Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

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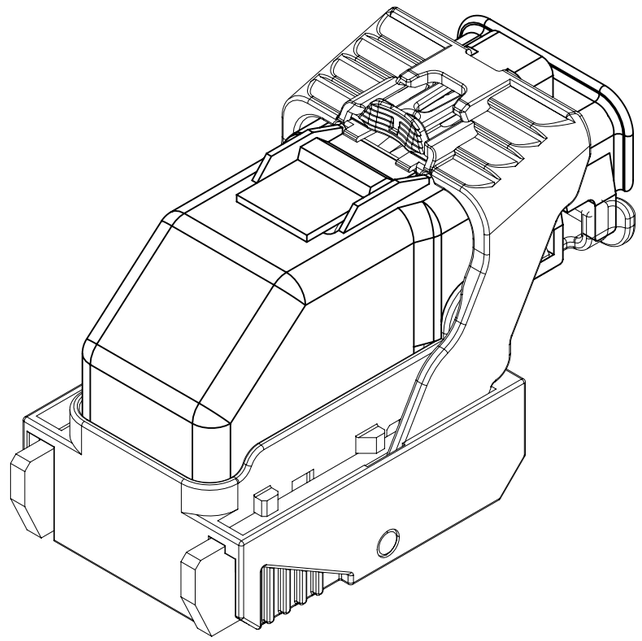


ISO VIEW

GM

THIS DOCUMENT IS IN ACCORDANCE WITH ASME Y14.5M-1994 AS AMENDED BY THE GM GLOBAL DIMENSIONING AND TOLERANCING ADDENDUM - 2004.

CHANGE RESTRICTED
NO MANUAL CHANGES

DO NOT SCALE

METRIC

DIMENSIONS SHOWN IN MILLIMETERS UNLESS OTHERWISE SPECIFIED

REFERENCE
12H (MOLEX AUTOMOTIVE)

	DATE
DRAFTER D. KOEHLER	04JN15
APVD1	
APVD2	
APVD3	
APVD4	
APVD5	

DRAWING NAME
HARNESS CONN ASM-SEALED
18/49/56 CKTS, MX123

DRAWING NUMBER
12672832

DWG STATUS		
ST	REV	PDI
R	001	

PAGE NUMBER
1 OF 23

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					
	03JN15	R	001			RELEASED TO PRODUCTION AT DLS A	CRMRJE	DFK		

		PAGE TITLE		DRAWING NUMBER	DWG STATUS			PAGE NUMBER
	GM	REVISION BLOCK		12672832	ST	REV	PDI	2 OF 23
					R	001		

22	RD	12674821		A	C	001			0.000	YAZAKI: 7158-3114-90	2.8MM CAVITY PLUG
21	RD	12674820		A		001			0.000	PLUG-WRG HARN CONN MX0.64	
20	RD	12672851		A		001			0.000	TERM-AG 0.5MM/0.75MM ISO,MX64	
19	RD	12672850		A		001			0.000	TERM-AG 0.35MM ISO,MX64	
18	RD	12582679		A	C	006			0.009	WIRE HARNESS COVER	18/49/56 WAY
17	RD	12672845		A	2	001			0.041	HARN CONN ASM 56 CKT	KEY J OPTION 9
16	RD	12672847		A	2	001			0.041	HARN CONN ASM 56 CKT	KEY H OPTION 9
15	RD	12672849		A	2	001			0.041	HARN CONN ASM 56 CKT	KEY G OPTION 9
14	RD	12672844		A	2	001			0.041	HARN CONN ASM 56 CKT	KEY J OPTION 0
13	RD	12672846		A	2	001			0.041	HARN CONN ASM 56 CKT	KEY H OPTION 0
12	RD	12672848		A	2	001			0.041	HARN CONN ASM 56 CKT	KEY G OPTION 0
11	RD	12672843		A	2	001			0.040	HARN CONN ASM 49 CKT	KEY C OPTION 9
10	RD	12672841		A	2	001			0.040	HARN CONN ASM 49 CKT	KEY B OPTION 9
09	RD	12672839		A	2	001			0.040	HARN CONN ASM 49 CKT	KEY A OPTION 9
08	RD	12672842		A	2	001			0.040	HARN CONN ASM 49 CKT	KEY C OPTION 0
07	RD	12672840		A	2	001			0.040	HARN CONN ASM 49 CKT	KEY B OPTION 0
06	RD	12672838		A	2	001			0.040	HARN CONN ASM 49 CKT	KEY A OPTION 0
05	RD	12672837		A	2	001			0.044	HARN CONN ASM 18 CKT	KEY H OPTION 9
04	RD	12672835		A	2	001			0.044	HARN CONN ASM 18 CKT	KEY G OPTION 9
03	RD	12672836		A	2	001			0.044	HARN CONN ASM 18 CKT	KEY H OPTION 0
02	RD	12672834		A	2	001			0.044	HARN CONN ASM 18 CKT	KEY G OPTION 0
01	RD	12672832		A		001			1.285	HARNESS CONN ASM-SEALED 18/49/56CKTS,MX123	
										DRAWING	

HIERARCHY /QUANTITY	DWG ITM	DWG RLTN SHIP	PART NUMBER		DLS	ST	REV	PDI		MASS (KG)	PART NAME	NOTES

PARTS SHOWN ON DRAWING

	PAGE TITLE		DRAWING NUMBER	DWG STATUS			PAGE NUMBER
GM	PART BLOCK		12672832	ST	REV	PDI	3 OF 23
				R	001		

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

▽ SAFETY/COMPLIANCE

◇ FIT/FUNCTION

TOTAL ON DRAWING	4
LAST NO. USED	4

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
4	F/F	POSITIONAL TOLERANCE (2 PLACES)	INSURE CONNECTOR SYSTEM MATIBILITY	20

					APPLICABLE COMPONENTS					
Line	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	34851-0007	12672834	31AU15	HARN CONN ASM 18 CKT	G	0	1358	BLUE	ACTIVE
3	MOLEX	34851-0008	12672836	31AU15	HARN CONN ASM 18 CKT	H	0	2458	ST GRAY	ACTIVE
4	MOLEX	34851-0019	12672835	31AU15	HARN CONN ASM 18 CKT	G	9	1358	BLUE	ACTIVE
5	MOLEX	34851-0020	12672837	31AU15	HARN CONN ASM 18 CKT	H	9	2458	ST GRAY	ACTIVE
6	MOLEX	34576-0103	12672838	31JL15	HARN CONN ASM 49 CKT	A	0	1458	BLACK	ACTIVE
7	MOLEX	34576-0203	12672840	T.B.D.	HARN CONN ASM 49 CKT	B	0	1468	ST GRAY	NOT ACTIVE
8	MOLEX	34576-0303	12672842	31JL15	HARN CONN ASM 49 CKT	C	0	2467	BLUE	ACTIVE
9	MOLEX	34576-1303	12672839	31JL15	HARN CONN ASM 49 CKT	A	9	1458	BLACK	ACTIVE
10	MOLEX	34576-1403	12672841	T.B.D.	HARN CONN ASM 49 CKT	B	9	1468	ST GRAY	NOT ACTIVE
11	MOLEX	34576-1503	12672843	31JL15	HARN CONN ASM 49 CKT	C	9	2467	BLUE	ACTIVE
12	MOLEX	34576-0703	12672848	11JN04	HARN CONN ASM 56 CKT	G	0	1358	BLUE	AVAILABLE
13	MOLEX	34576-0803	12672846	11JN04	HARN CONN ASM 56 CKT	H	0	2458	ST GRAY	AVAILABLE
14	MOLEX	34576-0903	12672844	T.B.D.	HARN CONN ASM 56 CKT	J	0	2457	BLACK	NOT ACTIVE
15	MOLEX	34576-1903	12672849	11JN04	HARN CONN ASM 56 CKT	G	9	1358	BLUE	AVAILABLE
16	MOLEX	34576-2003	12672847	T.B.D.	HARN CONN ASM 56 CKT	H	9	2458	ST GRAY	NOT ACTIVE
17	MOLEX	34576-2103	12672845	T.B.D.	HARN CONN ASM 56 CKT	J	9	2457	BLACK	NOT ACTIVE
18	MOLEX	34736-0028	12672851	01AU10	MX64 RCPT TERM Ag 0.5mm/0.75mm ISO GAGE B (RIGHT PAYOFF)	N/A	N/A	N/A	N/A	AVAILABLE
19	MOLEX	34736-0026	12672850	01AU10	MX64 RCPT TERM Ag 0.35mm ISO B (RIGHT PAYOFF)	N/A	N/A	N/A	N/A	AVAILABLE
20	MOLEX	34586-0001	12674820	11JN04	MX123 0.64MM GROMMET PLUG	N/A	N/A	N/A	NATURAL	AVAILABLE
21	YAZAKI	7116-4150-02	12588066	02JN03	2.8mm YESC SEALED FEMALE TERMINAL TIN 0.35mm2-0.50mm2	N/A	N/A	N/A	N/A	NOT ACTIVE
22	YAZAKI	7116-4151-02	12588067	02JN03	2.8mm YESC SEALED FEMALE TERMINAL TIN 0.75mm2-1.0mm2	N/A	N/A	N/A	N/A	NOT ACTIVE
23	YAZAKI	7116-4152-02	12582685	02JN03	2.8mm YESC SEALED FEMALE TERMINAL TIN 1.5mm2-2.5mm2	N/A	N/A	N/A	N/A	AVAILABLE
24	YAZAKI	7158-3111-60	12588068	02JN03	2.8mm CABLE SEAL (wire O.D. range 1.2mm-1.9mm)	N/A	N/A	N/A	GREEN	NOT ACTIVE
25	YAZAKI	7158-3112-70	12588069	02JN03	2.8mm CABLE SEAL (wire O.D. range 1.8mm-2.3mm)	N/A	N/A	N/A	YELLOW	NOT ACTIVE
26	YAZAKI	7158-3113-40	12582686	02JN03	2.8mm CABLE SEAL (wire O.D. range 2.1mm-3.0mm)	N/A	N/A	N/A	WHITE	AVAILABLE
27	YAZAKI	7158-3114-90	12674821	02JN03	2.8mm YESC CAVITY PLUG	N/A	N/A	N/A	BLUE	AVAILABLE
28	DELPHI	33140138	12646399	10JA14	6.35mm APEX RCPT TERM Sn/Ag GRIP CODE-10 (6mm2) - GREASED	N/A	N/A	N/A	N/A	AVAILABLE
29	DELPHI	33140135	12654556	10JA14	6.35mm APEX RCPT TERM Sn/Ag GRIP CODE-TBD (1mm2) - GREASED	N/A	N/A	N/A	N/A	AVAILABLE
30	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
31	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
32	MOLEX	63825-8400	N/A	02JN03	MX64 TERM HAND CRIMP TOOL	N/A	N/A	N/A	N/A	AVAILABLE
33	MOLEX	63813-1400	XX019826	02JN03	MX64 TERM SERVICE TOOL	N/A	N/A	N/A	N/A	AVAILABLE
34	MOLEX	63902-5300	N/A	02JN03	MX64 CRIMP APPLICATOR with TOOL KIT 0.5/0.75mm2 PAYOFF DIRECTION D (left payoff) (contact Molex for payoff detail)	N/A	N/A	N/A	N/A	AVAILABLE
35	MOLEX	63902-5370	N/A	02JN03	MX64 APPLICATOR TOOL KIT 0.5/0.75mm2	N/A	N/A	N/A	N/A	AVAILABLE
36	MOLEX	63902-5100	N/A	02JN03	MX64 CRIMP APPLICATOR with TOOL KIT 0.35mm2 PAYOFF DIRECTION D (left payoff) (contact Molex for payoff detail)	N/A	N/A	N/A	N/A	AVAILABLE
37	MOLEX	63902-5170	N/A	02JN03	MX64 APPLICATOR TOOL KIT 0.35mm2	N/A	N/A	N/A	N/A	AVAILABLE
38	SPX	J35616-64	T.B.D.	02JN03	0.64mm PROBE TOOL (for rcpt)	N/A	N/A	N/A	N/A	AVAILABLE
39	SPX	J35616-64A	T.B.D.	02JN03	0.64mm PROBE TOOL WITH EXT (for rcpt)	N/A	N/A	N/A	N/A	AVAILABLE
40	SPX	J35616-65	T.B.D.	02JN03	0.64mm PROBE TOOL WITH EXT (for pin)	N/A	N/A	N/A	N/A	AVAILABLE
41	SPX	J35616-4A	T.B.D.	02JN03	2.8mm PROBE TOOL (for rcpt)	N/A	N/A	N/A	N/A	AVAILABLE
42	YAZAKI	X39899-J374	12094430	02JN03	2.8mm TERM SERVICE TOOL	N/A	N/A	N/A	N/A	AVAILABLE
43	TQI	7000-1001	N/A	01FE15	18CKT PASS THROUGH ADAPTERS	N/A	N/A	N/A	BLACK	AVAILABLE
44	TQI	7000-1004	N/A	01FE15	49CKT PASS THROUGH ADAPTERS	N/A	N/A	N/A	BLACK	AVAILABLE
45	TQI	79917-0060	N/A	02JA08	56CKT PASS THROUGH ADAPTERS	N/A	N/A	N/A	BLACK	AVAILABLE
46	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

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 um ELECTRODEPOSITED SEMI-BRIGHT SILVER OVER 1.25-2.25 um DUCTILE SULPHAMATE NICKEL PER NOTE 1(D).
   3. ANTI-TARNISH: SYNTHETIC HYDROCARBON CONTACT SURFACE FINISH OR EQUIVALENT APPLIED WITHOUT VOID TO CONTACT AREA (MIN 3.7mm FROM PIN TIP).

