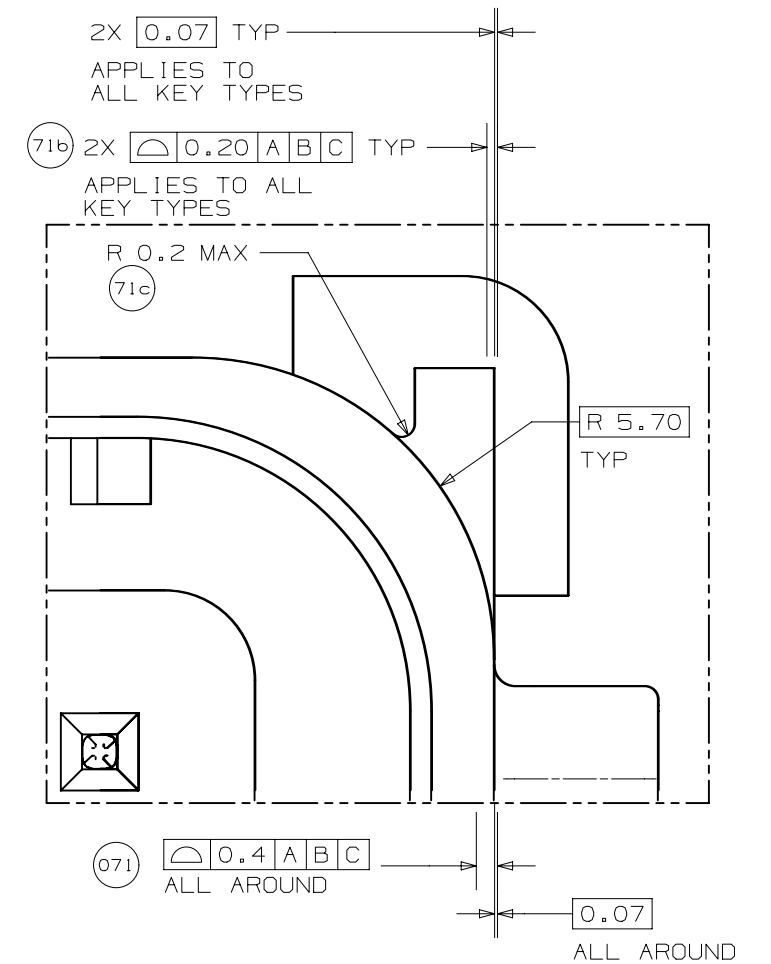
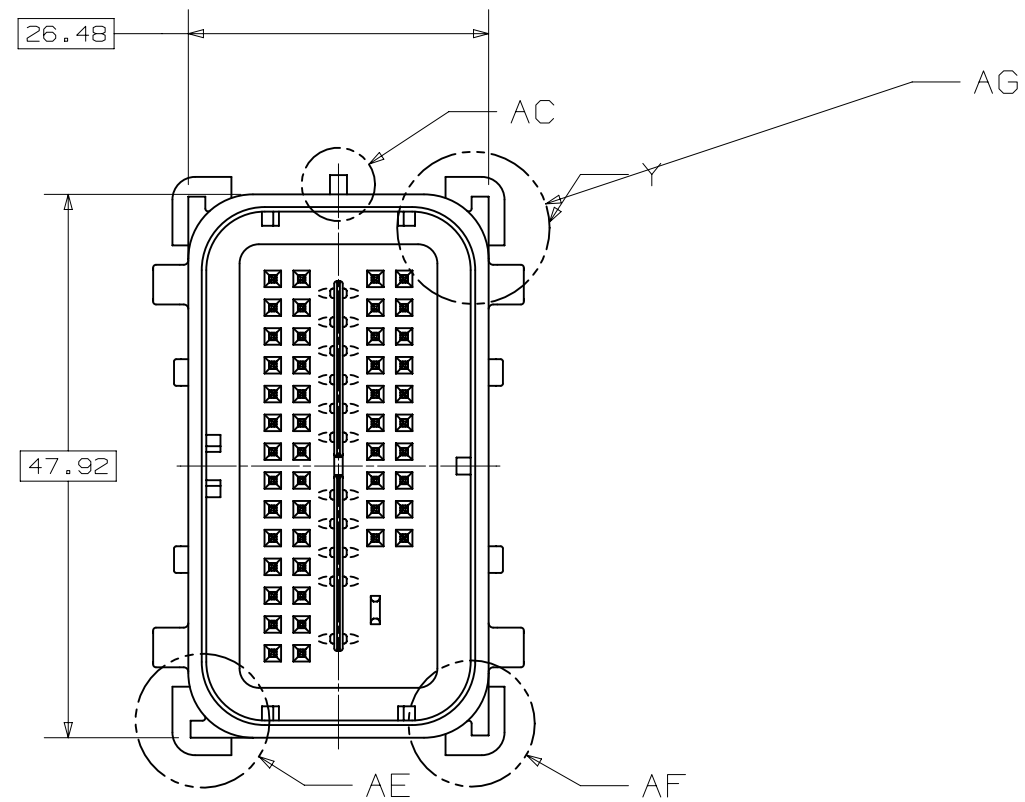
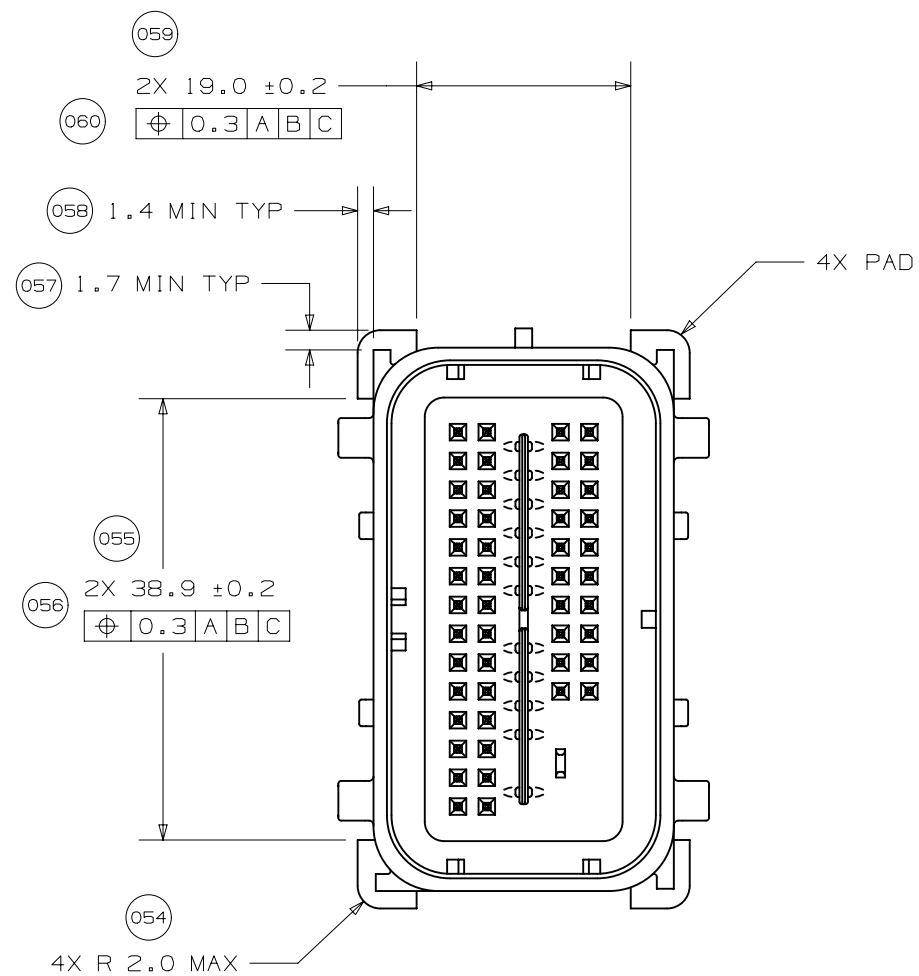


PAGE TITLE
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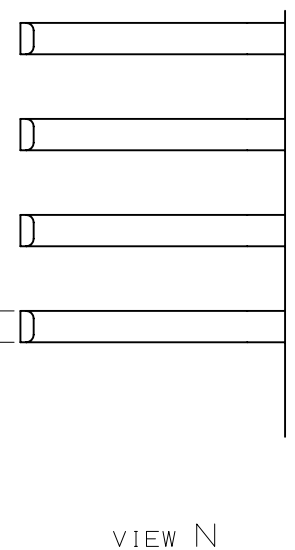
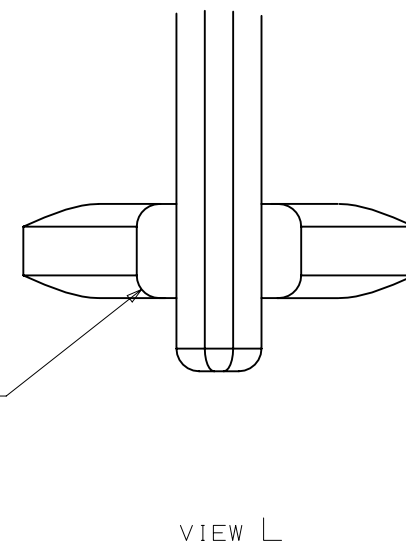
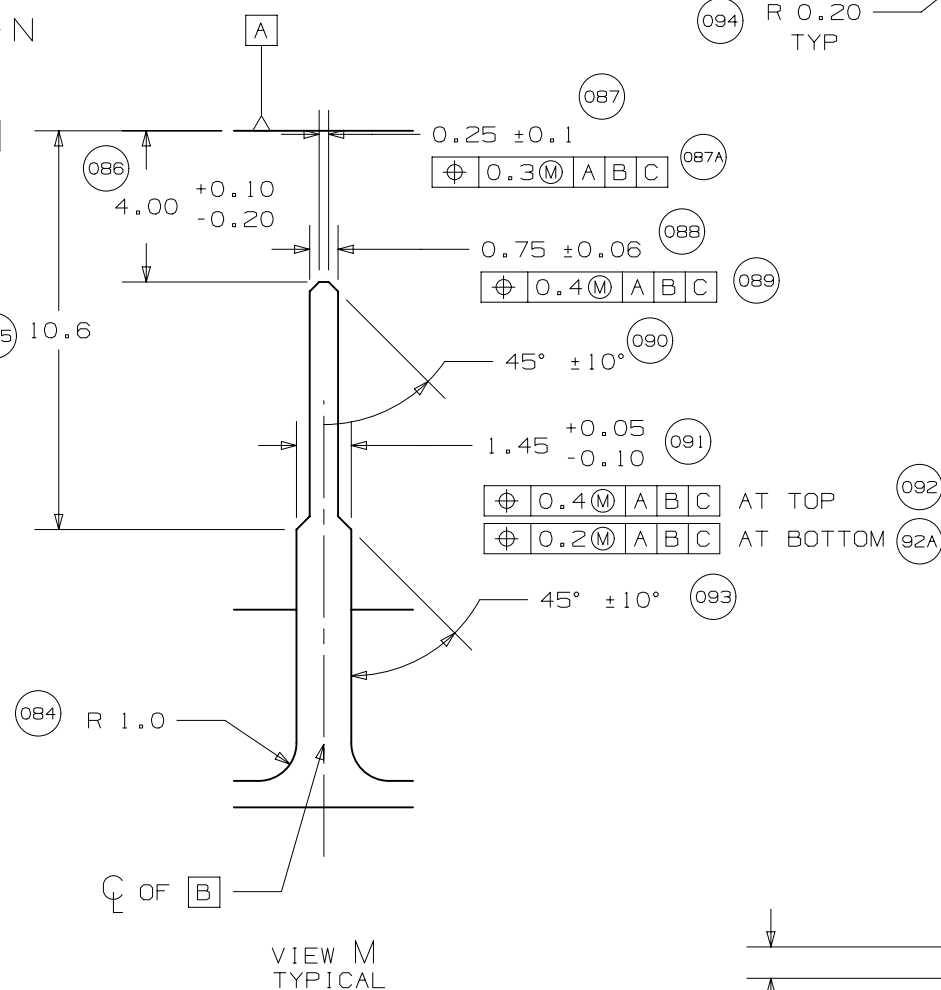
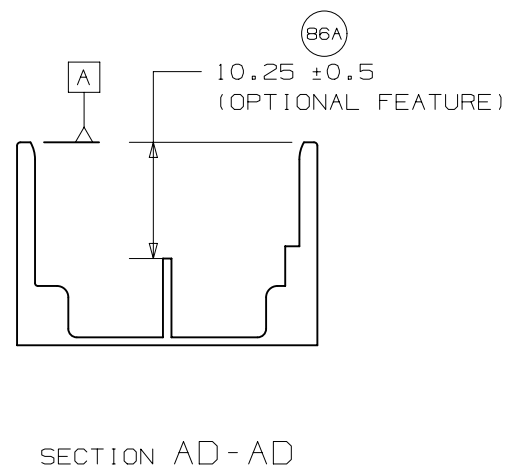
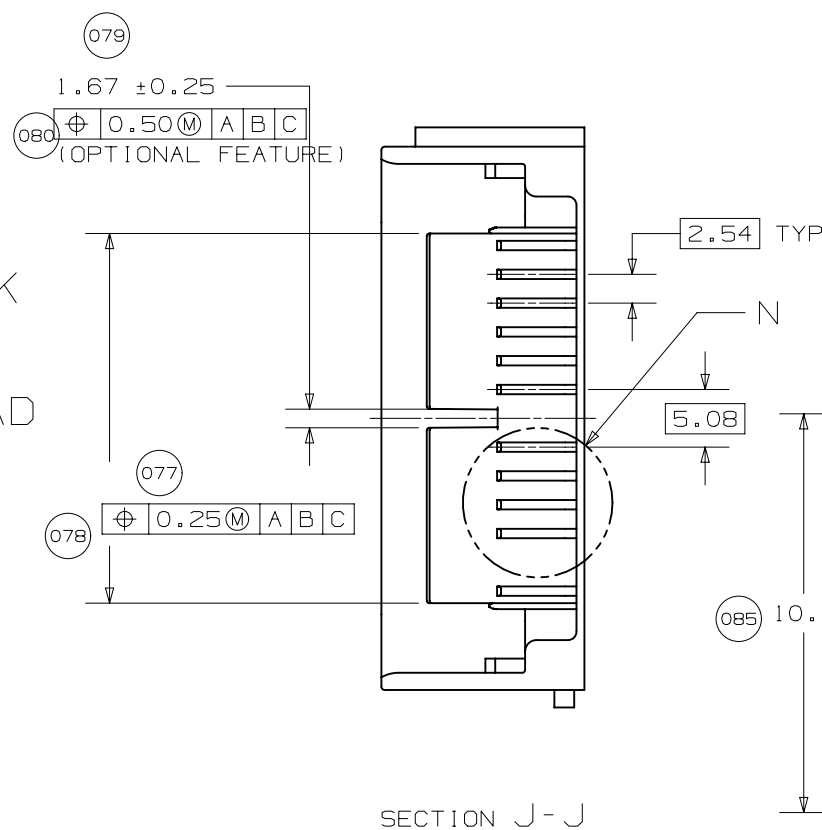
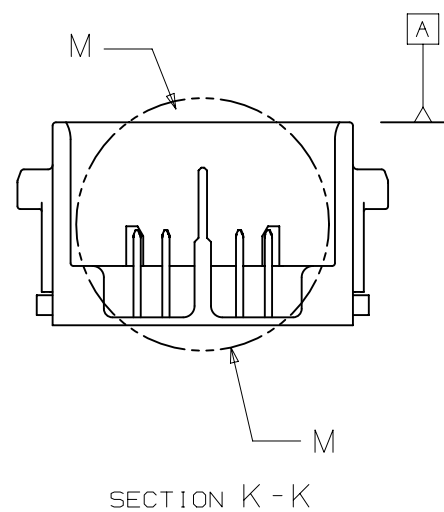
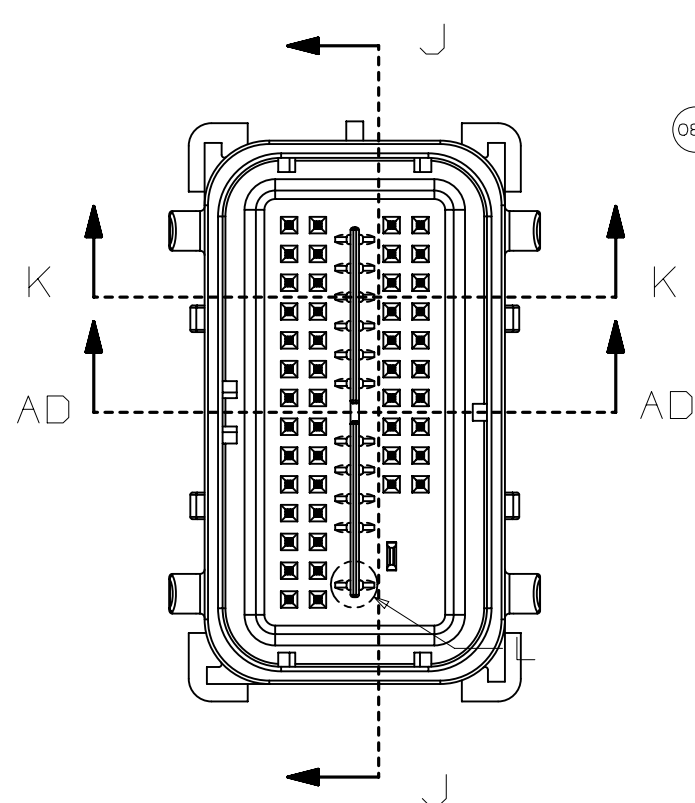


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49 / 56 CKT	32.60 +0.10/-0.80
18 CKT	10.04 +0.10/-0.80

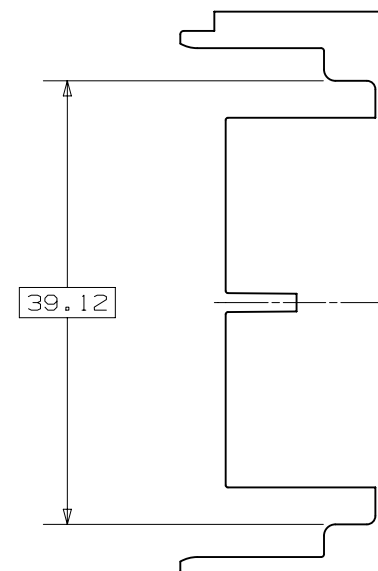
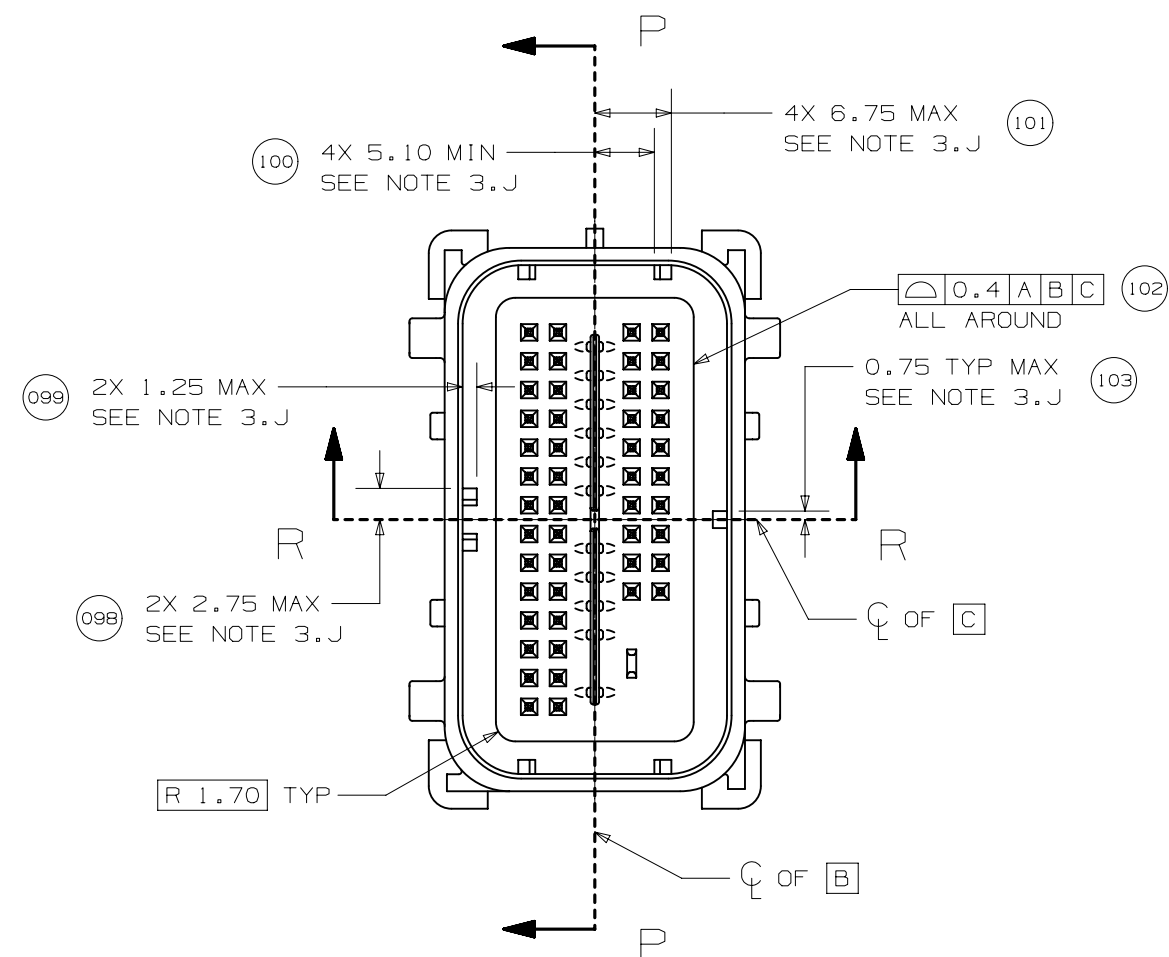


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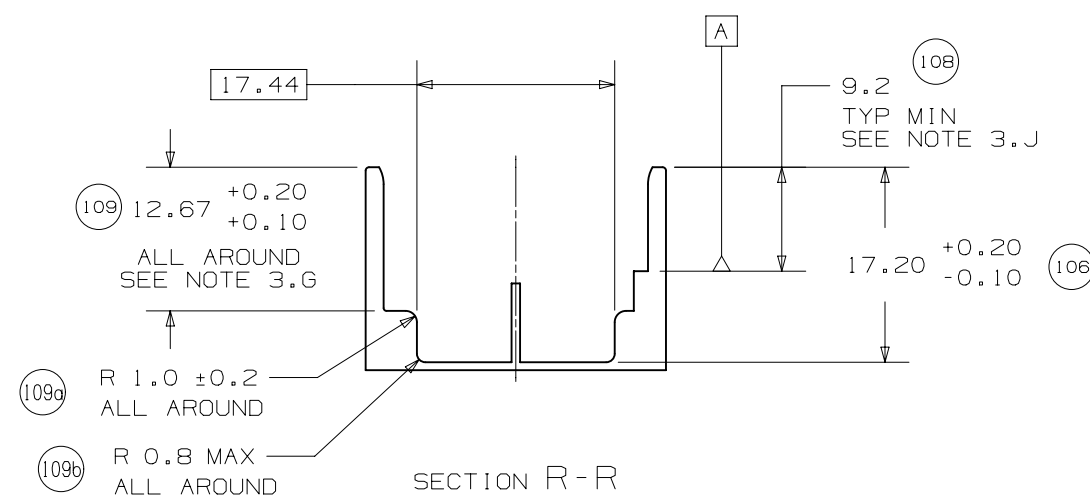
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SECTION P-P



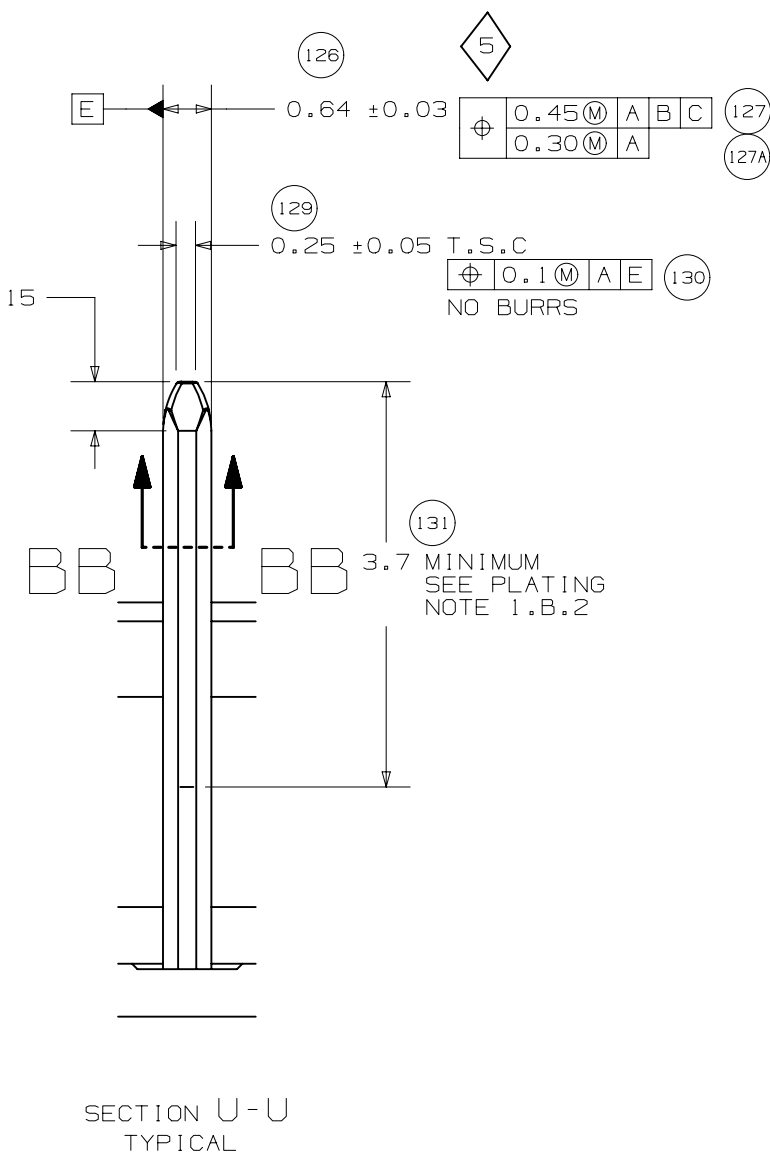
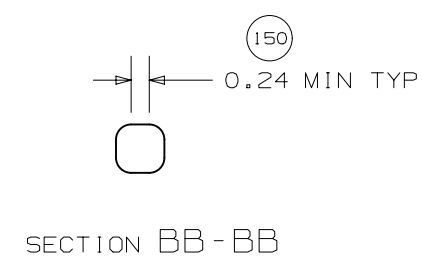
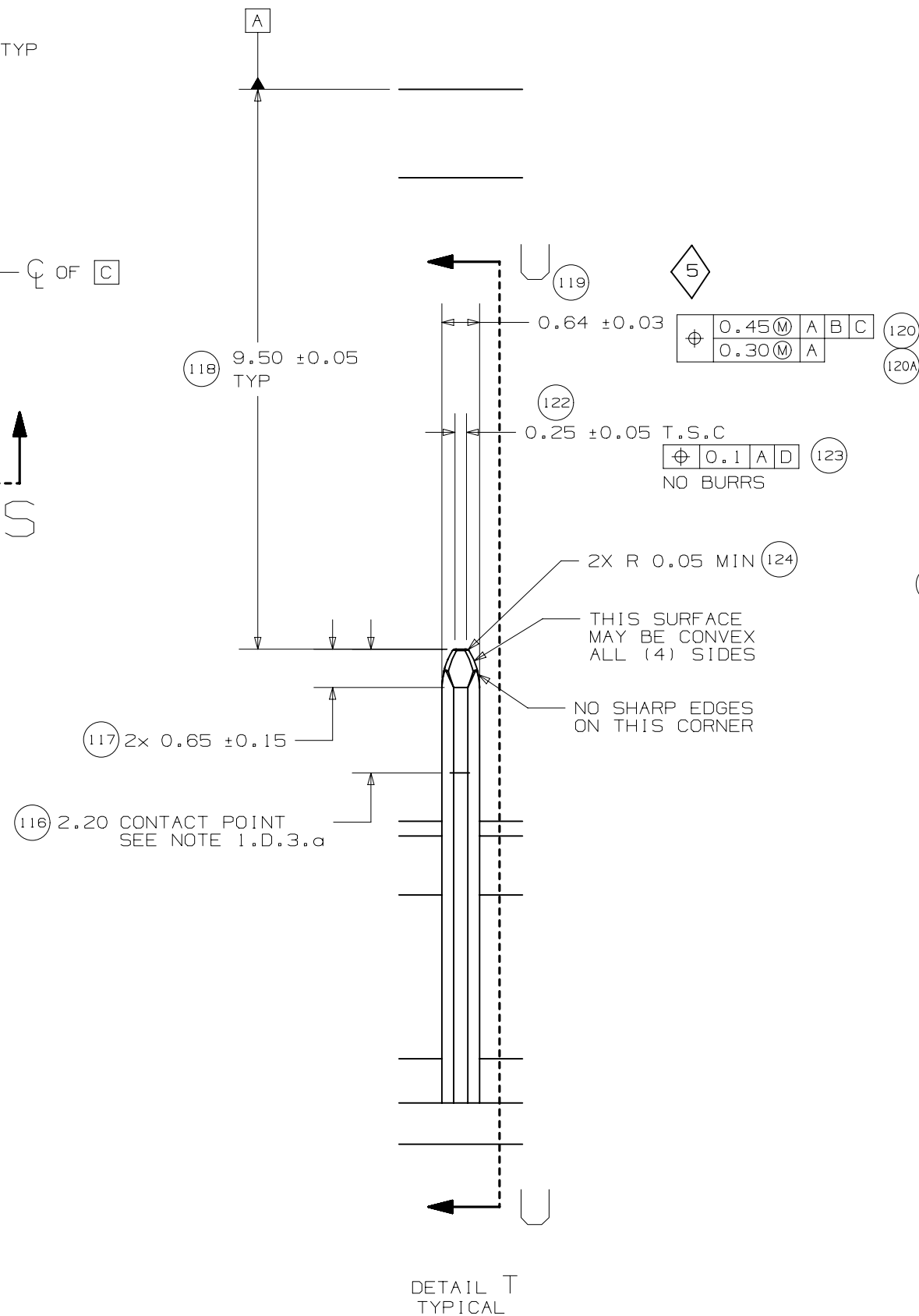
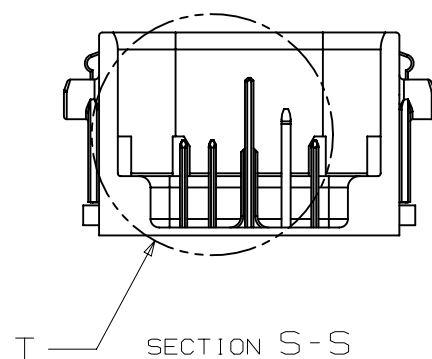
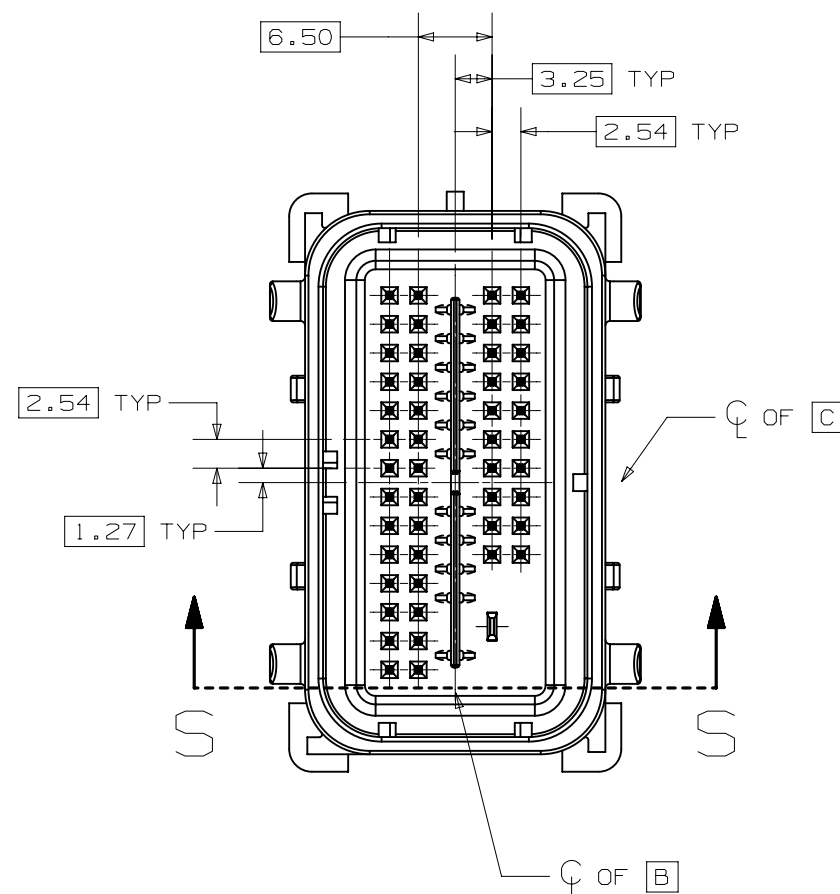
SECTION R-R



