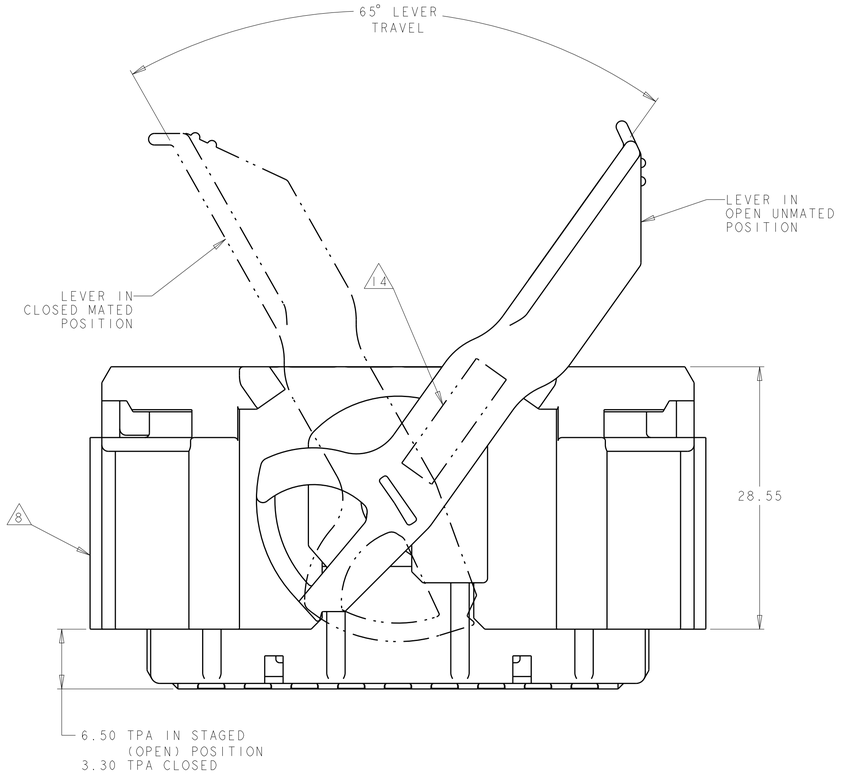
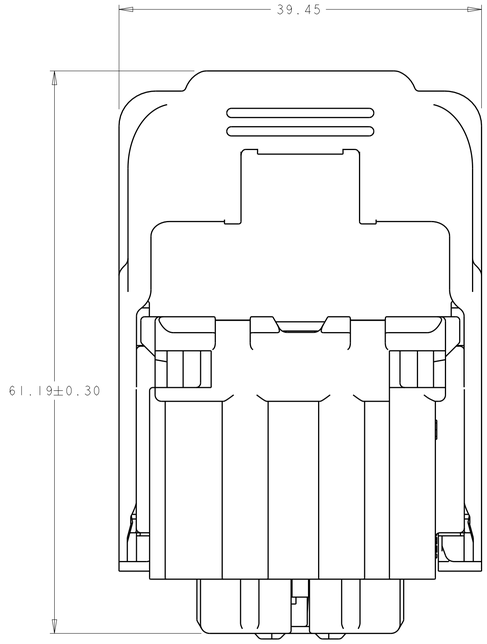
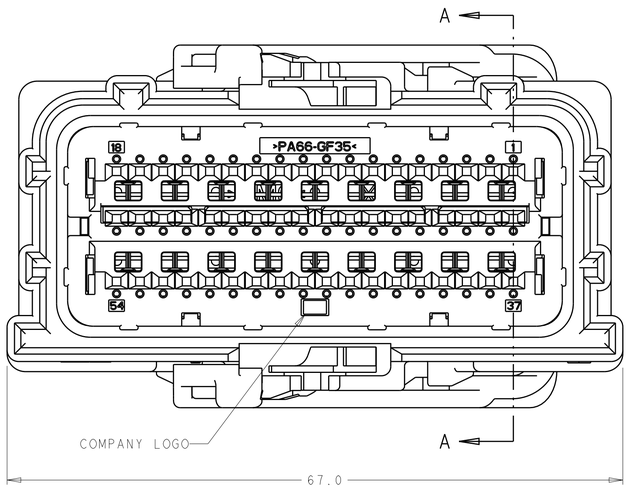
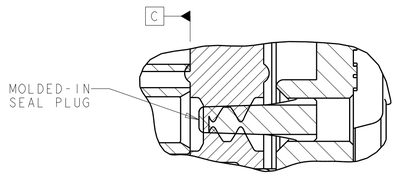
REVISIONS					
P	LTR	DESCRIPTION	DATE	DWN	APVD
	B10	REVISED PER ECO-18-008115	24MAY2018	JMS	GM
	B11	REVISED PER ECO-18-010459	02JUL2018	JMS	GM
	B12	REVISED PER ECO-19-001038	22JAN2019	JMS	GM
	B13	REVISED PER ECO-19-014660	26SEP2019	JMS	WW