C. 2.8MM BLADE:
   1. BASE MATERIAL: COPPER ALLOY; CONDUCTIVITY>= 28% IACS AT 20°C; TENSILE STRENGTH >= 350 N/mm²; SURFACE ROUGHNESS R_a 6 MAX.
   2. PLATING FINISH: TIN. PLATING TO BE 2.5-5.0 um ELECTRODEPOSITED TIN, MATTE FINISH OVER 1.25-2.5um DUCTILE SULPHAMATE NICKEL PER NOTE 1(D).

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

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

2. DESIGN - GENERAL:

A. THIS IS A 100% CAD GENERATED PART. THE CAD MATHEMATICAL DATA IS THE MASTER FOR THIS PART. WHERE DIMENSIONS ARE SPECIFIED ON THE DRAWING, THE DRAWING IS THE AUTHORITY FOR DIMENSIONAL VALUES. FOR DIMENSIONAL OR ANY INFORMATION NOT SHOWN ON THIS DRAWING, ANALYZE THE CAD MODEL.
B. DIMENSIONS OBTAINED FROM THE DIGITAL MODEL ARE BASIC:
   1. FOR RELATIONSHIPS BETWEEN FEATURES WHEN ESTABLISHED BY GEOMETRIC TOLERANCES.
   2. FOR THE FORM OF A FEATURE WHEN CONTROLLED BY A PROFILE TOLERANCE.
   3. FOR THE SIZE, FORM AND/OR RELATIONSHIP BETWEEN FIXED DATUM TARGETS.
C. DIMENSIONS OBTAINED FROM THE DIGITAL MODEL ARE ROUNDED TO TWO DECIMAL PLACES (PER IEEE/ASTM SI 10-2002)
D. VIEWS AND SECTIONS ON THIS DRAWING ARE IN ACCORDANCE WITH GM DCS SECTION C3.
E. THE DIGITAL MODEL MUST CORRESPOND TO THE RELEASE LEVEL SHOWN IN THE PART BLOCK ON THIS DOCUMENT.
F. TOLERANCES:
   1. LINEAR 0.X ± 0.30
              0.XX ± 0.10
              0.XXX ± 0.10
   2. ANGULAR X° ± 3°
   3. ⌓ | 1.0 | A | B | C
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 APPEARENCE.
M. RESTRICTED AND REPORTABLE SUBSTANCES FOR PARTS PER GMW3059.

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 1.30MM
      0.50mm2, MEETING GMW15626
      0.75mm2, MEETING GMW15626 - MIN 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

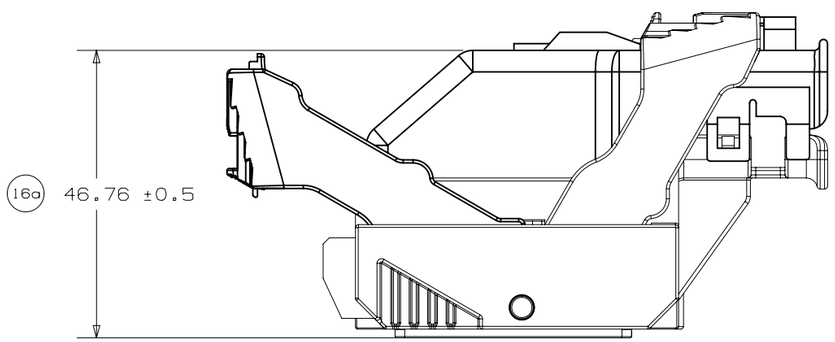
   B. 2.8MM RCPT TERM
      ALL TESTING DONE IN ACCORDANCE WITH MOLEX DVP&R 0279 (TR# 7125)

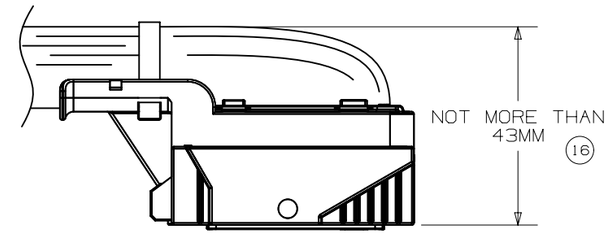
      1. 2.8MM RCPT TERM TIN 2.0mm2 CRIMPED TO 2.0mm2 ISO WIRE AND MATED TO MX123 2.8MM BLADE: 25.6 AMPS AT 125° C

   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^2 WIRE AND MATED TO MOLEX 6.3MM^2 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





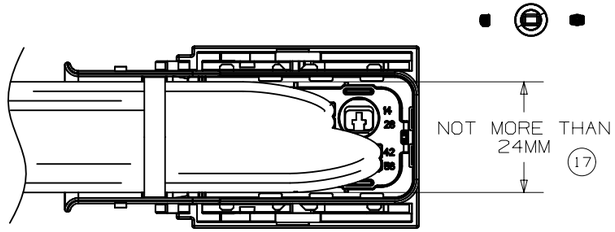
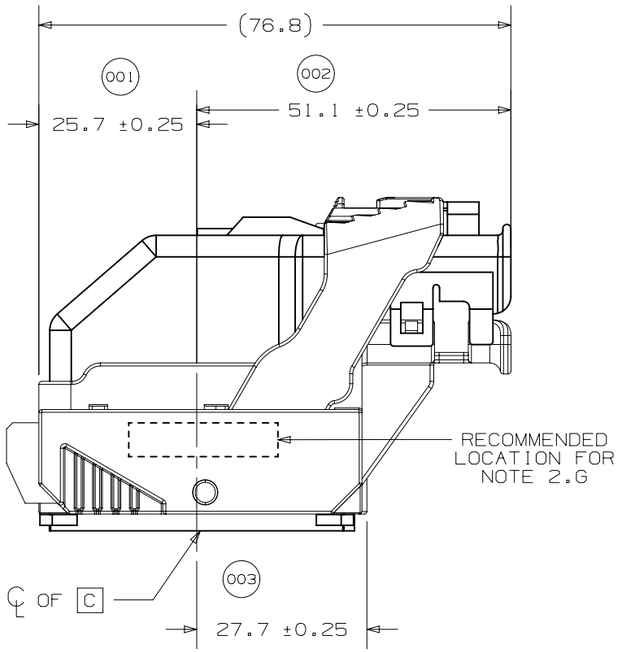
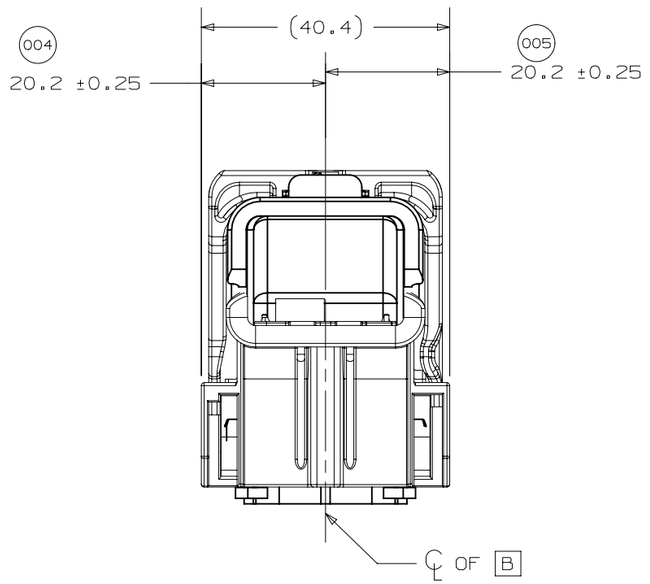


Fig. 1

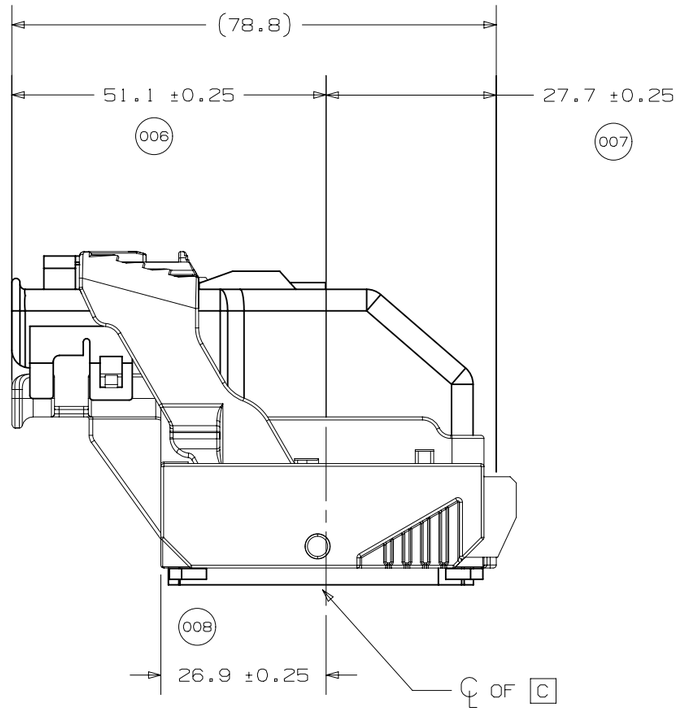
	GM	PAGE TITLE WIRE DRESS PACKAGING DIMENSIONS		DRAWING NUMBER 12672832	DWG STATUS ST: R / REV: 001 / PDI:	PAGE NUMBER 8 OF 23



WIRE DRESS OPTION 0 SHOWN

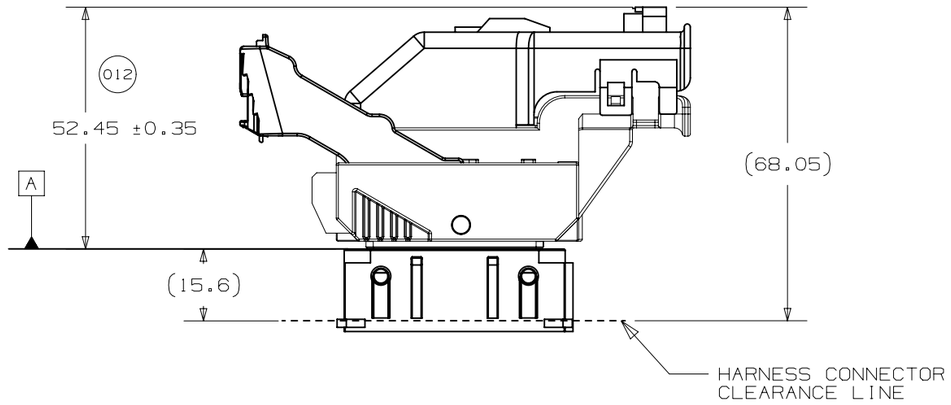


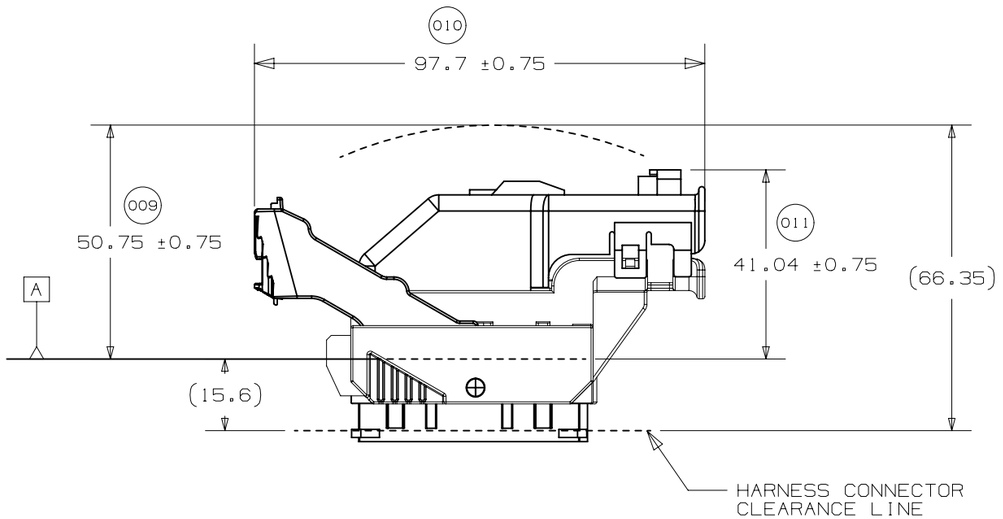
WIRE DRESS OPTION 0 SHOWN



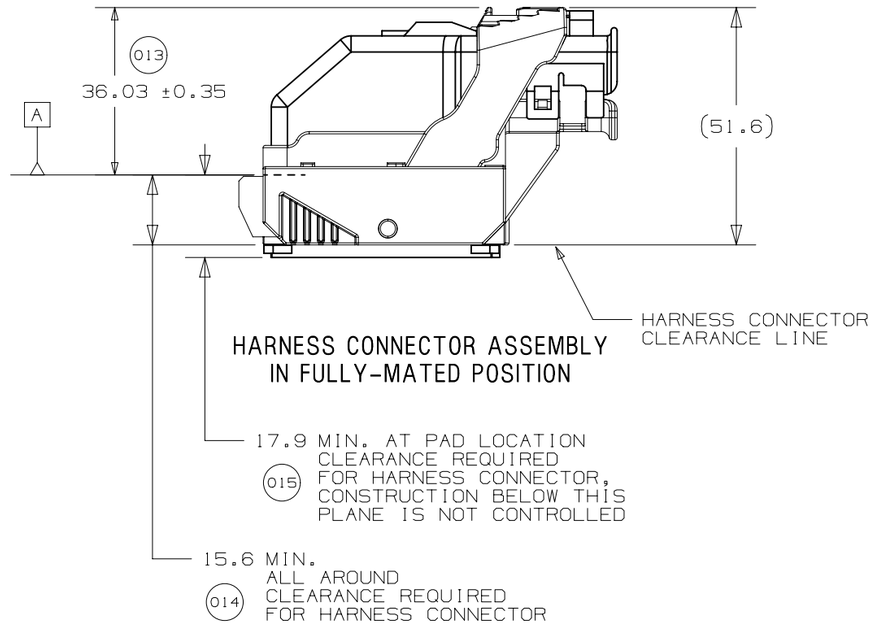
WIRE DRESS OPTION 9 SHOWN

	GM	PAGE TITLE LOCATION AND PACKAGING DIMENSIONS REFERENCING INTERFACE DATUMS B & C		DRAWING NUMBER 12672832	DWG STATUS ST: R / REV: 001 / PDI:		PAGE NUMBER 9 OF 23