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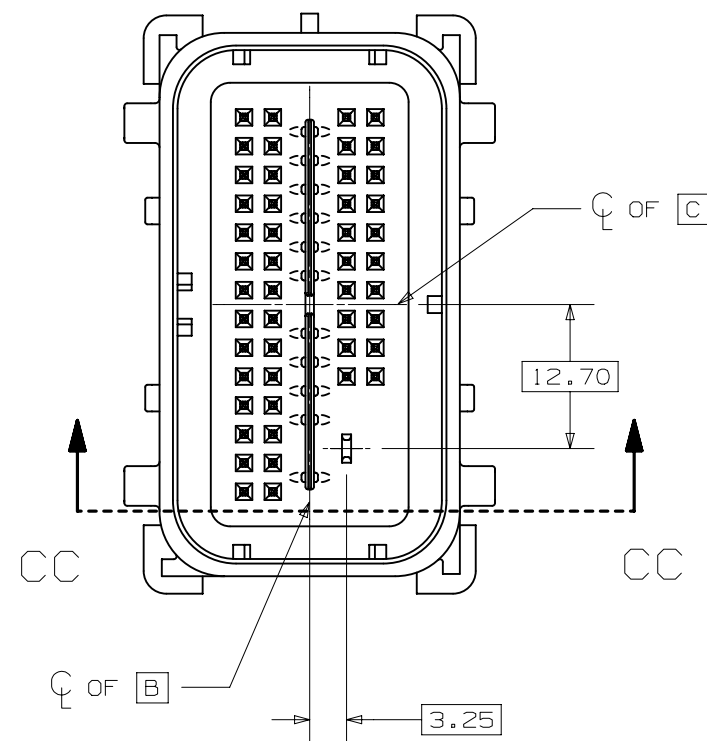


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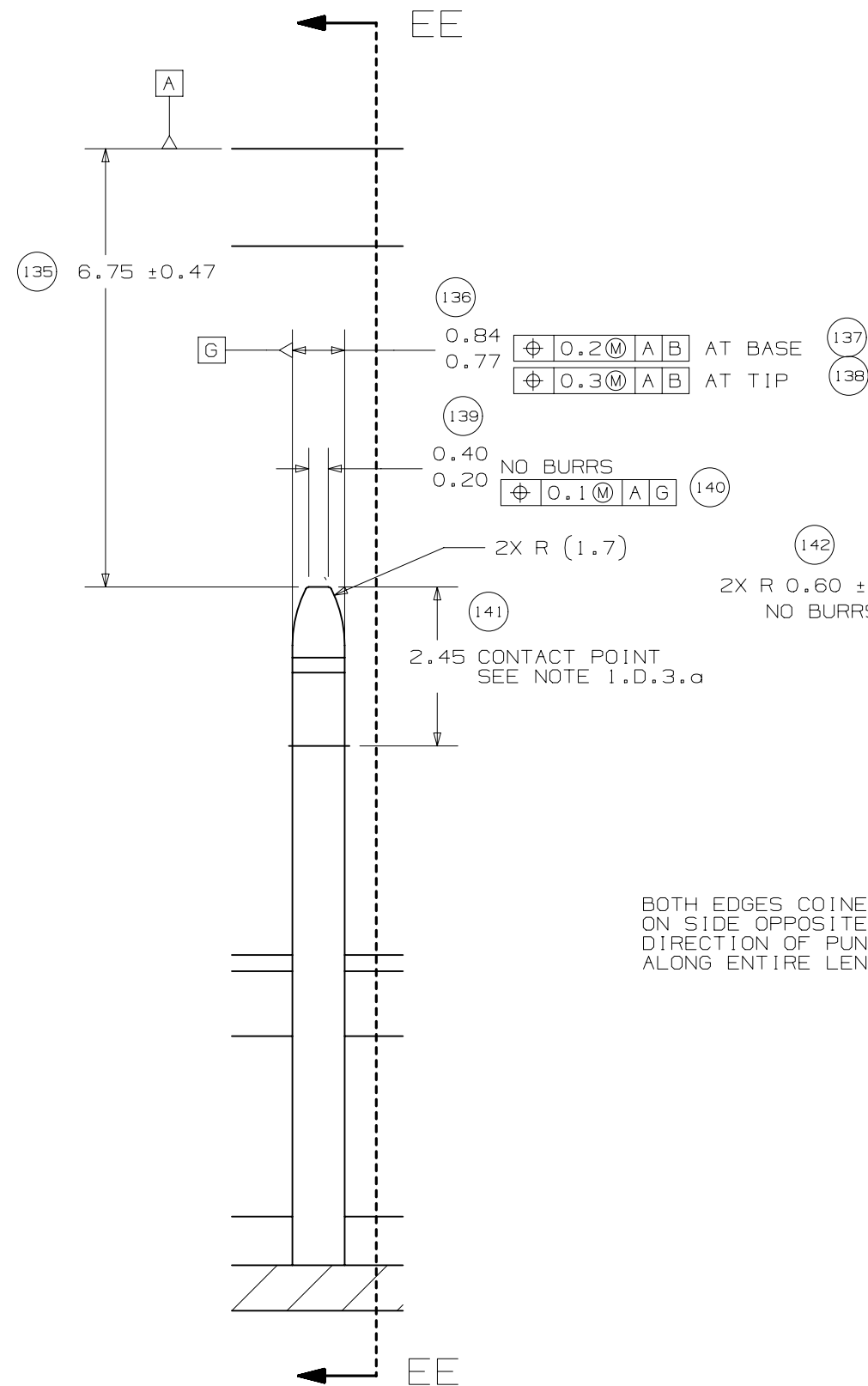
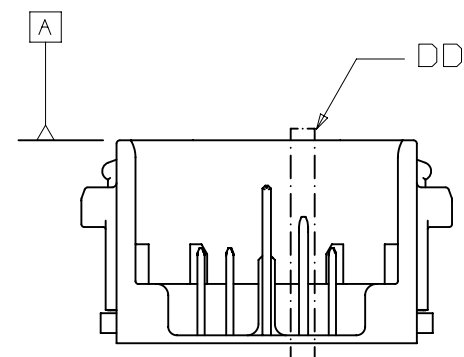
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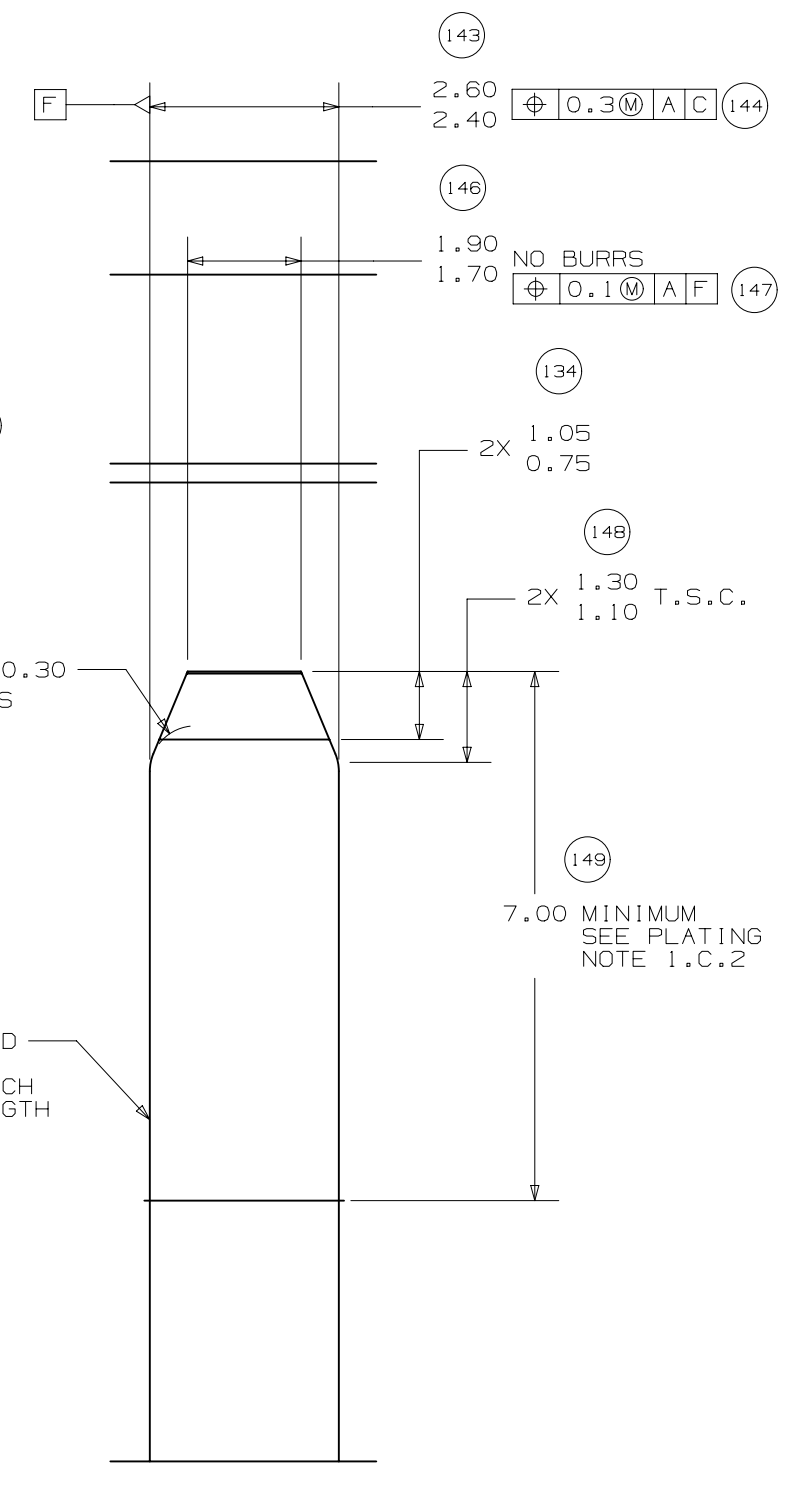
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SECTION CC-CC



DETAIL DD
TYPICAL



SECTION EE-EE
TYPICAL

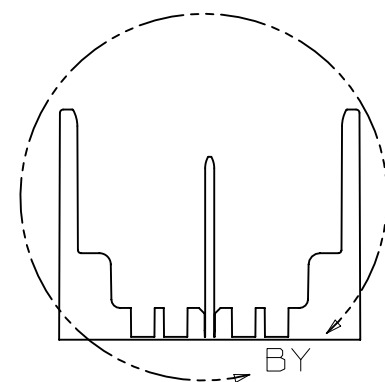
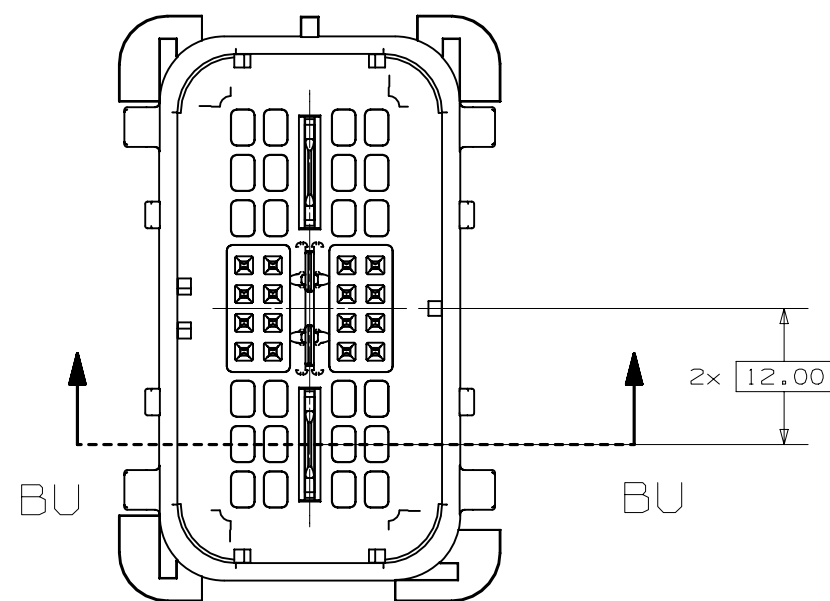


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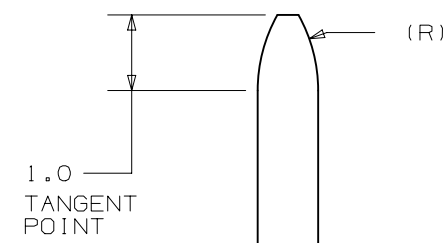
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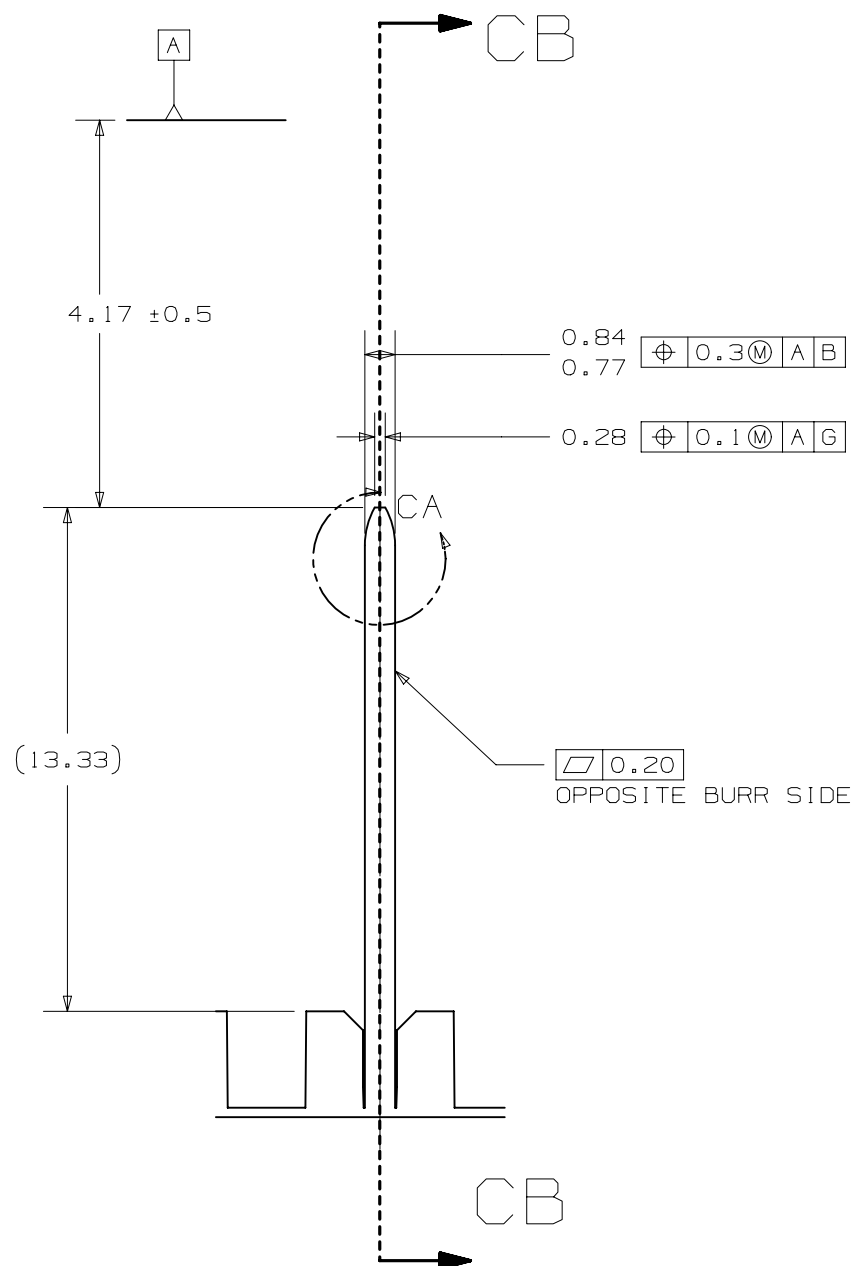
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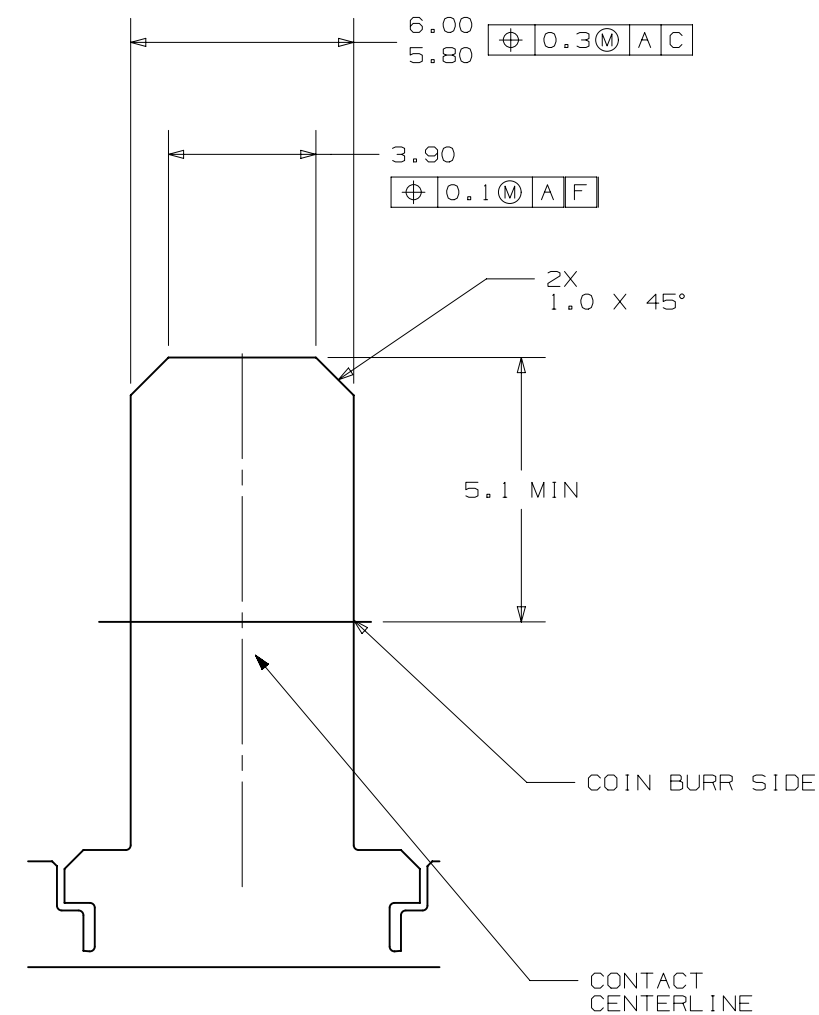
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VIEW CA
SCALE 10:1



VIEW BY
SCALE 5:1



SECTION CB-CB



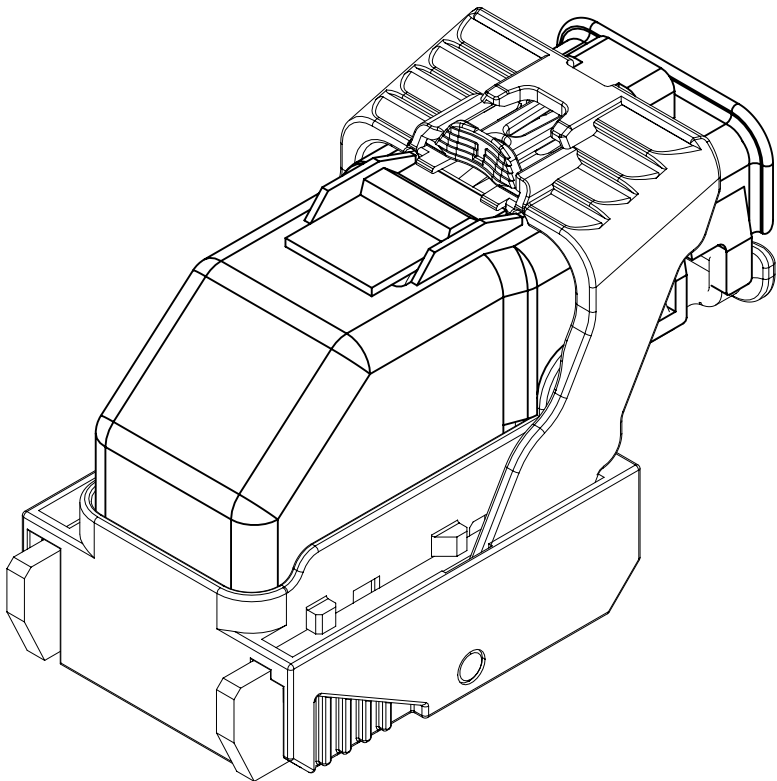
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COMPONENT CONNECTOR INTERFACE

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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
		ST	REV	PD1	
		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				
		PAGE TITLE KPC BLOCK			DRAWING NUMBER 12642694		DWG STATUS			PAGE NUMBER 4 of 22	
							ST	REV	PDI		
							R	001			

					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:

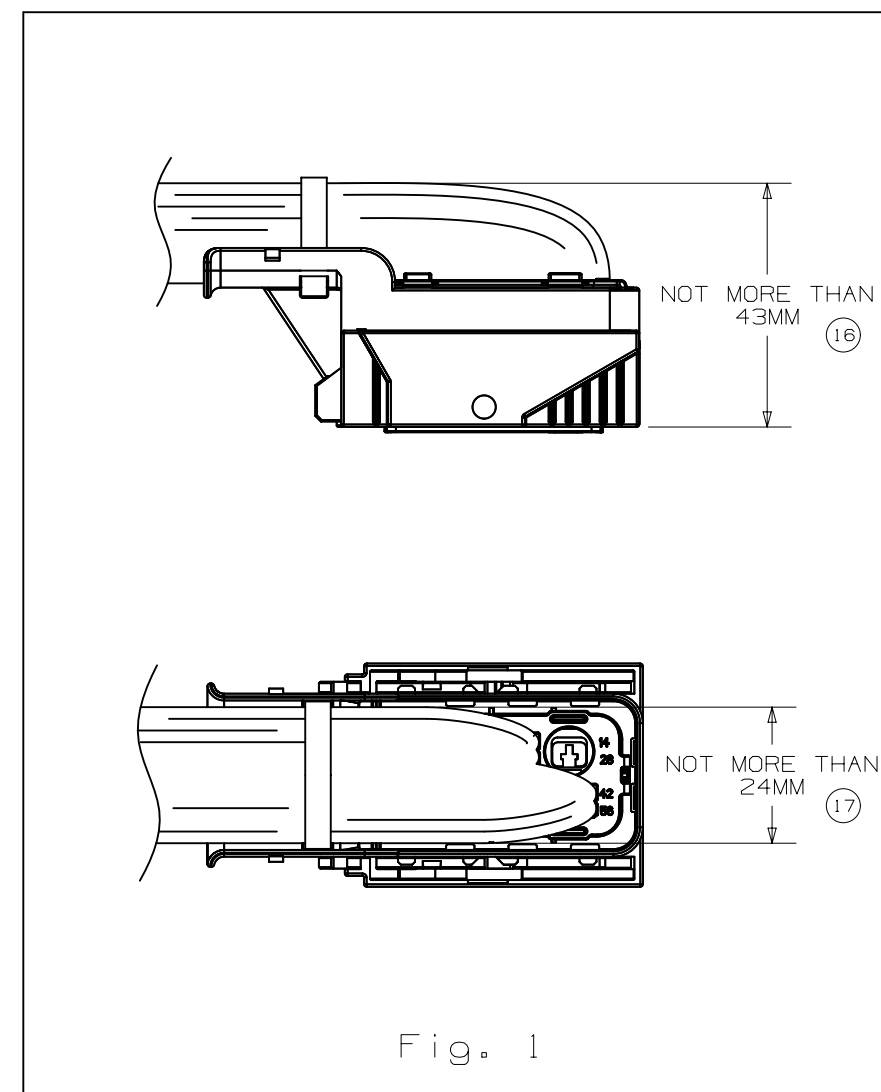
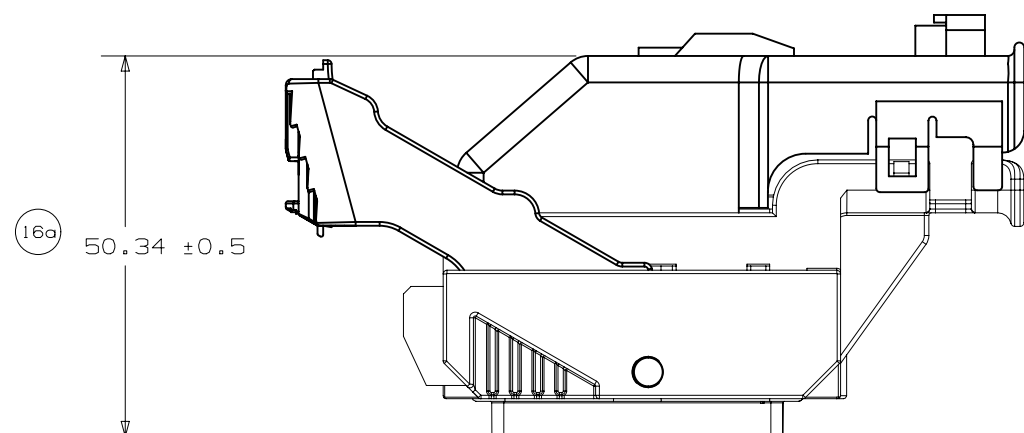
ALL TESTING DONE IN ACCORDANCE WITH USCAR-2 REV5 SECTION 5.3

- 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

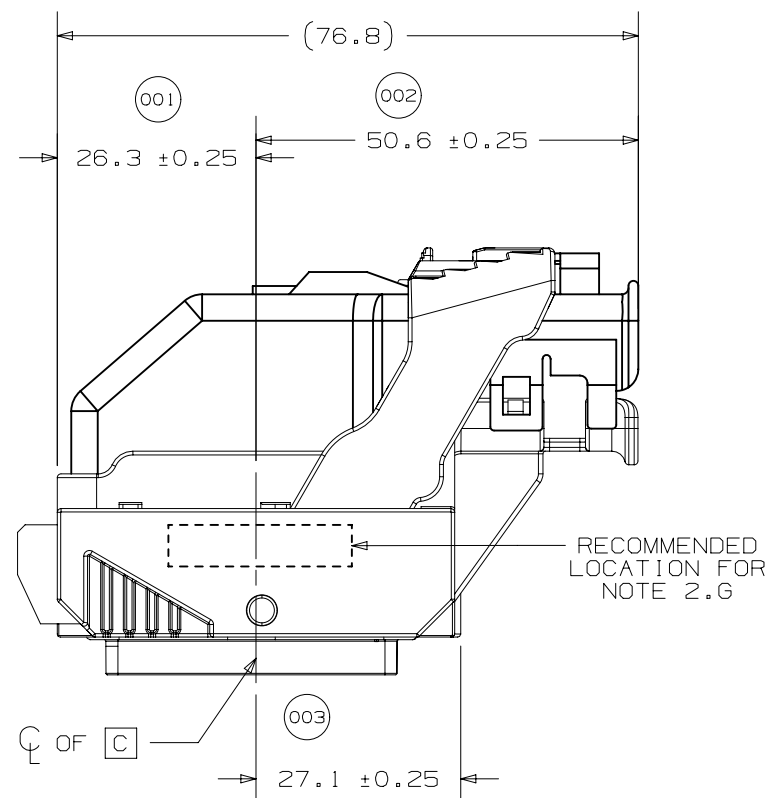


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WIRE DRESS PACKAGING DIMENSIONS