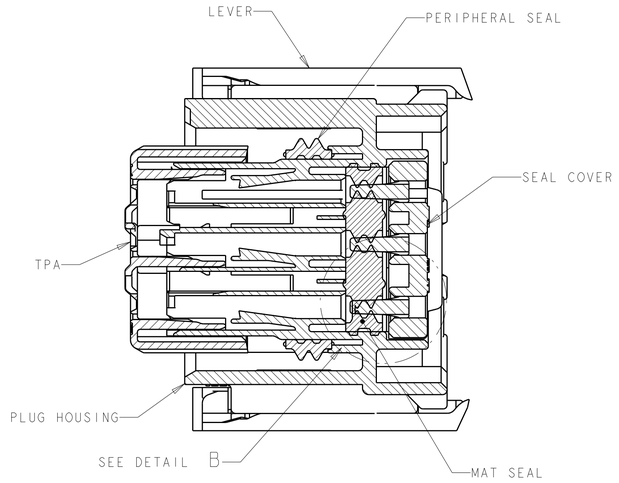








DETAIL B
SCALE 6:1



SECTION A-A

1. MATERIAL: PLUG HOUSING - NYLON 6/6, 35% GLASS-FILLED, YELLOW
   TPA - NYLON 6/6, 35% GLASS-FILLED, BLACK
   PERIPHERAL SEAL - SILICONE, LIGHT BLUE
   MAT SEAL - SILICONE, LIGHT BLUE
   LEVER - NYLON 6/6, 35% GLASS-FILLED, GRAY
   SEAL COVER - NYLON 6/6, 35% GLASS-FILLED, BLACK

2. APPLICABLE HEADER INTERFACE SPECIFICATION - SEE LAST 2 SHEETS.

3. WIRE DRESS, PART NUMBER 2035024-2, TO BE PURCHASED SEPARATELY.

4. INSTRUCTION SHEET PER TE SPECIFICATION 408-10334.

5. THIS PRODUCT HAS BEEN VALIDATED FOR USE WITH THE FOLLOWING TERMINAL PART NUMBERS AND WIRE SIZES:
   TE, GENERATION Y, (SILVER PLATED) TERMINAL P/N 2138699-1,
   GM P/N tbd
   REF. TERMINAL APPLICATION SPECIFICATION 114-13183
   WIRE RANGE 0.35 - 0.5mm^2
   WIRE INSULATION RANGE: 1.5 to 1.7mm (OUTER DIAMETER)
   ALSO, WIRE SIZE: 0.75mm^2 IN 2 CIRCUITS MAXIMUM WITH WIRE INSULATION OUTER DIAMETER 1.70 to 1.90mm. USE TE TERMINAL P/N 2138699-2,
   GM P/N tbd
   ALSO, GM APPROVED, GMW15626, ISO WIRE, 0.35mm^2 WIRE SIZE,
   1.2mm to 1.4mm WIRE INSULATION OUTER DIAMETER.

   THE 2138699-1, -2 TE CONNECTIVITY TERMINALS ARE GM APPROVED PER GM CONNECTOR GROUP CONNECTOR CHANGE NOTIFICATION BULLETIN #7, TE TERMINALS FOR SDM CONNECTOR, DATED MARCH 26, 2013.

6. KEY CONFIGURATION "E" IS FOR GM SERVICE ONLY.

7. NOTE REMOVED

8. TE PART NUMBER AND JULIAN DATE CODE (YY-DDD-HH-MM) ON THIS SIDE. OPTIONAL MANUAL ASSEMBLY CHARACTER AFTER DATE CODE.

9. FOR BLOCKED CIRCUITS FOR SERVICE, PROTOTYPE, AND PRODUCTION APPLICATIONS, USE ONLY TE INDIVIDUAL SEAL PLUG P/N 1456538-1.

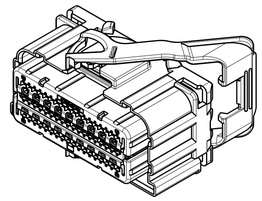
10. FOR BLOCKED CIRCUITS REQUIRED IN PRODUCTION APPLICATIONS, REFER TO EXISTING CIRCUIT CONFIGURATIONS (SEE SHEET 4 & 5).

11. CONNECTOR MEETS GMW3191, CLASS 1, ENVIRONMENTAL, ELECTRICAL, MECHANICAL, AND SEALING CLASS (2) "SEALING" TEST PER GM APPROVED/SIGNED TEST PLANS.

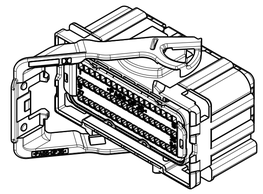
12. FOR SILVER PLATED TERMINALS, ELECTRICAL PERFORMANCE IS NOT AFFECTED BY DISCOLORATION OR TARNISH ON SURFACE.

13. NOTE REMOVED.

14. ALTERNATE MARKING FOR MANUAL ASSEMBLY. MARK TE PART NUMBER, JULIAN DATE, AND KEY ON LEVER APPROXIMATELY AS SHOWN. (YYDDD K) Y=YEAR, D=DAY, K=KEY



SCALE 1:1



SCALE 1:1

SEE SHEET 3 FOR KEYING CONFIGURATIONS, AND SHEET 3 & 4 FOR CIRCUIT CONFIGURATIONS

SEE SHEET 2

PART NUMBER

THIS DRAWING IS A CONTROLLED DOCUMENT.		DWN DL DRUMMOND 14JUN2010	TE Connectivity
		CHK GENE MILLER 14JUN2010	
DIMENSIONS: mm	TOLERANCES UNLESS OTHERWISE SPECIFIED: 0 PLC ±- 1 PLC ±0.3 2 PLC ±0.2 3 PLC ±- 4 PLC ±- ANGLES ±2°	APVD GENE MILLER 14JUN2010	NAME PLUG ASSEMBLY, SEALED, 54 POSITION, SDM, RIGHT-HAND LEVER (NO SHUNTS)
		PRODUCT SPEC -	SIZE A1 / CAGE CODE 00779 / DRAWING NO C-2098922 / RESTRICTED TO
MATERIAL - - 1	FINISH - -	APPLICATION SPEC -	
		WEIGHT -	
		CUSTOMER DRAWING	SCALE 3:1 / SHEET 1 OF 5 / REV B13