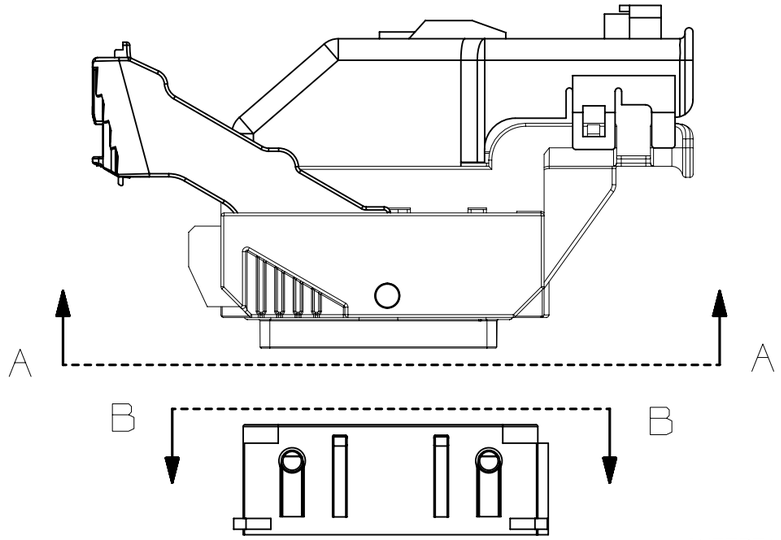


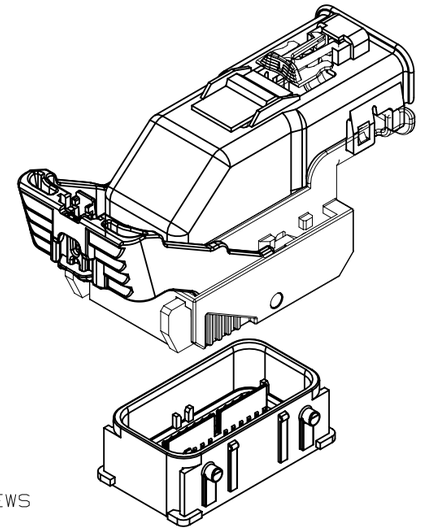
HARNESS CONNECTOR ASSEMBLY
IN PRE-LOCK POSITION



HARNESS CONNECTOR ASSEMBLY
IN FULLY-MATED POSITION

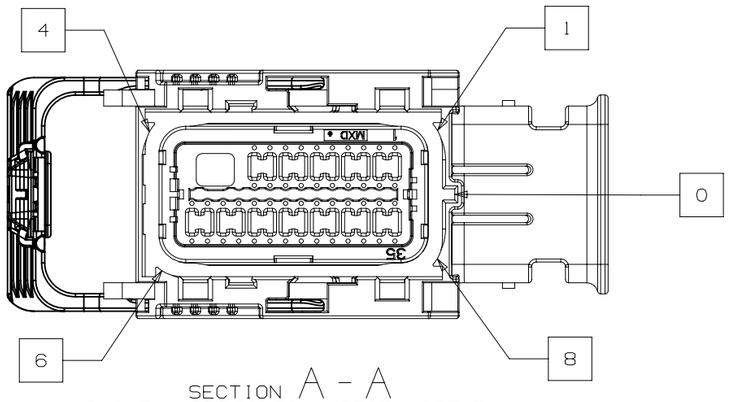
	GM	PAGE TITLE LOCATION AND PACKAGING DIMENSIONS REFERENCING INTERFACE DATUM A		DRAWING NUMBER 12672832	DWG STATUS ST: R / REV: 001 / PDI:		PAGE NUMBER 10 OF 23



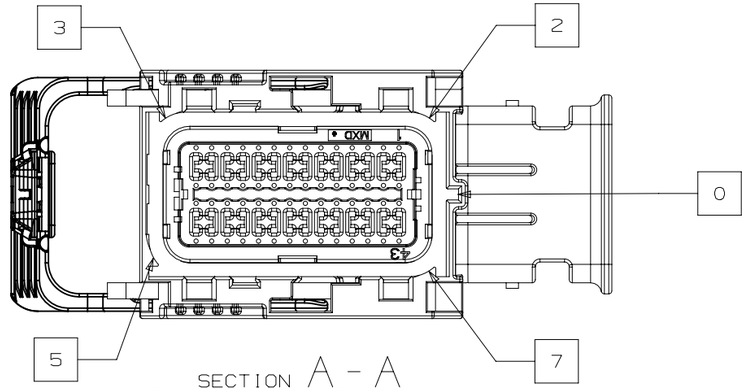


NOTE: REFERENCE THE COMPONENT TABLE FOR KEY OPTIONS AND CONFIGURATIONS

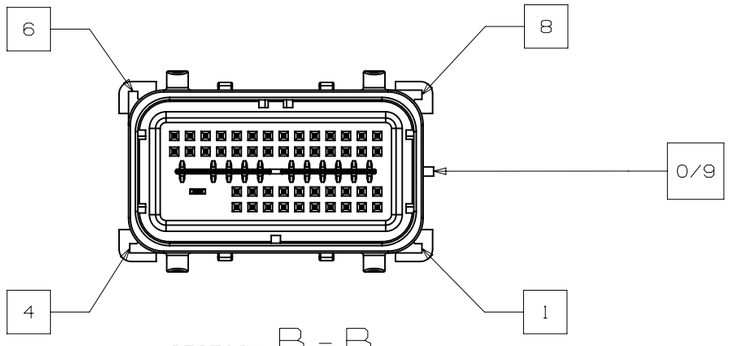
INTERFACE SIDE SHOWN IN ALL SECTION VIEWS



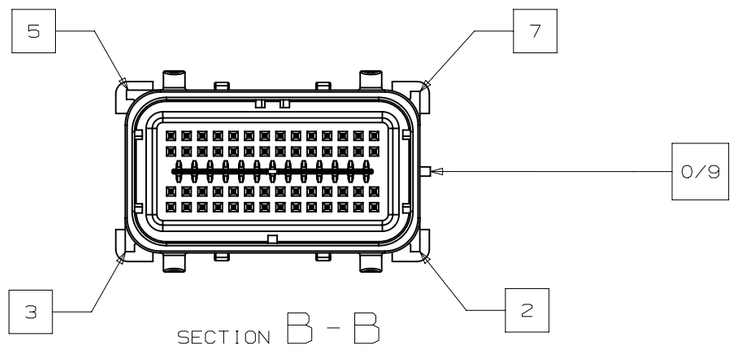
SECTION A - A
49 CKT HARNESS CONNECTOR ASSEMBLY
KEY OPTION B SHOWN



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

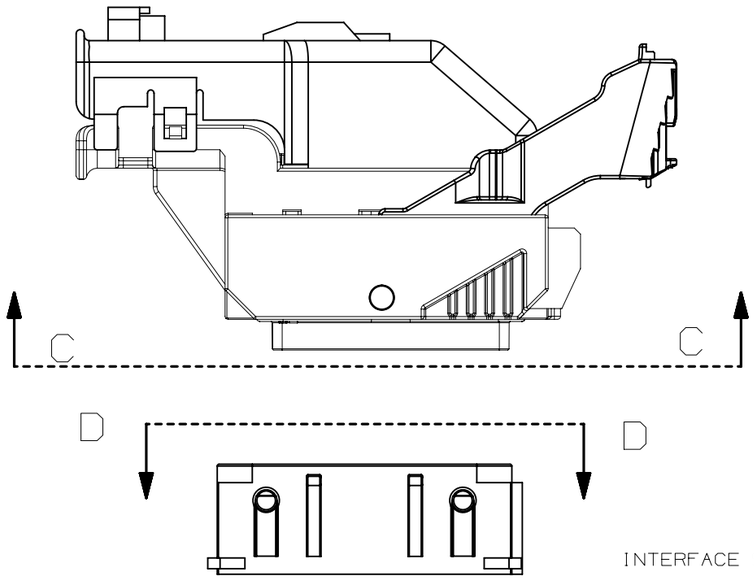


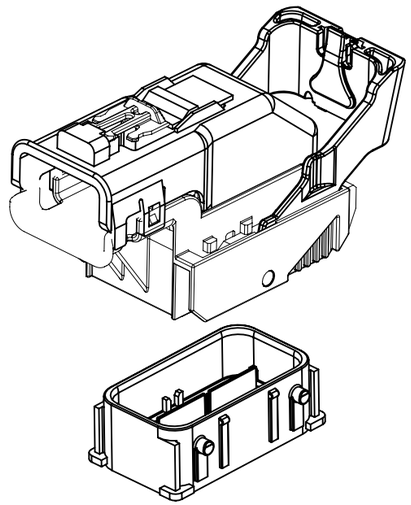
SECTION B - B
49 CKT COMPONENT CONNECTOR INTERFACE
KEY OPTION B SHOWN



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

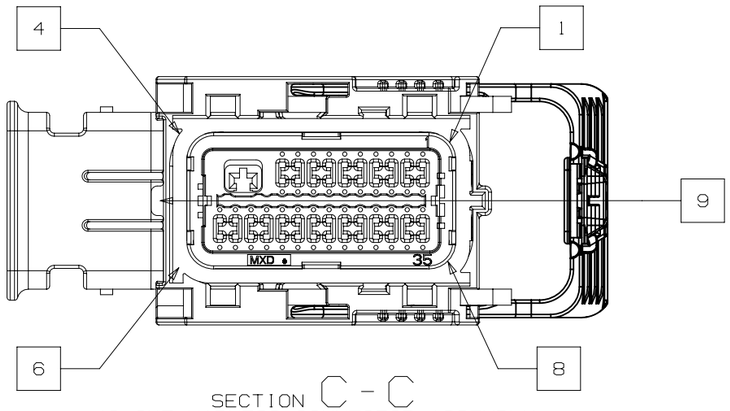
	GM	PAGE TITLE: KEY ID REF - WIRE DRESS OPTION 0		DRAWING NUMBER: 12672832	DWG STATUS: ST R / REV 001 / PDI	PAGE NUMBER: 11 OF 23



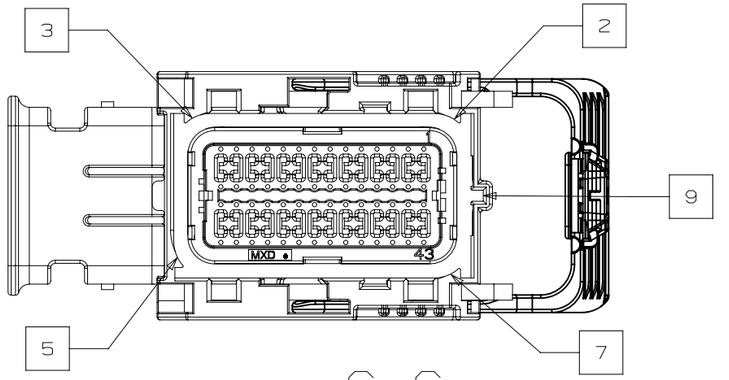


NOTE: REFERENCE THE COMPONENT TABLE FOR KEY OPTIONS AND CONFIGURATIONS

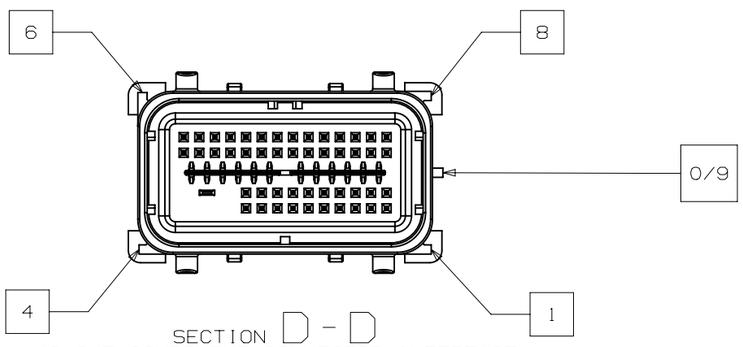
INTERFACE SIDE SHOWN ON ALL SECTION VIEWS