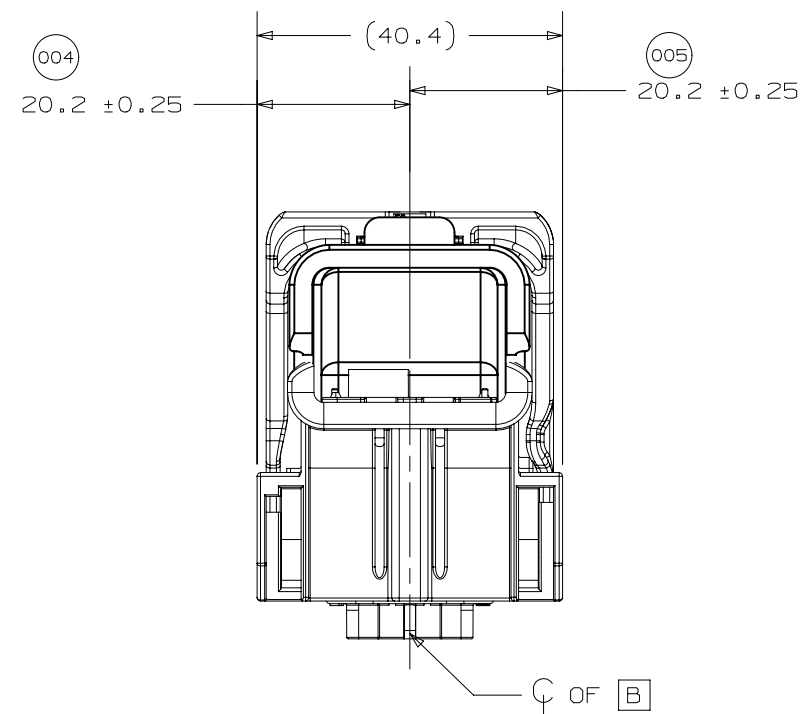
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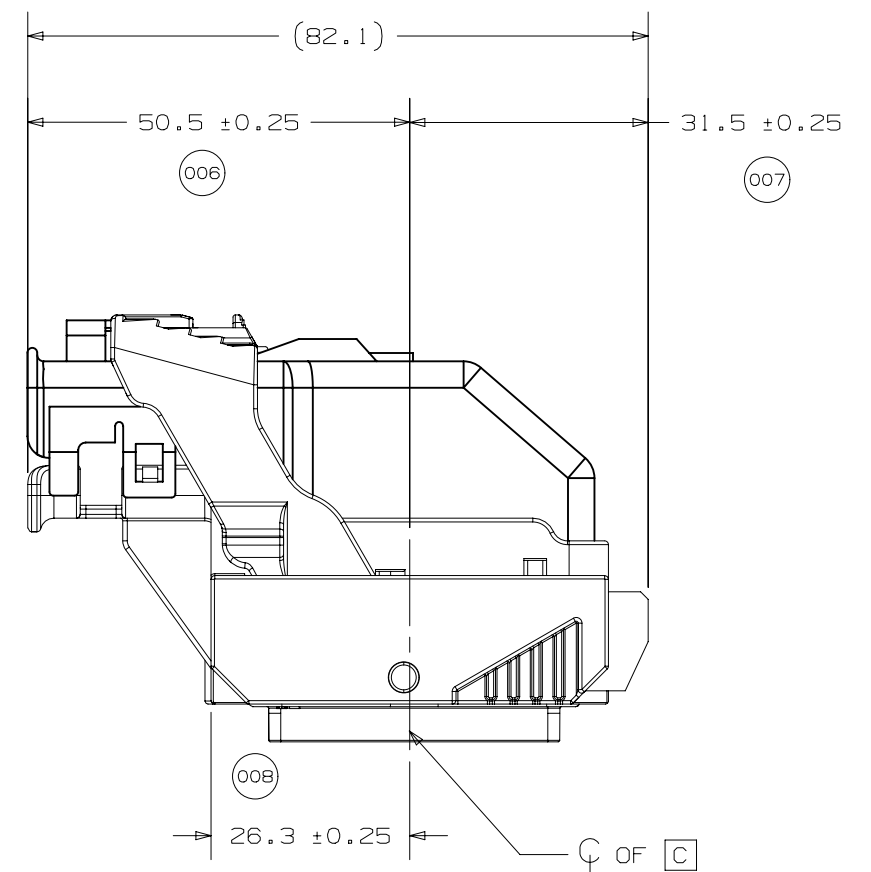
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WIRE DRESS OPTION 0 SHOWN



WIRE DRESS OPTION 0 SHOWN



WIRE DRESS OPTION 9 SHOWN



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

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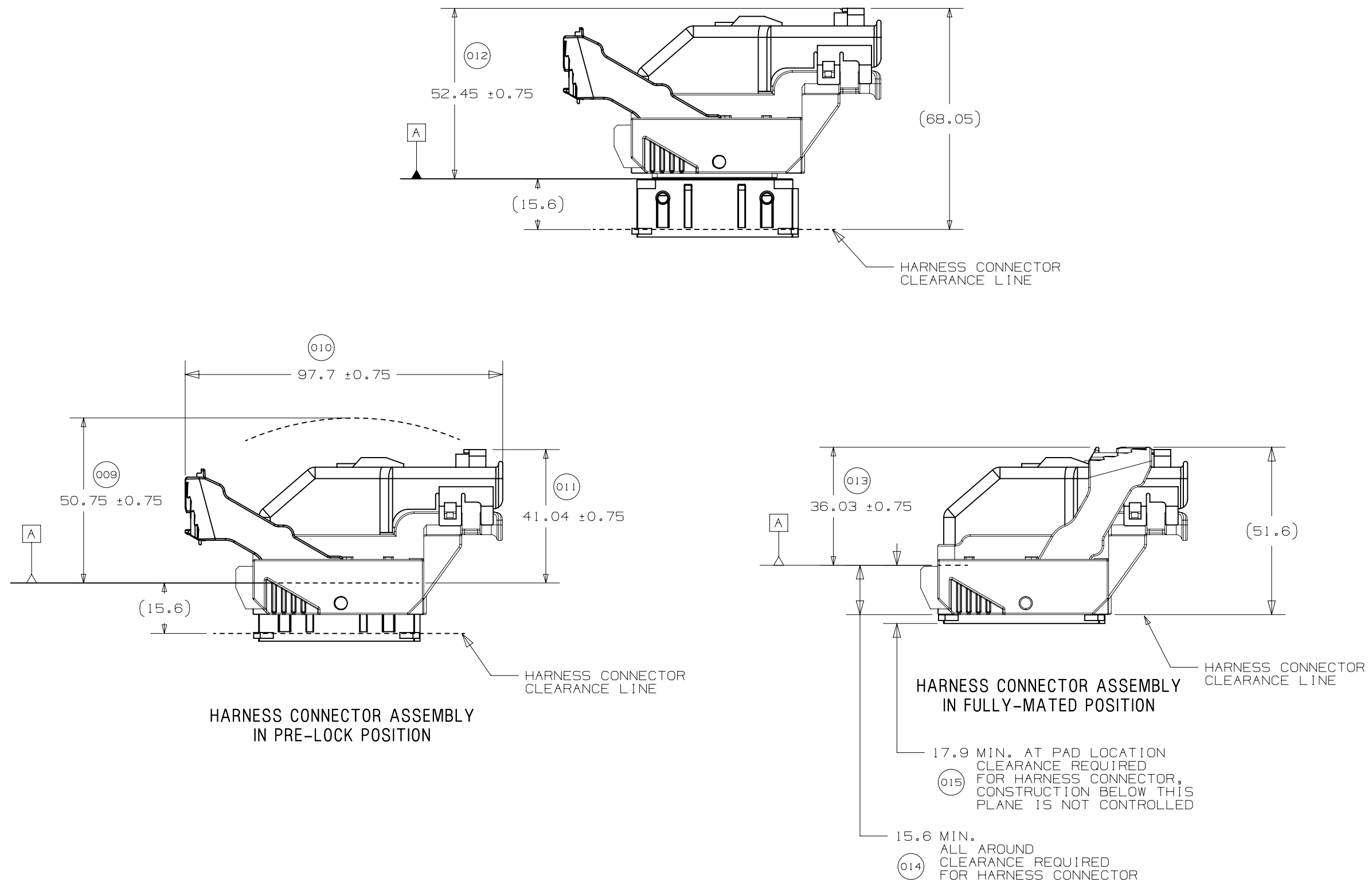
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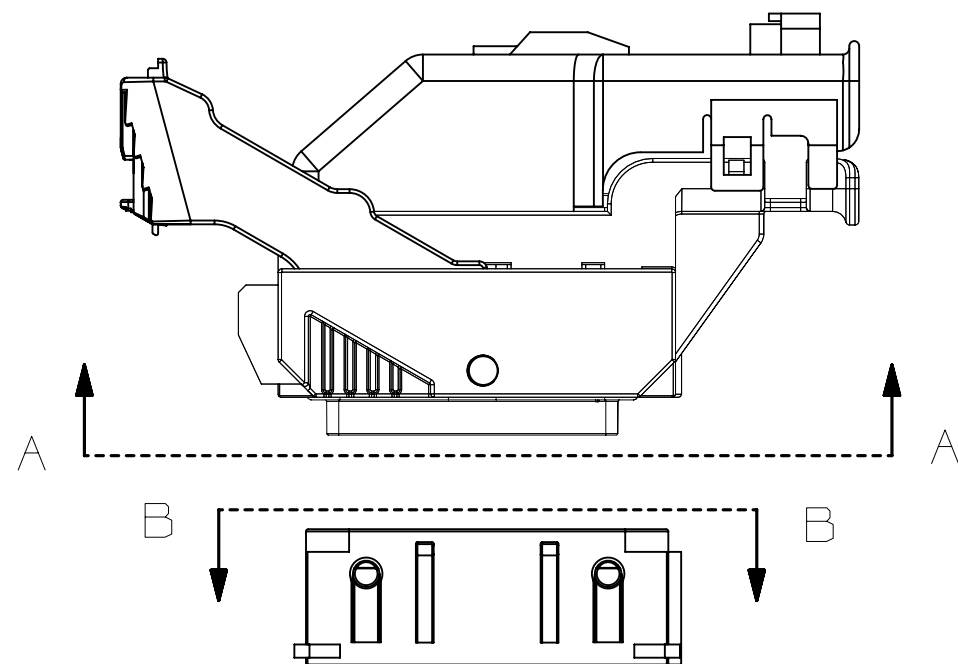
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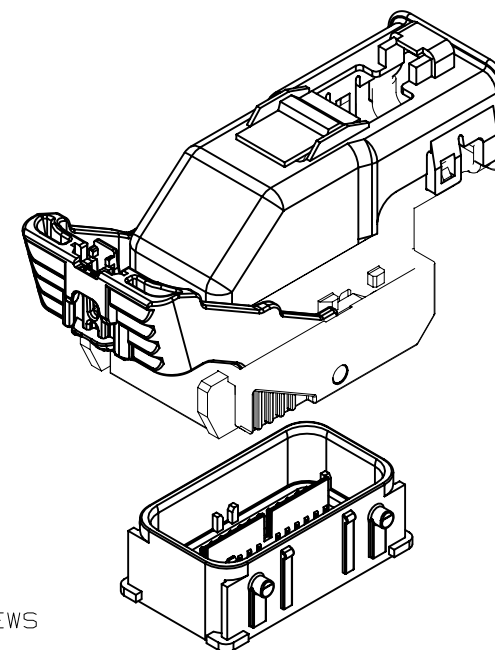
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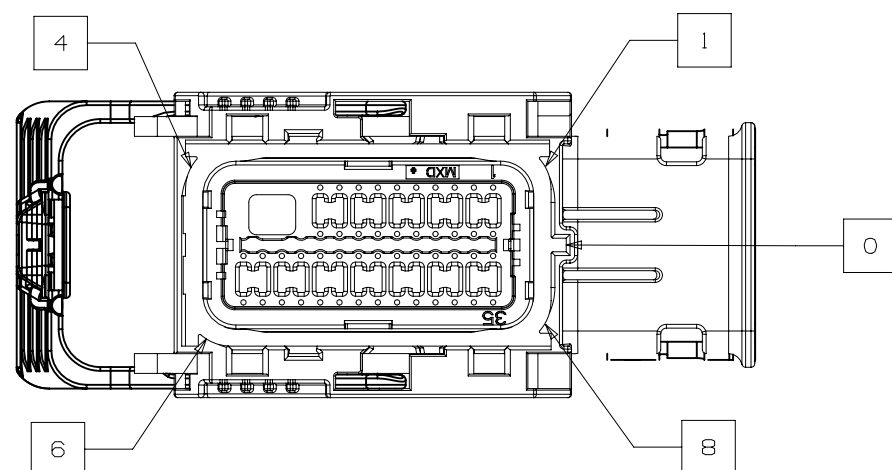




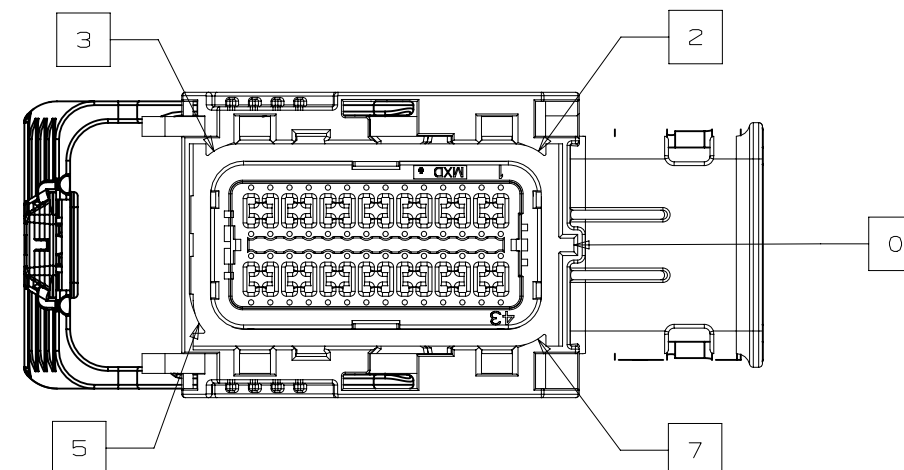
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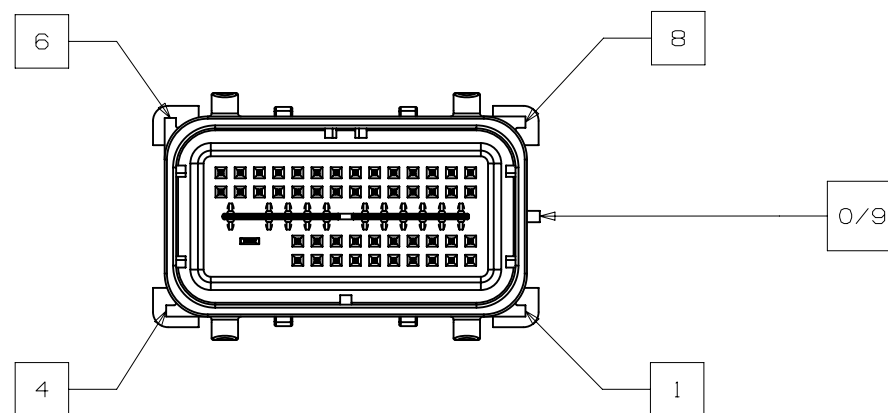
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FOR KEY OPTIONS AND CONFIGURATIONS



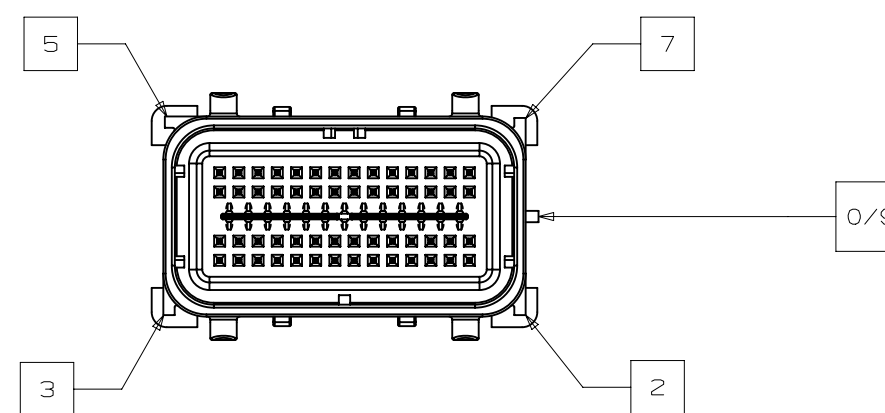
SECTION A-A
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SECTION A-A
KEY OPTION K SHOWN



SECTION B-B
KEY OPTION B SHOWN



SECTION B-B
KEY OPTION K SHOWN

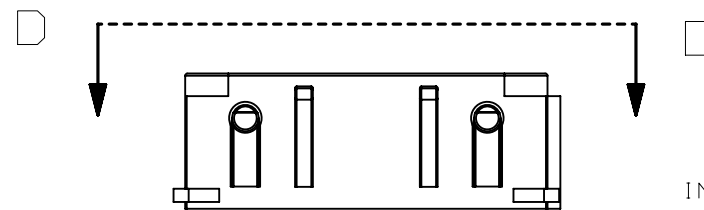
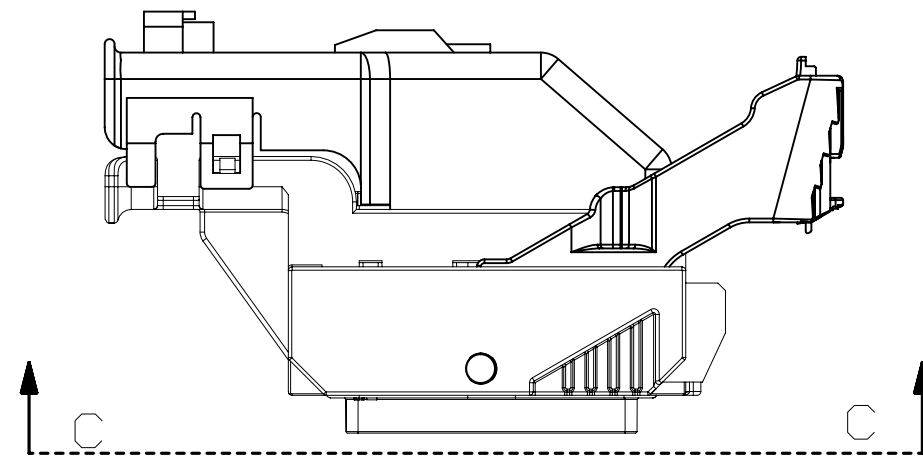


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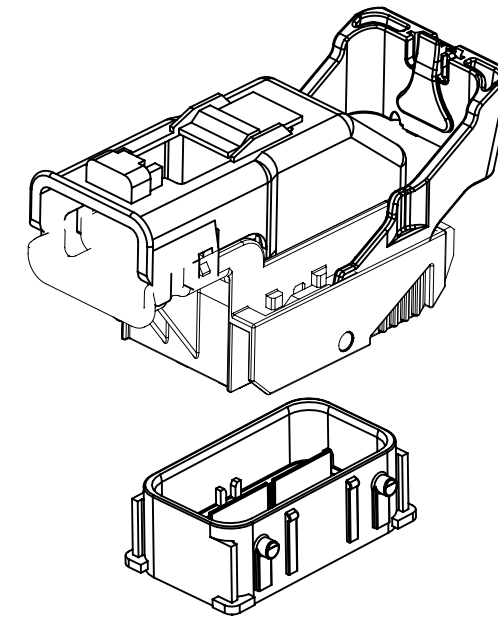
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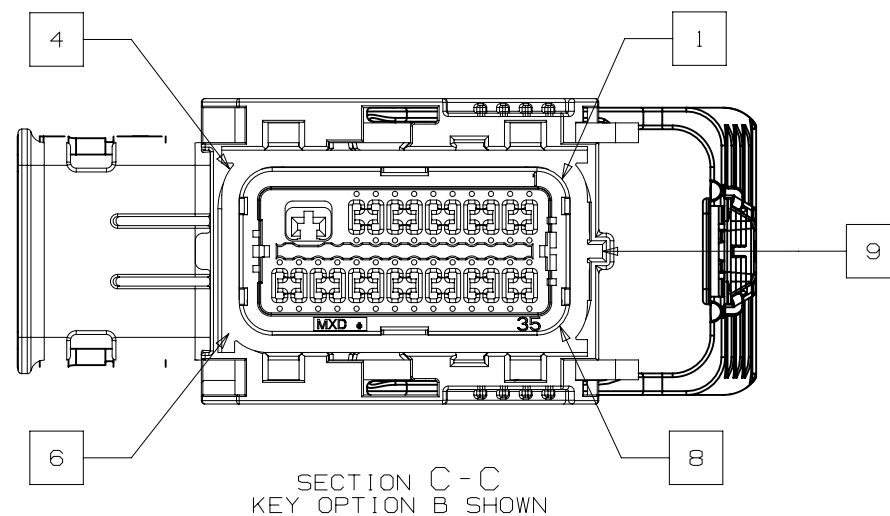
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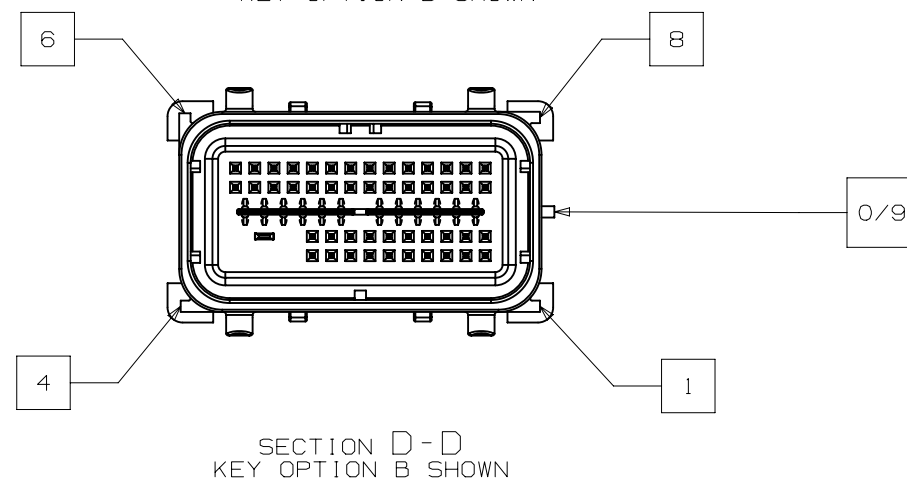
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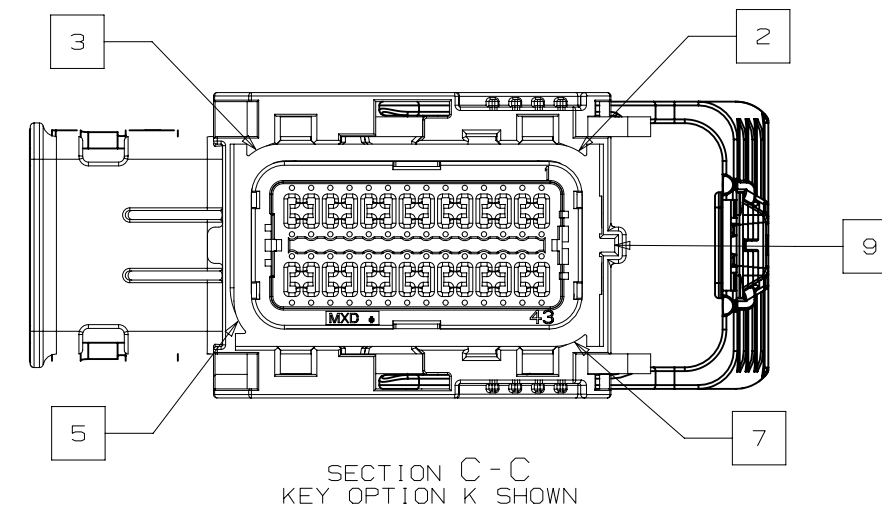
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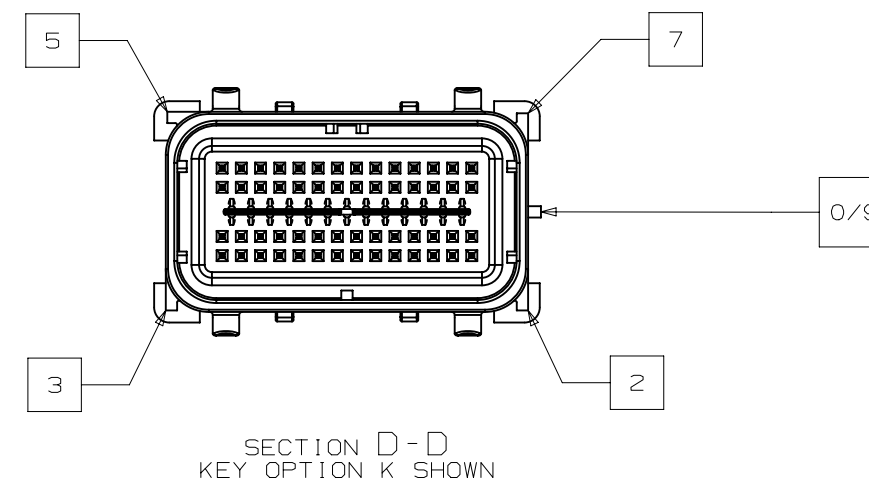
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SECTION D-D
KEY OPTION B SHOWN



SECTION C-C
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SECTION D-D
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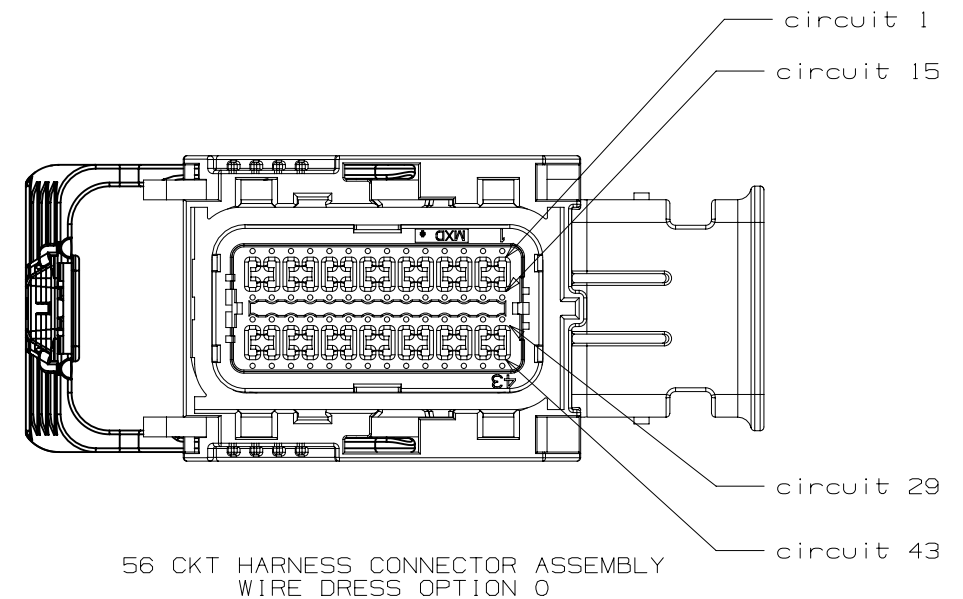
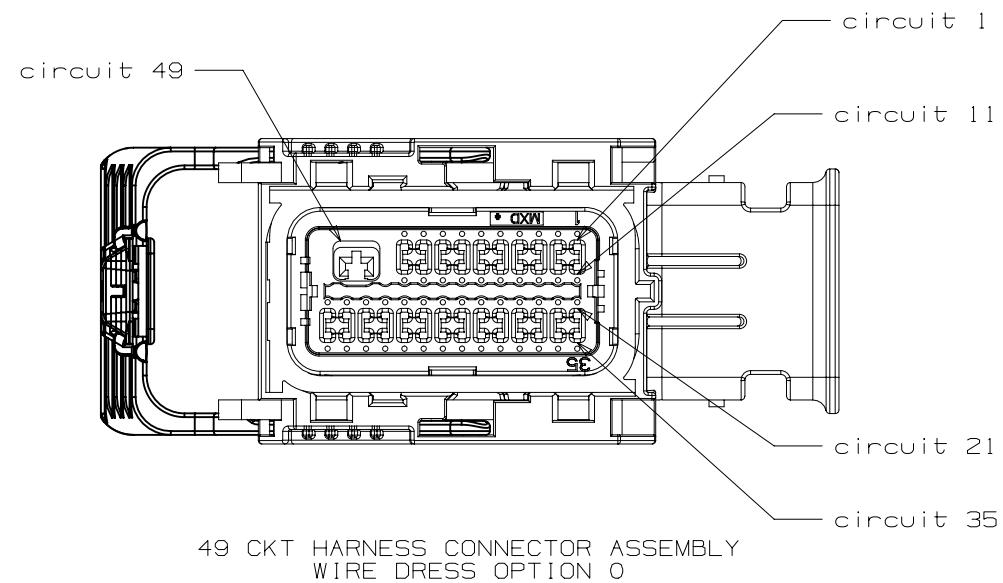