REVISIONS					
P	LTR	DESCRIPTION	DATE	DWN	APVD
	-	SEE SHEET 1	-	-	-

VEHICLE PLATFORM/ MODEL YEAR	GM PART NUMBER	AVAILABLE CIRCUIT CONFIGURATION (SEE SHEET 3/4)	KEYING CONFIGURATION (SEE SHEET 3)	PART NUMBER
		C82	D	7-2098922-9
TIXX-TRUCK	13579265	C81	E	7-2098922-8
A2XX-GMNA		C80	D	7-2098922-7
ZERV		C79	B	7-2098922-6
C1YC/C1YB		C78	D	7-2098922-5
		C68	E	7-2098922-4
XTS, GMX352	13592961	C73	D	7-2098922-3
M350/SPARK, MY2014	TBD	C69	A	7-2098922-2
ZAFIRA/OPEL, MY2013	13586096	C61	B	6-2098922-8
T300	13586093	C32	A	6-2098922-7
ONIX	13584045	C60	A	6-2098922-6
VE COMMODORE(ZETA)-MY2012	13589170	C59	D	6-2098922-5
EFLEX/VOLT	13580629	C54	A	6-2098922-0
EFLEX/VOLT-MY2011	13579291	C53	D	5-2098922-9
EFLEX/VOLT-MY2012	13579290	C52	D	5-2098922-8
J300	13586095	C43	A	4-2098922-8
TBD	13586094	C41	D	4-2098922-6
E11 BODY, MY2010	13579289	C40	D	4-2098922-4
E11 BODY, MY2010	13579288	C39	B	4-2098922-3
GMX350, MY2010	13579287	C38	D	4-2098922-2
GMX350, MY2010	13579286	C37	B	4-2098922-1
GMT166, MY2010	13579285	C33	B	3-2098922-7
C140/5, MY2011	13579284	C31	B	3-2098922-5
ASTRA/OPEL, MY2010	13579283	C29	B	3-2098922-3
GMX350, MY2010	13579282	C26	D	3-2098922-0
GMX350, MY2010	13579281	C25	B	2-2098922-9
INSIGNIA, MY2010	13579280	C24	D	2-2098922-8
SIGMA, X322, MY2010	13579279	C23	B	2-2098922-7
C140/5,INSIGNIA,MY2011	13579277	C21	B	2-2098922-5
C140/5, MY2011	13579276	C20	B	2-2098922-4
C140/5,INSIGNIA,MY2011	13579275	C19	B	2-2098922-3
GMT900 HD, MY2010	13579270	C12	A	1-2098922-5
SIGMA, X322, MY2010	13579269	C11	B	1-2098922-4
GMX521, MY2010	13579268	C10	B	1-2098922-3
GMT172/177, MY2010	13579266	C6	B	2098922-9
GM SERVICE USE	13579265	C1	"E" UNIVERSAL GM SERVICE ONLY	2098922-8 △6
INITIAL-EPSILON II	13579263	C3	B	2098922-6
INITIAL-EPSILON II	13579262	C2	A	2098922-5
INITIAL-EPSILON II AND PROTOTYPE USE	13579261	C1	D	2098922-4
INITIAL-EPSILON II	13579259	C1	B	2098922-2
INITIAL-EPSILON II	13579258	C1	A	2098922-1

THIS DRAWING IS A CONTROLLED DOCUMENT.

DIMENSIONS: mm

TOLERANCES UNLESS OTHERWISE SPECIFIED:
0 PLC ±-
1 PLC ±0.3
2 PLC ±0.2
3 PLC ±-
4 PLC ±-
ANGLES ±2°

MATERIAL -
-

FINISH -
-

DWN DL DRUMMOND 14JUN2010
CHK GENE MILLER 14JUN2010
APVD GENE MILLER 14JUN2010
PRODUCT SPEC -
APPLICATION SPEC -
WEIGHT -

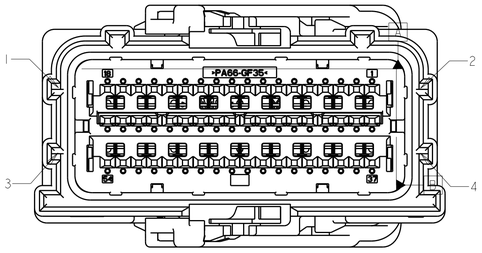
TE Connectivity

NAME PLUG ASSEMBLY, SEALED, 54 POSITION, SDM, RIGHT-HAND LEVER (NO SHUNTS)