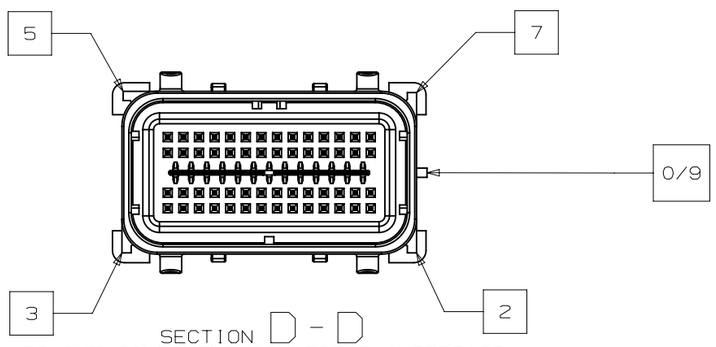
SECTION C - C
49 CKT HARNESS CONNECTOR ASSEMBLY
KEY OPTION B SHOWN



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

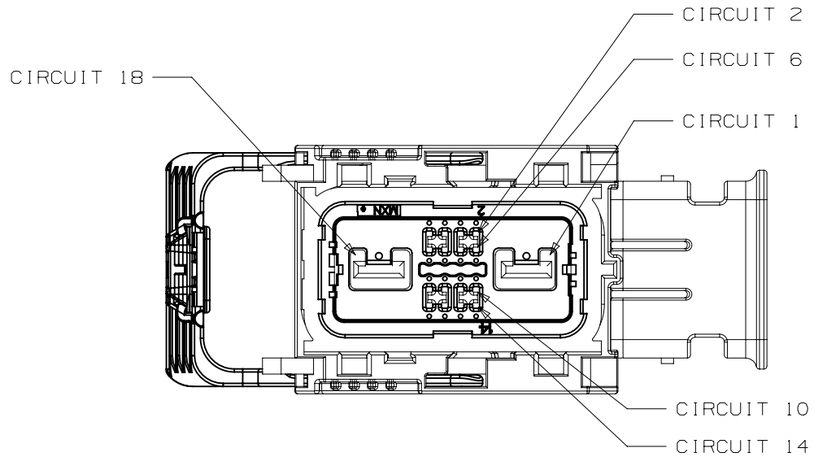


SECTION D - D
49 CKT COMPONENT CONNECTOR INTERFACE
KEY OPTION B SHOWN

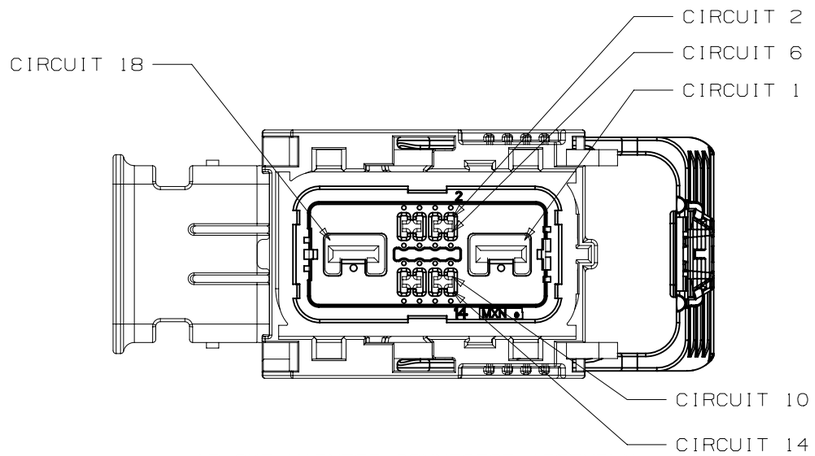


SECTION D - D
56 CKT COMPONENT CONNECTOR INTERFACE
KEY OPTION K SHOWN

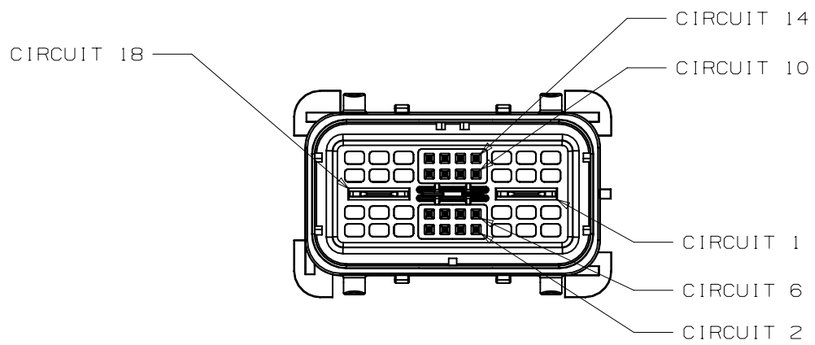
	GM	PAGE TITLE: KEY ID REF - WIRE DRESS OPTION 9		DRAWING NUMBER: 12672832	DWG STATUS: ST R / REV 001 / PDI	PAGE NUMBER: 12 OF 23



18 CKT HARNESS CONNECTOR ASSEMBLY
WIRE DRESS OPTION 0



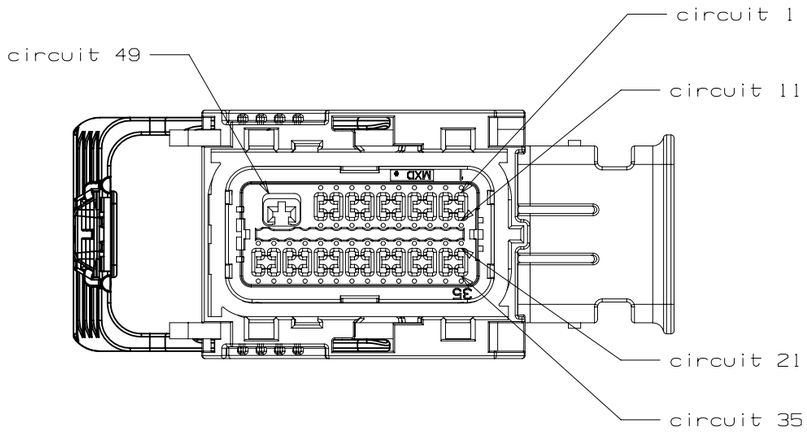
18 CKT HARNESS CONNECTOR ASSEMBLY
WIRE DRESS OPTION 9



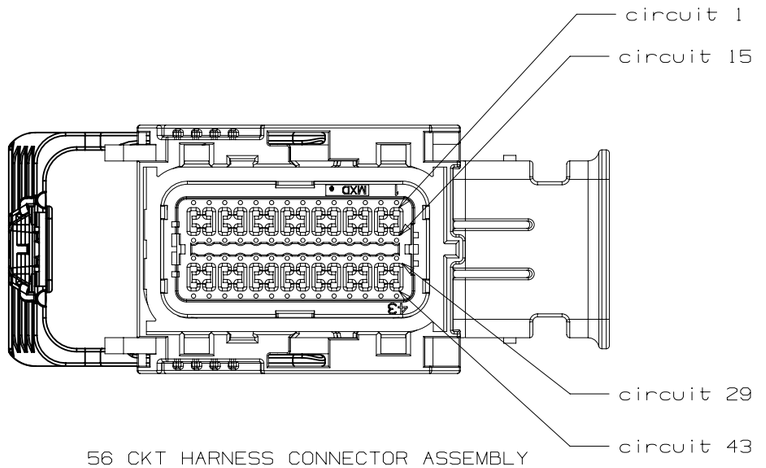
18 CKT COMPONENT CONNECTOR INTERFACE

INTERFACE SIDE SHOWN ON ALL VIEWS

	GM	PAGE TITLE CIRCUIT CONFIGURATIONS		DRAWING NUMBER 12672832	DWG STATUS ST: R REV: 001 PDI:		PAGE NUMBER 13 OF 23

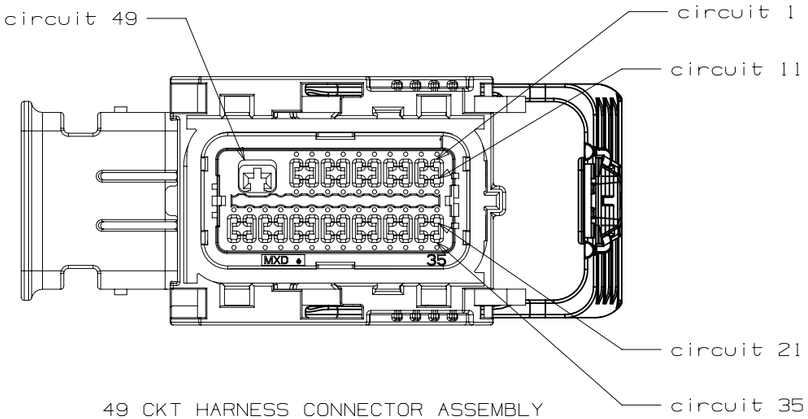


49 CKT HARNESS CONNECTOR ASSEMBLY
WIRE DRESS OPTION 0

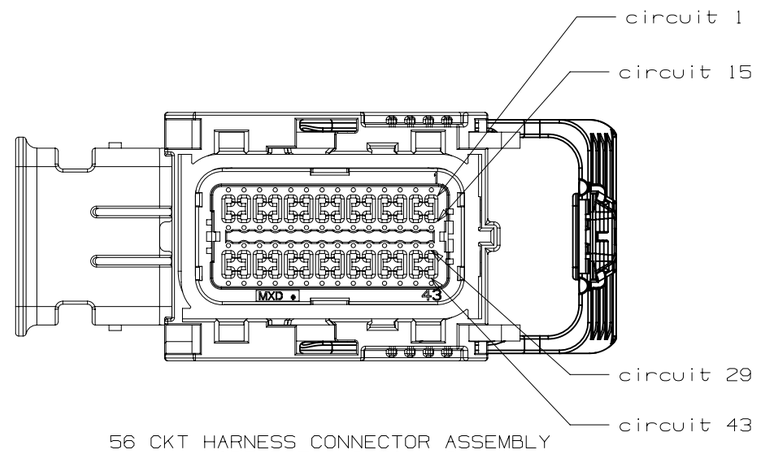


56 CKT HARNESS CONNECTOR ASSEMBLY
WIRE DRESS OPTION 0

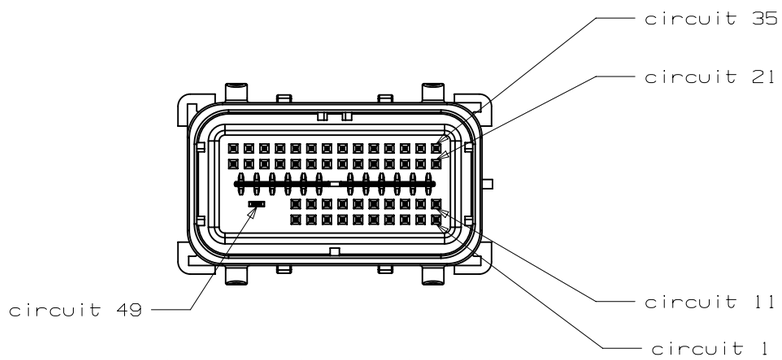
INTERFACE SIDE SHOWN ON ALL VIEWS



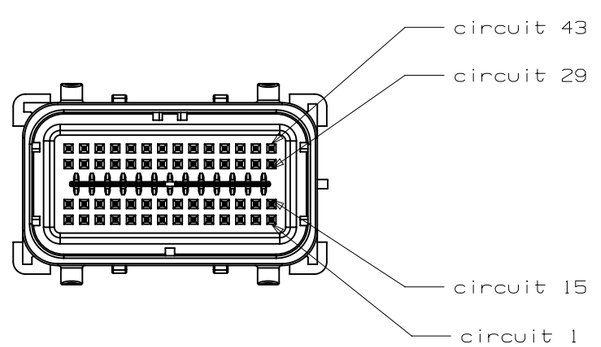
49 CKT HARNESS CONNECTOR ASSEMBLY
WIRE DRESS OPTION 9