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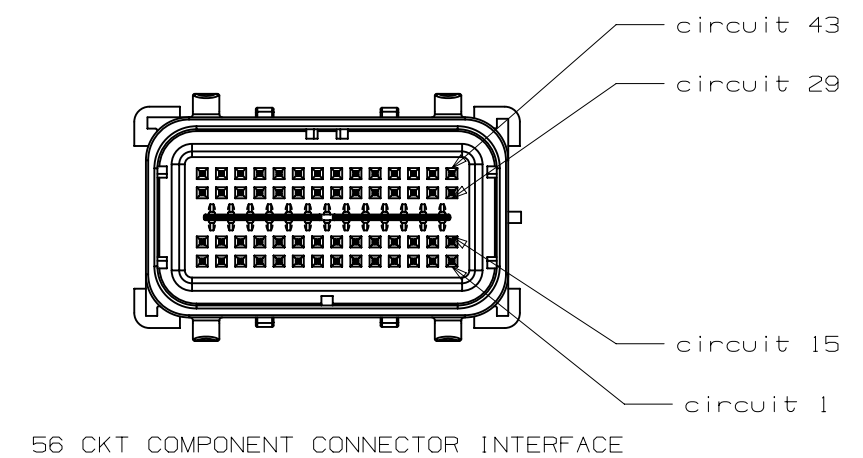
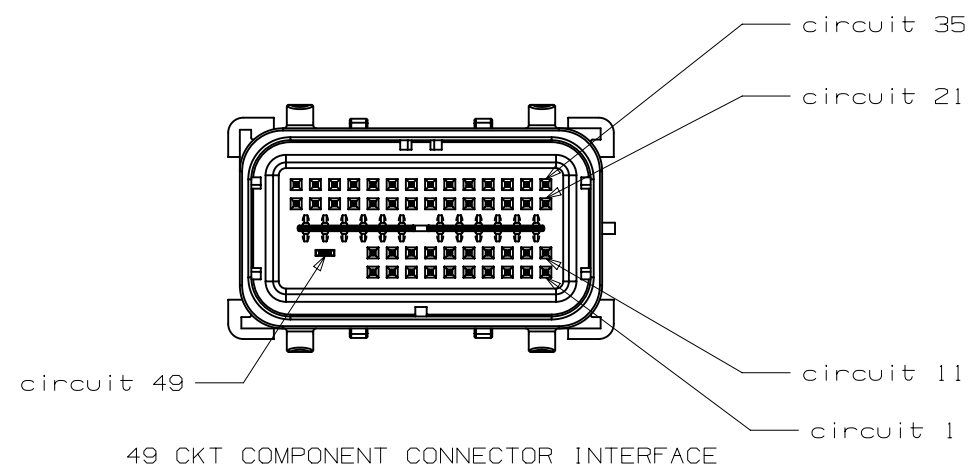
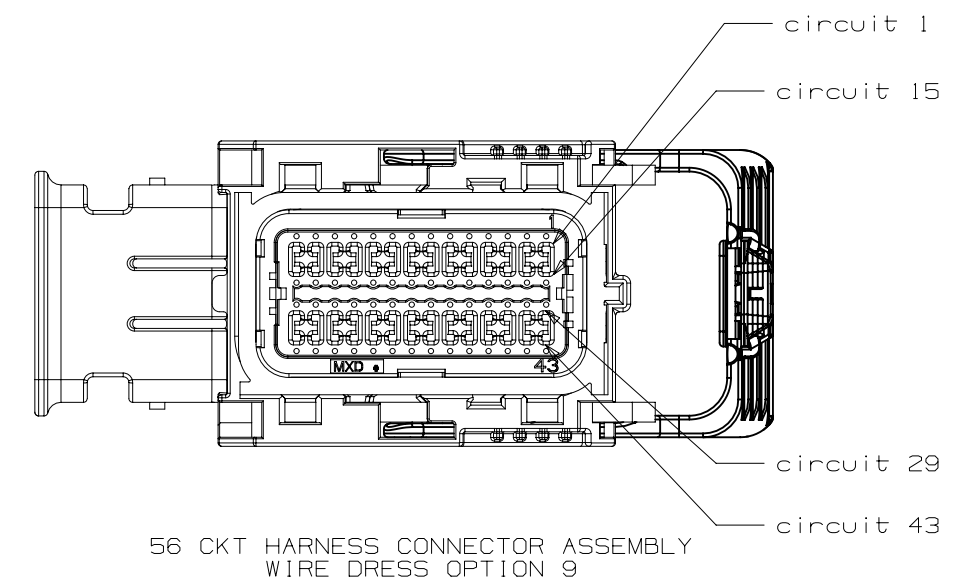
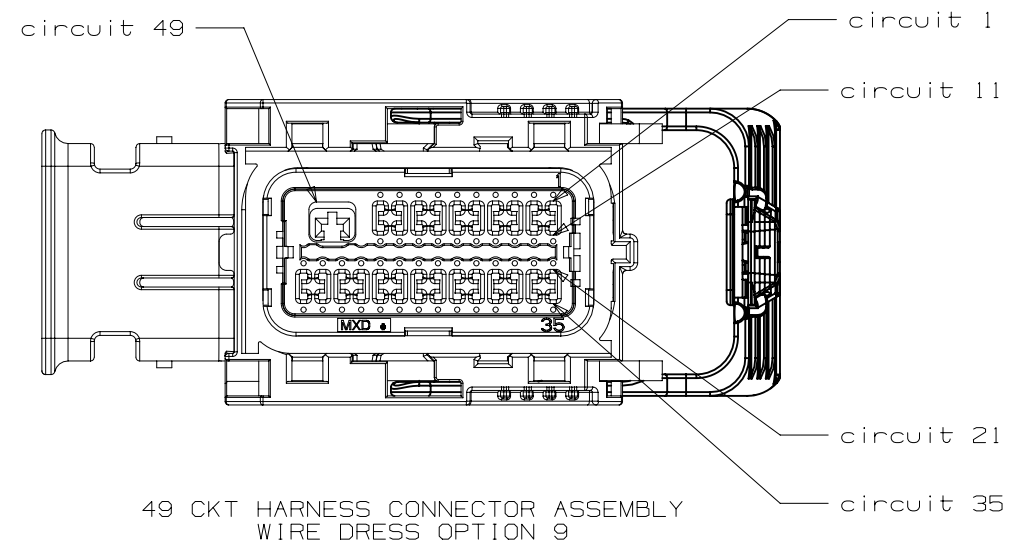
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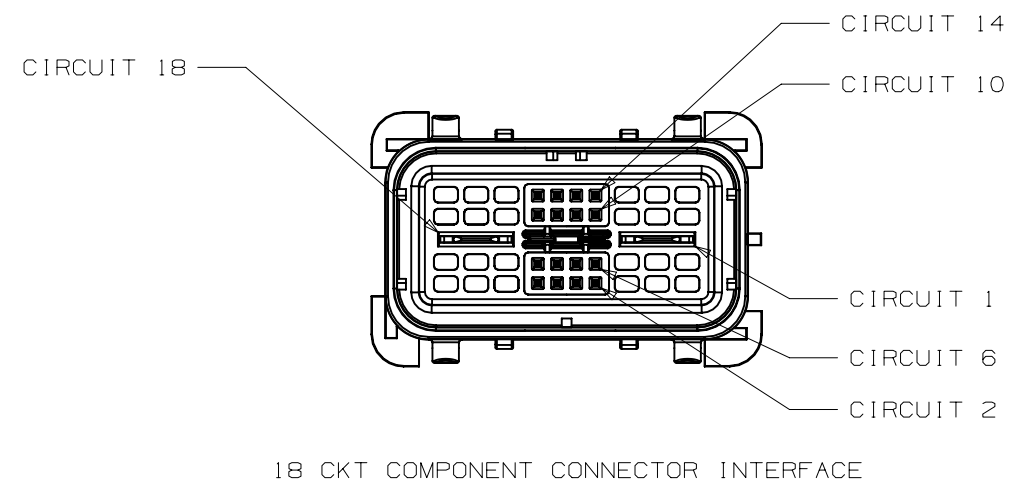
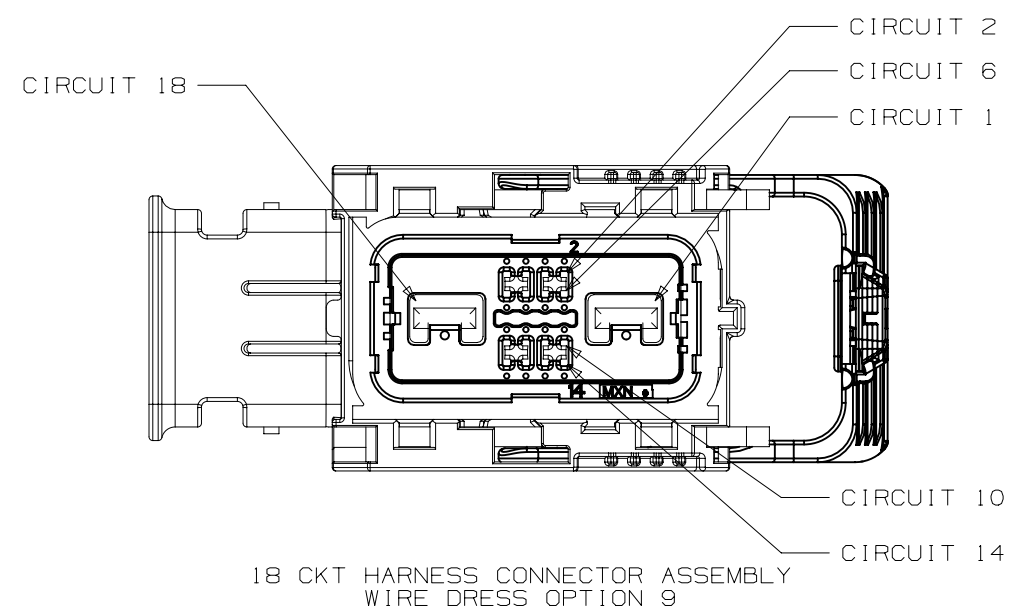
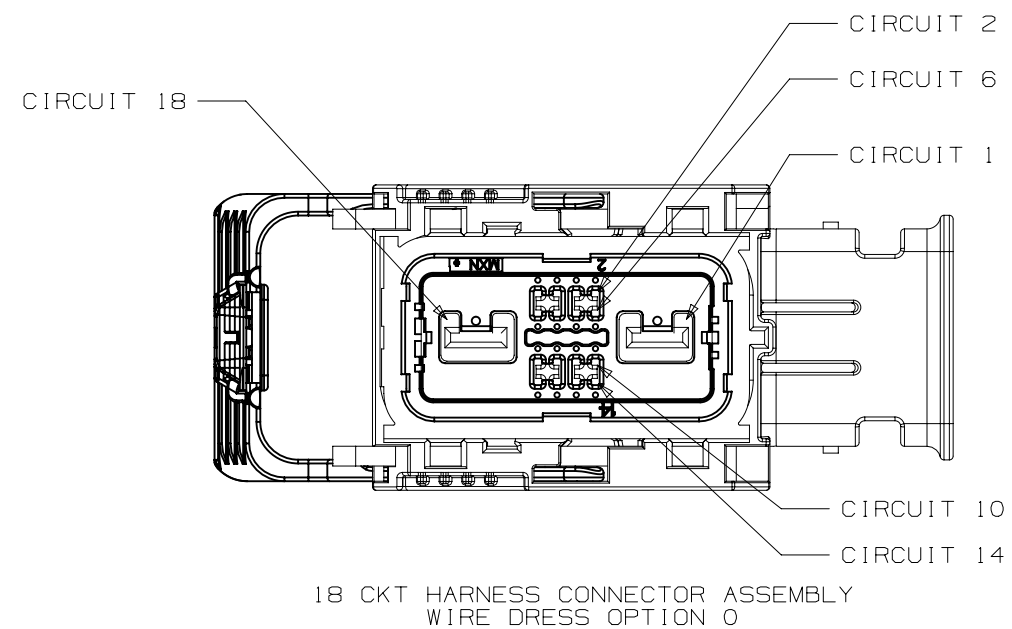
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INTERFACE SIDE SHOWN ON ALL VIEWS





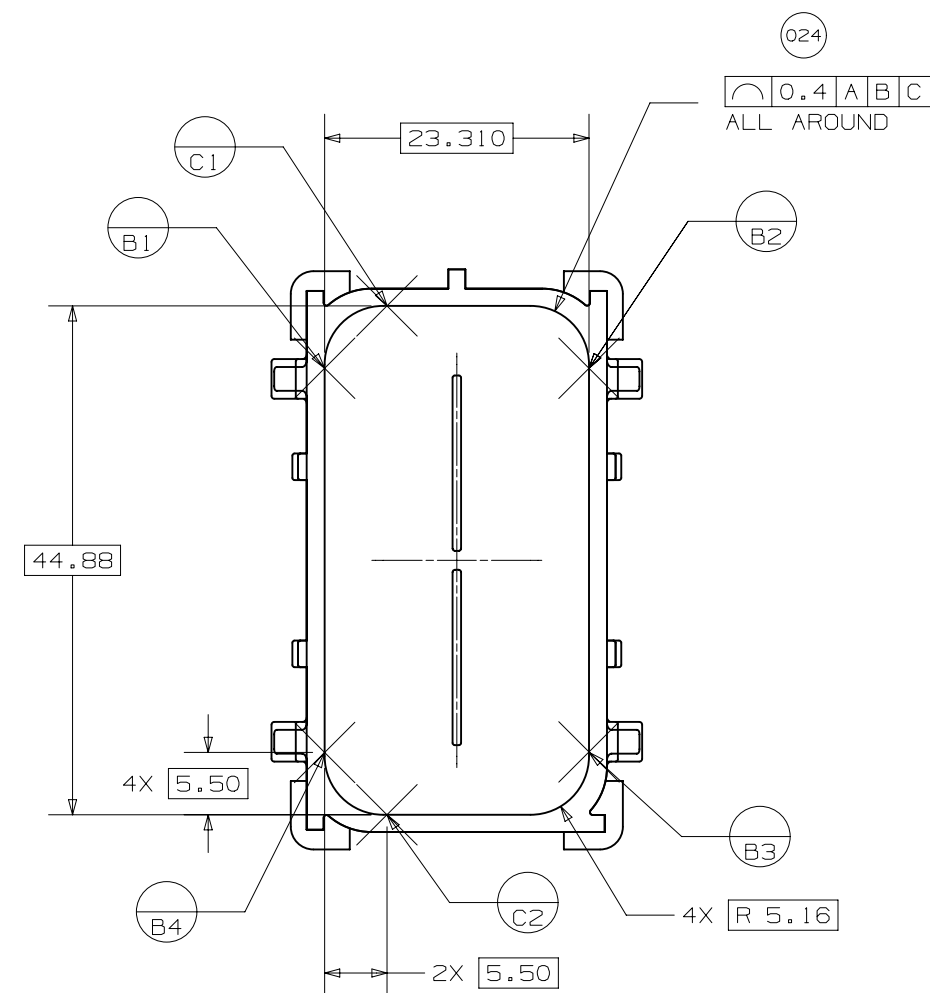
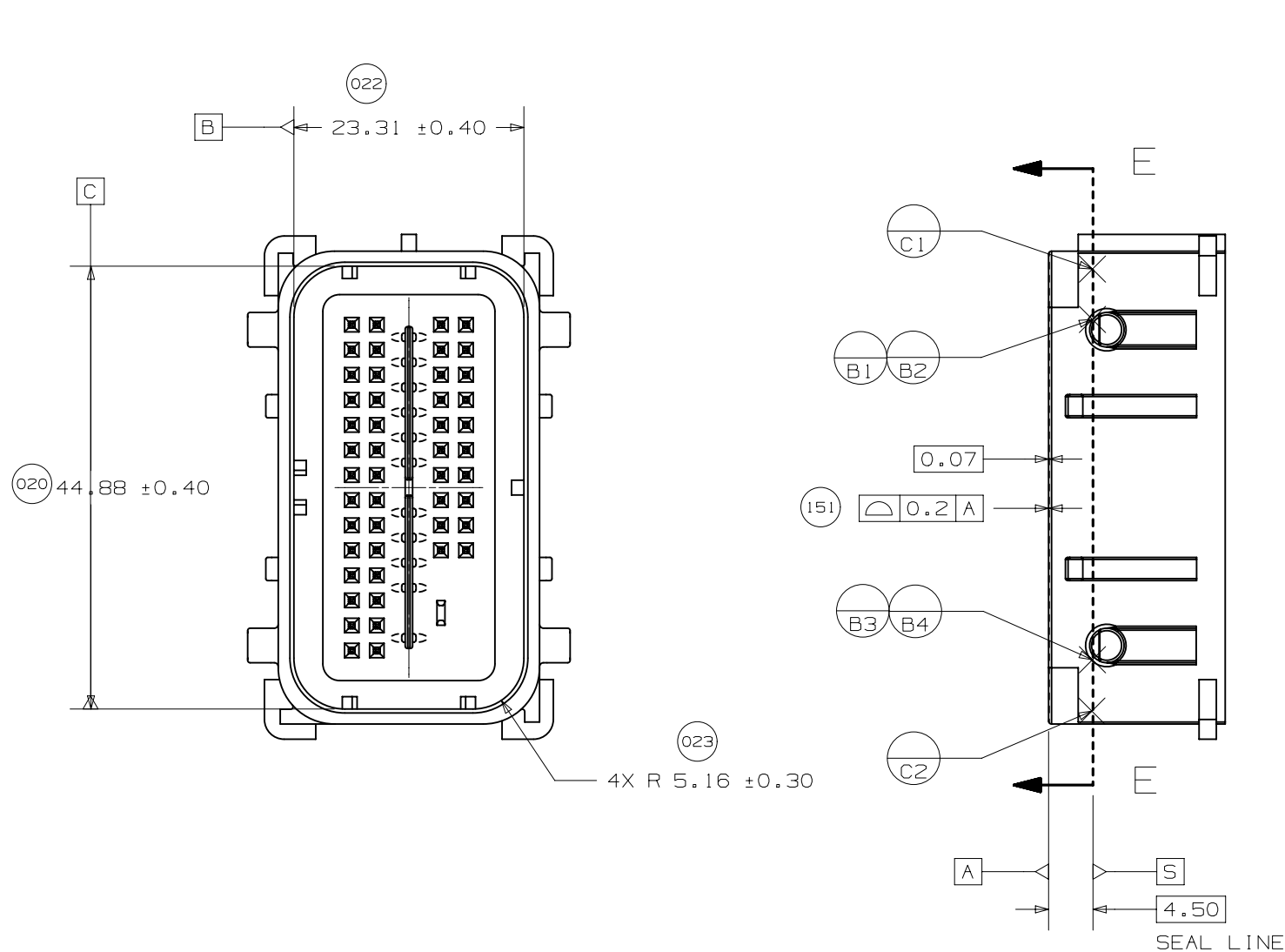
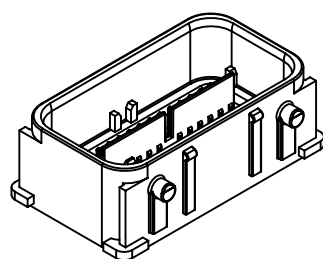
INTERFACE SIDE SHOWN ON ALL VIEWS



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)

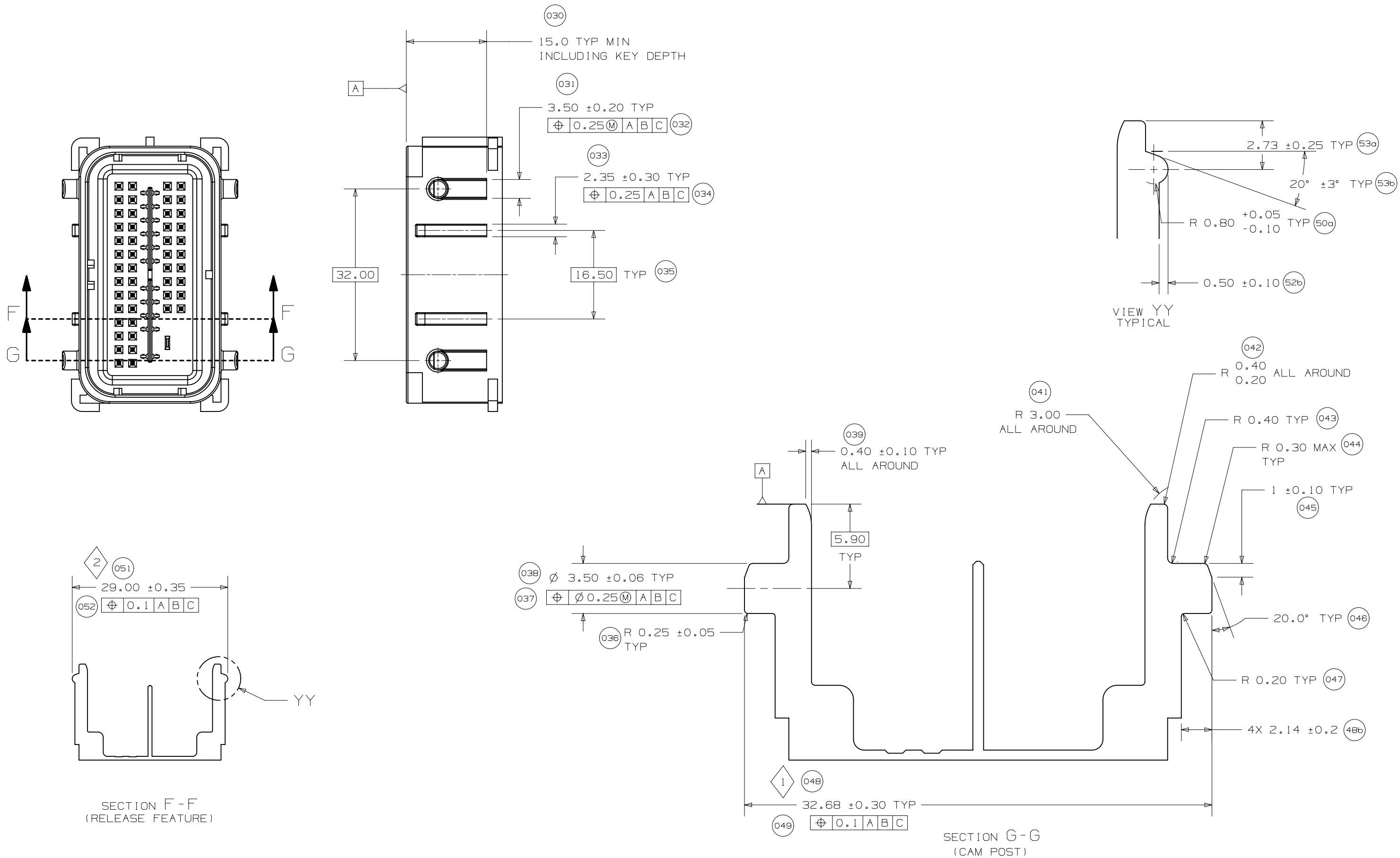
UNLESS SPECIFIED, TOLERANCE OF THE DEVICE INTERFACE TO BE 0.13 A B C



PAGE TITLE
COMPONENT CONNECTOR INTERFACE

DRAWING NUMBER
12642694

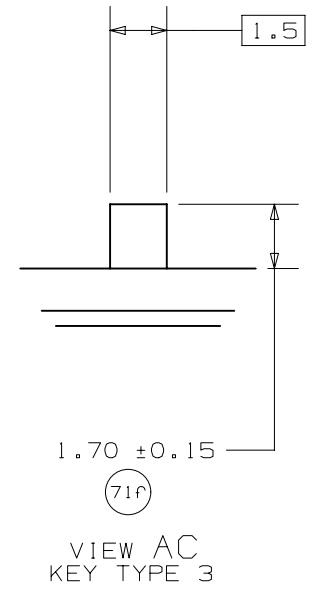
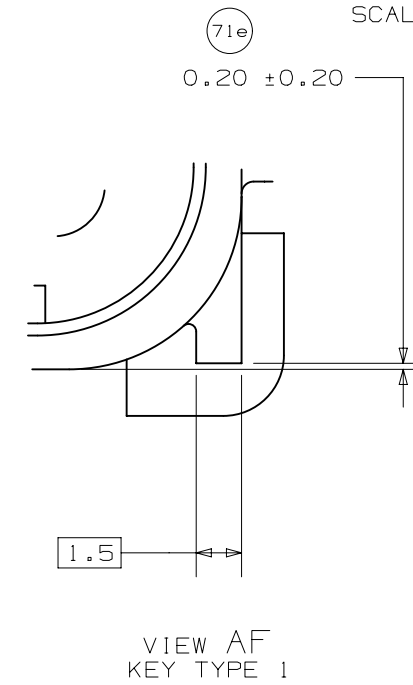
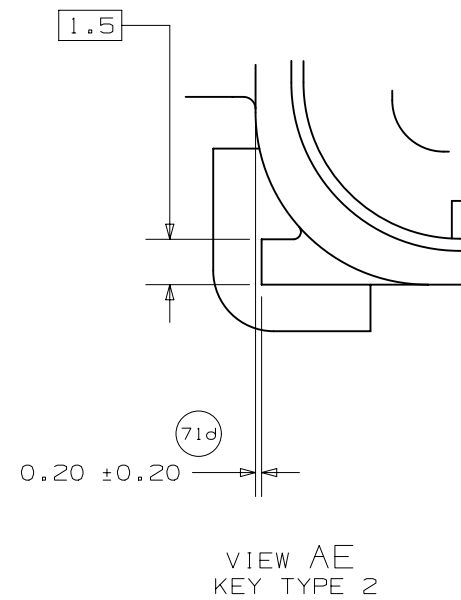
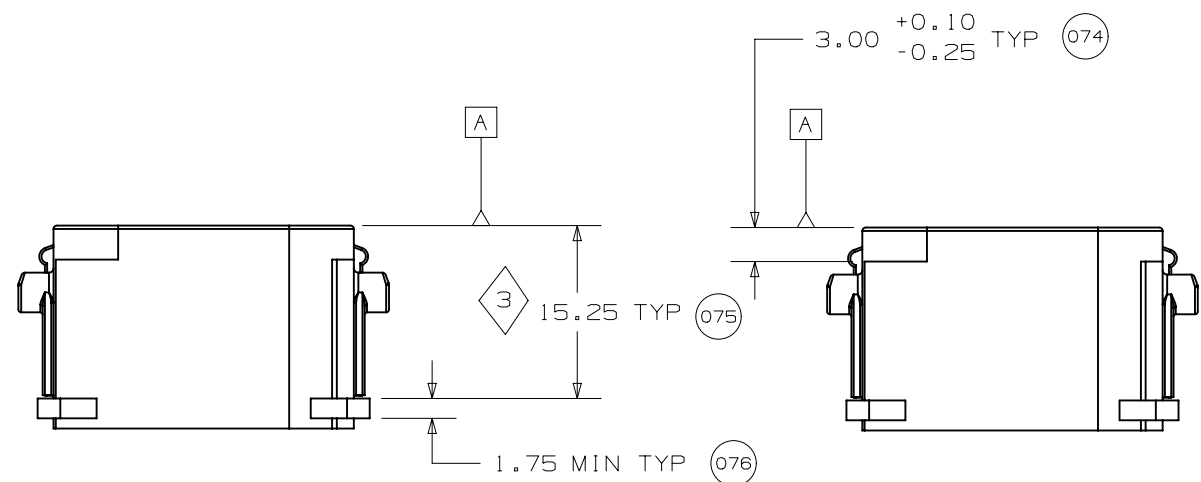
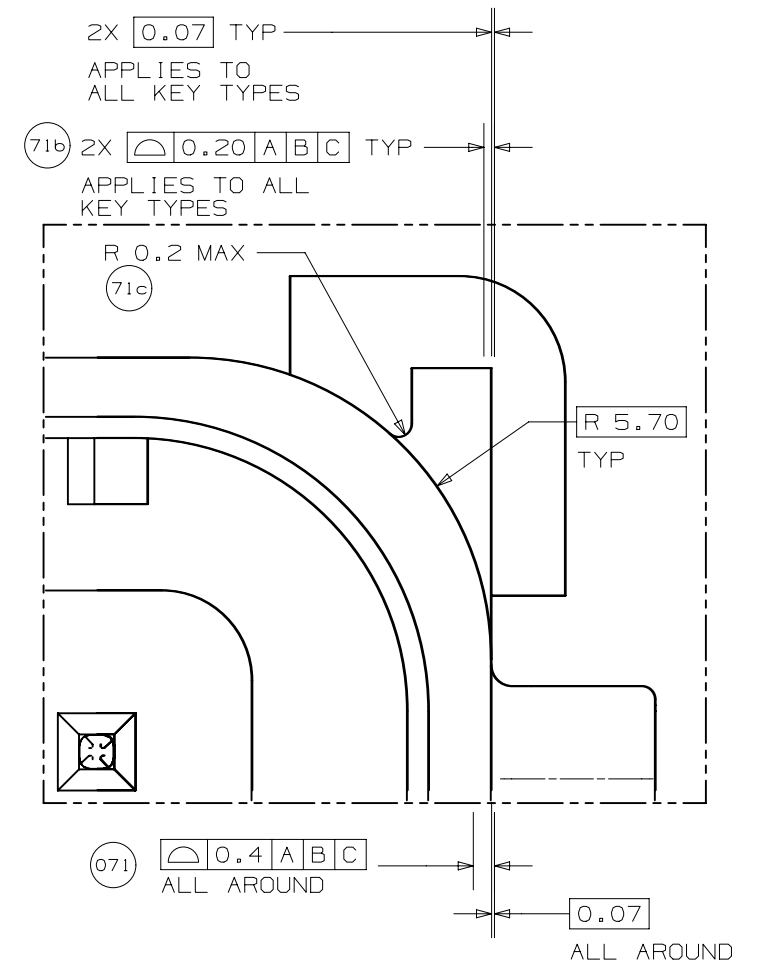
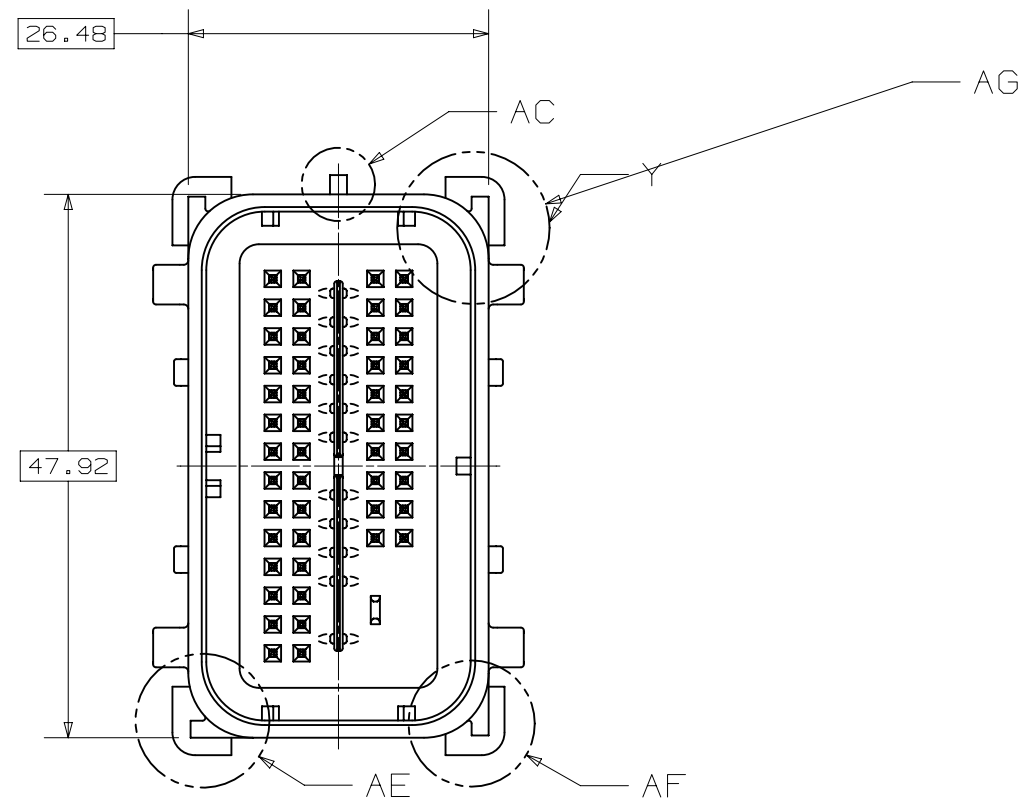
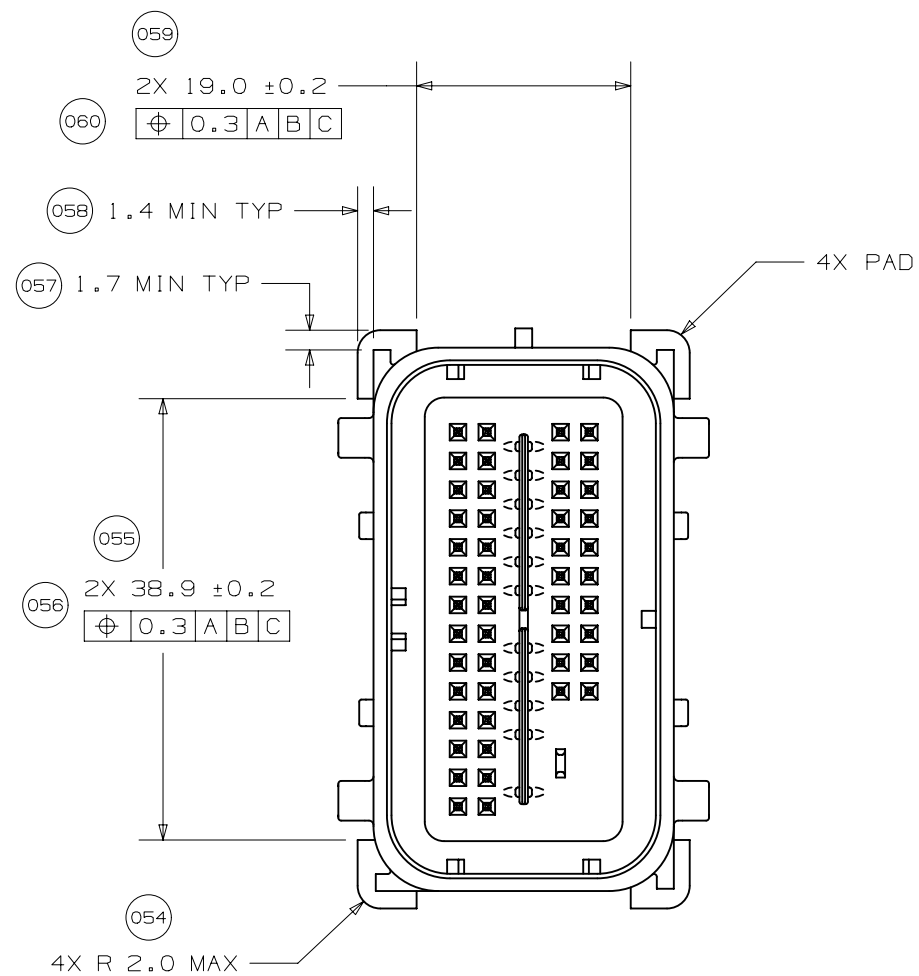
DWG STATUS			PAGE NUMBER	
ST	REV	PD1	15	OF 22
R	001			