SIZE	CAGE CODE	DRAWING NO	RESTRICTED TO
A1	00779	C-2098922	

CUSTOMER DRAWING | SCALE 2:1 | SHEET 2 OF 5 | REV B13

REVISIONS					
P	LTR	DESCRIPTION	DATE	DWN	APVD
	-	SEE SHEET 1	-	-	-



6 E	OPEN	OPEN	OPEN	OPEN
D	OPEN	CLOSED	CLOSED	OPEN
C	CLOSED	OPEN	OPEN	CLOSED
B	CLOSED	CLOSED	OPEN	OPEN
A	OPEN	OPEN	CLOSED	CLOSED
KEY DESIG	1	2	3	4
	KEYWAY LOCATION			

KEYING CONFIGURATION

C23 C21 C20 C19 C12 C11 C10 C6 C3 C2 C1

C40 C39 C38 C37 C33 C32 C31 C29 C26 C25 C24

C73 C69 C68 C61 C60 C59 C54 C53 C52 C43 C41

C82 C81 C80 C79 C78

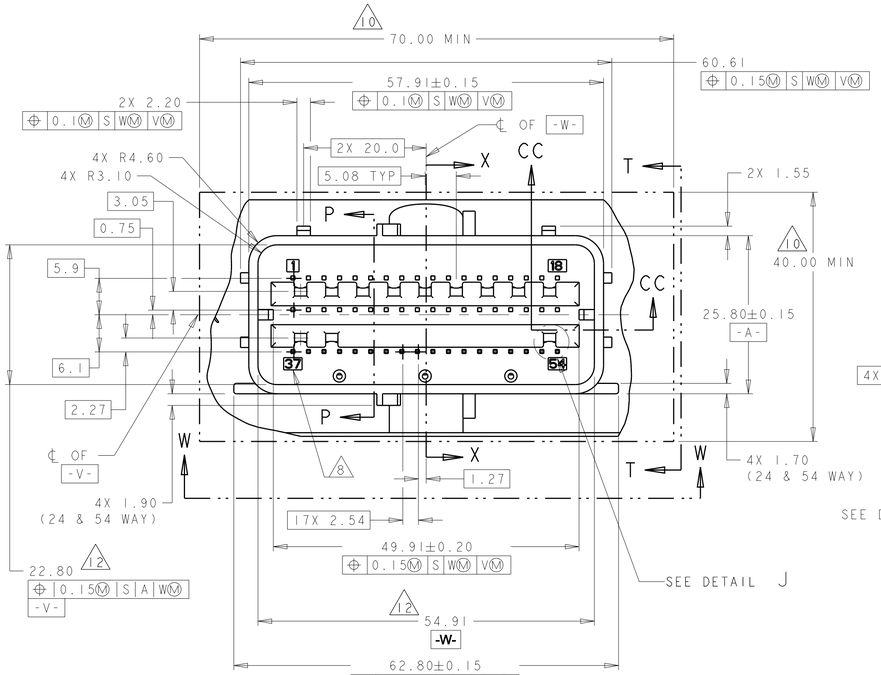
CIRCUIT CONFIGURATION

X INDICATES UNAVAILABLE (BLOCKED) CIRCUIT 10

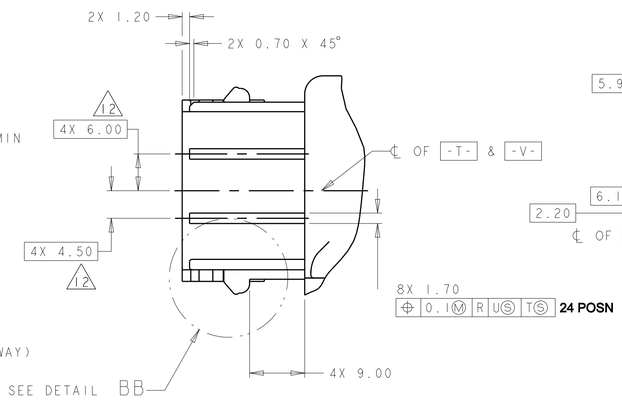
THIS DRAWING IS A CONTROLLED DOCUMENT.	DWN DL DRUMMOND 14JUN2010	TE Connectivity	
DIMENSIONS: mm	CHK GENE MILLER 14JUN2010	NAME PLUG ASSEMBLY, SEALED, 54 POSITION, SDM, RIGHT-HAND LEVER (NO SHUNTS)	
TOLERANCES UNLESS OTHERWISE SPECIFIED: 0 PLC ±- 1 PLC ±0.3 2 PLC ±0.2 3 PLC ±- 4 PLC ±- ANGLES ±2°	APVD GENE MILLER 14JUN2010	SIZE A1	CAGE CODE 00779
	PRODUCT SPEC -	DRAWING NO C-2098922	RESTRICTED TO
	APPLICATION SPEC -		
MATERIAL - -	WEIGHT -	SCALE 1:1	SHEET 3 OF 5
FINISH - -	CUSTOMER DRAWING		REV B13