56 CKT HARNESS CONNECTOR ASSEMBLY
WIRE DRESS OPTION 9

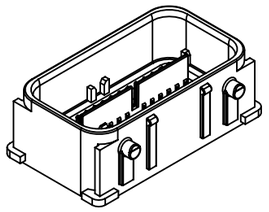


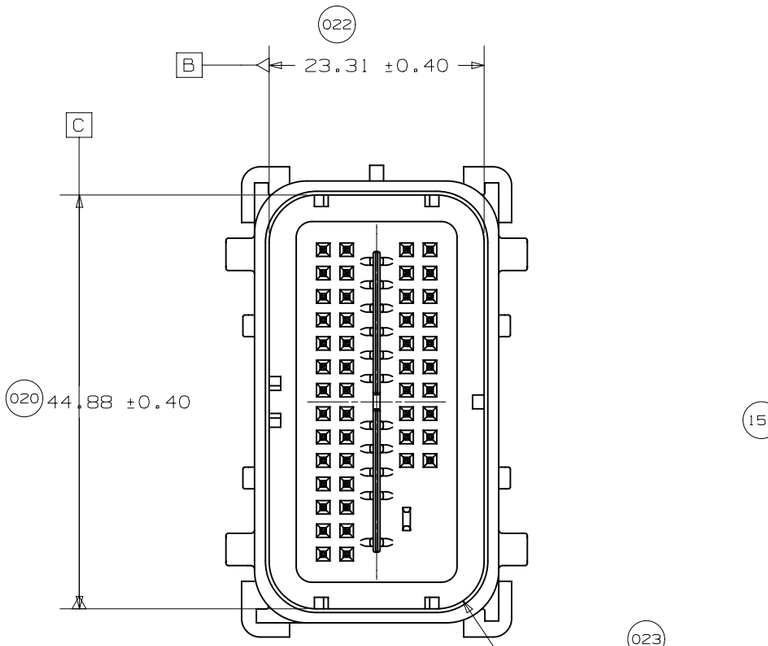
49 CKT COMPONENT CONNECTOR INTERFACE

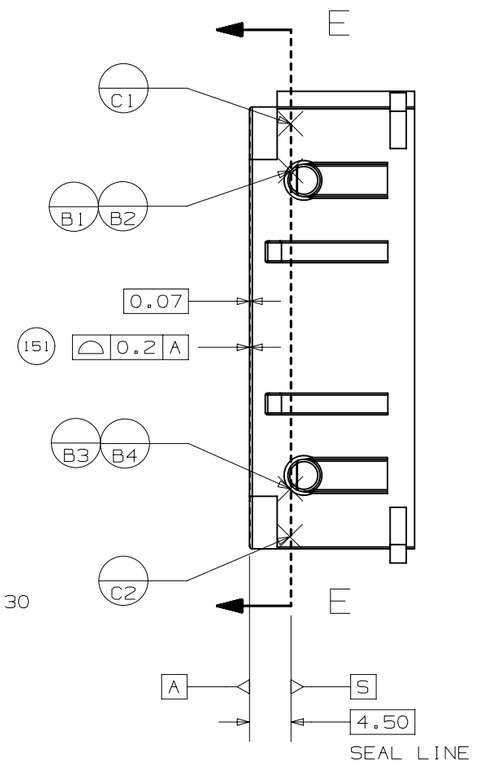


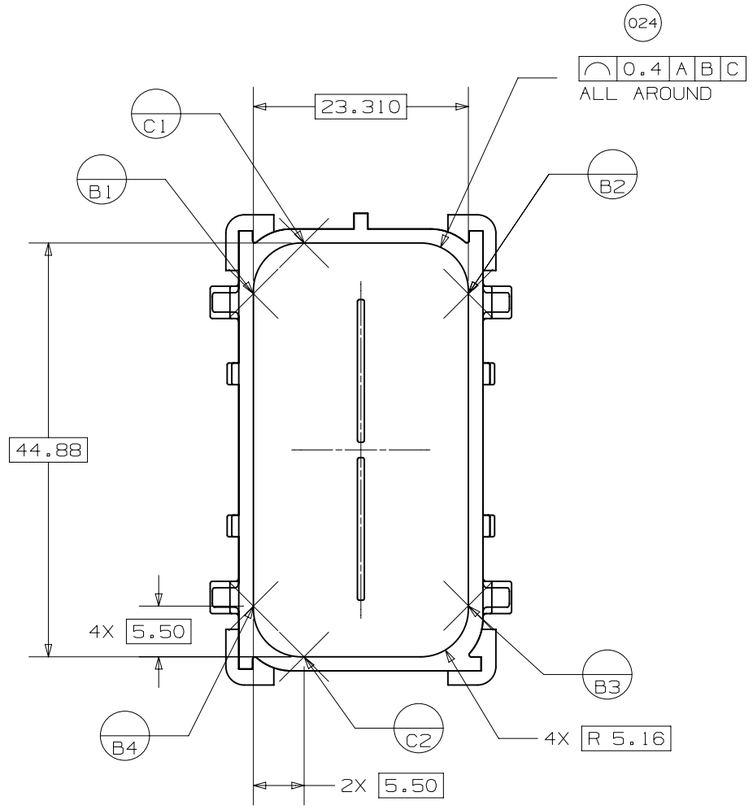
56 CKT COMPONENT CONNECTOR INTERFACE

	GM	PAGE TITLE CIRCUIT CONFIGURATIONS		DRAWING NUMBER 12672832	DWG STATUS ST: R REV: 001 PDI:		PAGE NUMBER 14 OF 23





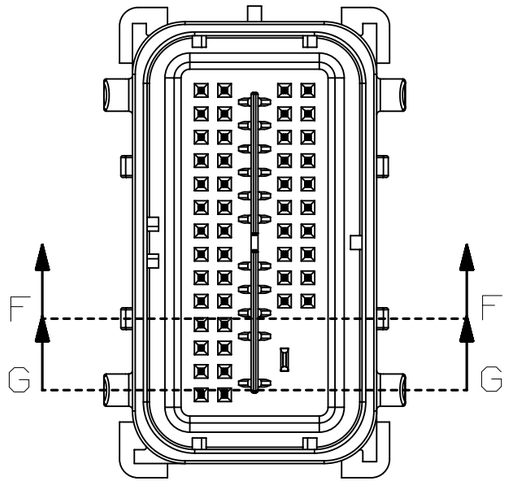


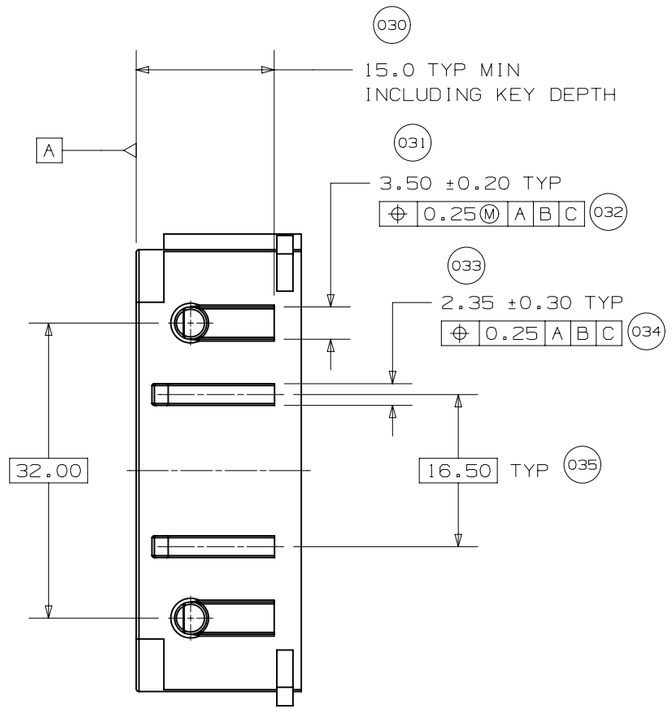


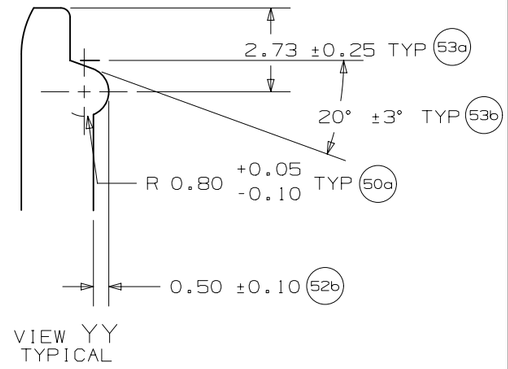
SECTION E-E
(AT SEAL LINE)

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

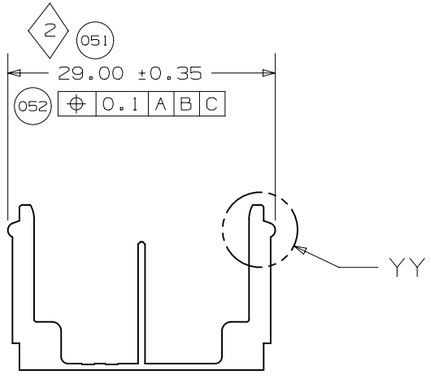
GM	PAGE TITLE: COMPONENT CONNECTOR INTERFACE		DRAWING NUMBER: 12672832	DWG STATUS		PAGE NUMBER
				ST: R	REV: 001	PDI:	15 OF 23



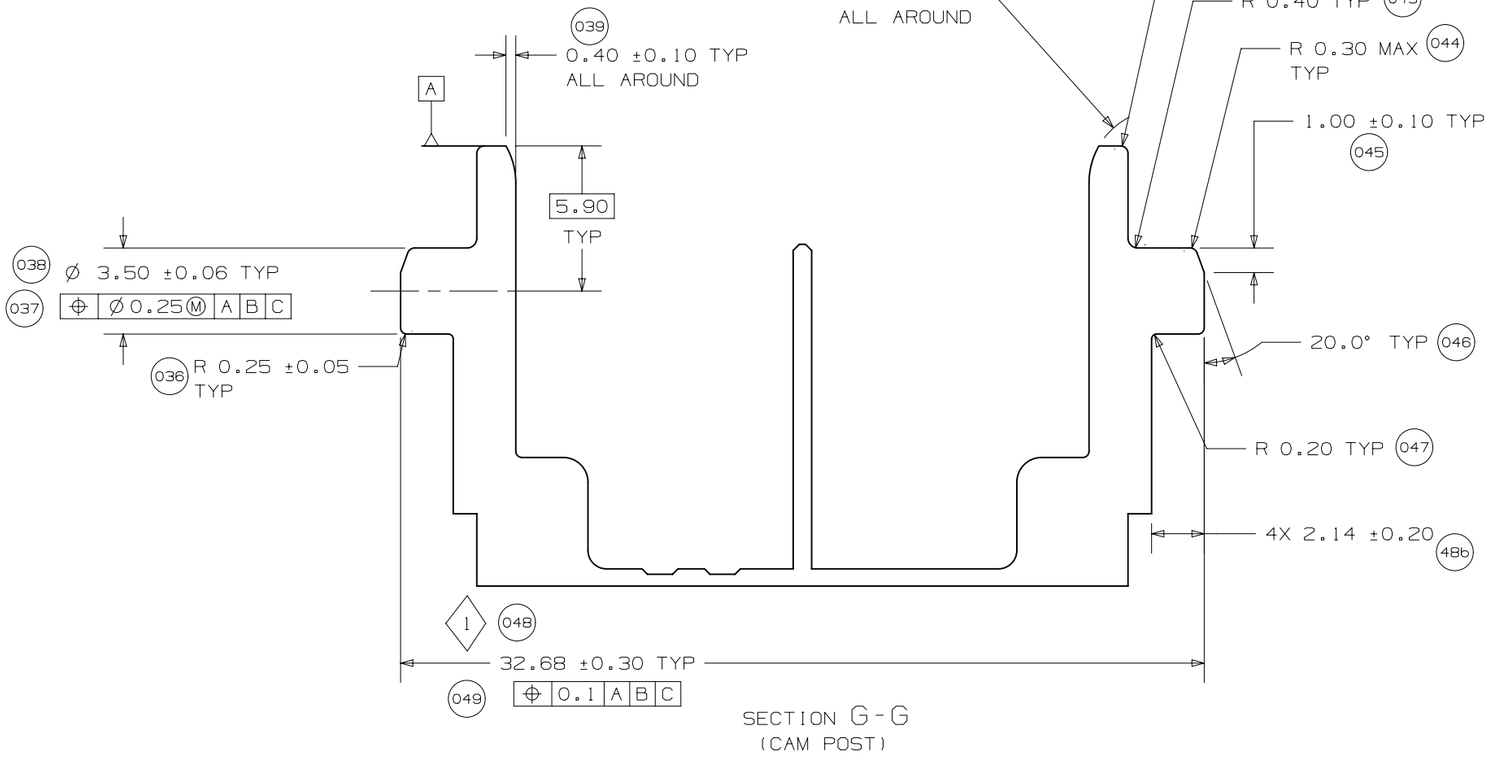




VIEW YY
TYPICAL

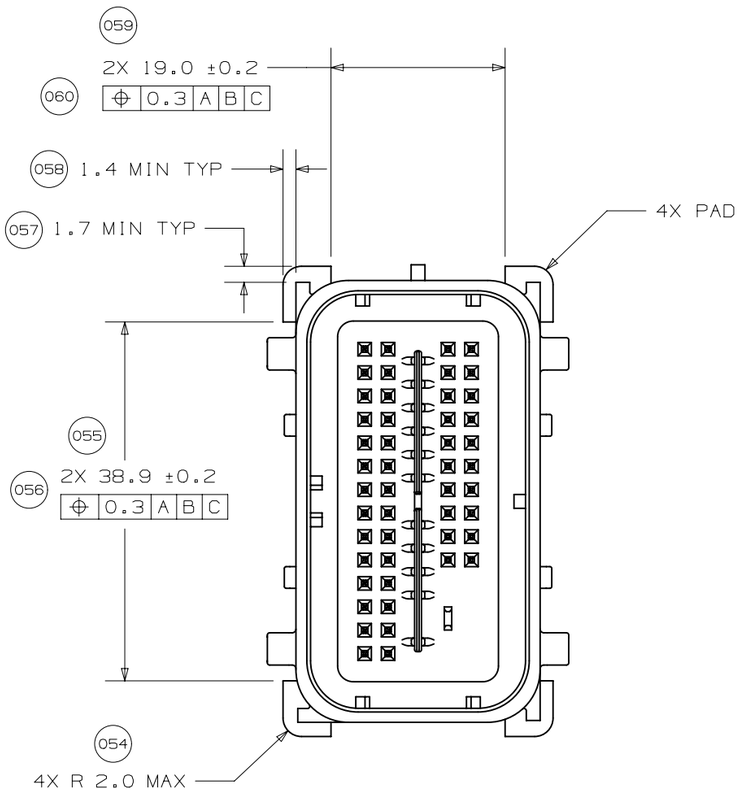


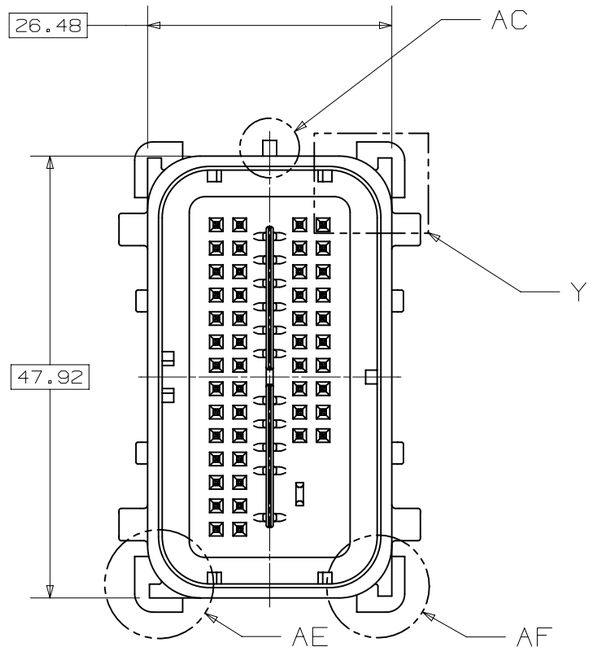
SECTION F-F
(RELEASE FEATURE)