PAGE TITLE
COMPONENT CONNECTOR INTERFACE

DRAWING NUMBER
12642694

DWG STATUS			PAGE NUMBER	
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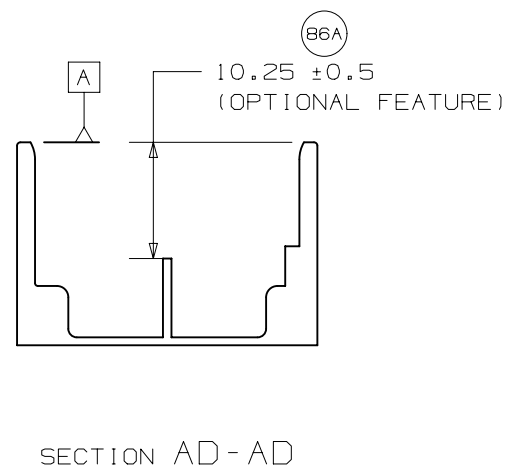
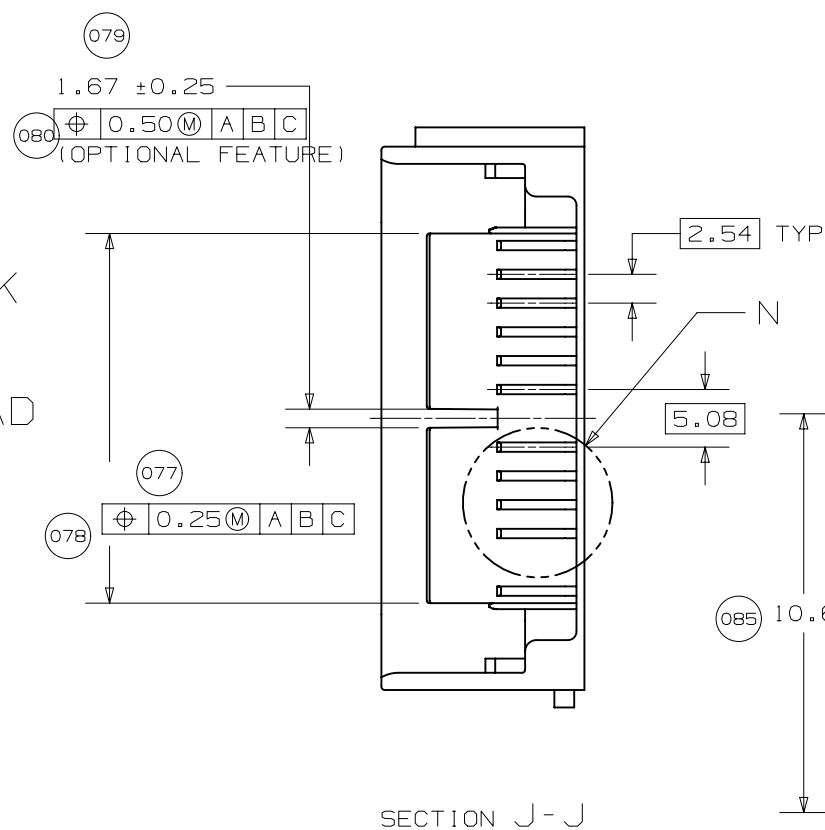
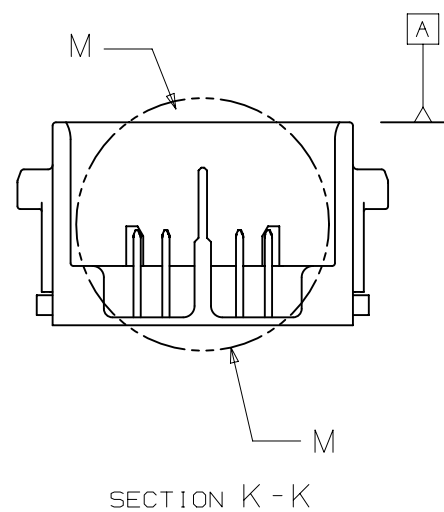
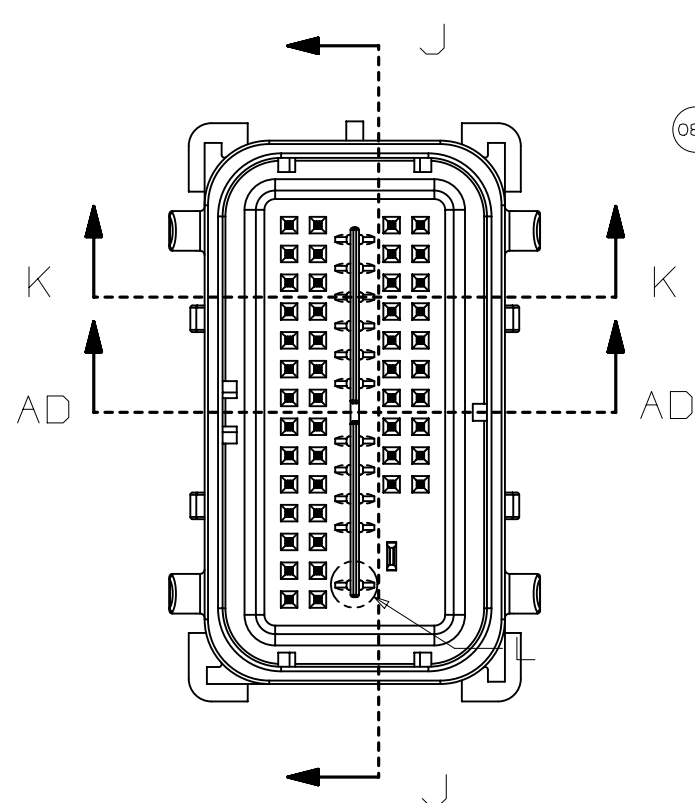


PAGE TITLE
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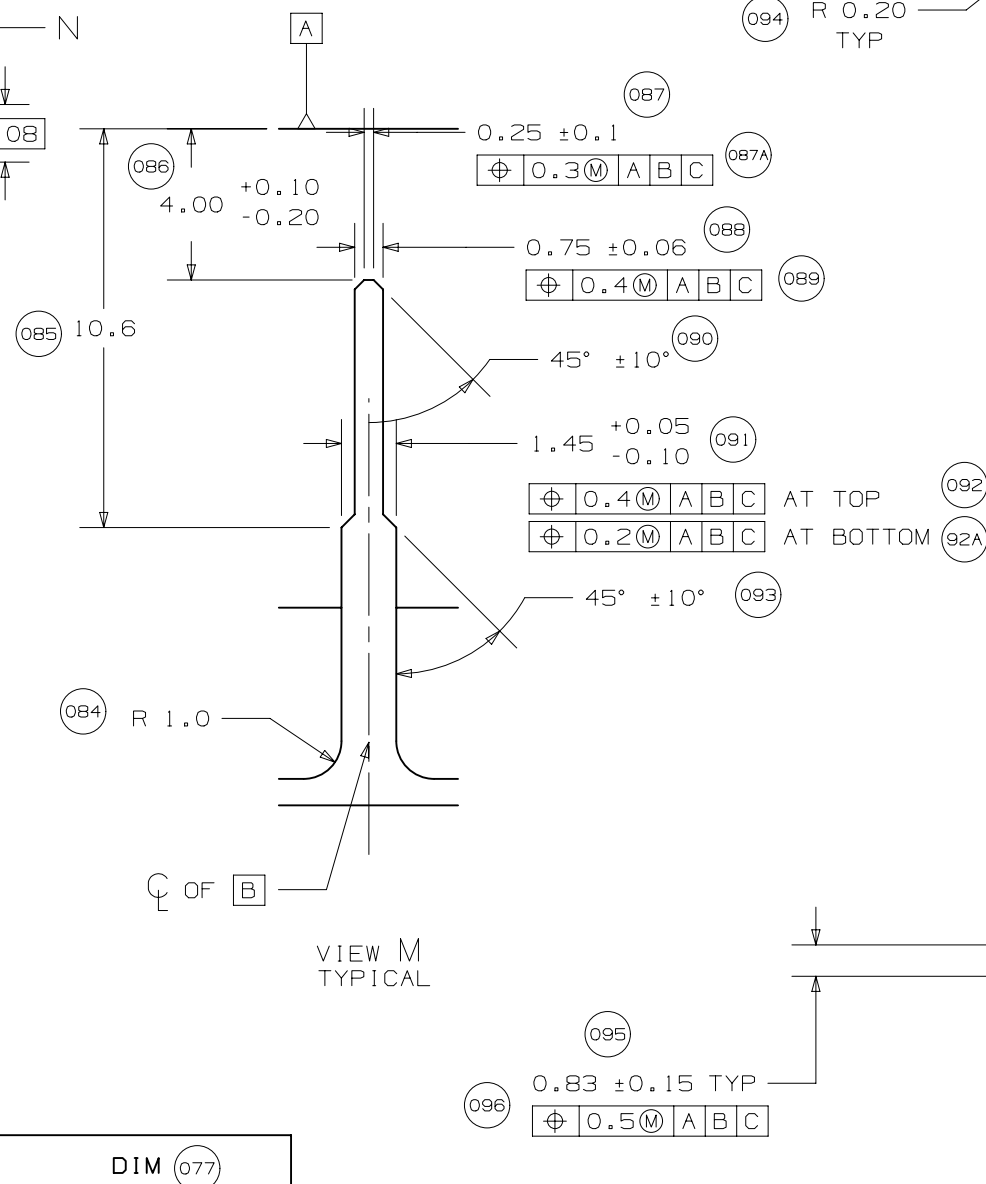
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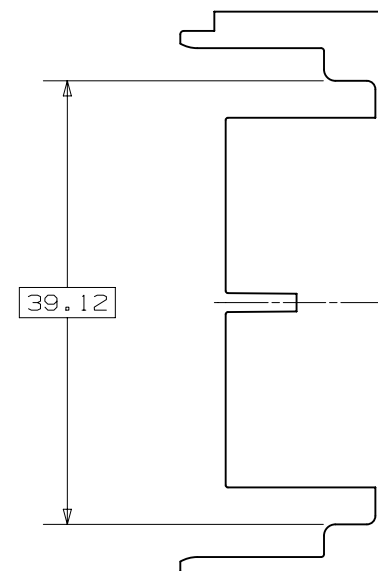
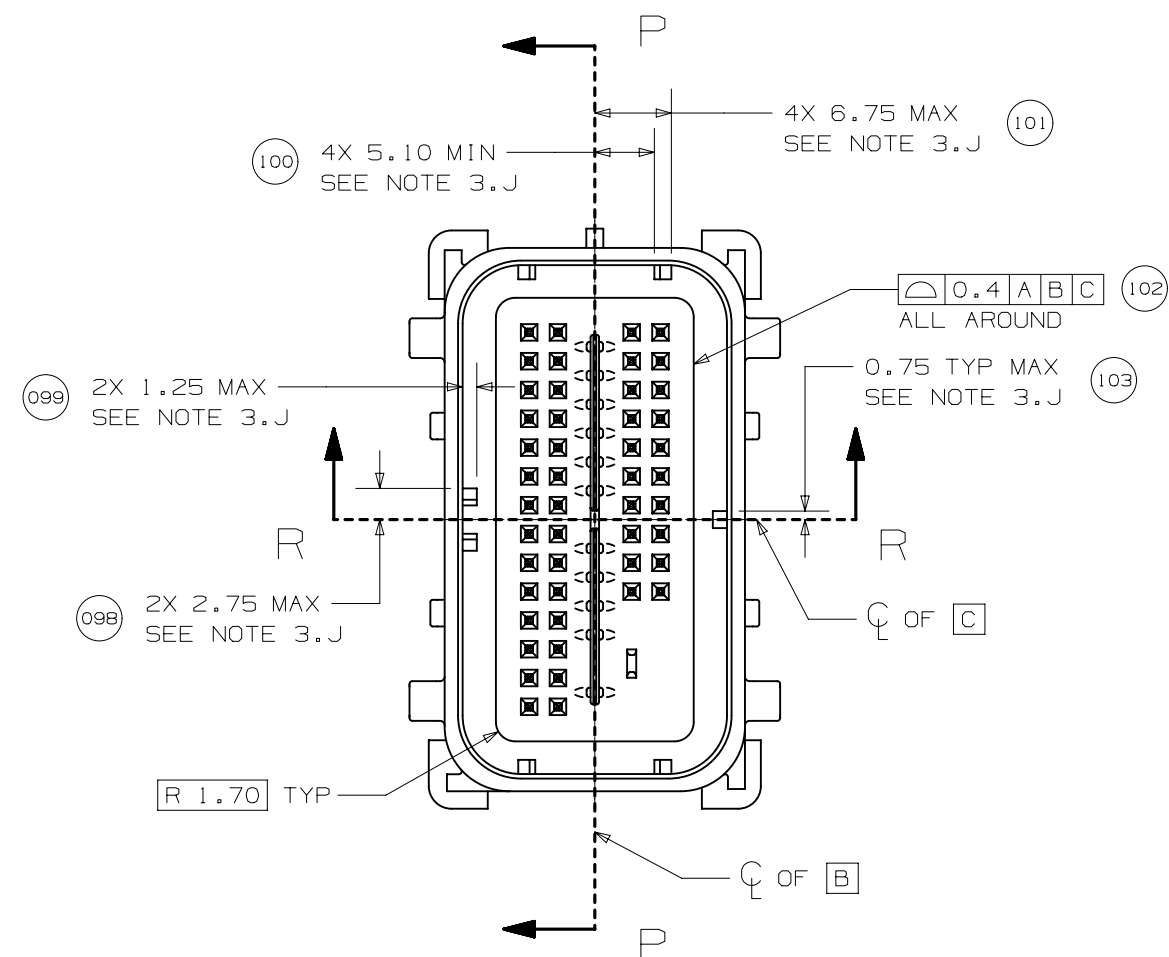
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ST	REV	PD1
R	001	

PAGE NUMBER
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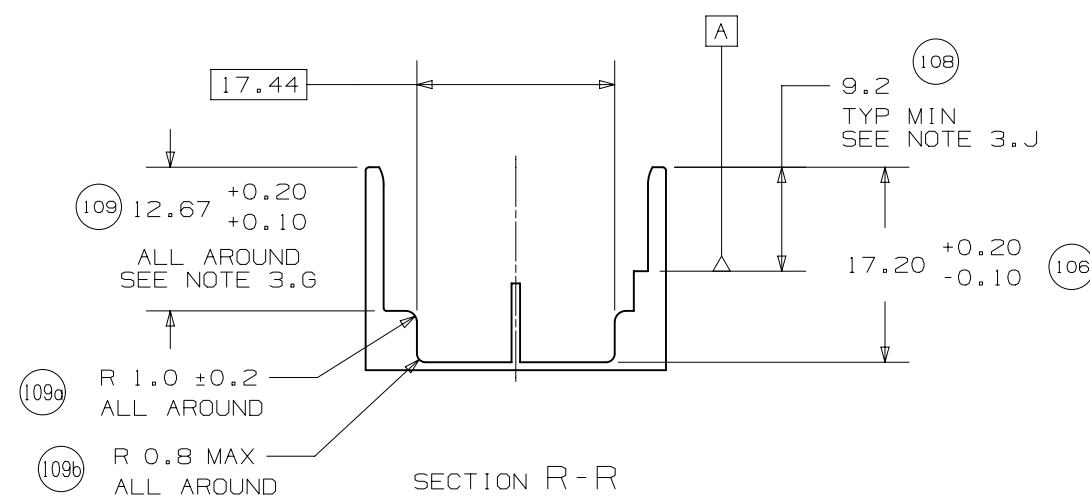


CKT	DIM 077
49 / 56 CKT	32.60 +0.10/-0.80
18 CKT	10.04 +0.10/-0.80



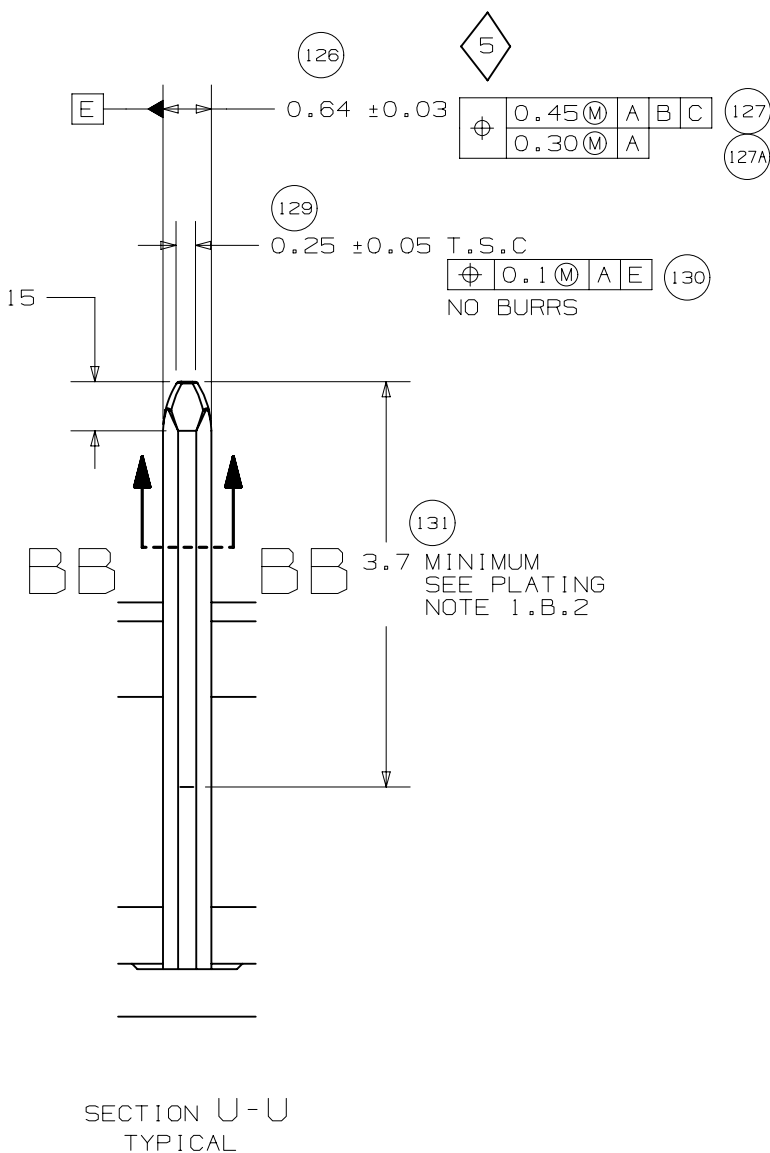
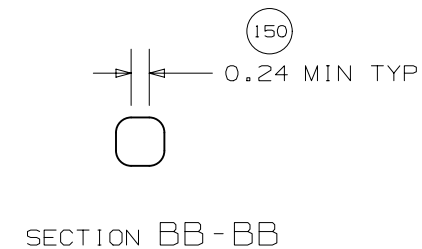
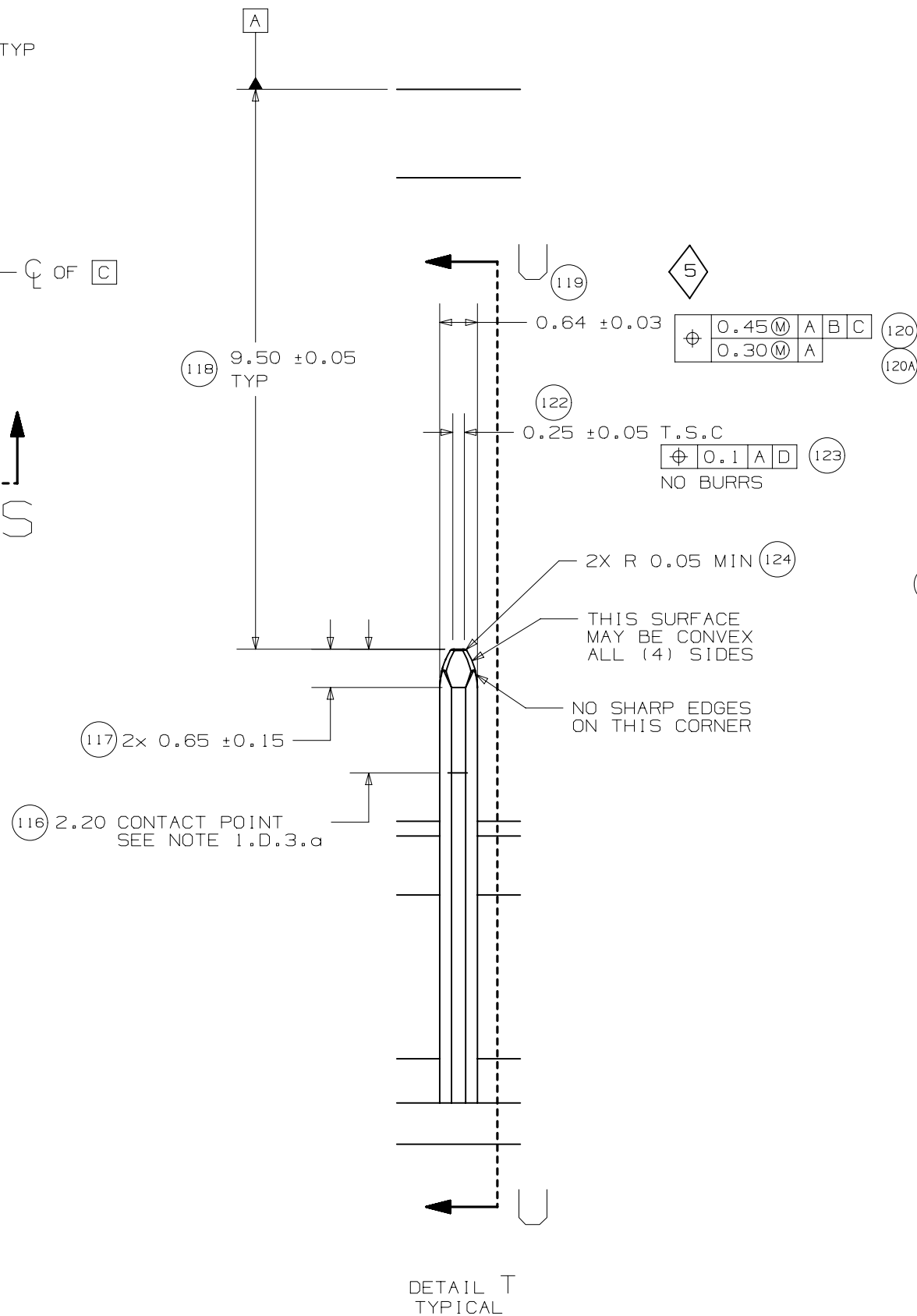
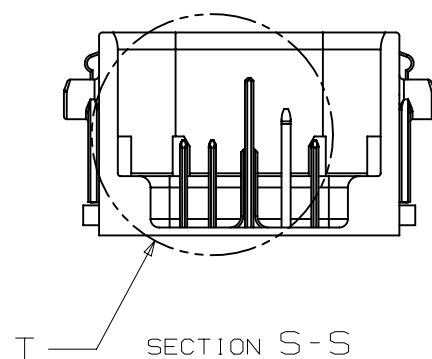
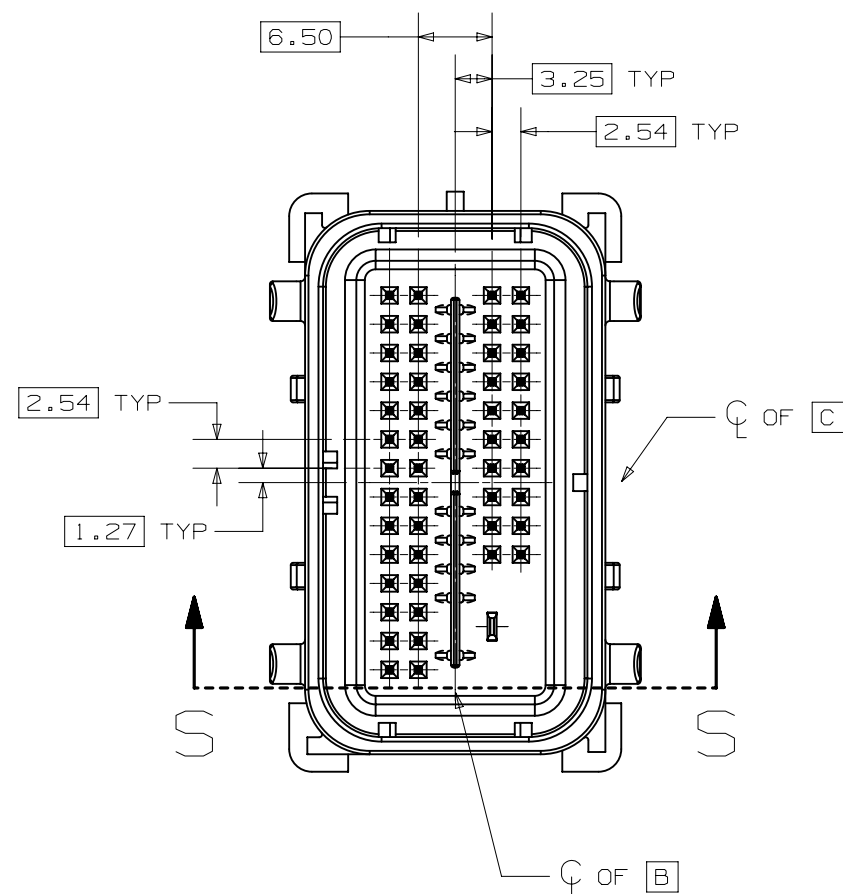


SECTION P-P



SECTION R-R



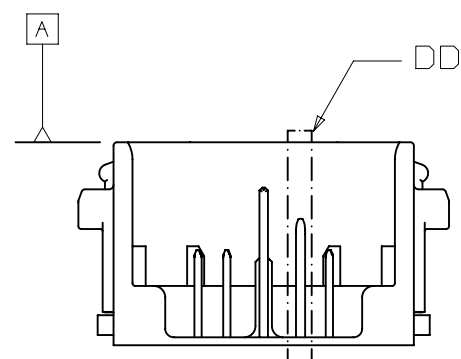
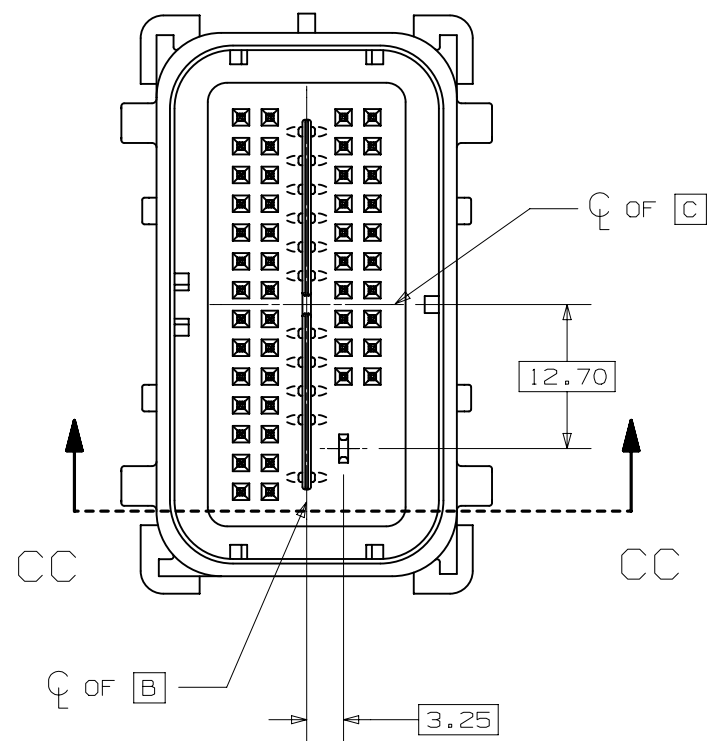