APPLICABLE HEADER INTERFACE SPECIFICATION

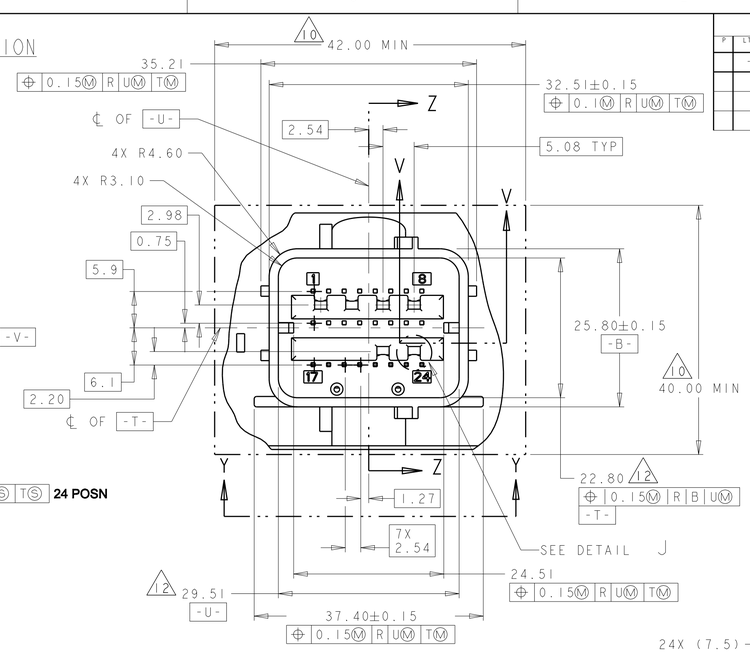
REVISIONS					
P	LTR	DESCRIPTION	DATE	DWN	APVD
	-	SEE SHEET 1	-	-	-



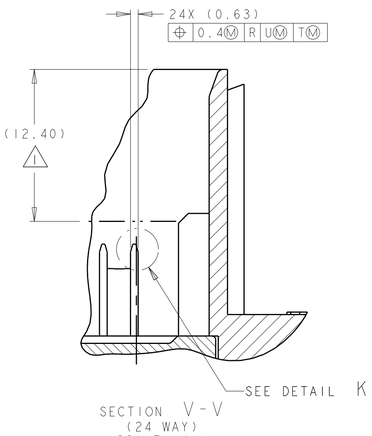
DETAIL S
(54 WAY)
SCALE 2:1



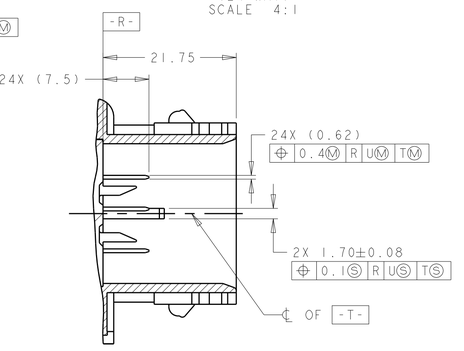
VIEW T-T
(24 & 54 WAY)