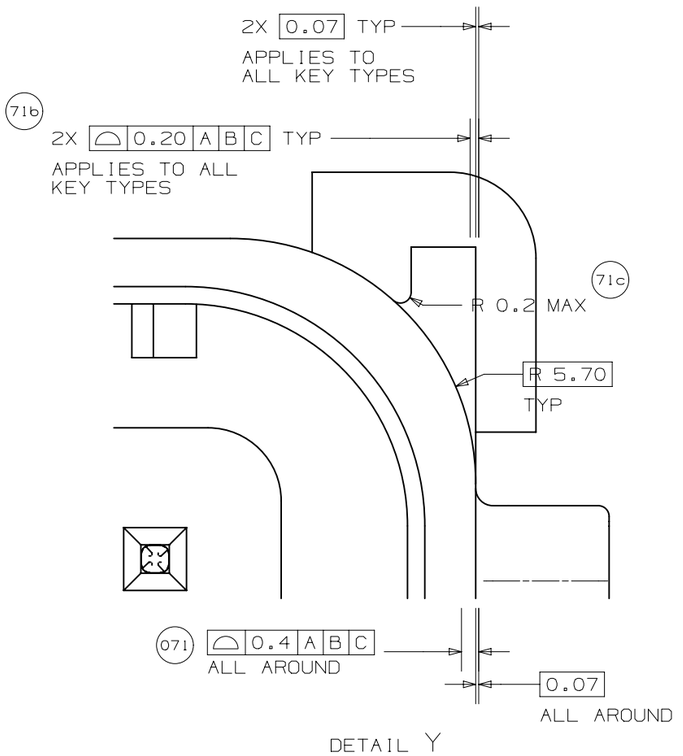


SECTION G-G
(CAM POST)

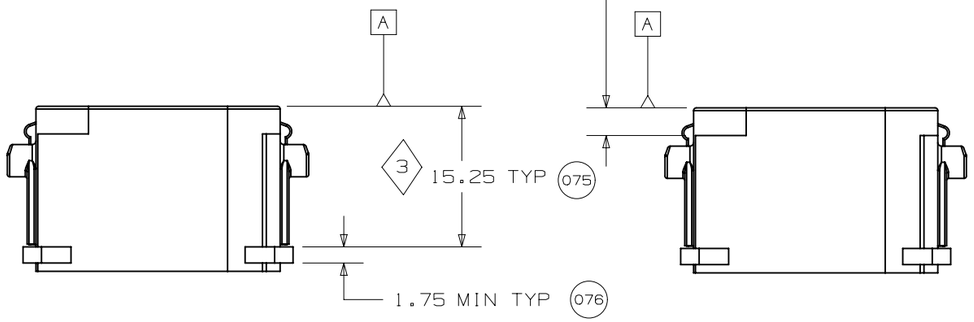
	GM	PAGE TITLE COMPONENT CONNECTOR INTERFACE		DRAWING NUMBER 12672832	DWG STATUS ST: R / REV: 001 / PDI:	PAGE NUMBER 16 OF 23

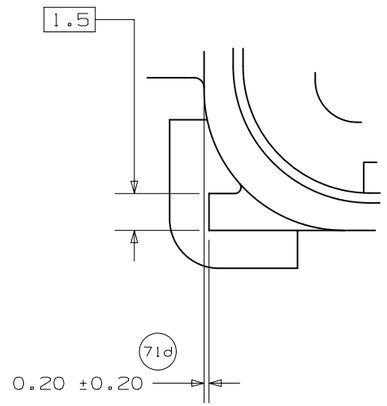




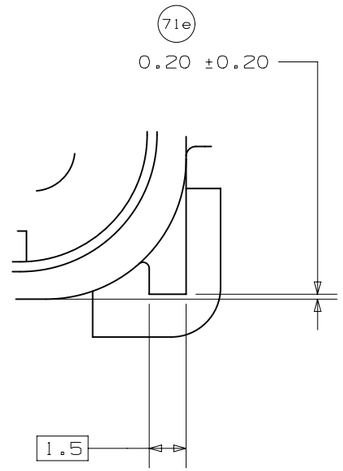


DETAIL Y

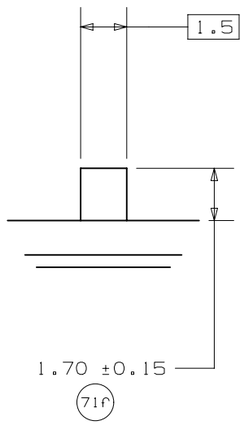




VIEW AE
KEY TYPE 2

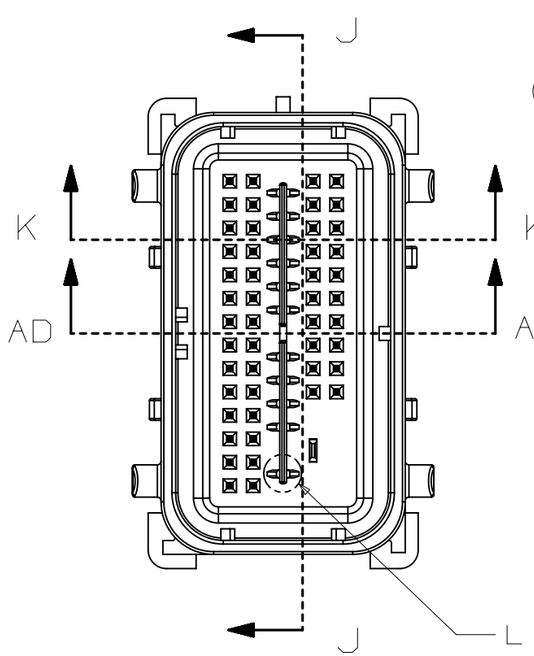


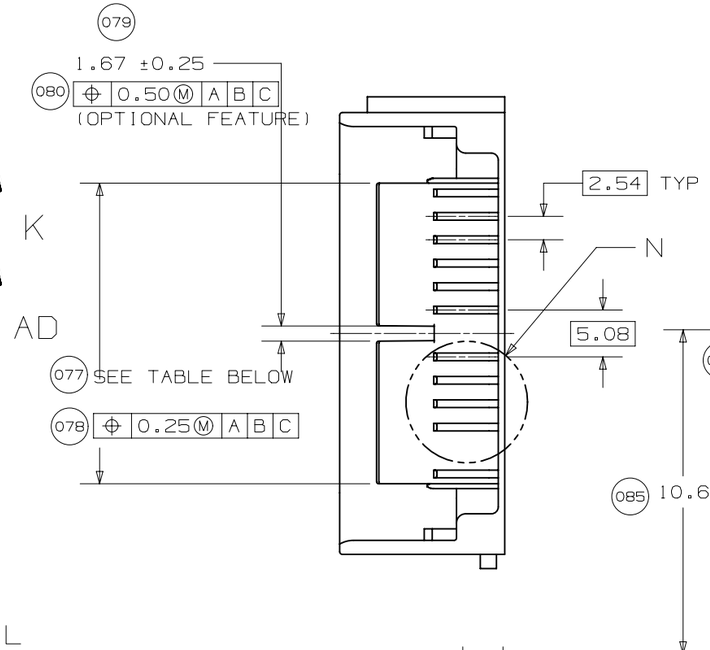
VIEW AF
KEY TYPE 1



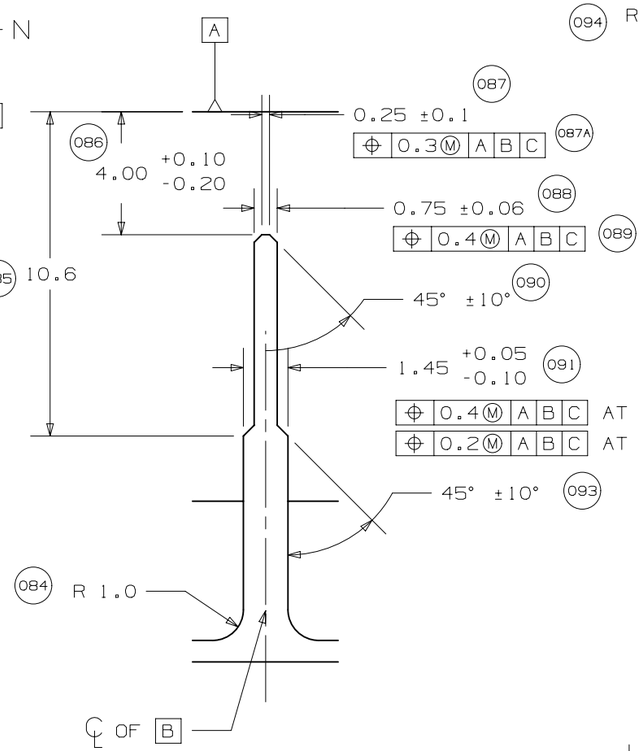
VIEW AC
KEY TYPE 3

	GM	PAGE TITLE: COMPONENT CONNECTOR INTERFACE		DRAWING NUMBER: 12672832	DWG STATUS: ST R / REV 001 / PDI	PAGE NUMBER: 17 OF 23

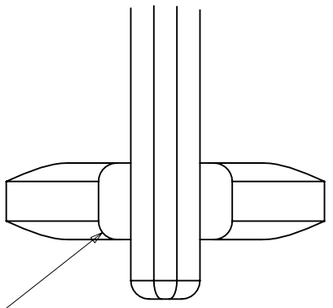




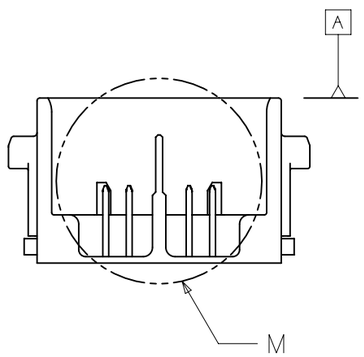
SECTION J-J



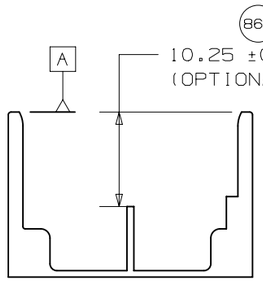
VIEW M
TYPICAL



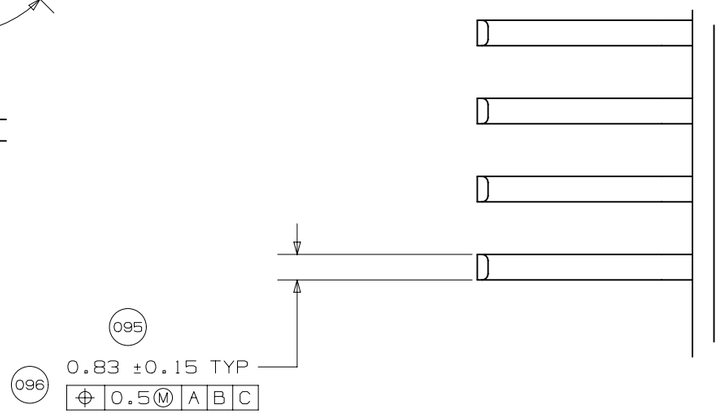
VIEW L



SECTION K-K



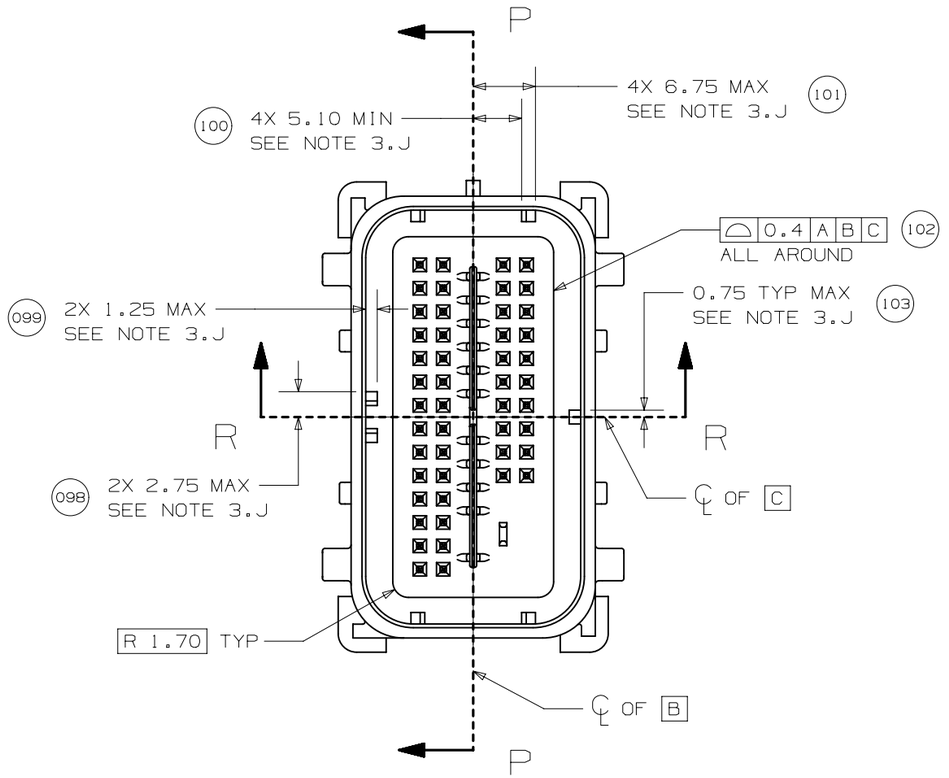
SECTION AD-AD

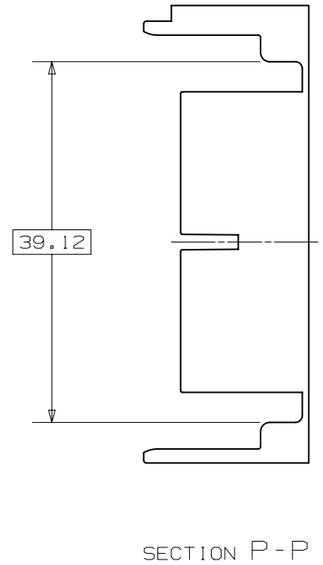


VIEW N

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

	GM	PAGE TITLE: COMPONENT CONNECTOR INTERFACE		DRAWING NUMBER: 12672832	DWG STATUS: ST R / REV 001 / PDI	PAGE NUMBER: 18 OF 23