PAGE TITLE
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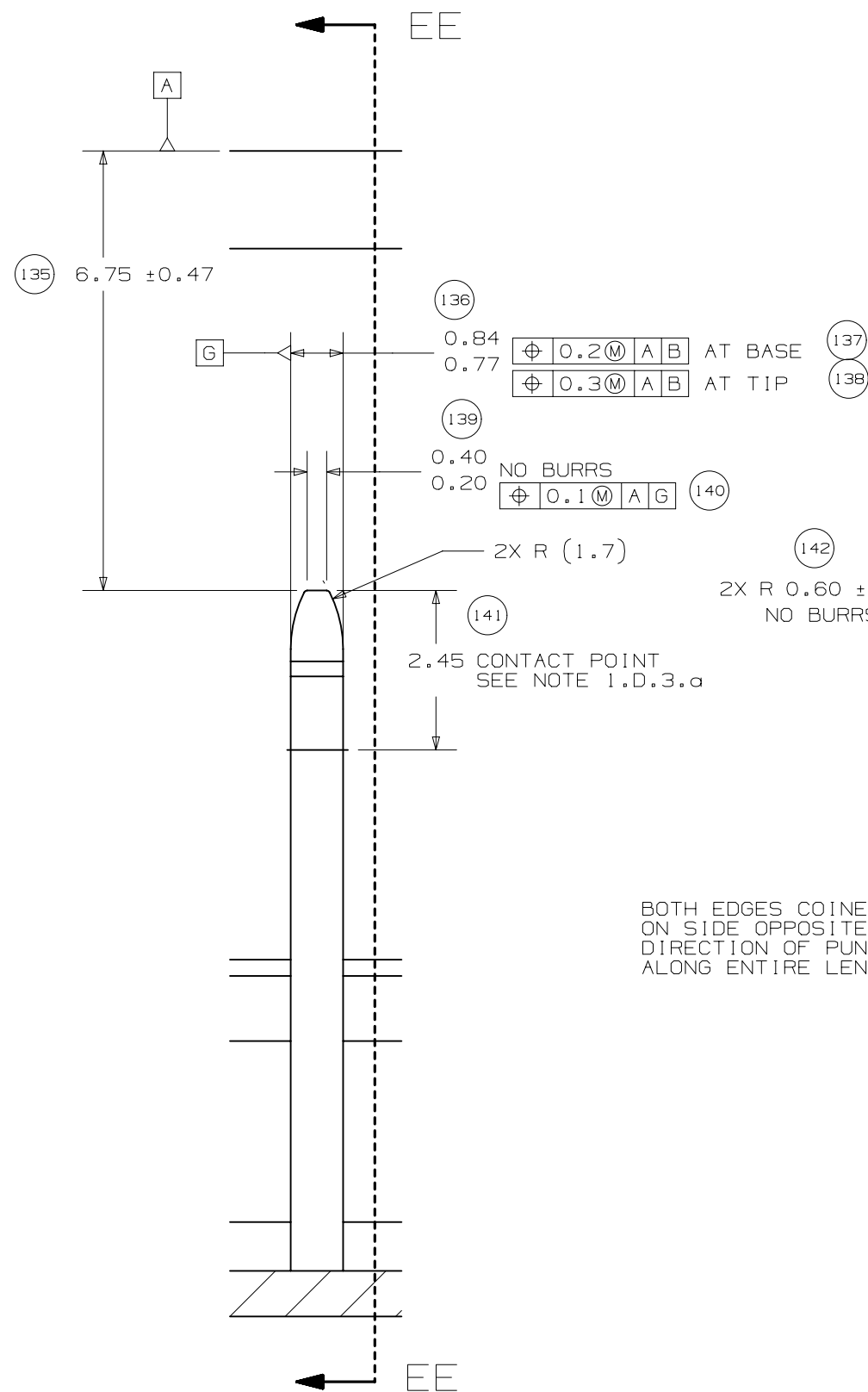
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DWG STATUS		
ST	REV	PD1
R	001	

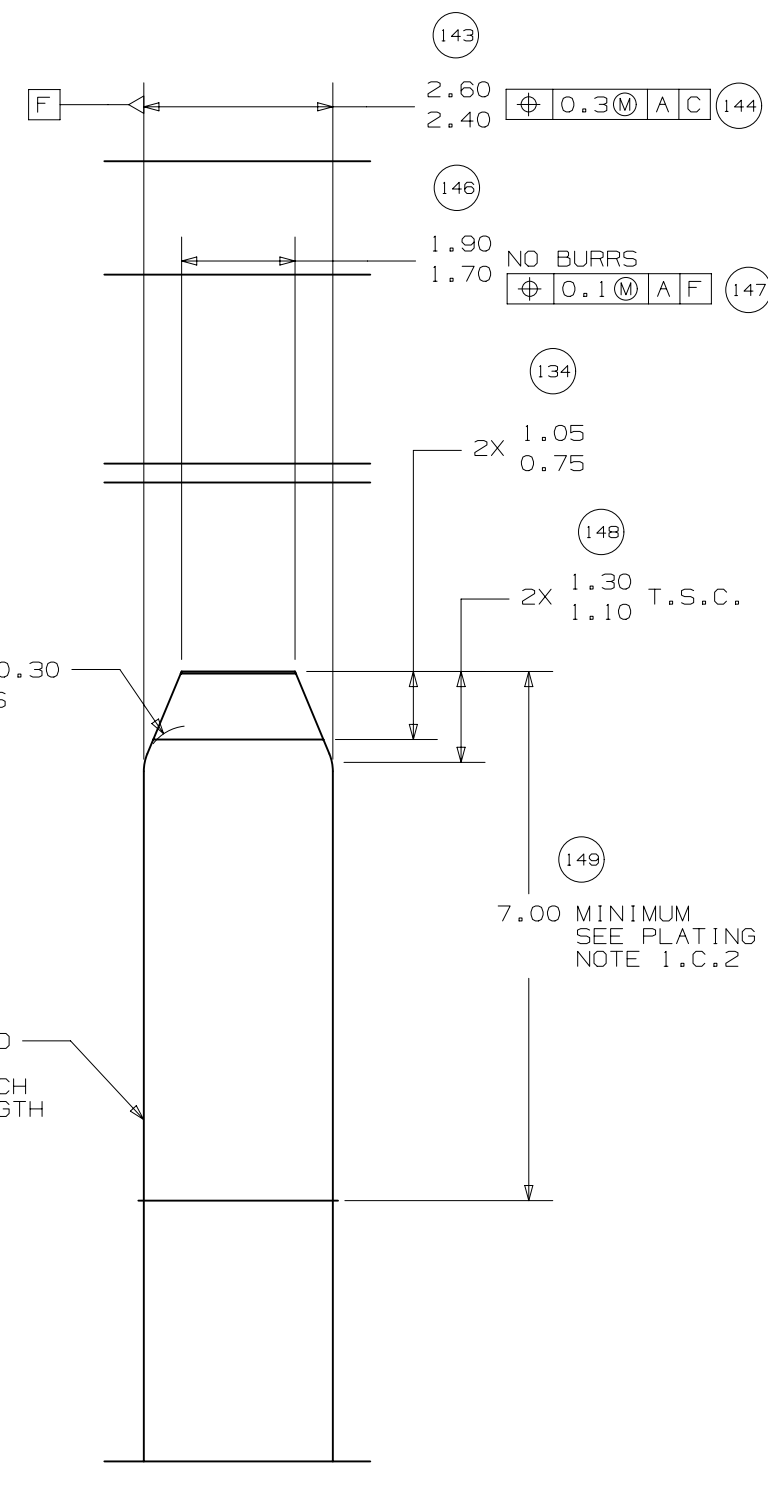
PAGE NUMBER
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SECTION CC-CC



DETAIL DD
TYPICAL



SECTION EE-EE
TYPICAL

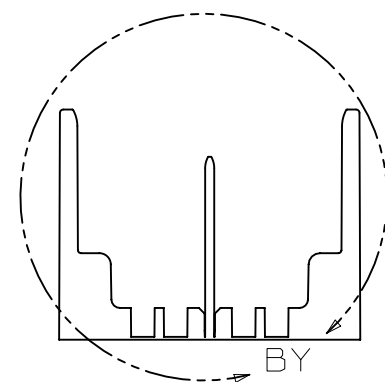
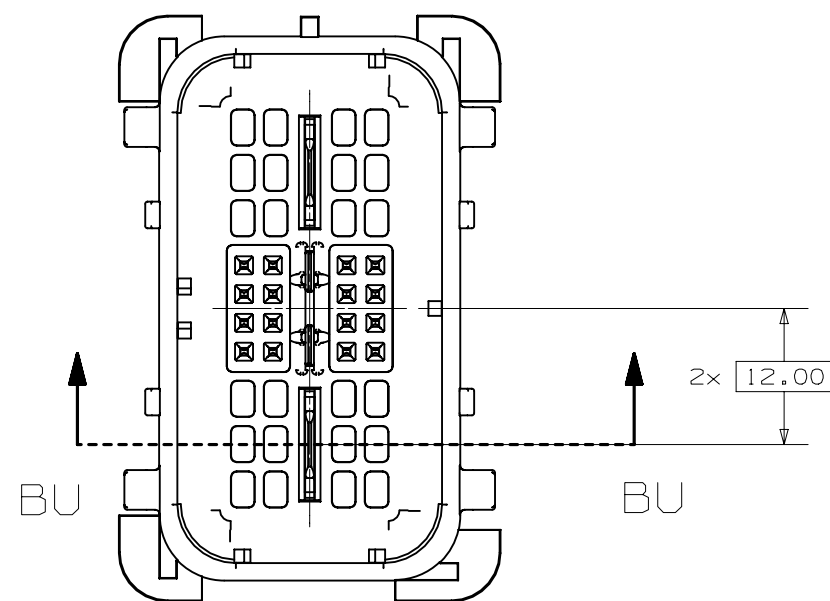


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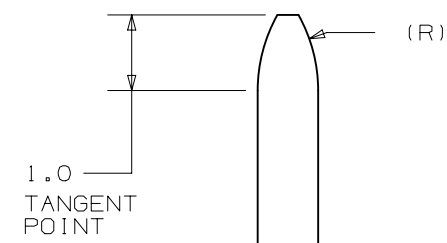
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R	001	

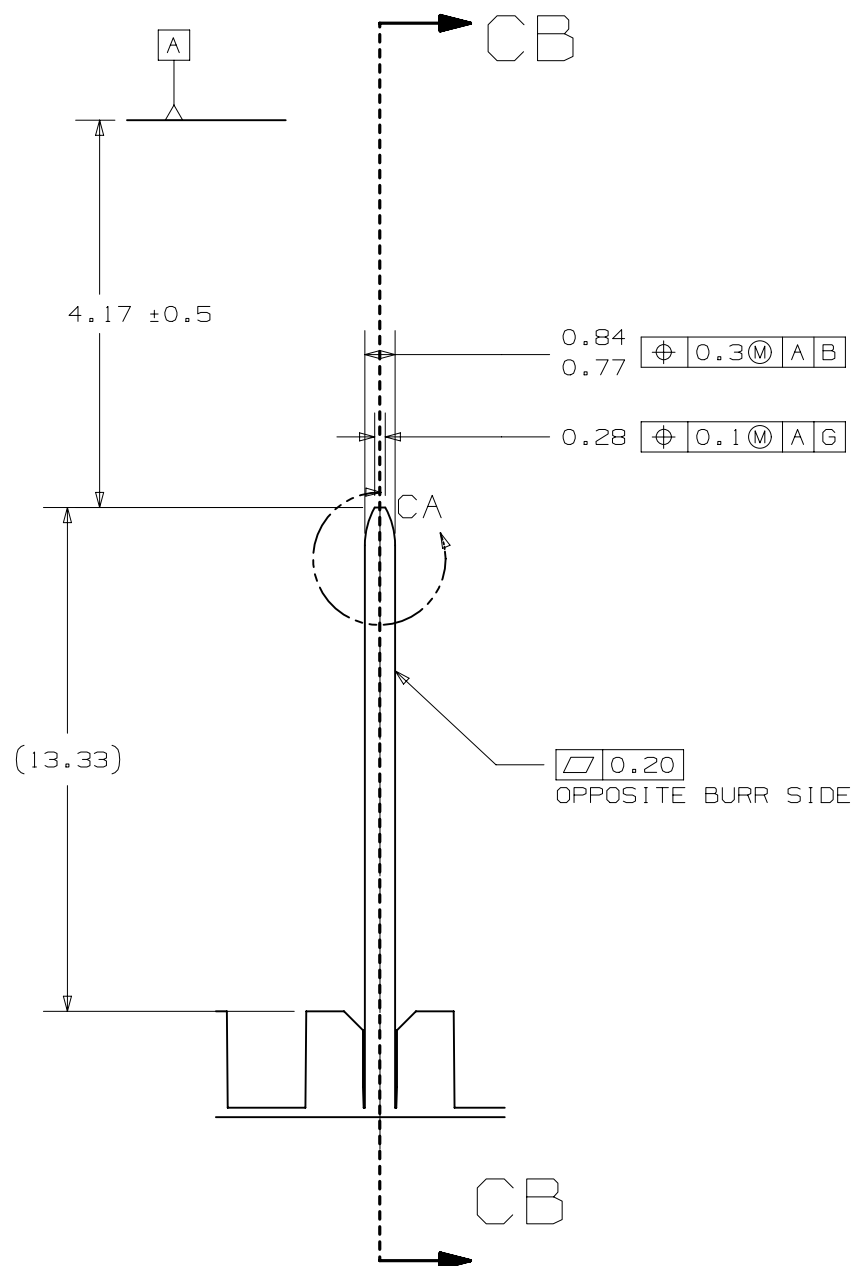
PAGE NUMBER
21 OF 22



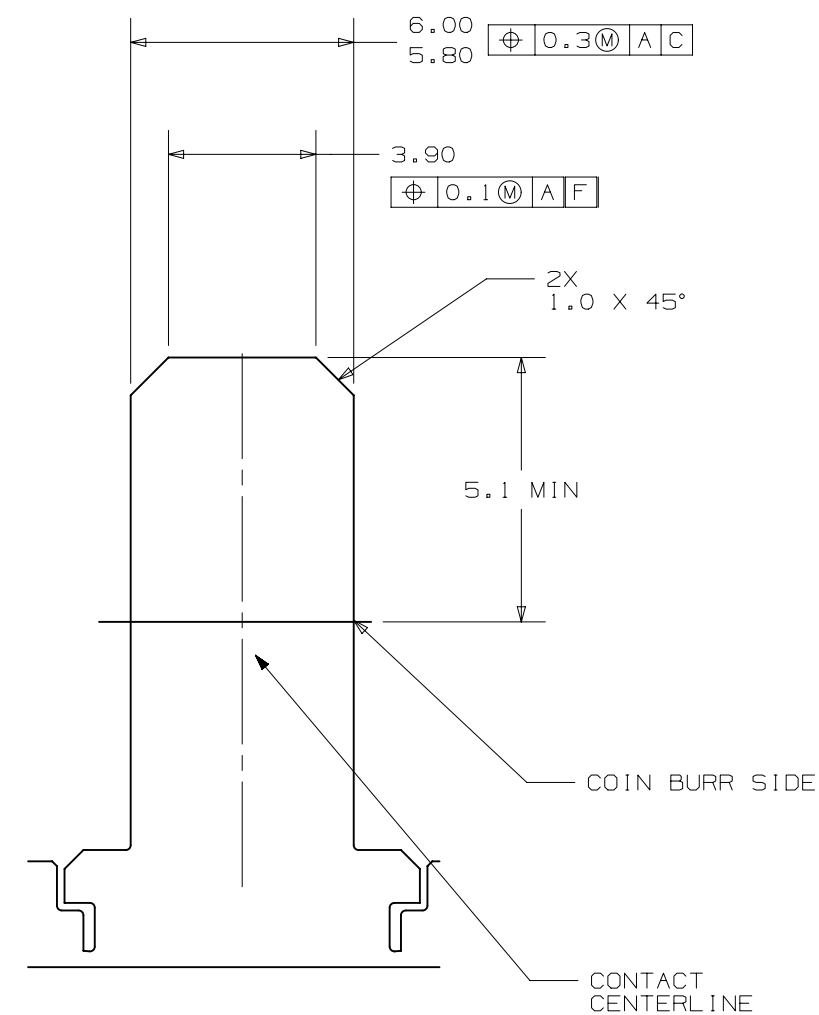
SECTION BU-BU



VIEW CA
SCALE 10:1



VIEW BY
SCALE 5:1



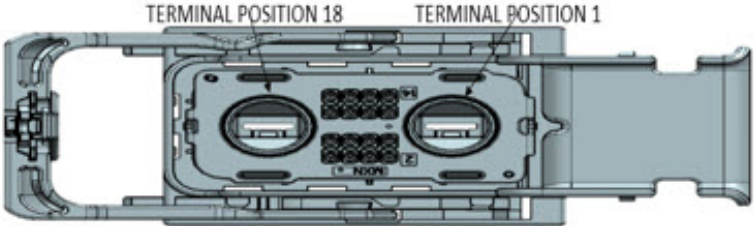
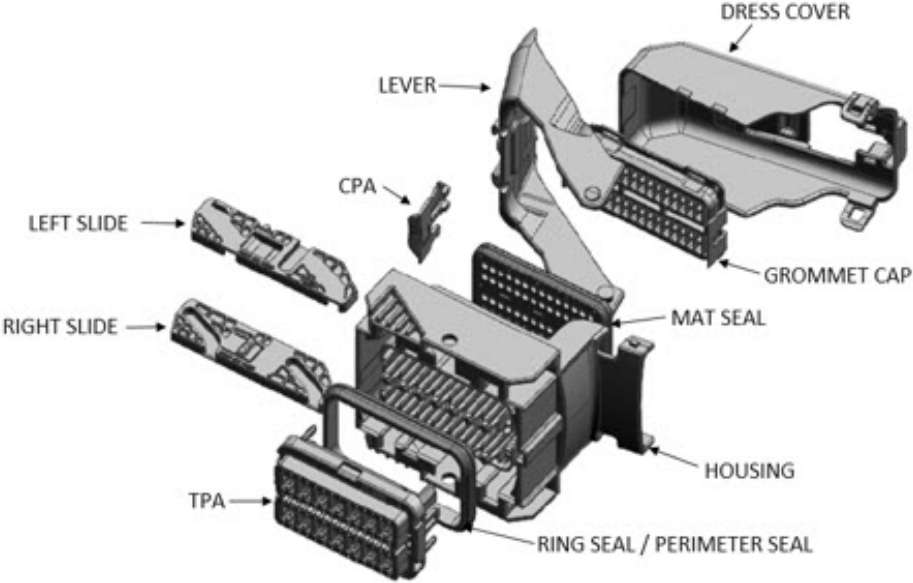
SECTION CB-CB



PAGE TITLE
COMPONENT CONNECTOR INTERFACE

DRAWING NUMBER
12642694

DWG STATUS			PAGE NUMBER	
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R	001		22	OF 22



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	-	-			
												-	4	-	-			

ER NO

DATE06/03/2024

DOCUMENT NO. 348511801

REVISION E

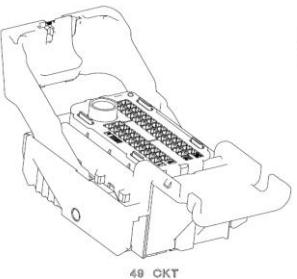
Page 1 of 2



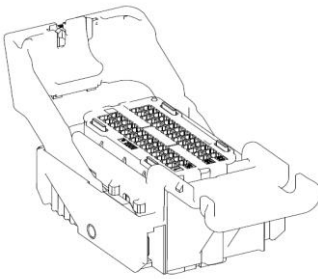
MX123 SEALED RCPT ASSY (18 Ckt)

BOM & PIN OUT SHEET

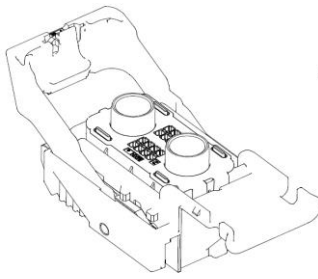
ASSEMBLY DESCRIPTION	ASSEMBLY PART NUMBER	CONNECTOR HOUSING	GROMMET CAP	TPA	RIGHT SLIDE	LEFT SLIDE	MATE ASSIST LEVER	CPA	MAT SEAL	RING SEAL	BLOCKED TERMINALS					STATUS	COMMENTS	INTEGRAL COMPONENTS SOLD SEPARATELY	
											CAVITY WITH A NUMBER INDICATES BLOCKED TERMINAL POSITION							DRESS COVER	
											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				
												-	-	-	-				



48 CKT



56 CKT



18 CKT

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			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	43
							41	40		38					33	32	31	30
						28		26		24				20	19	18		16
							13	12		10							3	2
SALEABLE	NOT APPLICABLE	34576-6873	0	G	BLUE					52				48		46	45	43
							41	40		38					33	32	31	30
						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 ▽Fp											
		NUMBER															
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	30
									25	24		22	21	20	19	18		16
							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															
		NUMBER				Fp															
SALEABLE	NOT APPLICABLE	34851-0027	0	G	BLUE	18															1
											9			7		6					
											5			3		2					
SALEABLE	NOT APPLICABLE	34851-0028	0	H	ST GRY	18					17	16	15	14							1
																10					
																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	29	
						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	10					
												8	7						
												4	3	2					
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 ▽Fp																
		NUMBER																				
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				
SALEABLE	NOT APPLICABLE	34576-7573	0	G	BLUE					52	51	50					45	43				
													35	34	33	32						
						28	27	26								18			15			
SALEABLE	NOT APPLICABLE	34576-7583	0	G	BLUE	14	13	12					7	6			3	1				
										52	51	50					45	43				
																32						
SALEABLE	NOT APPLICABLE	34576-7593	0	G	BLUE	28	27	26								18		15				
						14	13	12					7	6			3	1				
										52	51	50					45	43				
SALEABLE	NOT APPLICABLE	34576-7603	0	G	BLUE								35	34	33	32						
																4						
						28	27	26														
SALEABLE	NOT APPLICABLE	34576-7613	9	C	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	15			
SALEABLE	NOT APPLICABLE	34576-7623	9	A	BLACK	14	13	12		10		8	7	6				1				
						48	47		45	44			41	40	39	38	37	36				
						34	33	32		30						24	23	21				
SALEABLE	NOT APPLICABLE	34576-7633	0	A	BLACK	49						18	17	16	15	14	13	12				
										10	9	8	7	6	5		3	2	1			
SALEABLE	NOT APPLICABLE	34576-7633	0	A	BLACK	48		46		44	43	42		40	39	38		35				
						34	33	32	31		29	28		26	25	24	23		21			
						49						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				
SALEABLE	NOT APPLICABLE	34576-7633	0	A	BLACK					10	9	8	7	6	5		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 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	1
SALEABLE	NOT APPLICABLE	34576-7743	0	C	BLUE						43							
									31		29			26	25			22
						49				20	19							11
																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						
SALEABLE	NOT APPLICABLE	34576-7783	9	C	BLUE	48	47	46	45	44			41	40	39	38	37	36
						34	33	32		30			27			24	23	21
						49						18	17		15	14	13	12
										10	9	8	7	6	5		3	2
SALEABLE	NOT APPLICABLE	34576-7793	9	A	BLACK	48	47	46	45					40		38	37	36
						34		32	31						25	24	23	22
						49				20	19	18	17	16	15			12
										10	9				5			2
SALEABLE	NOT APPLICABLE	34576-7803	0	G	BLUE			54	53				49	48	47			44
								40	39	38	37	36	35	34		32	31	30
								26	25	24	23	22		20	19			15
								12	11	10	9	8	7	6	5	4		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	34576-7813	9	C	BLUE	48	47	46	45	44			41	40	39	38	37	36
						34	33	32		30			27			24	23	21
						49				10	9	8	7		15	14	13	12
SALEABLE	NOT APPLICABLE	34576-7823	0	A	BLACK	48	47	46	45					40		38	37	36
						34		32	31		29				25	24	23	22
						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
						34		32	31			28	27		25	24	23	22
						49				20	19	18	17	16	15			12
SALEABLE	NOT APPLICABLE	34576-7853	0	C	BLUE	48	47	46	45	44		42	41	40	39	38	37	36
						34	33	32		30	29	28	27			24	23	21
						49				20		18	17	16	15	14	13	12
SALEABLE	NOT APPLICABLE	34576-7863	9	A	BLACK	48		46			43				39	38		36
						34	33		31		29		27		25	24	23	21
						49				20	19							11
SALEABLE	NOT APPLICABLE	34576-7873	9	C	BLUE	48	47	46	45	44	43		41	40	39	38	37	36
						34	33	32		30			27			24	23	21
						49					9	8	7	6	5		3	1
SALEABLE	NOT APPLICABLE	34576-7883	9	A	BLACK	48	47	46	45	44	43			40			37	36
						34		32	31		29		27		25	24	23	22
						49				20	19	18		16				12
SALEABLE	NOT APPLICABLE	34576-7893	9	A	BLACK	48	47	46	45					40		38	37	36
						34		32	31		29				25	24	23	22
						49				20	19		17	16				2
SALEABLE	NOT APPLICABLE	34576-7893	9	A	BLACK	48	47	46	45						5			2
						34		32	31		9							
						49				10								

STATUS	GM PART #	HRNS CONN ASSY			GROMMET CAP															
		MATERIAL/PART	WIRE DRESS OPTION	KEY OPTION ▽Fp	COLOR OPTION ▽Fp	NUMBERS INDICATE CAVITIES OPEN FOR CIRCUITS ▽Fp														
		NUMBER																		
SALEABLE	NOT APPLICABLE	34576-7903	0	A	BLACK	48	47	46	45					40		38	37	36		
						34		32	31		29				25	24	23	22		
						49				20	19		17	16				12		
										10	9				5				2	1
SALEABLE	NOT APPLICABLE	34576-7913	9	A	BLACK	48		46			43				39	38		36	35	
						34	33	32	31		29		27		25	24	23	22	21	
						49				20	19							11		
										10	9		7	6					1	
SALEABLE	NOT APPLICABLE	34576-7923	0	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	18	17	16	15			12		
										10	9			6	5				2	1
SALEABLE	NOT APPLICABLE	34576-7933	0	C	BLUE															
						49				20		18	17	16		14	13	12		
											9	8	7	6			3		1	
SALEABLE	NOT APPLICABLE	34576-7943	0	A	BLACK	48	47	46	45					40		38	37	36		
						34		32	31		29				25	24	23	22		
						49				20	19			16	15			12		
										10	9				5				2	1
SALEABLE	NOT APPLICABLE	34576-7953	0	G	BLUE					52	51	50				46	45			
															33					
						28	27	26					21			18	17			
						14	13	12									3			
SALEABLE	NOT APPLICABLE	34576-7963	9	A	BLACK	48		46			43			39	38		36	35		
						34	33	32	31		29		27		25	24	23		21	
						49				20	19							11		
										10	9		7	6					1	
SALEABLE	NOT APPLICABLE	34576-7973	0	A	BLACK	48	47	46	45	44	43			40		38	37	36		
						34		32	31			28	27		25	24	23	22		
						49				20	19			16	15			12		
										10	9				5				2	1
SALEABLE	NOT APPLICABLE	34576-7983	9	A	BLACK											38				
							33	32			29	28		26	25		23			
						49				20		18		16	15					
										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																		
SALEABLE	NOT APPLICABLE	34576-7993	9	C	BLUE		47		45	44		42		40	39	38	37	36		
						34		32		30		28				24	23		21	
						49						18	17		15	14	13	12	11	
SALEABLE	NOT APPLICABLE	34576-8003	0	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				12		
SALEABLE	NOT APPLICABLE	34576-8013	0	H	ST GRY			54	53	52	51					46	45	44	43	
								40	39	38	37	36	35	34	33					
								26	25											
SALEABLE	NOT APPLICABLE	34576-8023	9	A	BLACK	14	13	12	11			8	7	6	5			2	1	
						48	47	46	45				40			37	36			
						34		32	31		29				25	24	23	22		
SALEABLE	NOT APPLICABLE	34576-8033	9	A	BLACK	49				20	19	18		16				12		
										10	9				5			2	1	
SALEABLE	NOT APPLICABLE	34576-8043	9	A	BLACK											38				
							33	32			29	28		26	25		23			
						49				20		18	17	16	15					
SALEABLE	NOT APPLICABLE	34576-8043	9	C	BLUE		47		45	44				40	39	38	37	36		
						34		32		30		28				24	23		21	
						49						18	17		15	14	13	12	11	
SALEABLE	NOT APPLICABLE	34576-8053	0	A	BLACK															
						48	47	46	45	44	43			40		38	37	36		
						34		32	31		29	28	27		25	24	23	22		
SALEABLE	NOT APPLICABLE	34576-8063	9	A	BLACK	49				20	19		16				12			
										10	9				5			2	1	
SALEABLE	NOT APPLICABLE	34576-8073	0	C	BLUE	48	47	46	45	44			41	40	39	38	37	36		
						34	33	32		30		28				24	23	22	21	
						49				20		18	17	16		14	13	12		
SALEABLE	NOT APPLICABLE	34576-8073	0	C	BLUE															
											9	8	7	6			3		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 ▽Fp														
		NUMBER																		
SALEABLE	NOT APPLICABLE	34576-8083	0	H	ST GRY	56	55	54	53	52	51					46	45	44	43	
						42	41	40	39	38	37	36	35	34	33					
						28	27	26	25	24	23	22	21	20	19					
						14	13	12	11			8	7	6	5			2	1	
SALEABLE	NOT APPLICABLE	34576-8093	0	H	ST GRY			54	53	52	51					46	45	44	43	
								40	39	38	37	36	35	34	33					
						28	27	26	25	24	23									
						14	13	12	11			8	7	6	5			2	1	
SALEABLE	NOT APPLICABLE	34576-8103	0	H	ST GRY			54	53	52	51									
								40	39	38	37	36	35	34	33					
						28	27	26	25	24	23									
						14	13	12	11									2	1	
SALEABLE	NOT APPLICABLE	34576-8113	0	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	18	17	16	15			12		
										10	9				5			2	1	
SALEABLE	NOT APPLICABLE	34576-8123	0	A	BLACK	48	47	46	45	44	43			40		38	37	36		
						34		32	31			28	27		25	24	23	22		
						49				20	19		17	16	15			12		
										10	9				5			2	1	
SALEABLE	NOT APPLICABLE	34576-8133	0	A	BLACK	48		46		44	43	42		40	39	38		35		
						34	33	32	31		29	28		26	25	24	23		21	
						49										14		11		
											8	7					3		1	
SALEABLE	NOT APPLICABLE	34576-8143	0	G	BLUE	56	55	54	53	52	51	50	49	48	47	46	45	44	43	
								40				36	35				31			
							27		25	24		22	21		19	18				
							13	12		10	9	8	7	6			3			
SALEABLE	NOT APPLICABLE	34576-9133	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	18	17	16				12		
										10	9				5			2	1	
SALEABLE	NOT APPLICABLE	34576-9143	9	C	BLUE		47		45	44				40	39	38	37	36		
						34		32		30				26	25	24	23		21	
						49						18	17		15	14	13	12		
										10	9		7	6	5		3		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 Fp												
		NUMBER																
SALEABLE	NOT APPLICABLE	34576-9153	9	A	BLACK					44	43		41				37	36
						34	33	32									22	
						49						18	17	16	15			
												8	7	6	5			

KEY PRODUCT CHARACTERISTICS
(IN ACCORDANCE WITH QN 1805 OR ON 1050)



SAFETY/COMPLIANCE

TOTAL ON
DRAWING

4



FIT/FUNCTION

LAST NO.
USED

4

NO	TYPE	DESCRIPTION	RATIONALE	PAGE/ZONE
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
4	F/F	POSITIONAL TOLERANCE (2 PLACES)	INSURE CONNECTOR SYSTEM MATIBILITY	19

ENTER DESCRIPTION IEC NO: UAU2017-0870 DRAWN: CHITRALIA CHKD: CHYD: APPR: VKOSHY 2017/03/27 2017/03/29 REV	QUALITY SYMBOLS ▽=0 ▽=0 ▽=0	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE MM ONLY		SCALE 1:1	DESIGN UNITS METRIC	THIRD ANGLE PROJECTION
				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. SEE BOM TABLE		DOCUMENT NO. SD-34576-0001		
		DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		ANGULAR ± 1 °		SIZE D		
THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION								

tb_frame_D_P_AM_T
Rev. G 2012/01/11

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_a6 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_a6 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 IMPURTY 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. 
G. MINIMUM WALL THICKNESS REQUIRED: 1.3mm.
H. CORNERS SHOWN AS SHARP TO BE R 0.2 MAX.
I. 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: JJY (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.
I. 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.