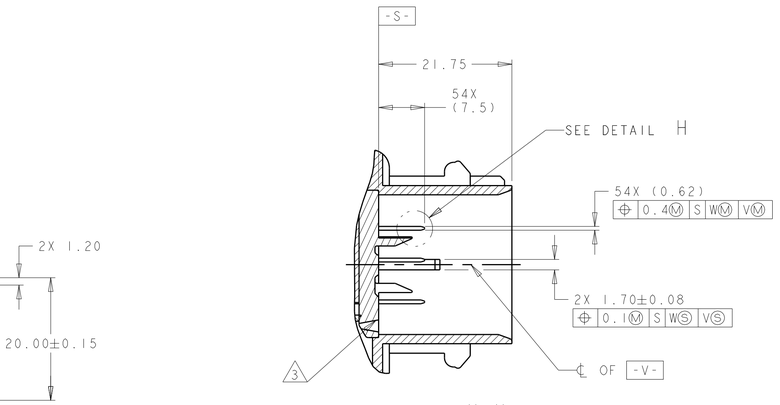
DETAIL U
(24 WAY)
SCALE 2:1



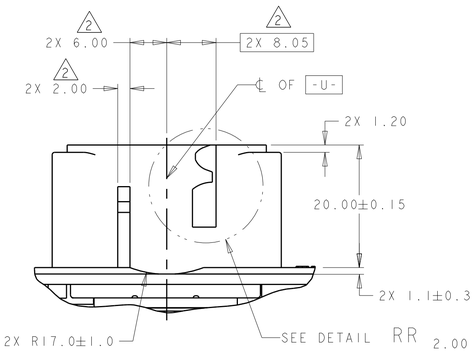
SECTION V-V
(24 WAY)
SCALE 4:1



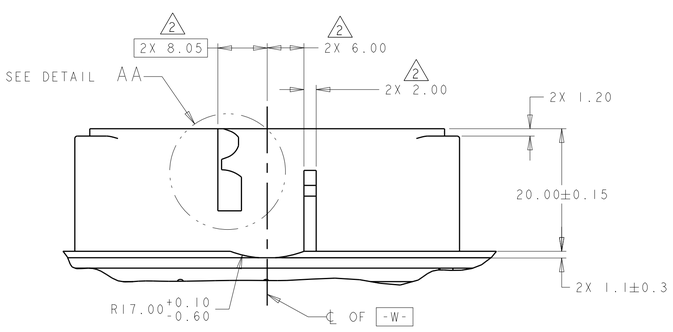
SECTION Z-Z
(24 WAY)
SCALE 2:1



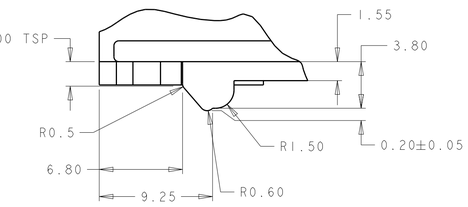
SECTION X-X
(54 WAY)
SCALE 2:1



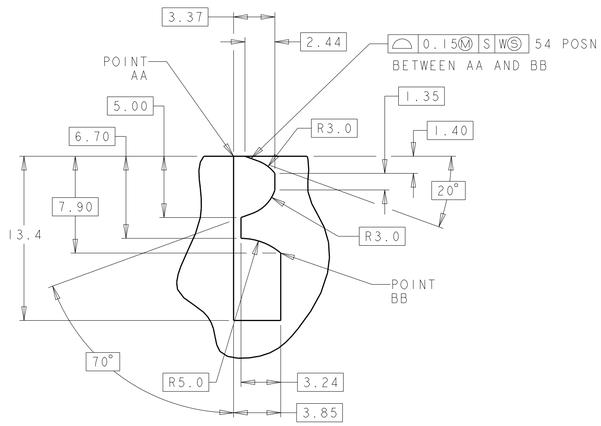
VIEW Y-Y



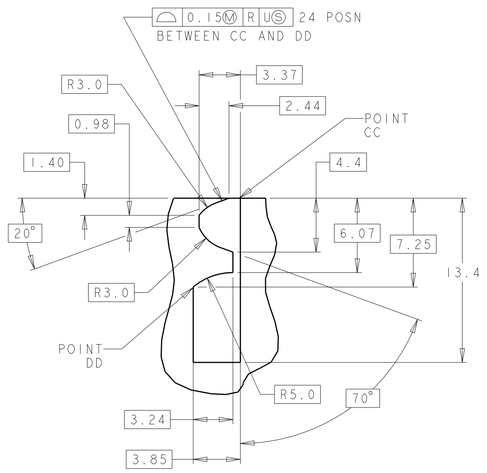
VIEW W-W
SCALE 2:1



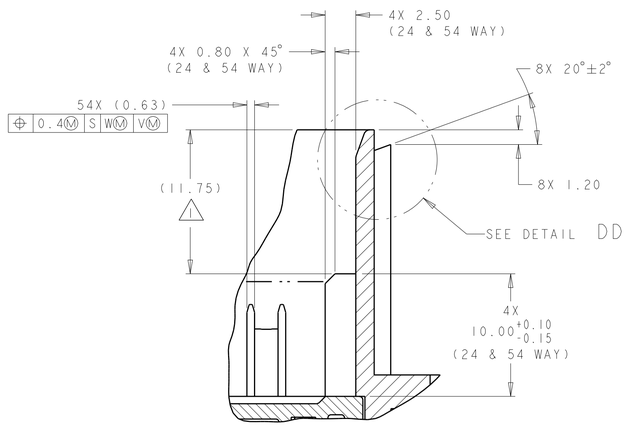
DETAIL BB
APPLIES 4 PLACES
(24 & 54 WAY)
SCALE 4:1



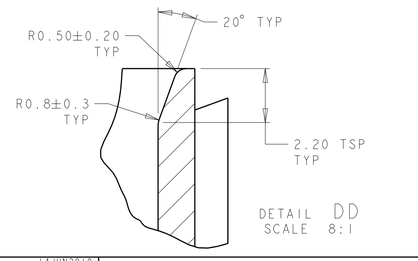
DETAIL AA
APPLIES 2 PLACES
(54 WAY)
SCALE 4:1



DETAIL RR
APPLIES 2 PLACES
(24 WAY)
SCALE 4:1



SECTION CC-CC
(54 WAY)
SCALE 4:1



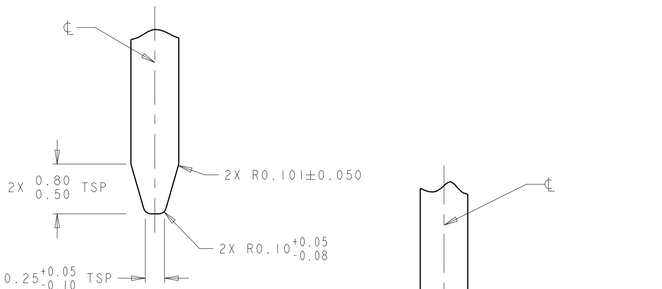
DETAIL DD
SCALE 8:1

THIS DRAWING IS A CONTROLLED DOCUMENT.	DWN DL DRUMMOND 14JUN2010	TE Connectivity	
DIMENSIONS: mm	CHK GENE MILLER 14JUN2010	NAME PLUG ASSEMBLY, SEALED, 54 POSITION, SDM, RIGHT-HAND LEVER (NO SHUNTS)	
TOLERANCES UNLESS OTHERWISE SPECIFIED: 0 PLC ±- 1 PLC ±0.3 2 PLC ±0.2 3 PLC ±- 4 PLC ±- ANGLES ±2°	APVD GENE MILLER 14JUN2010	PRODUCT SPEC -	
		APPLICATION SPEC -	SIZE A1 CAGE CODE 00779 DRAWING NO C-2098922 RESTRICTED TO
MATERIAL - -	FINISH - -	WEIGHT -	SCALE 3:1 SHEET 4 OF 5 REV B13
		CUSTOMER DRAWING	

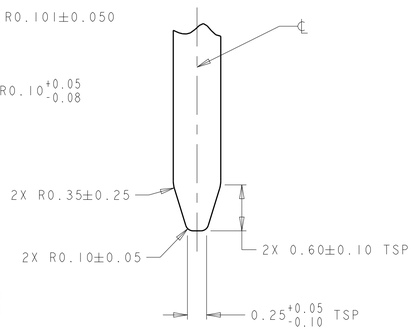
APPLICABLE HEADER INTERFACE SPECIFICATION

REVISIONS					
P	LTR	DESCRIPTION	DATE	DWN	APVD
	-	SEE SHEET 1	-	-	-

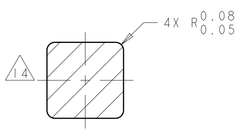
RECOMMENDED PIN TIP GEOMETRY
0.63 X 0.62



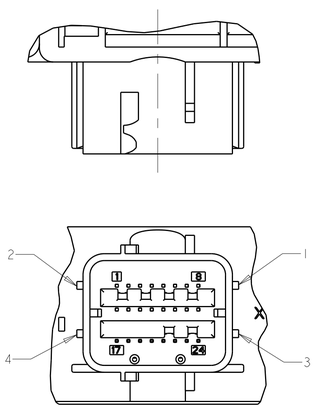
DETAIL K
ROTATED 180°
SCALE 25:1
TYPICAL



DETAIL H
ROTATED 90°
SCALE 25:1
TYPICAL



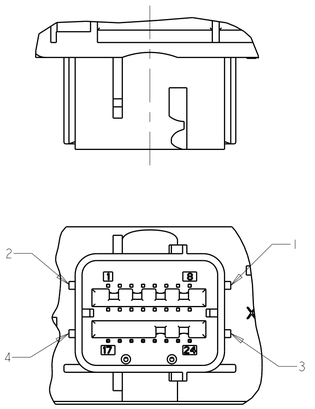
SECTION N-N
SCALE 40:1



SCALE 3:2

KEY DESIG	1	2	3	4
D	X			X
C		X	X	
B			X	X
A	X	X		

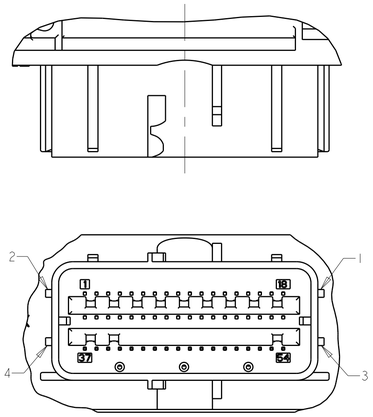
24 POCKET - RIGHT HAND LEVER



SCALE 3:2

KEY DESIG	1	2	3	4
D	X			X
C		X	X	
B			X	X
A	X	X		

24 POCKET - LEFT HAND LEVER



SCALE 3:2

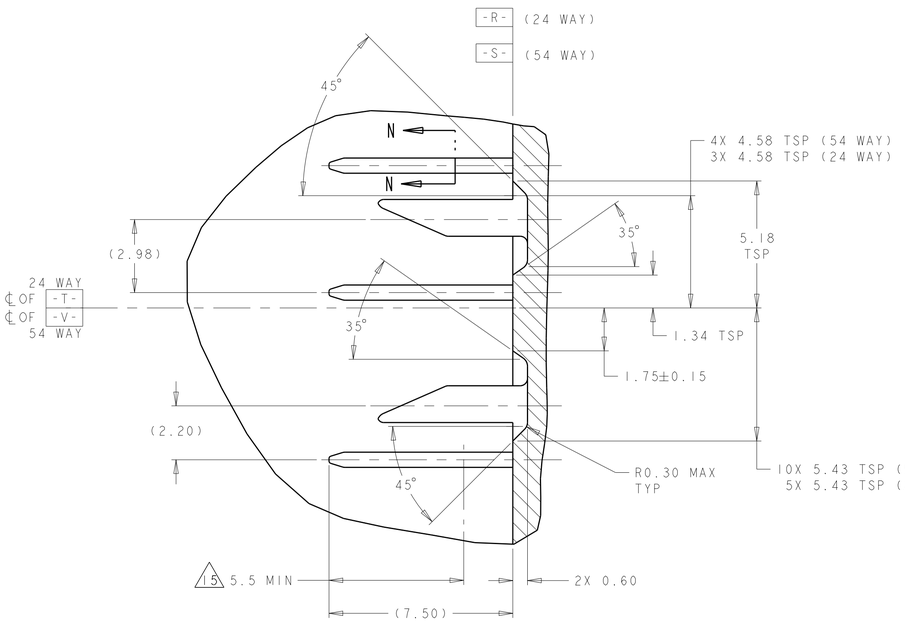
KEY DESIG	1	2	3	4
D	X			X
C		X	X	
B			X	X
A	X	X		

54 POCKET - RIGHT HAND LEVER

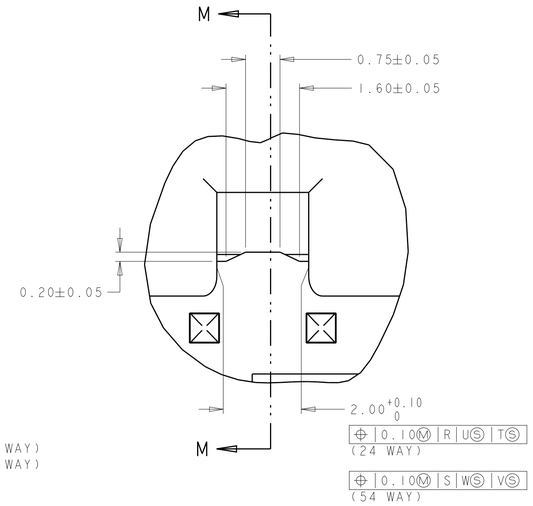
KEYING CONFIGURATION 9

NOTES: UNLESS OTHERWISE SPECIFIED

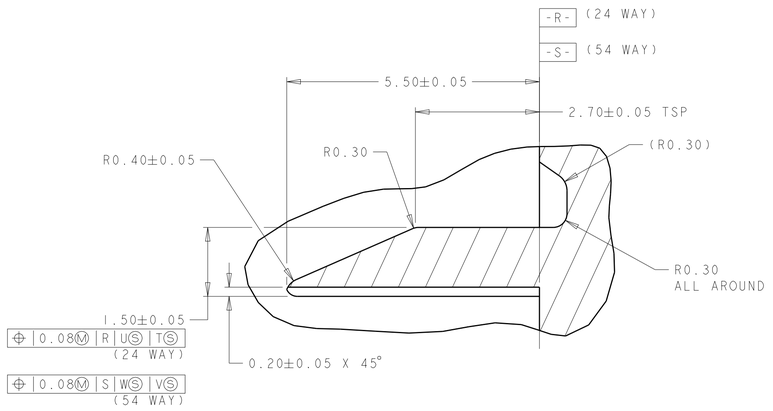
1. THIS AREA, ALL AROUND, IS A SEALING SURFACE. NO WITNESS LINES OR DAMAGE PERMITTED.
2. SAME GEAR AND PRE-LOCK DIMENSIONS APPLY IN RIGHT HAND VERSUS LEFT HAND ORIENTATIONS. THIS GEOMETRY IS SIMPLY A MIRROR IMAGE.
3. VENT HOLES SIZE AND LOCATION OPTIONAL.
4. GENERAL TOLERANCE (UNLESS OTHERWISE SPECIFIED)
   ± 0.2 - ALL ONE PLACE DIMENSIONS
   ± 0.10 - ALL TWO PLACE DIMENSIONS
   ± 1° - ALL ANGULAR PLACE DIMENSIONS
5. DRAFT ANGLE PERMISSIBLE WITHIN PRINT TOLERANCES.
6. HOUSING AND PIN PLATING MATERIALS SELECTION BASED ON END APPLICATION AND SOLDERING PROCESS. REFERENCE HOUSING MATERIAL POLYESTER (PBT)-30% GLASS AND PHOSPHOR BRONZE, C511 PIN TESTED TO: USCAR2, REV4, CLASS 1, 85°C MAX AMBIENT AND GM W3191, CLASS 1.
7. ALL UNMARKED RADII TO BE 0.5 MAX UNLESS OTHERWISE SPECIFIED.
8. TERMINAL POSITION IDENTIFICATION.
9. MATES WITH TE CONNECTIVITY (TE) PLUG ASSEMBLIES:
   24 WAY - LEFT HAND LEVER TE P/N x-2098923-x
   24 WAY - RIGHT HAND LEVER TE P/N x-2098924-x
   54 WAY - RIGHT HAND LEVER TE P/N x-2098922-x
10. THIS AREA TO REMAIN CLEAR FOR THE HARNESS ASSEMBLY.
11. PART TO BE FREE OF CONTAMINATION THAT MAY AFFECT FUNCTION OF PART.
12. DIMENSION TO BE MEASURED 2.5 - 6.5 FROM TOP OF CONNECTOR SHROUD.
13. ALL KEYS SHOWN, SEE TABLE "KEYING CONFIGURATION" REQUIREMENT AND KEY OPTIONS.
14. MATING END OF PIN TO BE FREE OF SHARP EDGES AND BURRS.
15. FEMALE TERMINAL MATING AREA FOR SILVER PLATED APPLICATIONS, REF USCAR2, REV4, CLASS 1, 85°C MAX AMBIENT. 2 TO 4µm THICK SILVER OVER 2.0µm MIN THICK NICKEL UNDERPLATE ALL OVER.



SECTION P-P
ROTATED 180°
SCALE 8:1



DETAIL J
24 WAY 6 PLACES
54 WAY 12 PLACES
SCALE 15:1



SECTION M-M
TYPICAL

THIS DRAWING IS A CONTROLLED DOCUMENT.	DWN DL DRUMMOND 14JUN2010	TE Connectivity	
DIMENSIONS: mm	CHK GENE MILLER 14JUN2010	NAME PLUG ASSEMBLY, SEALED, 54 POSITION, SDM, RIGHT-HAND LEVER (NO SHUNTS)	
TOLERANCES UNLESS OTHERWISE SPECIFIED: 0 PLC ±- 1 PLC ±0.3 2 PLC ±0.2 3 PLC ±- 4 PLC ±- ANGLES ±2°	APVD GENE MILLER 14JUN2010	SIZE A1	CAGE CODE 00779
	PRODUCT SPEC -	DRAWING NO C-2098922	RESTRICTED TO
	APPLICATION SPEC -		
MATERIAL - -	WEIGHT -	SCALE 3:1	SHEET 5 OF 5
FINISH - -	CUSTOMER DRAWING		REV B13