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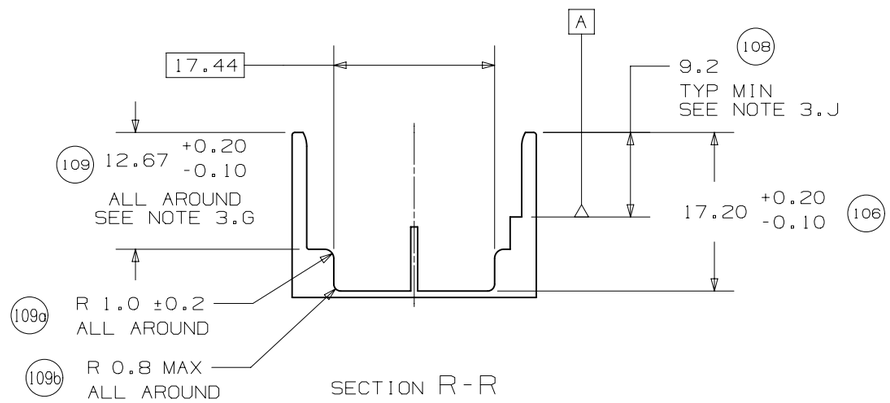

SECTION R-R

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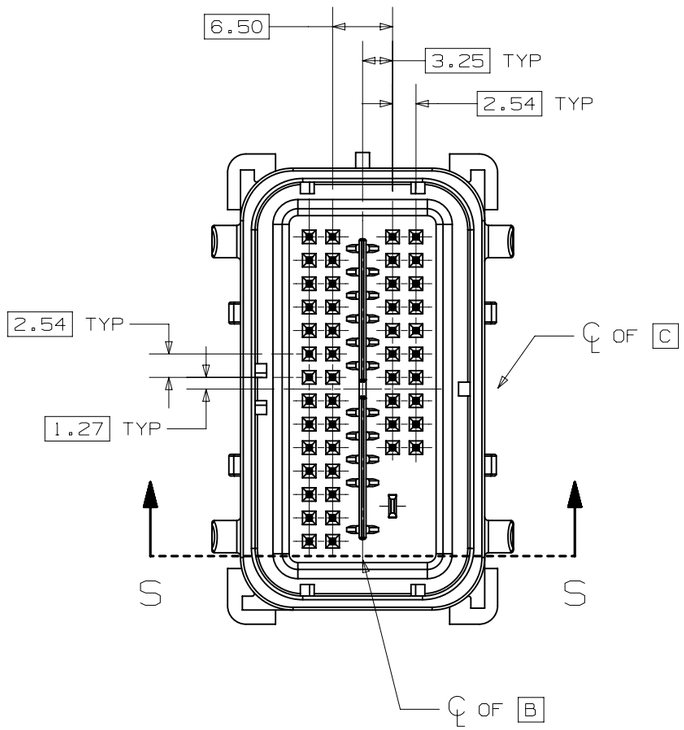
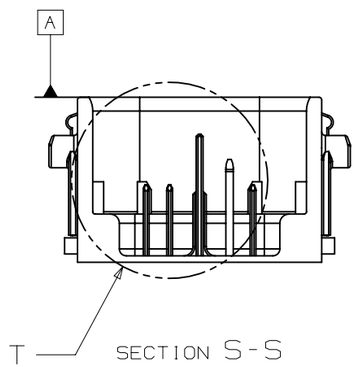
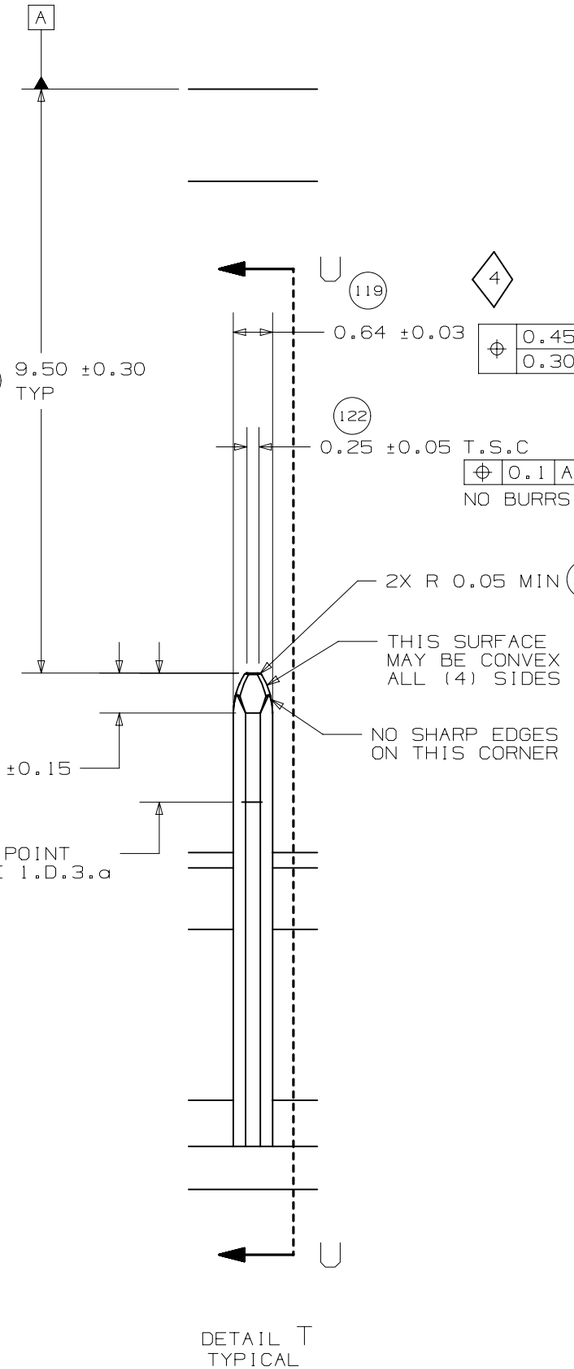
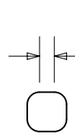






DETAIL T
TYPICAL



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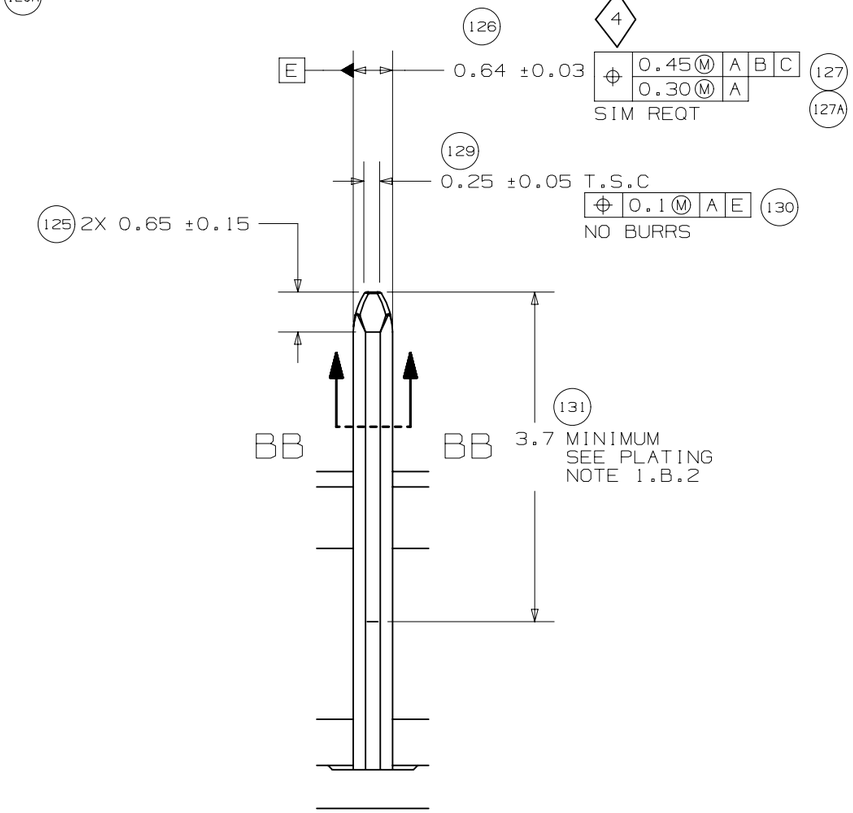

SECTION U-U
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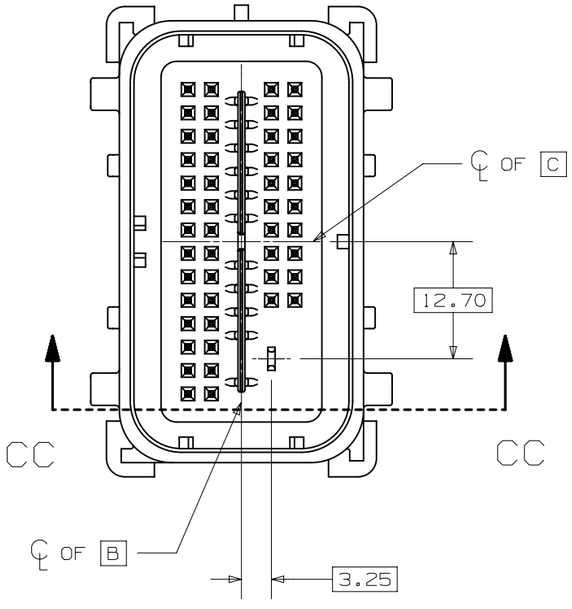
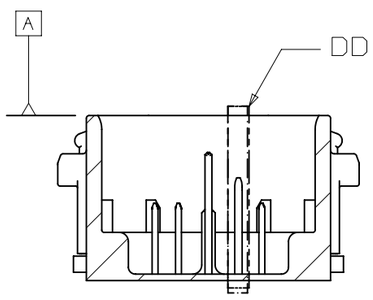
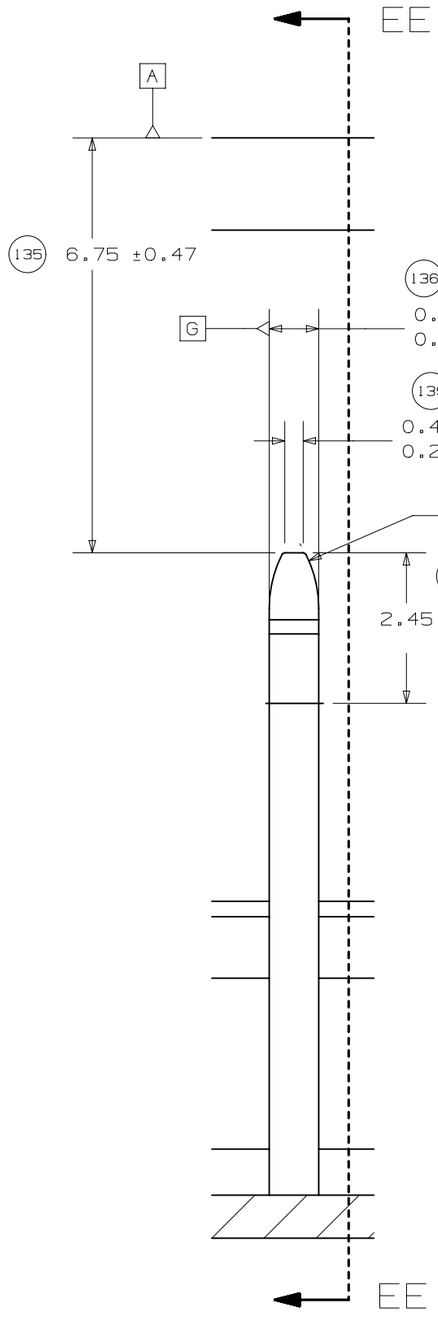
	GM	PAGE TITLE COMPONENT CONNECTOR INTERFACE		DRAWING NUMBER 12672832	DWG STATUS ST: R / REV: 001 / PDI:		PAGE NUMBER 20 OF 23





SECTION CC-CC



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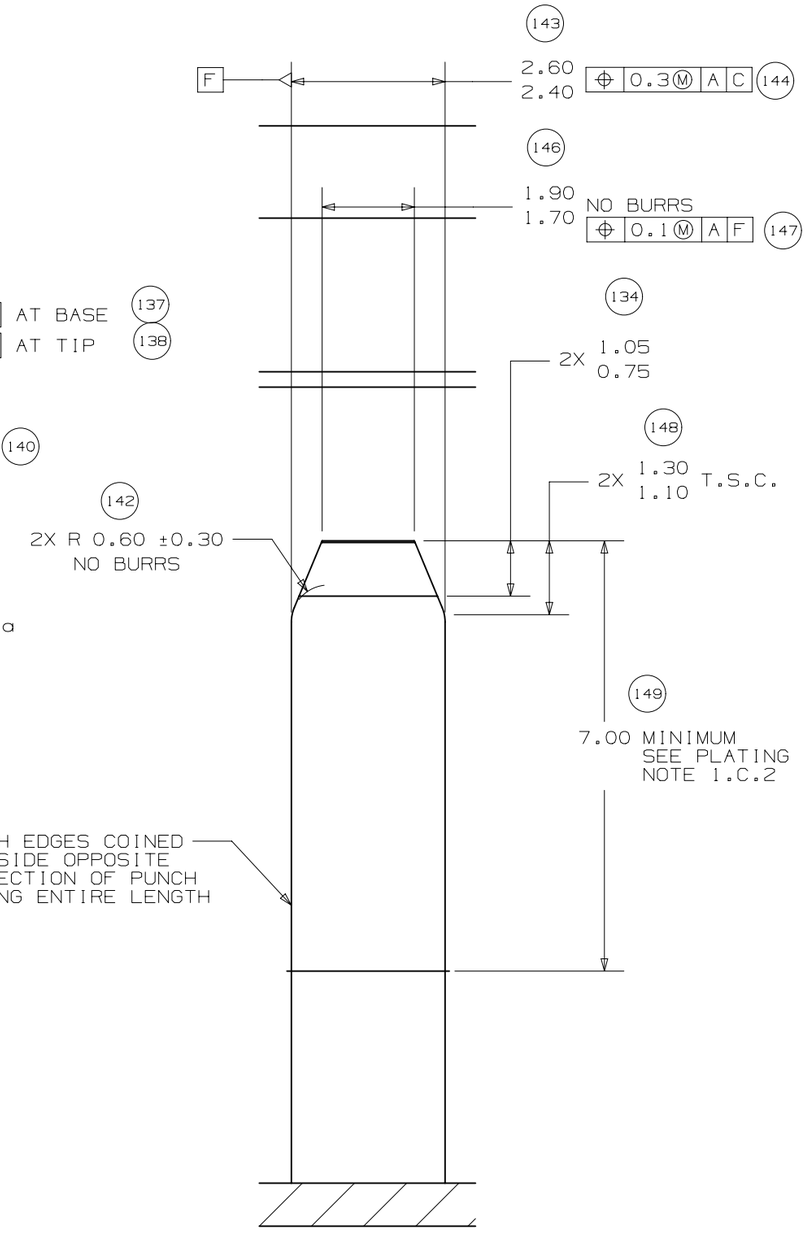

SECTION EE-EE
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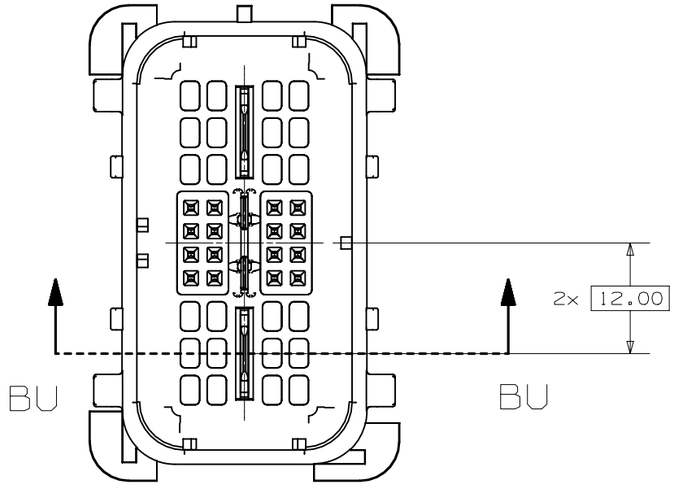
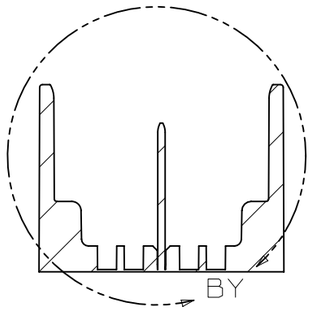
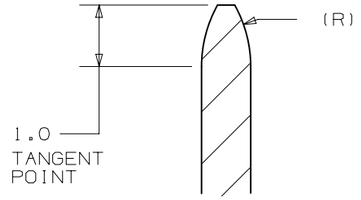




SECTION BU-BU



VIEW CA
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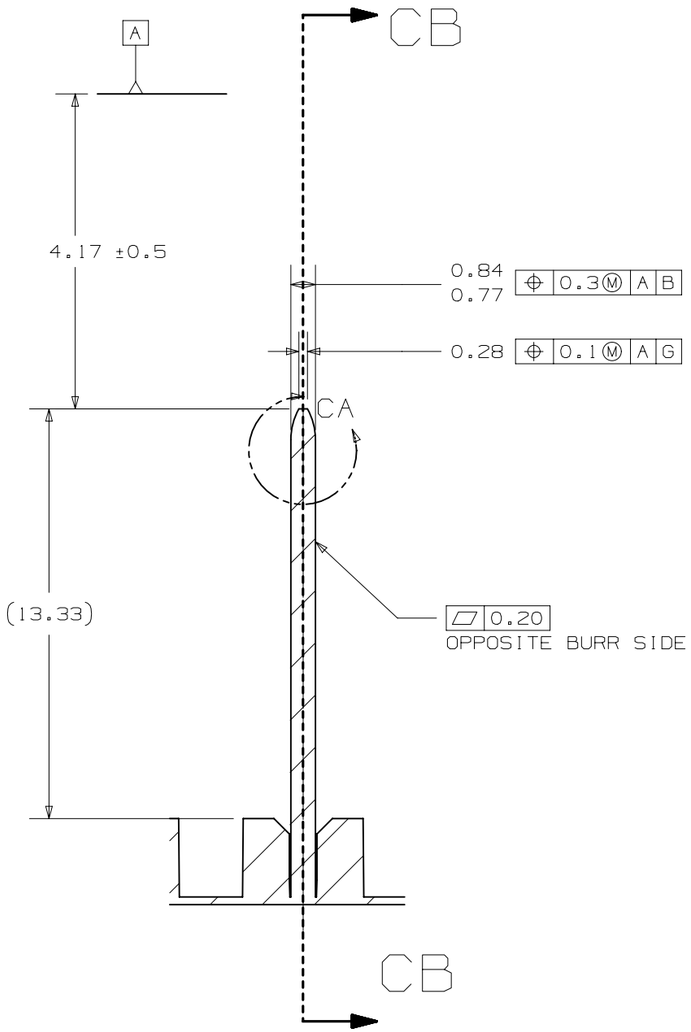
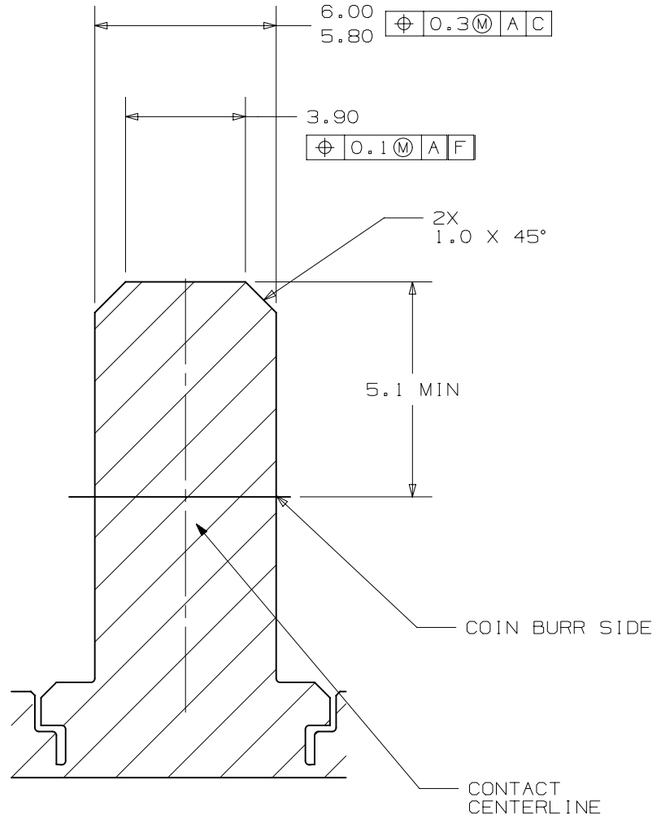


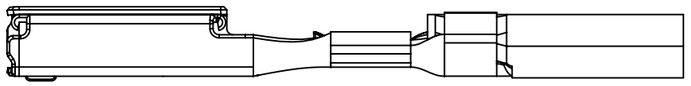
VIEW BY
SCALE 5:1

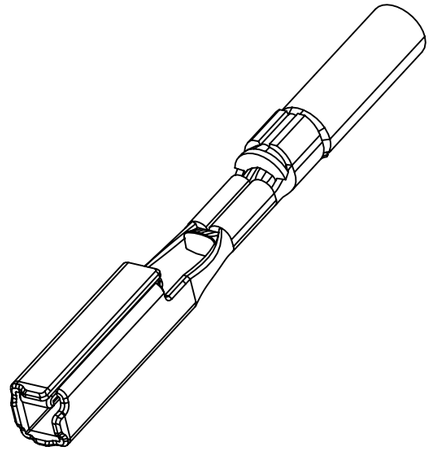


SECTION CB-CB

GM	PAGE TITLE: COMPONENT CONNECTOR INTERFACE		DRAWING NUMBER: 12672832	DWG STATUS ST: R	REV: 001	PDI:	PAGE NUMBER: 22 OF 23

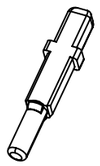
MOLEX MX64 RECEPTACLE TERMINAL INFORMATION							
ITEM	MOLEX P/N	GM P/N	WIRE SIZE MM2	TYPE	PLATING	REEL WIND DIRECTION	COMMENTS
1	34736-0025		0.35	ISO	SILVER	LEFT	
2	34736-0026	12672850	0.35	ISO	SILVER	RIGHT	
3	34736-0027		0.5 / 0.75	ISO	SILVER	LEFT	
4	34736-0028	12672851	0.5 / 0.75	ISO	SILVER	RIGHT	

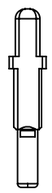




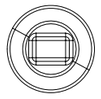
CAVITY PLUGS									
ITEM	MFG	MFG P/N	GM P/N RD	SIZE	COLOR	MFG DRAWING	PROD SPEC	APP SPEC	COMMENTS
1	MOLEX	34586-0001	12674820	0.64	NATURAL	SD-34586-001	PS-34566-0000	AS-34566-001	
2	YAZAKI	7158-3114-90	12674821	2.8	BLUE	7158-3114-90	YPES-11-04-062	YPES-15-299	

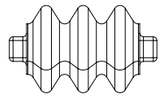
ITEM 1





ITEM 2





	GM	PAGE TITLE: ADDITIONAL COMPONENTS REQUIRED		DRAWING NUMBER: 12672832	DWG STATUS ST: R	REV: 001	PDI:	PAGE NUMBER: 23 OF 23

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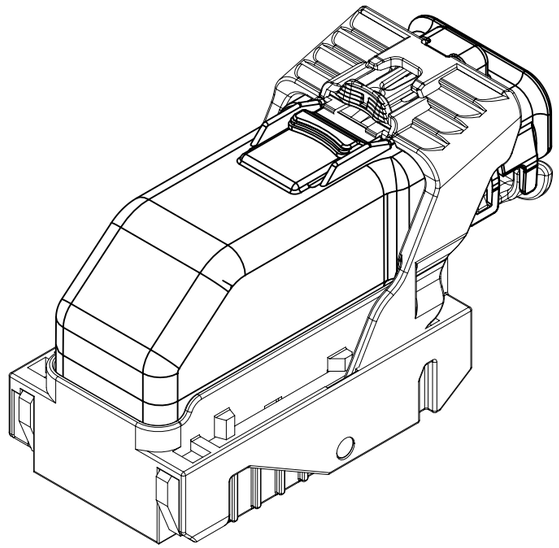

ISO VIEW

GM

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CHANGE RESTRICTED
NO MANUAL CHANGES

DO NOT SCALE

METRIC

DIMENSIONS SHOWN IN MILLIMETERS UNLESS OTHERWISE SPECIFIED

REFERENCE
12H (MOLEX AUTOMOTIVE)

	DATE
DRAFTER	05JN15
APVD1	
APVD2	
APVD3	
APVD4	
APVD5	

DRAWING NAME
HARNESS CONN ASM-SEALED 52/66/73/80 CKTS,MX123

DRAWING NUMBER
12672833

DWG STATUS		
ST	REV	PDI
R	001	

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	05JN15	R	001			RELEASED TO PRODUCTION AT DLS A	CRMRJE	DFK		

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

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