ENTER DESCRIPTION IEC NO: UAU2017-0870 DRAWN: CHITIA CHKD: CHITIA APPR: VKOSHY REV: A4	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 molex		
		mm INCH		DRAWN BY DATE SKRAJENDRANA 2016/12/15		DOCUMENT NO. SD-34576-0001				SHEET NO. 5 OF 22	
		4 PLACES ± --- ± ---		CHECKED BY DATE VKOSHY 2016/12/15							
		3 PLACES ± --- ± ---		APPROVED BY DATE VKOSHY 2017/03/03							
		2 PLACES ± 0.13 ± ---		DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION					
		1 PLACE ± 0.25 ± ---									
0 PLACE ± --- ± ---		ANGULAR ± 1 °		MATERIAL NO.							

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

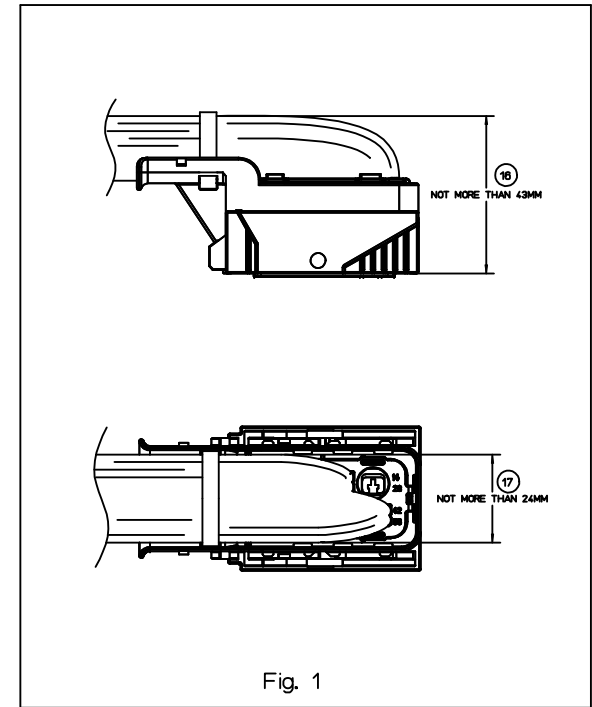
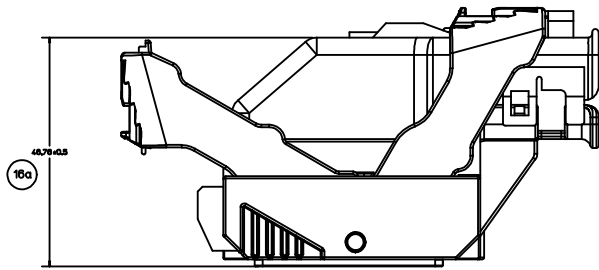
C. 6.3MM RCPT TERM - DELPHI APEX

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

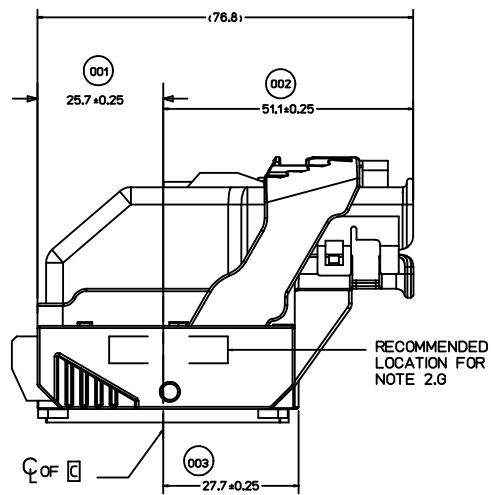
1. 6.3MM RCPT TERM TIN/SILVER CRIMPED TO 6.0MM BLADE (Sn/Ag PLATED): 36A AT 125°C

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

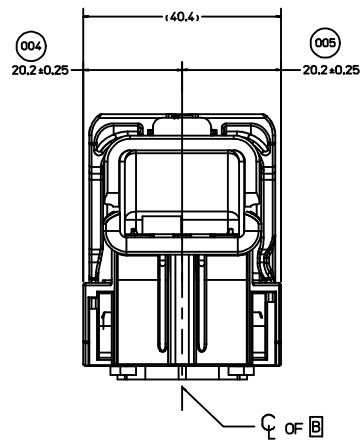
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				DRAWN BY SKRAJENDRANA	DATE 2016/12/15	TITLE ICD - MX123 18/49/56CKT INTERFACE CONNECTION DRW MOLEX			
				CHECKED BY VKOSHY	DATE 2016/12/15				
				APPROVED BY VKOSHY	DATE 2017/03/03				
		ANGULAR ± 1 °		MATERIAL NO.		DOCUMENT NO. SD-34576-0001		SHEET NO. 6 OF 22	
		DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		SEE BOM TABLE		THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION			



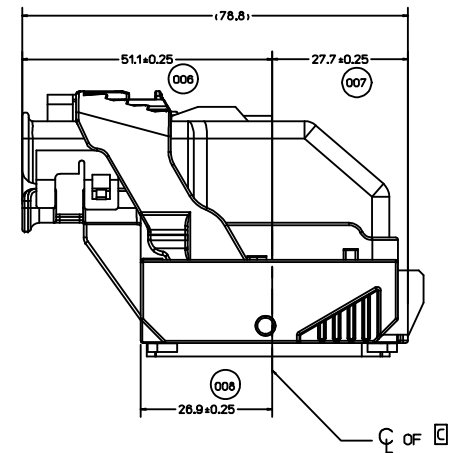
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			MM ONLY					
			DRAWN BY DATE					
			SKRAJENDRANA 2016/12/15					
			CHECKED BY DATE					
			VKOSHY 2016/12/15					
			APPROVED BY DATE					
			VKOSHY 2017/03/03					
			MATERIAL NO.					
			SEE BOM TABLE					
SIZE D								
THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION								



WIRE DRESS OPTION 0 SHOWN



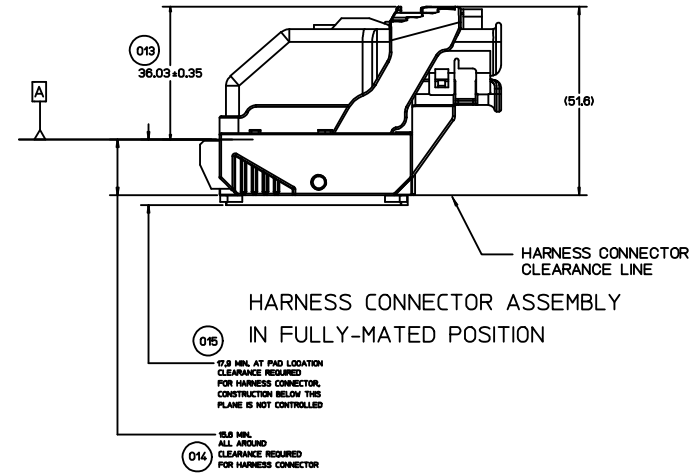
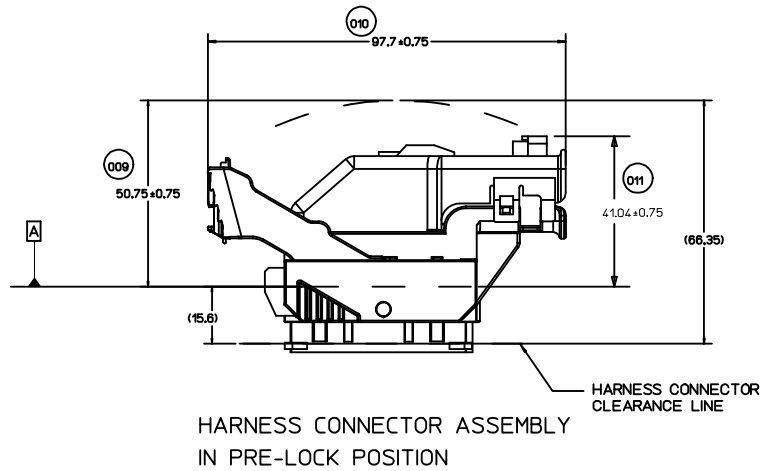
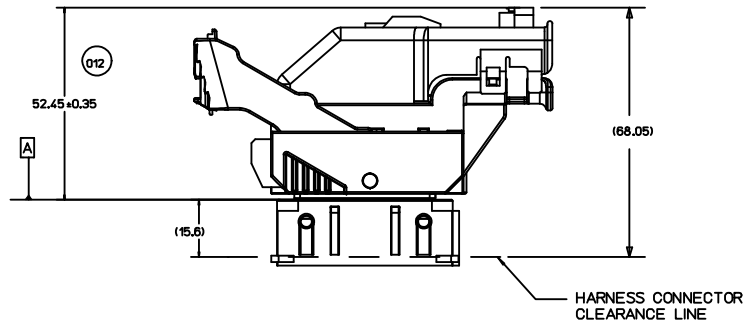
WIRE DRESS OPTION 0 SHOWN



WIRE DRESS OPTION 9 SHOWN

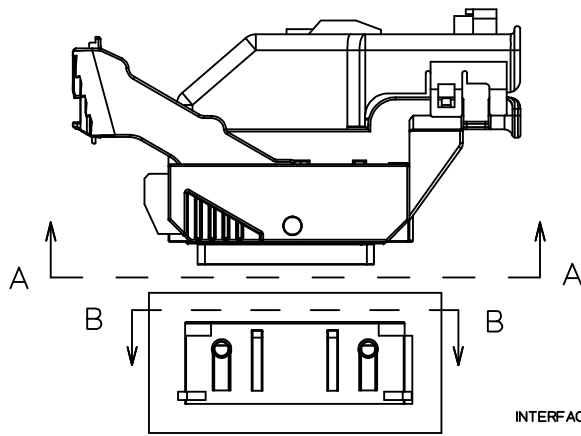
ENTER DESCRIPTION IEC NO: UAU2017-0870 DRAWN: ACHITALLA CHKD: CHYD APPR: WKOSHY 2017/03/27 2017/03/29 REV A4	DESCRIPTION	QUALITY SYMBOLS	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE		SCALE	DESIGN UNITS	THIRD ANGLE PROJECTION
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		▽=0			DRAWN BY DATE		TITLE		
		▽=0			SKRAJENDRANA 2016/12/15		ICD - MX123 18/49/56CKT		
					CHECKED BY DATE		INTERFACE CONNECTION DRW		
					VKOSHY 2016/12/15		MOLEX		
					APPROVED BY DATE		molex		
					VKOSHY 2017/03/03		DOCUMENT NO.		
					MATERIAL NO.		SD-34576-0001		
					ANGULAR ± 1 °		SHEET NO.		
DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS				SEE BOM TABLE		8 OF 22			
				THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION					

20 19 18 17 16 15 14 13 12 11 10 9 8 7 6 5 4 3 2 1

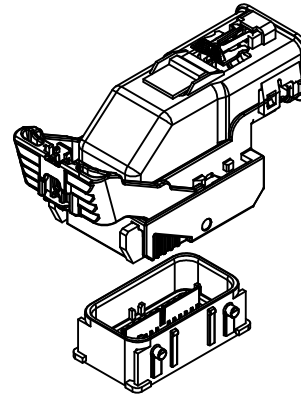


ENTER DESCRIPTION IEC NO: UAU2017-0870 DRAWN BY: ITALIA CHKD: VKOSHY APPR: VKOSHY REV: A4	QUALITY SYMBOLS ▽=0 ▽=0 ▽=0	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE MM ONLY		SCALE 1:1	DESIGN UNITS METRIC	 THIRD ANGLE PROJECTION	TITLE ICD - MX123 18/49/56CKT INTERFACE CONNECTION DRW MOLEX molex SD-34576-0001		
				DRAWN BY	DATE						
		4 PLACES ± --- ± ---		SKRA JENDRANA	2016/12/15						
		3 PLACES ± --- ± ---		CHECKED BY	DATE						
		2 PLACES ± 0.13 ± 0.13		VKOSHY	2016/12/15						
		1 PLACE ± 0.25 ± 0.25		APPROVED BY	DATE						
		0 PLACE ± --- ± ---		VKOSHY	2017/03/03						
				MATERIAL NO.		DOCUMENT NO.					
				SEE BOM TABLE							
				SIZE							
DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION									
								SHEET NO. 9 OF 22			

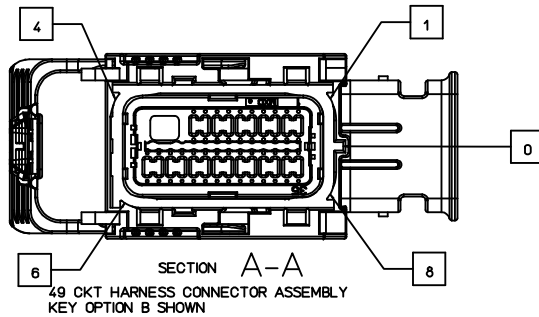
19 18 17 16 15 14 13 12 11 10 9 8 7 6 5 4 3 2 1



INTERFACE SIDE SHOWN IN ALL SECTION VIEWS

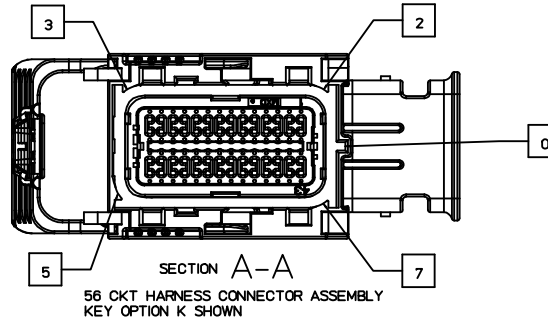


NOTE: REFERENCE THE COMPONENT TABLE FOR KEY OPTIONS AND CONFIGURATIONS



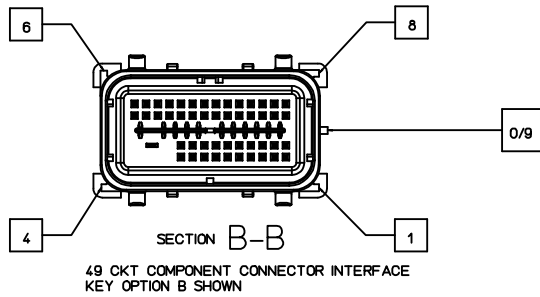
SECTION A-A

49 CKT HARNESS CONNECTOR ASSEMBLY
KEY OPTION B SHOWN



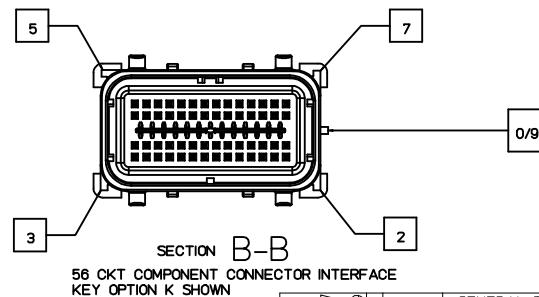
SECTION A-A

56 CKT HARNESS CONNECTOR ASSEMBLY
KEY OPTION K SHOWN



SECTION B-B

49 CKT COMPONENT CONNECTOR INTERFACE
KEY OPTION B SHOWN

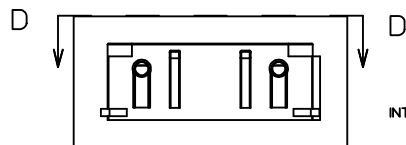
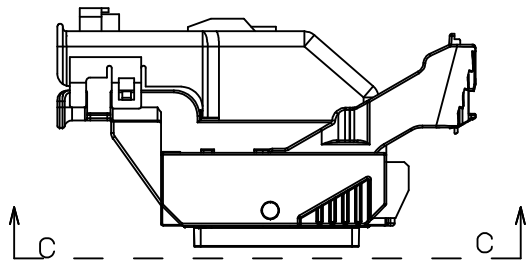


SECTION B-B

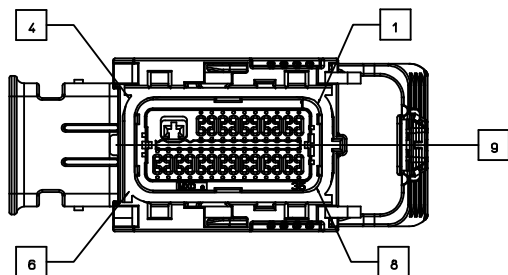
56 CKT COMPONENT CONNECTOR INTERFACE
KEY OPTION K SHOWN

ENTER DESCRIPTION IEC NO: UAU2017-0870 DRAWN BY: DRWNACHITALIA CHKD: APPR:VKOSHY DATE: 2017/03/29 REV: A4	DESCRIPTION	QUALITY SYMBOLS	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE		SCALE	DESIGN UNITS	 THIRD ANGLE PROJECTION
				MM ONLY	1:1	METRIC			
		$\nabla=0$	mm	INCH	DRAWN BY	DATE	TITLE		
		$\nabla=0$	4 PLACES $\pm$ --- $\pm$ ---	SKRAJENDRANA	2016/12/15	ICD - MX123 18/49/56CKT			
		$\nabla=0$	3 PLACES $\pm$ --- $\pm$ ---	CHECKED BY	DATE	INTERFACE CONNECTION DRW			
		2 PLACES $\pm$ 0.13 $\pm$ ---	VKOSHY	2016/12/15	MOLEX				
		1 PLACE $\pm$ 0.25 $\pm$ ---	APPROVED BY	DATE					
		0 PLACE $\pm$ --- $\pm$ ---	VKOSHY	2017/03/03					
		ANGULAR $\pm$ 1°	MATERIAL NO.		DOCUMENT NO.	SHEET NO.			
		DRAFT WHERE APPLICABLE	SEE BOM TABLE		SD-34576-0001		10 OF 22		
		MUST REMAIN WITHIN DIMENSIONS	THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION						

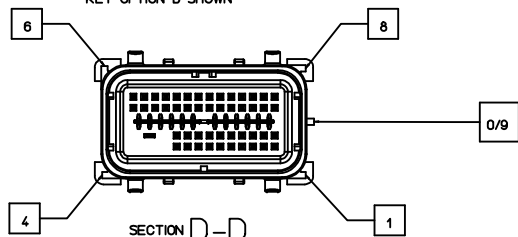
20 19 18 17 16 15 14 13 12 11 10 9 8 7 6 5 4 3 2 1



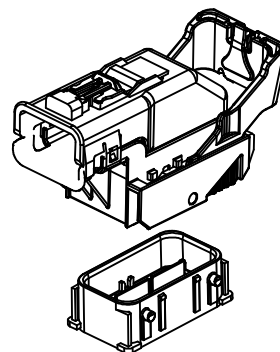
INTERFACE SIDE SHOWN ON ALL SECTION VIEWS



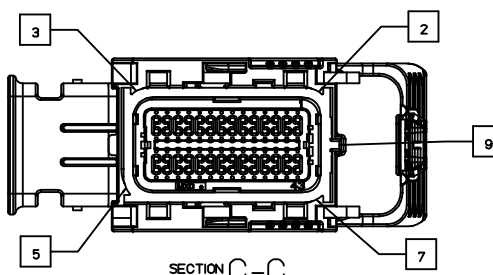
SECTION C-C
49 CKT HARNESS CONNECTOR ASSEMBLY
KEY OPTION B SHOWN



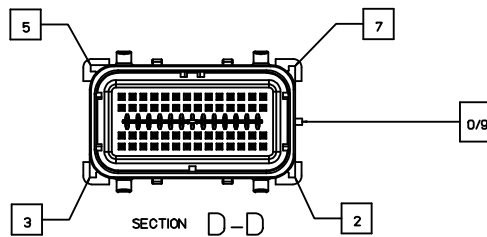
SECTION D-D
49 CKT COMPONENT CONNECTOR INTERFACE
KEY OPTION B SHOWN



NOTE: REFERENCE THE COMPONENT TABLE
FOR KEY OPTIONS AND CONFIGURATIONS

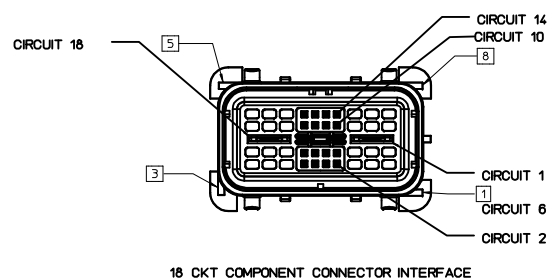
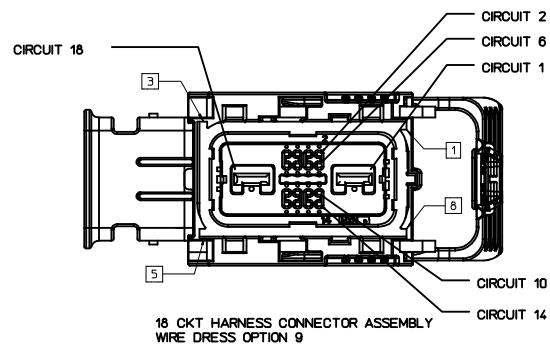
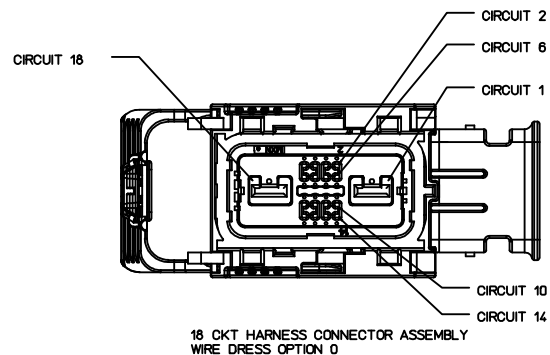


SECTION C-C
56 CKT HARNESS CONNECTOR ASSEMBLY
KEY OPTION K SHOWN



SECTION D-D
56 CKT COMPONENT CONNECTOR INTERFACE
KEY OPTION K SHOWN

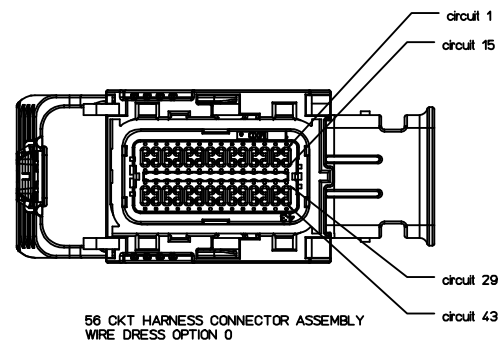
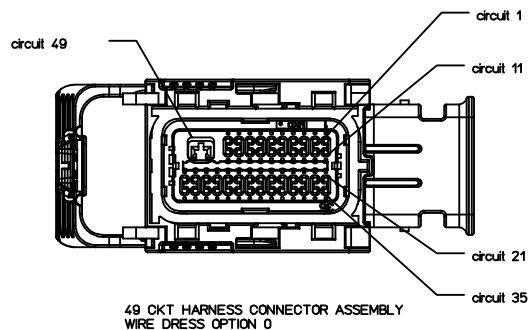
ENTER DESCRIPTION IEC NO: UAU2017-0870 DRAWN: ACHITALLA CHKD: APPR: VKOSHY REV A4	DESCRIPTION 2017/03/17	QUALITY SYMBOLS ▽=0 ▽=0 ▽=0	GENERAL TOLERANCES (UNLESS SPECIFIED)				DIMENSION STYLE MM ONLY		SCALE 1:1	DESIGN UNITS METRIC	THIRD ANGLE PROJECTION	TITLE ICD - MX123 18/49/56CKT INTERFACE CONNECTION DRW MOLEX molex DOCUMENT NO: SD-34576-0001 SHEET NO. 11 OF 22	
			mm		INCH		DRAWN BY	DATE					
			4 PLACES ±		±----		SKRAJENDRANA	2016/12/15					
			3 PLACES ±		±----		CHECKED BY	DATE					
			2 PLACES ±		±----		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								



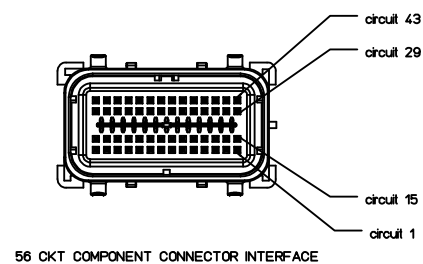
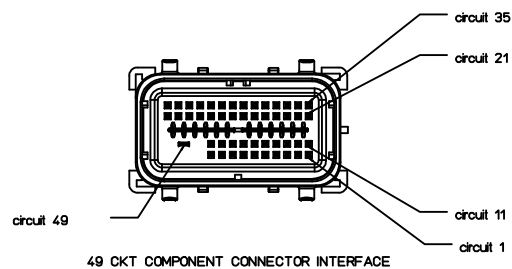
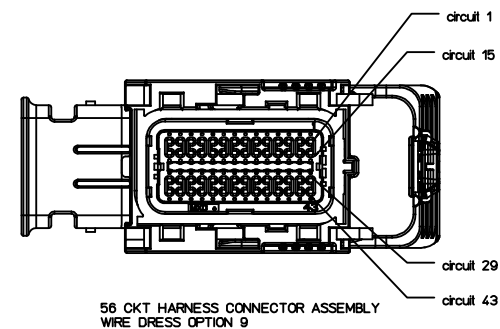
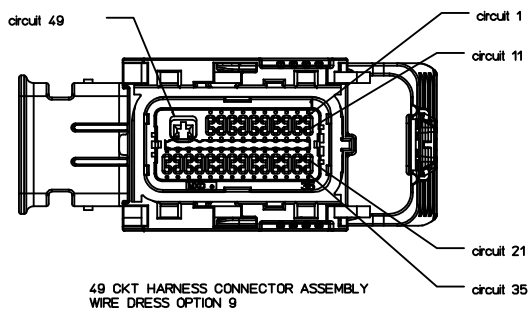
INTERFACE SIDE SHOWN ON ALL VIEWS

ENTER DESCRIPTION IEC NO: UAU2017-0870 DRAWN: CHITALLA CHKD: VKOSHY APPR: VKOSHY 2017/03/27 2017/03/29 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 molex SD-34576-0001
		▽=0		±		±		CHECKED BY VKOSHY		DATE 2016/12/15			
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A4		ANGULAR ± 1 °		1 PLACE ± 0.25		±		MATERIAL NO.		DOCUMENT NO.		SHEET NO. 12 OF 22	
		0 PLACE ±		±		±		SEE BOM TABLE		SD-34576-0001			
		DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		SIZE		DATE		THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION					

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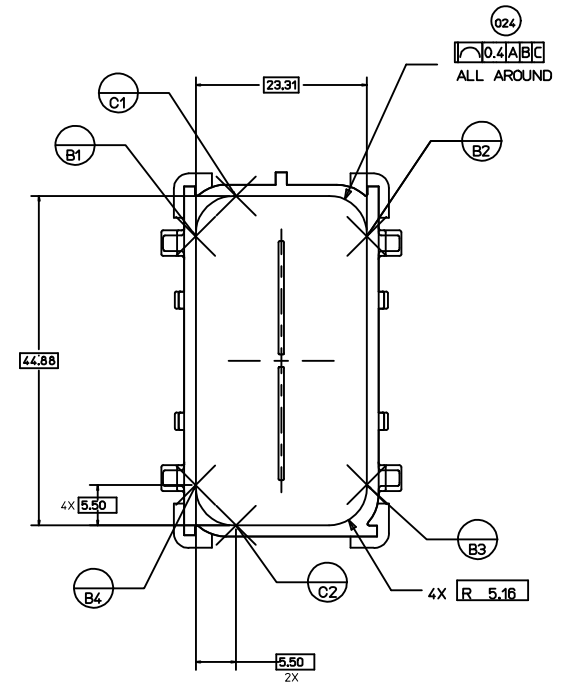
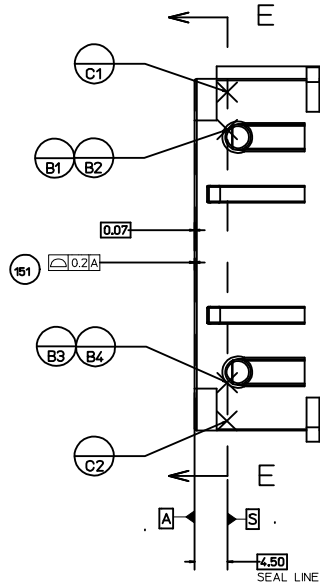
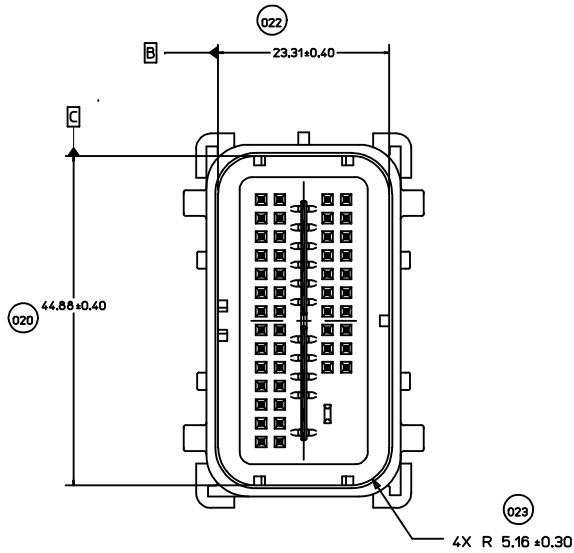
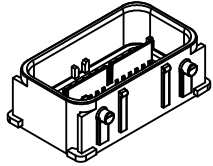


INTERFACE SIDE SHOWN ON ALL VIEWS



ENTER DESCRIPTION IEC NO: UAU2017-0870 DRAWN IN ITALY 2017/03/27 CHKD: APPR: VKOSHY 2017/03/29 REV	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 molex SD-34576-0001	
		mm		INCH		DRAWN BY	DATE			
		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 PLACE ± ---		VKOSHY		2017/03/03				
		ANGULAR ± 1 °		MATERIAL NO.		DOCUMENT NO.				
		DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		SEE BOM TABLE		SD-34576-0001				SHEET NO. 13 OF 22
		SIZE D		THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION						

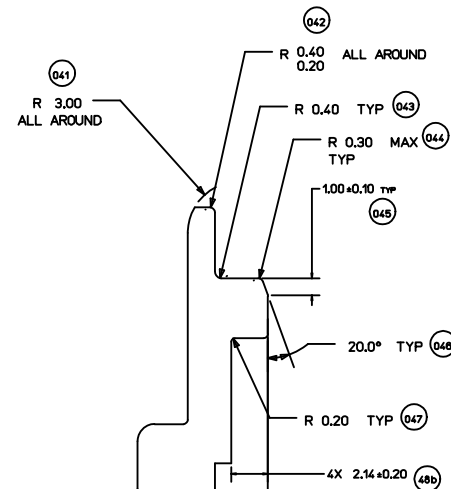
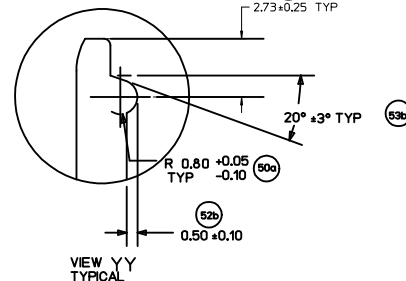
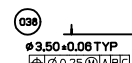
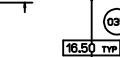
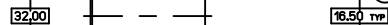
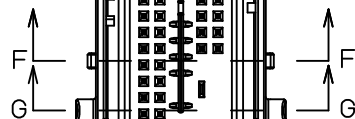
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SECTION E-E
(AT SEAL LINE)

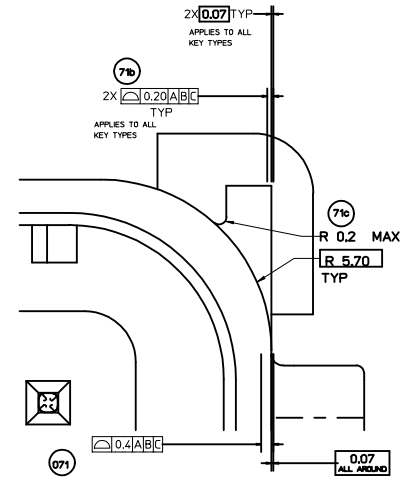
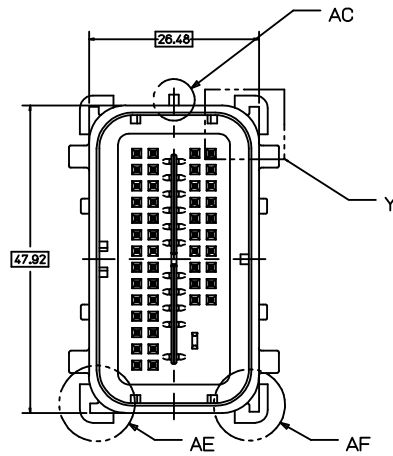
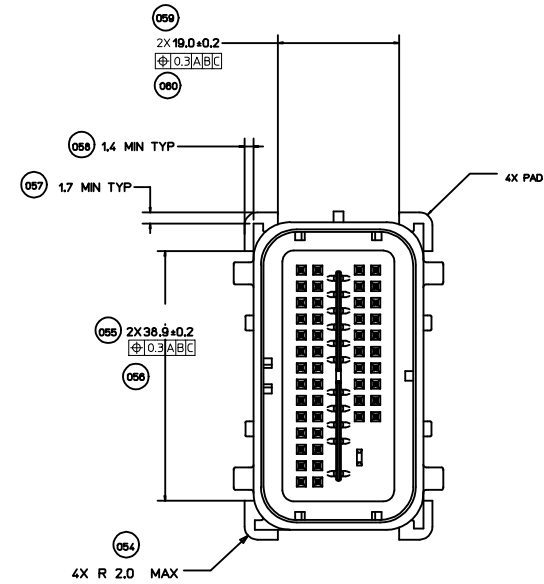
UNLESS SPECIFIED, TOLERANCE OF THE DEVICE INTERFACE TO BE ± 0.13 ABC

ENTER DESCRIPTION EC NO: UAU2017-0870 DRAWN IN ITALY CHKD: APPR: VKOSHY REV: A4	QUALITY SYMBOLS ▽=0 ▽=0 ▽=0	GENERAL TOLERANCES (UNLESS SPECIFIED)	TOLERANCES (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	DOCUMENT NO. SD-34576-0001	SHEET NO. 14 OF 22
				mm	INCH	DRAWN BY SKRAJENDRANA	DATE 2016/12/15					
			4 PLACES ± ---	± ---	CHECKED BY DATE 2016/12/15							
			3 PLACES ± ---	± ---	APPROVED BY DATE 2017/03/03							
			2 PLACES ± 0.13	± ---								
1 PLACE ± 0.25	± ---											
0 PLACE ± ---	± ---											
ANGULAR ± 1 °			MATERIAL NO.		SIZE D							
DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS			SEE BOM TABLE									

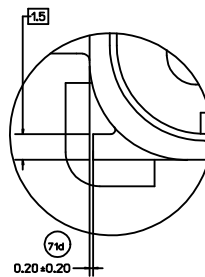
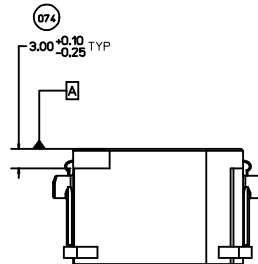
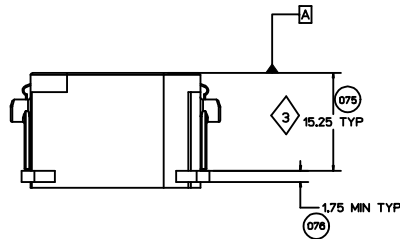


E	E	D	C	A
A4				

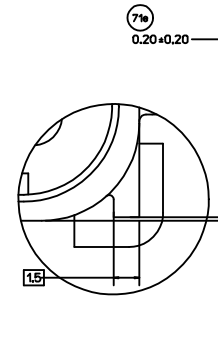
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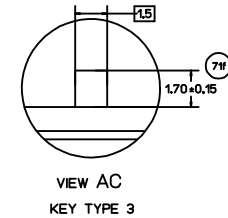
DETAIL Y



VIEW AE
KEY TYPE 2



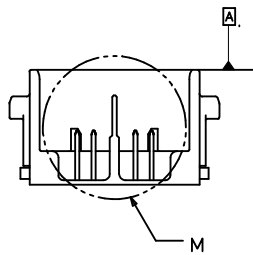
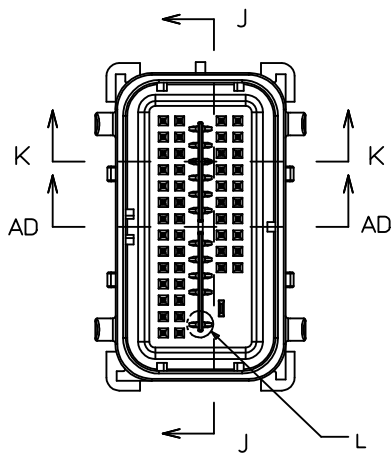
VIEW AF
KEY TYPE 1



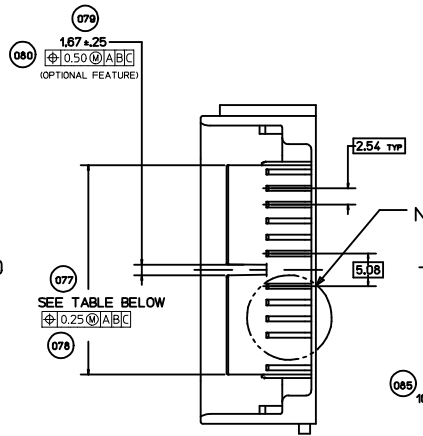
VIEW AC
KEY TYPE 3

ENTER DESCRIPTION IEC NO: UAU2017-0870 DRAWN: ACHITALLA CHKD: CHYD APPR: VKOSHY 2017/03/27 A4		QUALITY SYMBOLS ▽=0 ▽=0 ▽=0	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE MM ONLY		SCALE 1:1	DESIGN UNITS METRIC	 THIRD ANGLE PROJECTION
					DRAWN BY DATE		TITLE		
					SKRAJENDRANA 2016/12/15		ICD - MX123 18/49/56CKT INTERFACE CONNECTION DRW MOLEX		
					CHECKED BY DATE		MOLEX		
DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS	SIZE D	▽=0	4 PLACES ± --- ± ---		VKOSHY 2016/12/15		DATE		SHEET NO. 16 OF 22
			3 PLACES ± --- ± ---		VKOSHY 2017/03/03		DATE		
			2 PLACES ± 0.13 ± ---		VKOSHY 2017/03/03		DATE		
			1 PLACE ± 0.25 ± ---		VKOSHY 2017/03/03		DATE		
		0 PLACE ± --- ± ---							
		ANGULAR ± 1 °		SEE BOM TABLE		SD-34576-0001			

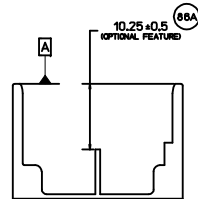
19 18 17 16 15 14 13 12 11 10 9 8 7 6 5 4 3 2 1



SECTION K-K

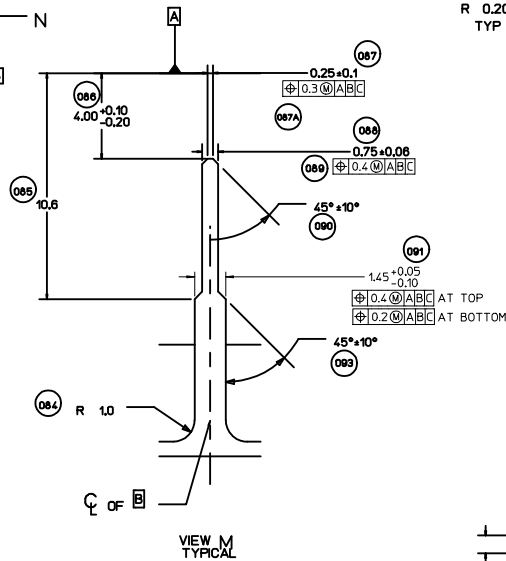


SECTION J-J

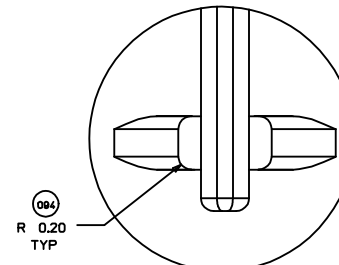


SECTION AD-AD

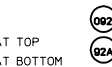
CKT	DIM (077)
49 / 56 CKT	32.60 +0.10/-0.60
18 CKT	10.04 +0.10/-0.60



VIEW M
TYPICAL

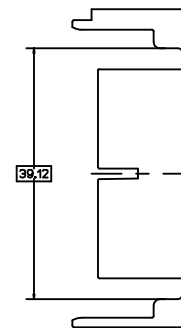
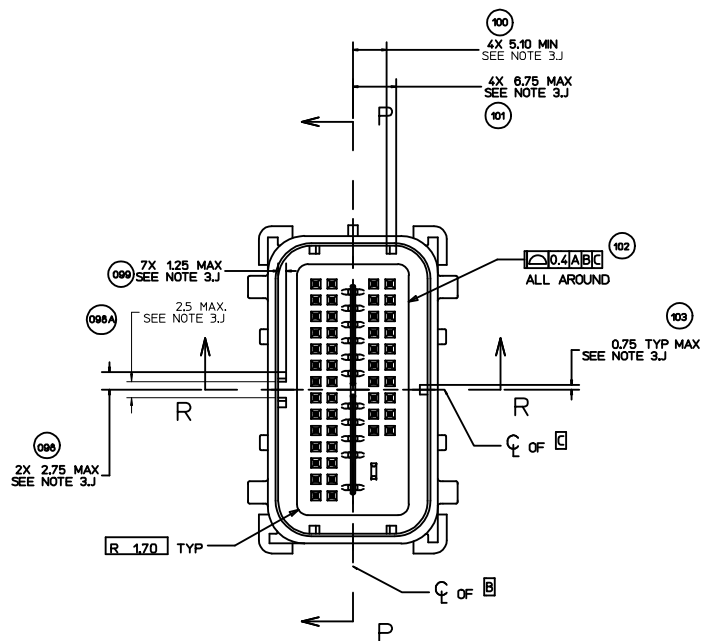


VIEW L

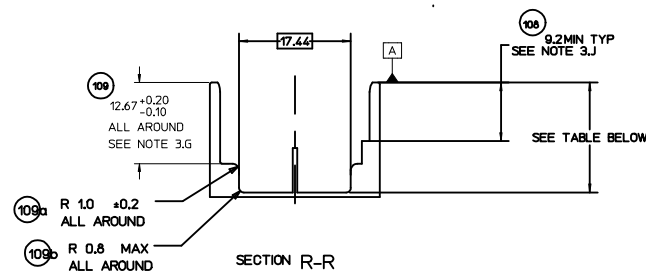


VIEW N

ENTER DESCRIPTION EC NO: UAU2017-0870 DRAWN BY: CHYK APPR: VKOSHY DATE: 2017/03/27 A4	QUALITY SYMBOLS ▽=0 ▽=0 ▽=0	DESCRIPTION 2017/03/29	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 DOCUMENT NO. SD-34576-0001 SHEET NO. 17 OF 22
			mm	NCH	DRAWN BY SKRA JENDRANA	DATE 2016/12/15				
			4 PLACES	±---	±---	CHECKED BY VKOSHY	DATE 2016/12/15			
			3 PLACES	±---	±---	APPROVED BY	DATE			
			2 PLACES	±0.13	±---	VKOSHY	2017/03/03			
1 PLACE	±0.25	±---								
0 PLACE	±---	±---								
			ANGULAR ± 1 °		MATERIAL NO.					
			DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		SEE BOM TABLE					
			SIZE		THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION					



SECTION P-P

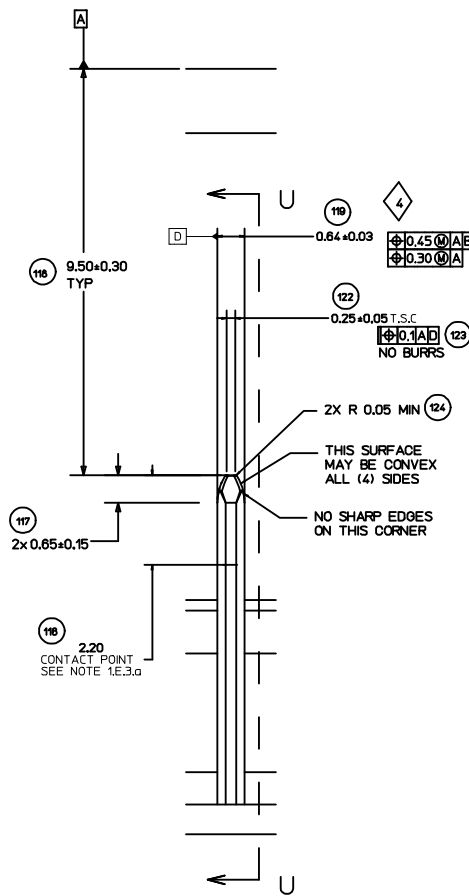
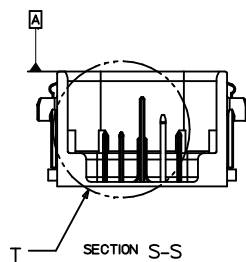
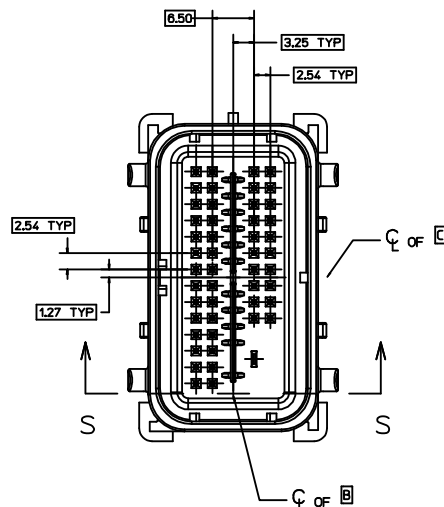


SECTION R-R

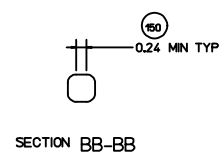
CKT	DIM 100
49 / 56 CKT	17.20 +0.20/-0.10
18 CKT	17.50 +0.20/-0.10

ENTER DESCRIPTION IEC NO: UAU2017-0870 DRAWN BY: DRAVACHITALIA CHKD: APPR: VKOSHY DATE: 2017/03/29 REV: A4	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					
	▽=0	4 PLACES ±---	±---	SKRAJENDRANA	2016/12/15						
	▽=0	3 PLACES ±---	±---	CHECKED BY	DATE	SD-34576-0001					
	▽=0	2 PLACES ±0.13	±---	VKOSHY	2016/12/15						
	▽=0	1 PLACE ±0.25	±---	APPROVED BY	DATE				molex		
	▽=0	0 PLACE ±---	±---	VKOSHY	2017/03/03						
	ANGULAR ± 1°		MATERIAL NO.		DOCUMENT NO.		SHEET NO. 18 OF 22				
	DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		SEE BOM TABLE		SD-34576-0001						
	SIZE		THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION								

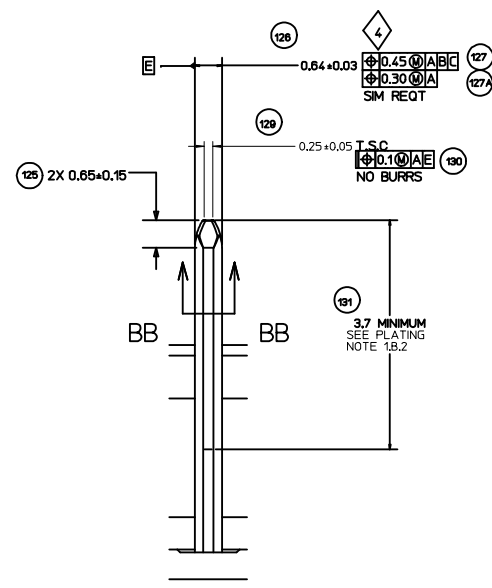
molex



DETAIL T
TYPICAL

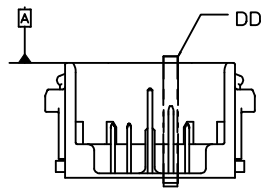


SECTION BB-BB

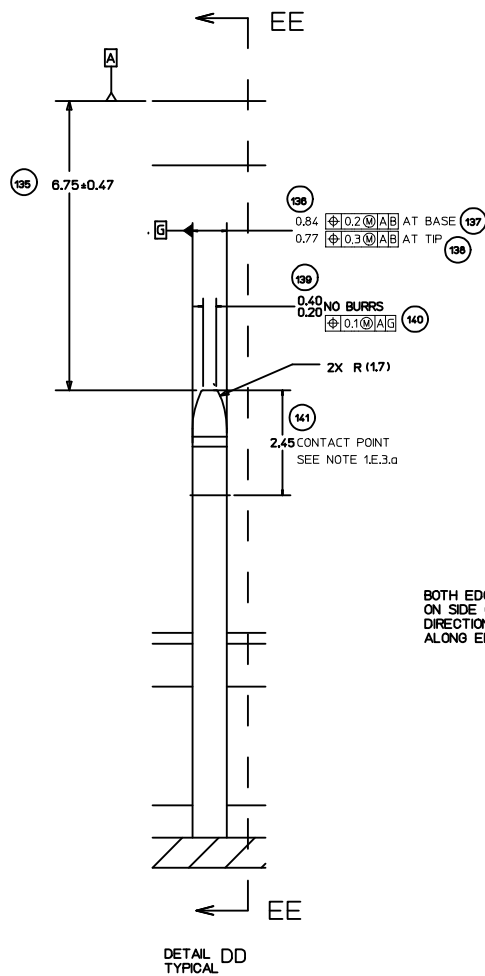


SECTION U-U
TYPICAL

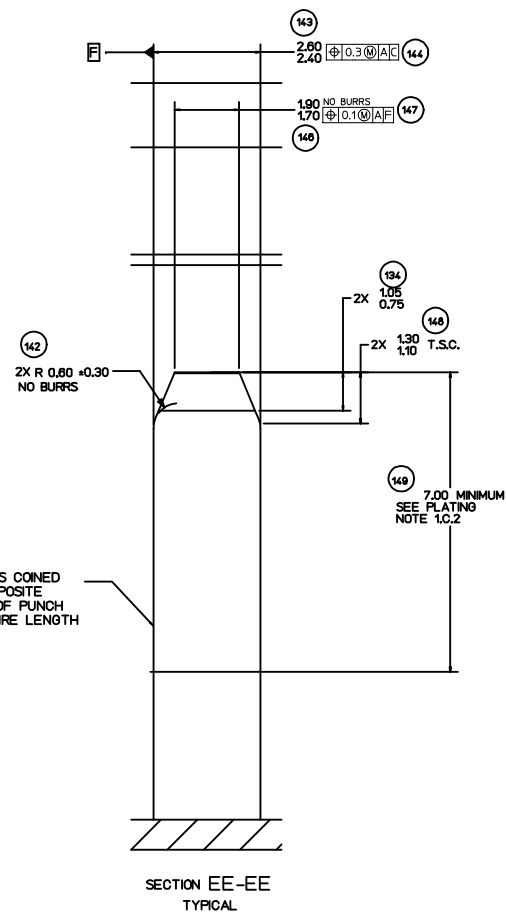
ENTER DESCRIPTION IEC NO: UAU2017-0870 DRAWN BY: CHYD: 2017/03/27 APPR: VKOSHY A4	QUALITY SYMBOLS ∇=0 ∇=0 ∇=0	GENERAL TOLERANCES (UNLESS SPECIFIED): 4 PLACES ±--- 3 PLACES ±--- 2 PLACES ±0.13 1 PLACE ±0.25 0 PLACE ±--- ANGULAR ± 1 ° DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS	DIMENSION STYLE MM ONLY DRAWN BY: SKRAJENDRANA 2016/12/15 CHECKED BY: VKOSHY 2016/12/15 APPROVED BY: VKOSHY 2017/03/03 MATERIAL NO. SEE BOM TABLE SIZE D	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. 19 OF 22



SECTION CC-CC

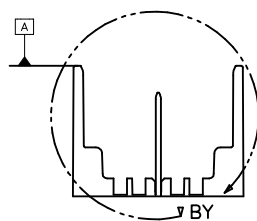
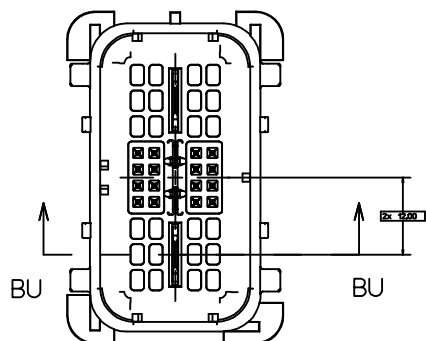


DETAIL DD
TYPICAL

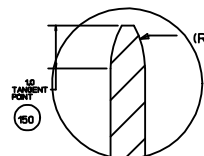


SECTION EE-EE
TYPICAL

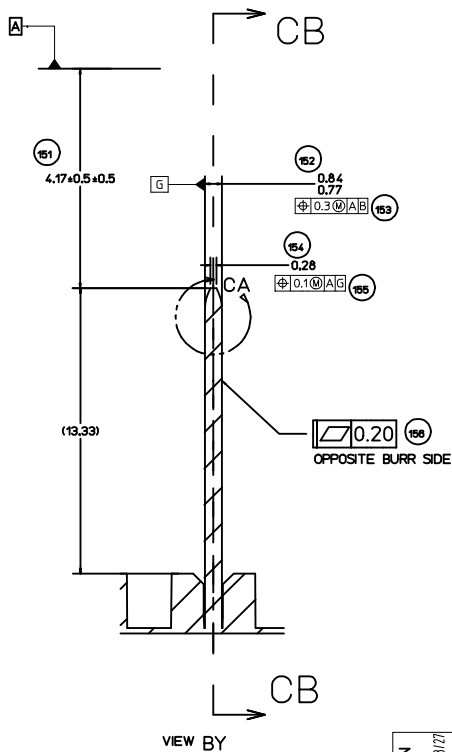
ENTER DESCRIPTION EC NO.: UAU2017-0870 DPMKACHITAI CHKO: APPR: WOSHY 2017/03/27 2017/03/28		QUALITY SYMBOLS ▽=0 ▽=0 ▽=0		GENERAL TOLERANCES (UNLESS SPECIFIED) mmINCH 4 PLACES ± ± 3 PLACES ± ± 2 PLACES ±0.13 ± 1 PLACE ±0.25 ± 0 PLACE ± ±		DIMENSION STYLE MM ONLY DRAWN BY SKRAJENDRANA DATE 2016/12/15 CHECKED BY VKOSHY DATE 2016/12/15 APPROVED BY VKOSHY DATE 2017/03/03		SCALE 1:1 DESIGN UNITS METRIC THIRD ANGLE PROJECTION	
A4		DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		ANGULAR ± 1 ° SEE BOM TABLE SIZE D THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION		TITLE ICD - MX123 18/49/56CKT INTERFACE CONNECTION DRW MOLEX molex DOCUMENT NO. SD-34576-0001		SHEET NO. 20 OF 22	



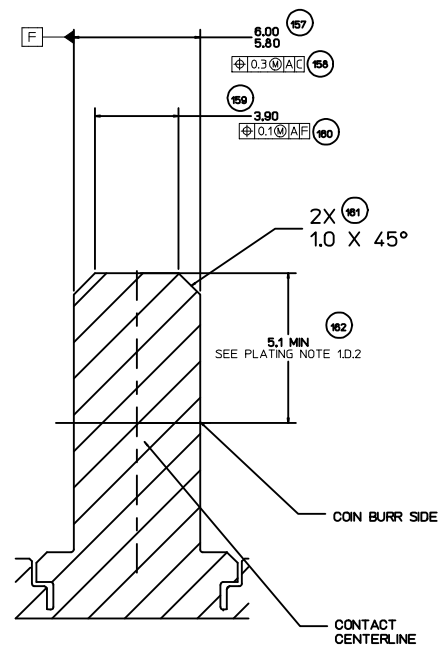
SECTION BU-BU



VIEW CA
SCALE 10:1



VIEW BY

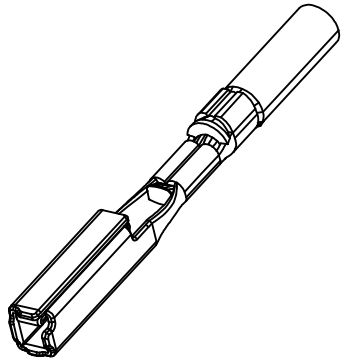
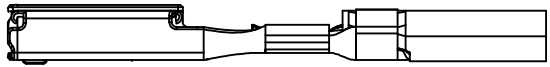


SECTION CB-CB

ENTER DESCRIPTION IEC NO: UAU2017-0870 DRAWN: ITALIA CHKD: APPR: WOSHY 2017/03/27 2017/03/29	QUALITY SYMBOLS	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE		SCALE	DESIGN UNITS	 THIRD ANGLE PROJECTION	
				MM ONLY		1:1	METRIC		
		   		mm	INCH	DRAWN BY	DATE		TITLE ICD - MX123 18/49/56CKT INTERFACE CONNECTION DRW MOLEX
			4 PLACES	±---	±---	SKRA JENDRANA	2016/12/15		
			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.		DOCUMENT NO.	SD-34576-0001		
		DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		SEE BOM TABLE		SHEET NO. 21 OF 22			
A4	NEW			SIZE	THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION				

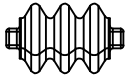
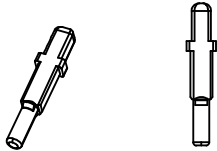
moLEX

MOLEX MX64 RECEPTACLE TERMINAL INFORMATION						
ITEM	MOLEX P/N	WIRE SIZE MM2	TYPE	PLATING	REEL WIND DIRECTION	COMMENTS
1	34736-0025	0.35	ISO	SILVER	LEFT	
2	34736-0026	0.35	ISO	SILVER	RIGHT	
3	34736-0027	0.5 / 0.75	ISO	SILVER	LEFT	
4	34736-0028	0.5 / 0.75	ISO	SILVER	RIGHT	



CAVITY PLUGS								
ITEM	MFG	MFG P/N	SIZE	COLOR	MFG DRAWING	PROD SPEC	APP SPEC	COMMENTS
1	MOLEX	34586-0001	0.64	NATURAL	SD-34586-001	PS-34566-0000	AS-34566-001	
2	YAZAKI	7158-3114-90	2.8	BLUE	7158-3114-90	YPES-11-04-062	YPES-15-299	

ITEM 1



ITEM 2

ENTER DESCRIPTION EC NO: UAU2017-0870 DRAWN BY: A4 CHKD: A4 APPR: VKOSHY 2017/03/27 2017/03/29	QUALITY SYMBOLS ▽=0 ▽=0 ▽=0	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE MM ONLY		SCALE 1:1	DESIGN UNITS METRIC	 THIRD ANGLE PROJECTION
DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		ANGULAR ± 1 °		SEE BOM TABLE		MATERIAL NO. SD-34576-0001		SHEET NO. 22 OF 22
THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION								