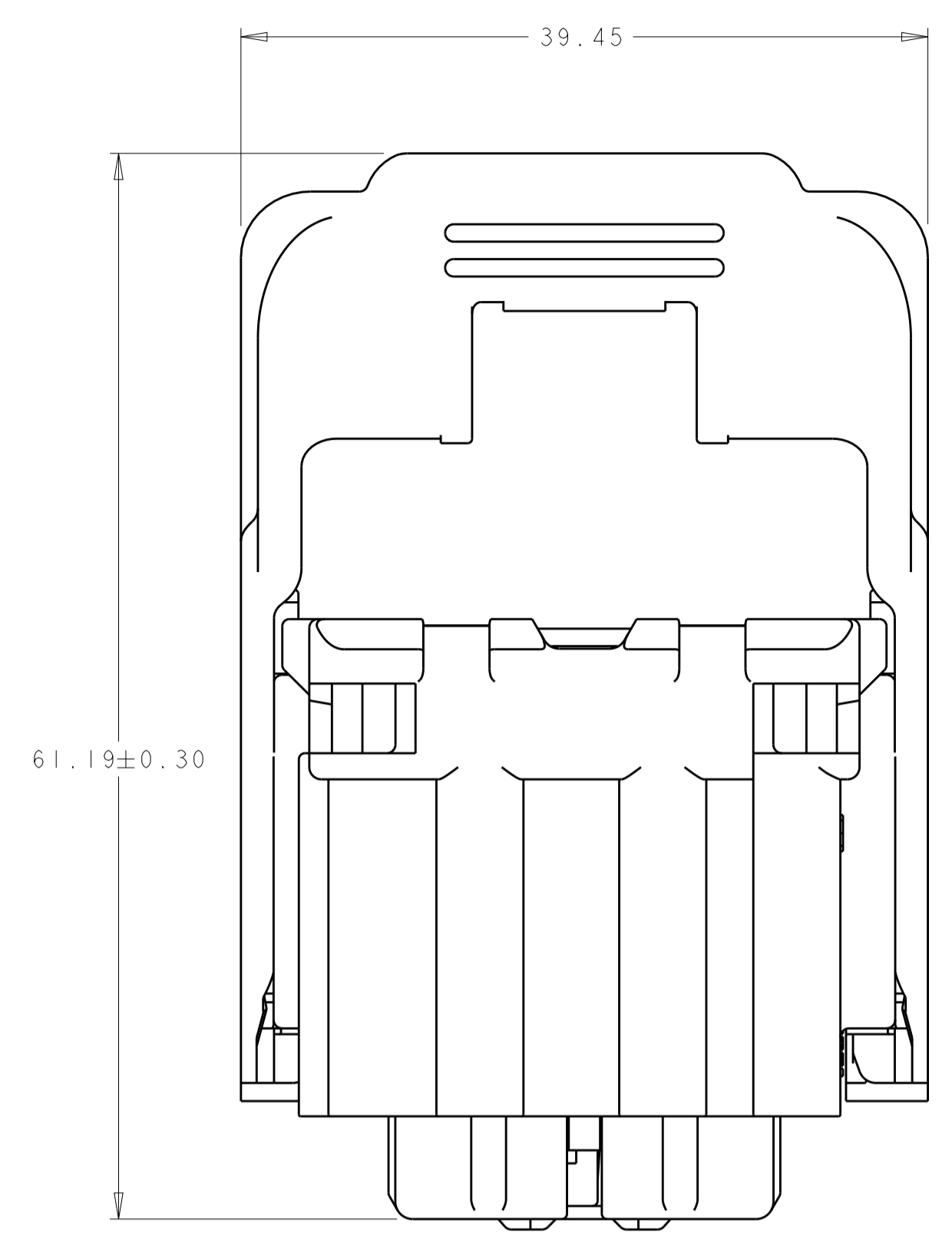
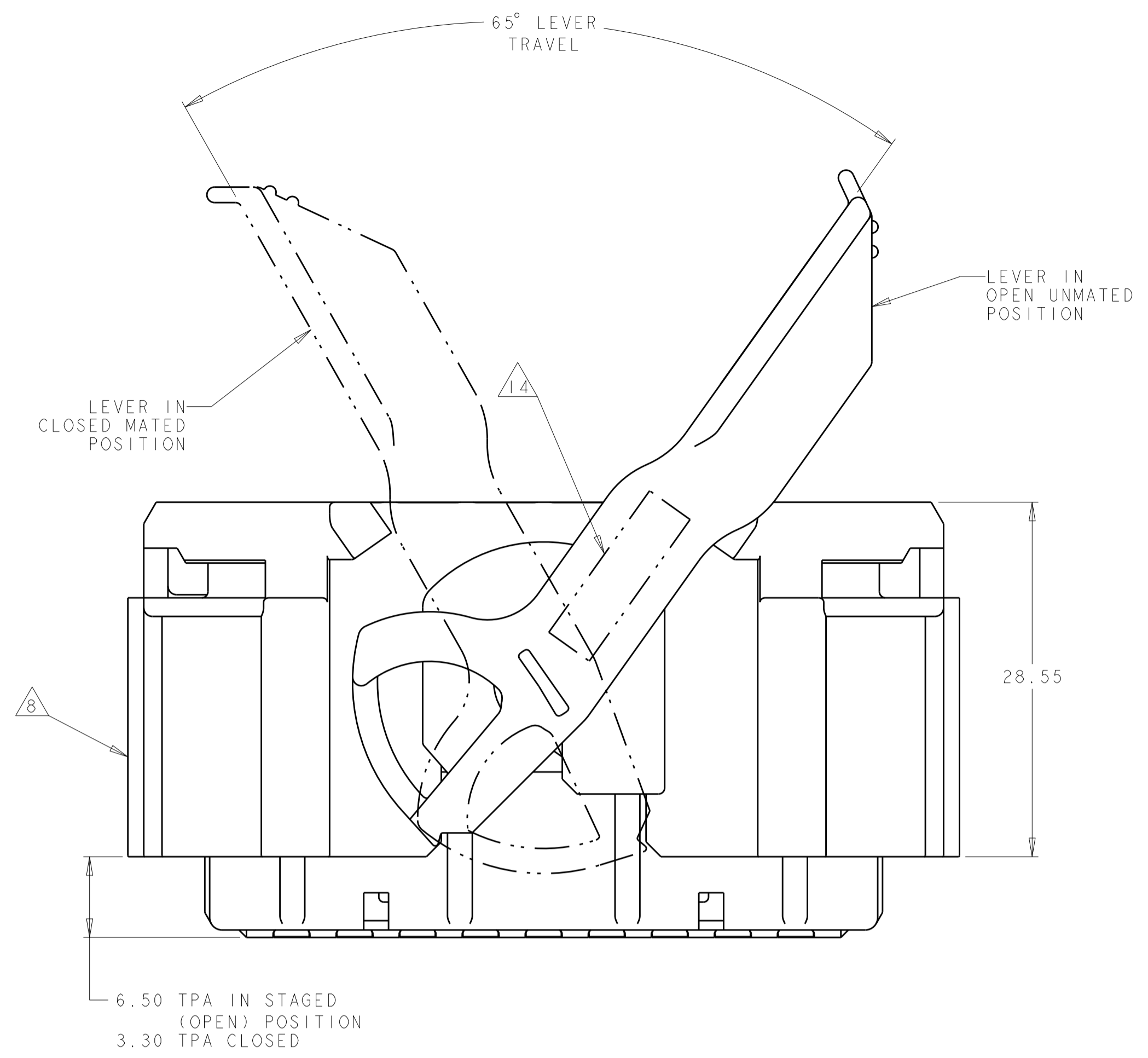
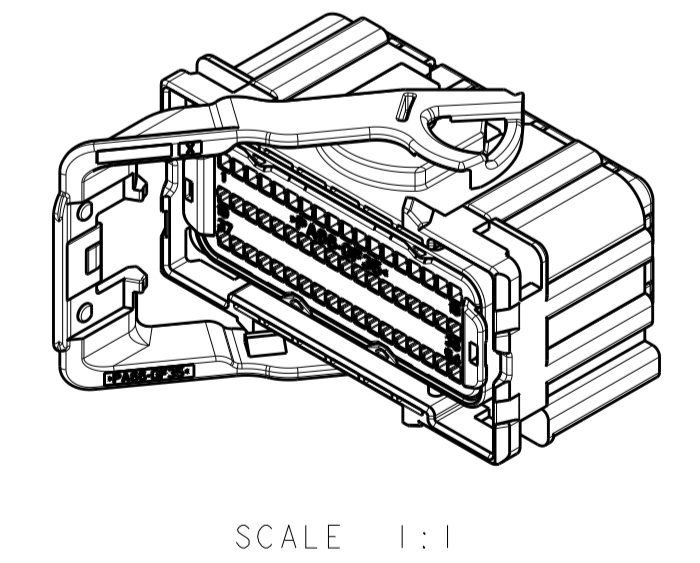
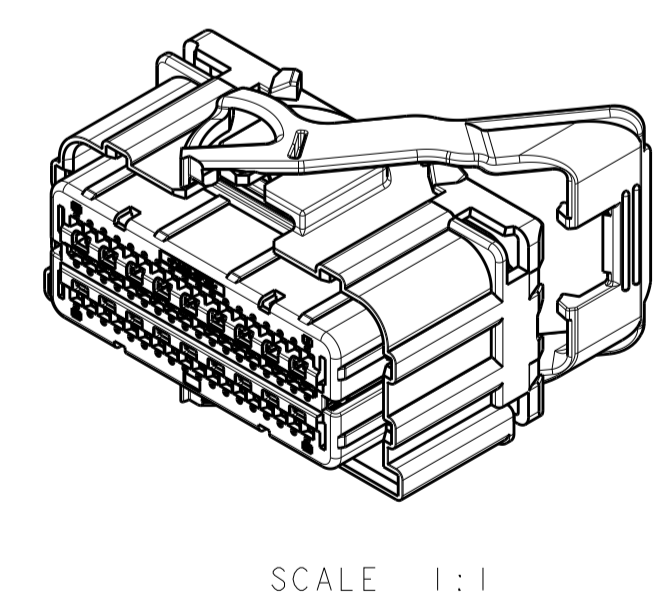
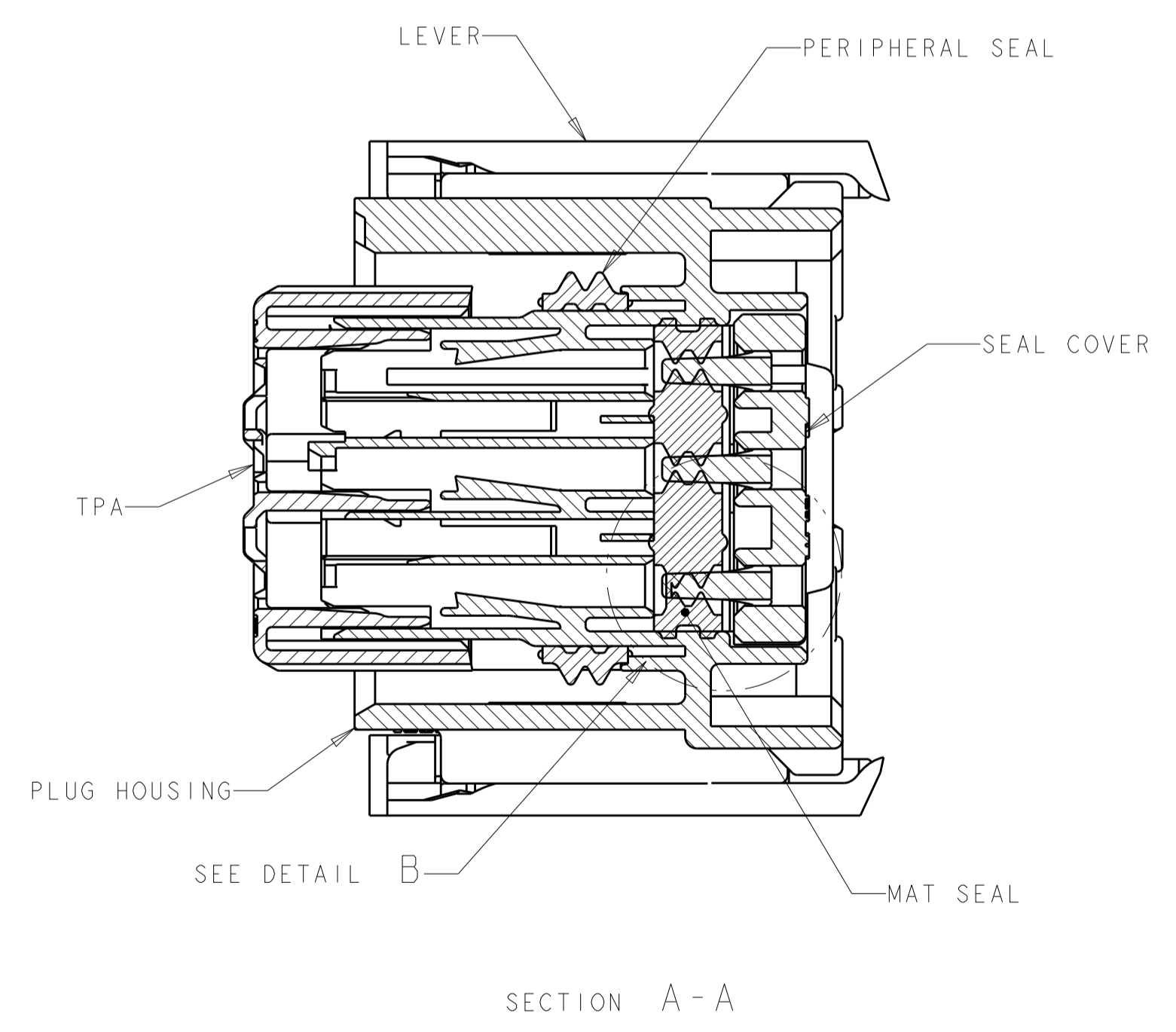
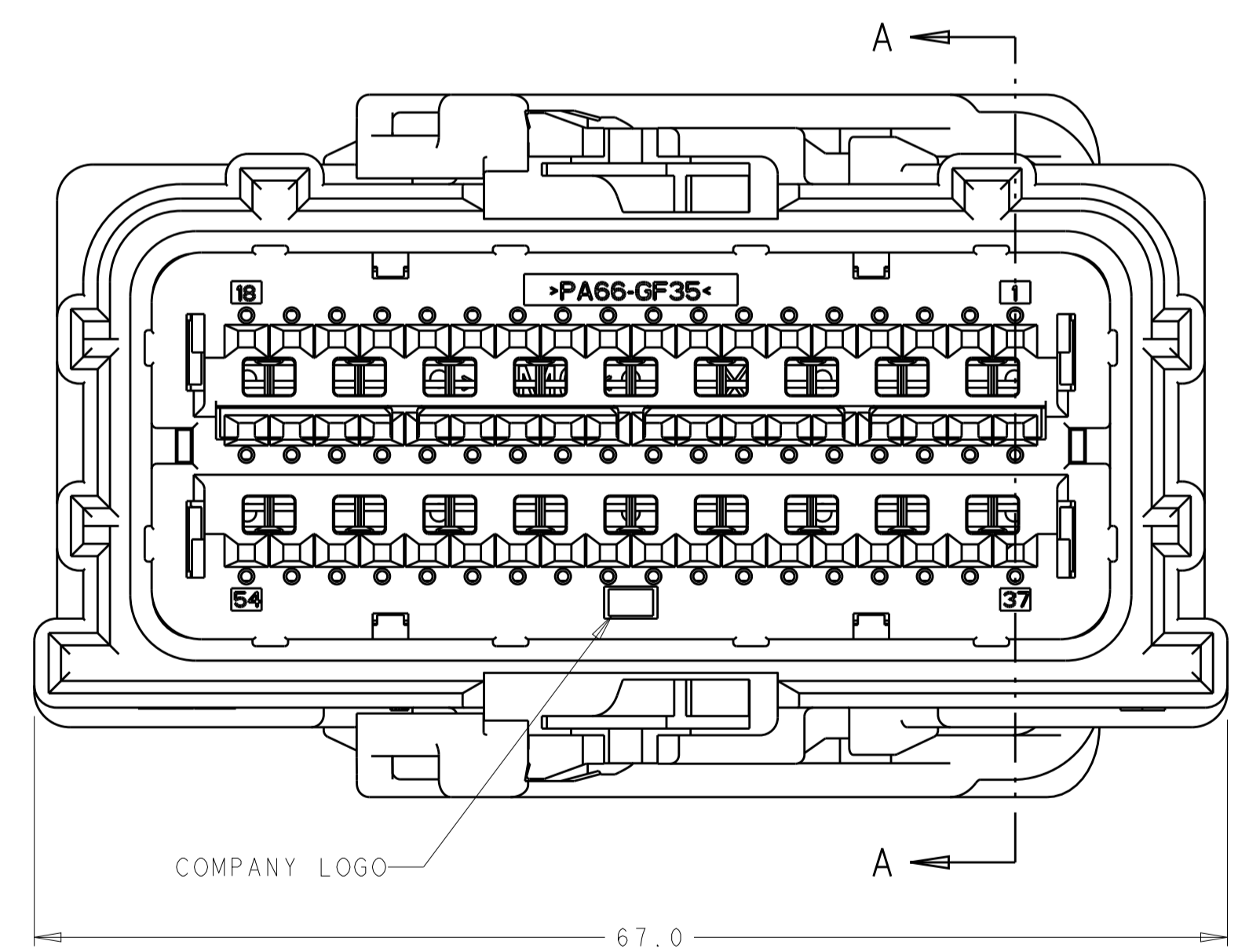


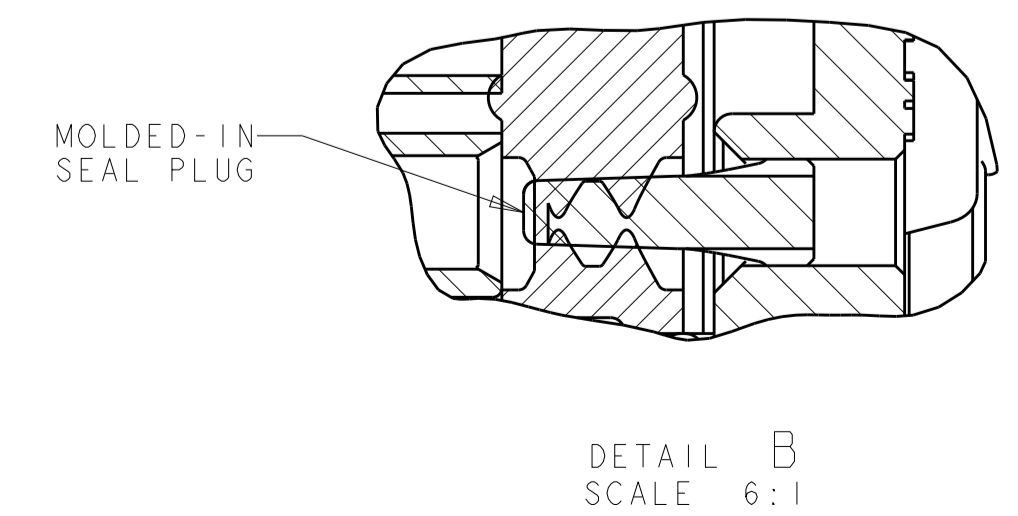
REVISIONS					
P.	LTN	DESCRIPTION	DATE	DWN	APVD
B8		REVISED PER ECO-17-015950	30OCT2017	KP	GM
B9		REVISED PER ECO-17-016761	15NOV2017	KP	GM
B10		REVISED PER ECO-18-008115	24MAY2018	JMS	GM
B11		REVISED PER ECO-18-010459	02JUL2018	JMS	GM



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 - 0.5mm²
 WIRE INSULATION RANGE: 1.5 to 1.7mm (OUTER DIAMETER)
 ALSO, WIRE SIZE: 0.75mm² IN 2 CIRCUITS MAXIMUM WITH WIRE INSULATION OUTER DIAMETER 1.77 to 1.79mm. USE TE TERMINAL P/N 2138699-2, GM P/N tbd
 ALSO, GM APPROVED, GMWI5626, ISO WIRE, 0.35mm² 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



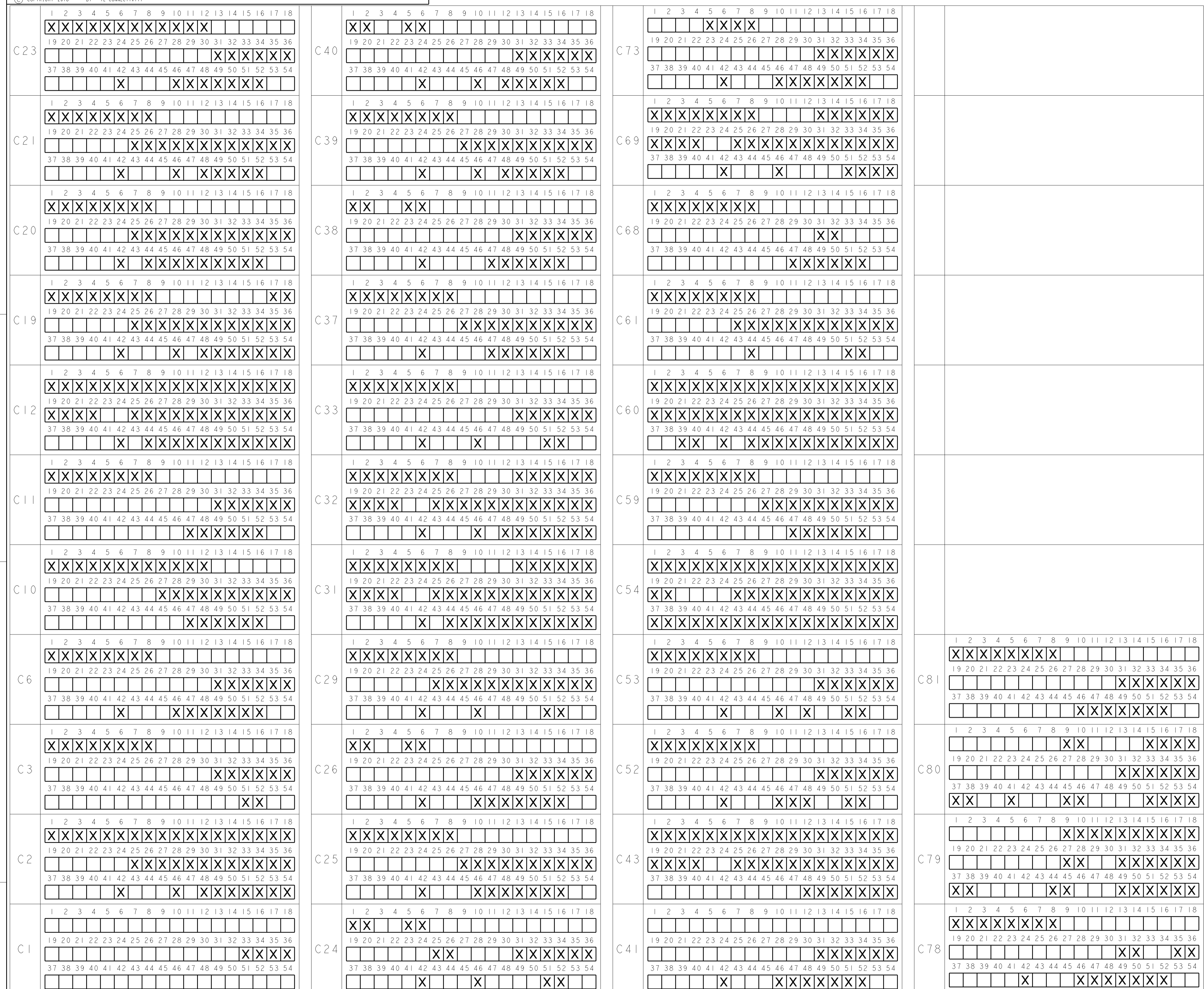
SEE SHEET 3 FOR KEYING CONFIGURATIONS,
 AND SHEET 3 & 4 FOR CIRCUIT CONFIGURATIONS



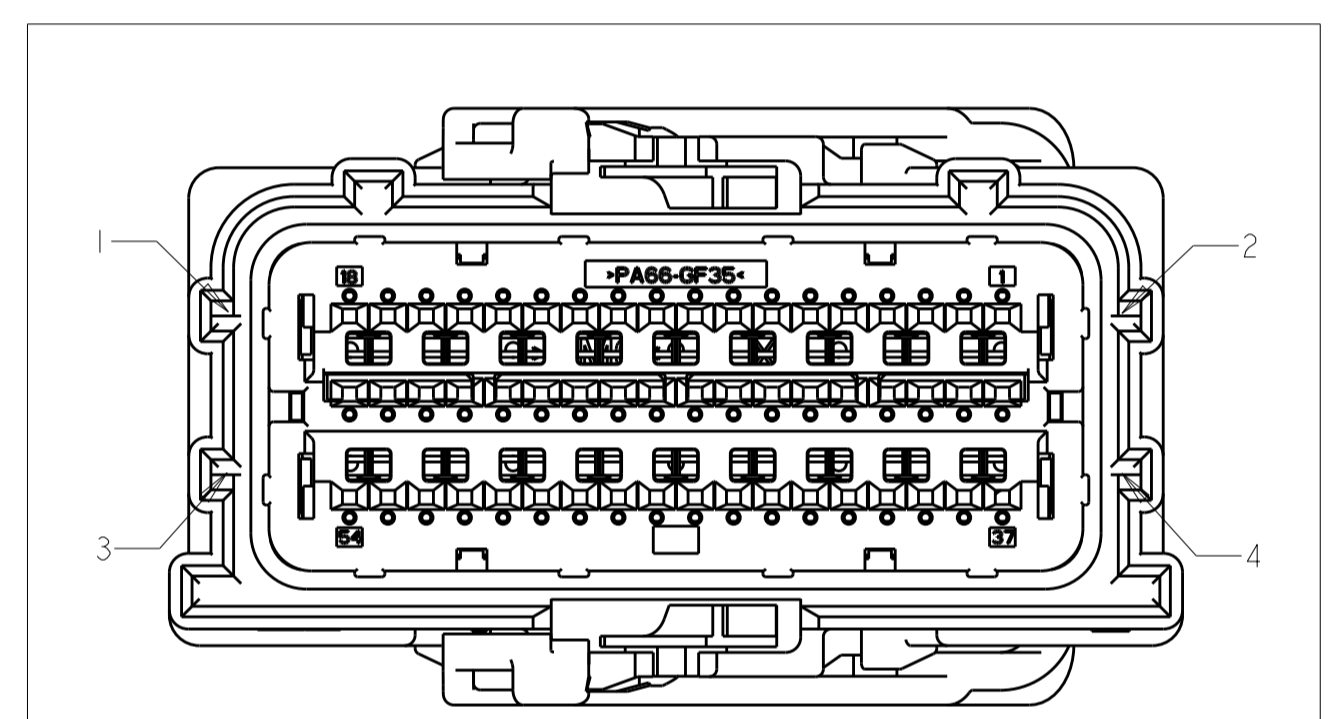
SEE SHEET 2
 PART NUMBER

THIS DRAWING IS A CONTROLLED DOCUMENT.		DWN DL DRUMMOND 14JUN2010	TE Connectivity	
DIMENSIONS:		CHK GENE MILLER 14JUN2010		
TOLERANCES UNLESS OTHERWISE SPECIFIED:		APVD GENE MILLER 14JUN2010		
mm	0 PLC ±0.3	PRODUCT SPEC	NAME PLUG ASSEMBLY, SEALED, 54 POSITION, SDM, RIGHT-HAND LEVER (NO SHUNTS)	
	1 PLC ±0.2	APPLICATION SPEC	SIZE	CAGE CODE DRAWING NO RESTRICTED TO
	2 PLC ±0.2	WEIGHT	A100779	C=2098922
	3 PLC ±0.2	CUSTOMER DRAWING	SCALE 3:1	SHEET 1 OF 5
	4 PLC ±0.2			REV B11
	ANGLES ±0.5°			
	FINISH			

REVISIONS				
P.	LTN	DESCRIPTION	DATE	APP'D
-	-	SEE SHEET 1	-	-



CIRCUIT CONFIGURATION
 X INDICATES UNAVAILABLE (BLOCKED) CIRCUIT \triangle



KEY DESIGN	KEYWAY LOCATION			
	1	2	3	4
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

KEYING CONFIGURATION

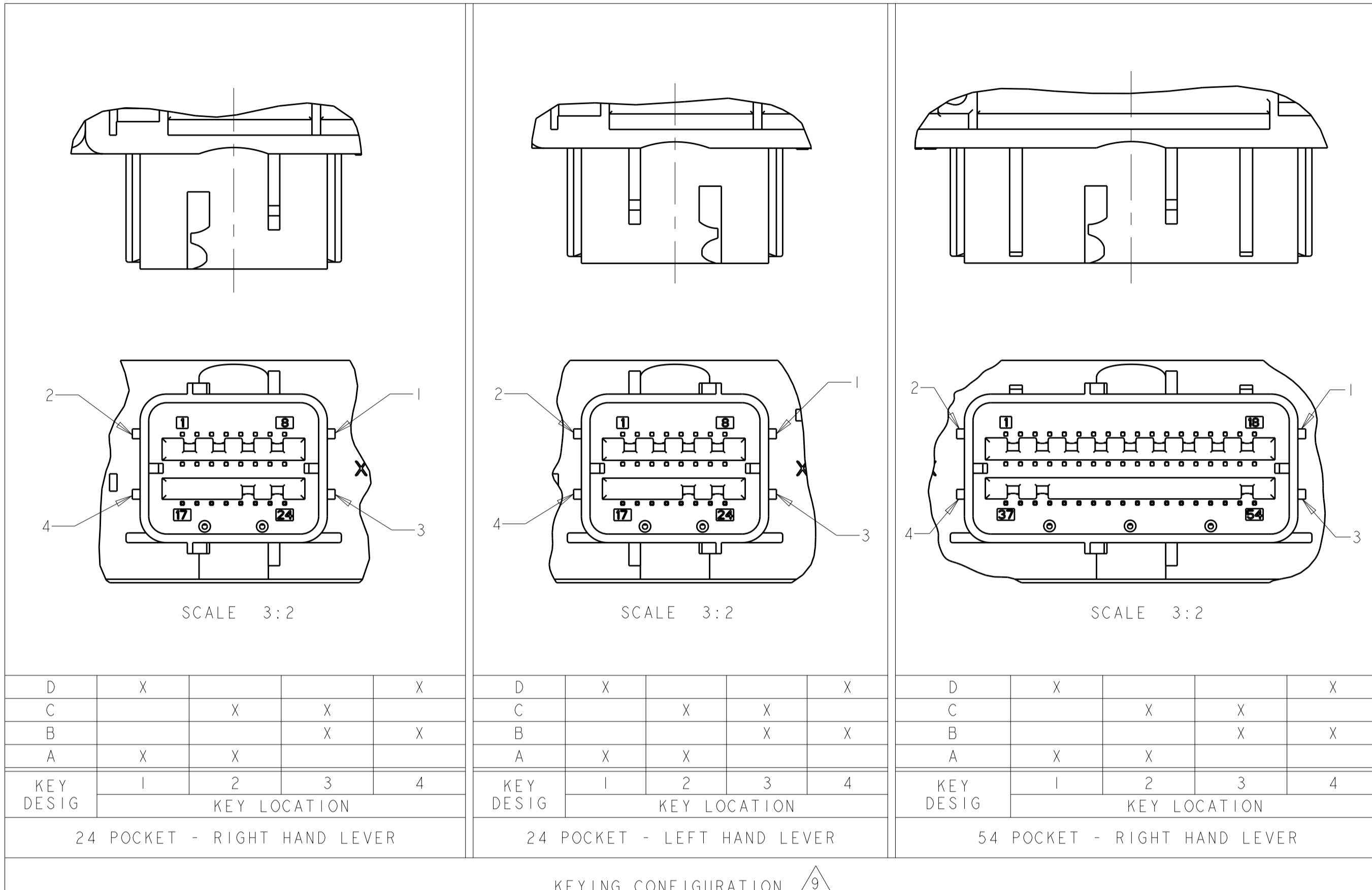
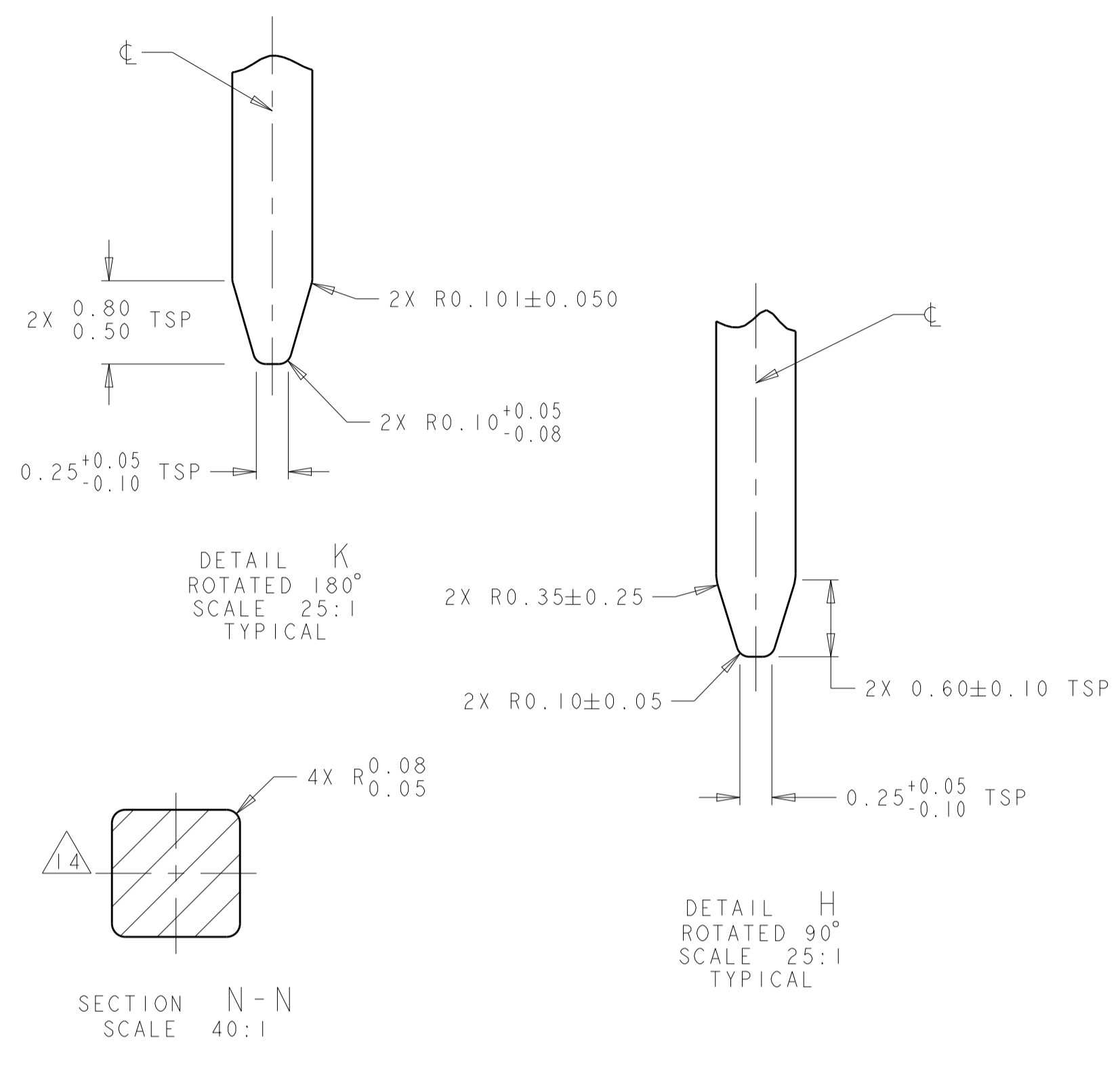
DIMENSIONS:		TOLERANCES UNLESS OTHERWISE SPECIFIED:	
mm	0 PLC ±0.3	1 PLC ±0.2	2-5 PLC ±0.2
	6-8 PLC ±0.2	9-11 PLC ±0.2	12-14 PLC ±0.2
	15-17 PLC ±0.2	18-20 PLC ±0.2	21-23 PLC ±0.2
	24-26 PLC ±0.2	27-29 PLC ±0.2	30-32 PLC ±0.2
	33-35 PLC ±0.2	36-38 PLC ±0.2	39-41 PLC ±0.2
	42-44 PLC ±0.2	45-47 PLC ±0.2	48-50 PLC ±0.2
	51-53 PLC ±0.2	54 PLC ±0.2	
	ANGLES	FINISH	
MATERIAL		WEIGHT	
CUSTOMER DRAWING		SCALE	1:1

THIS DRAWING IS A CONTROLLED DOCUMENT.		OWN: DL DRUMMOND 14JUN2010	
DIMENSIONS:		CHK: GENE MILLER 14JUN2010	
TOLERANCES UNLESS OTHERWISE SPECIFIED:		APP'D: GENE MILLER 14JUN2010	NAME: PLUG ASSEMBLY, SEALED, 54 POSITION, SDM, RIGHT-HAND LEVER (NO SHUNTS)
MATERIAL:		PRODUCT SPEC:	SIZE: A100779
FINISH:		APPLICATION SPEC:	CAGE CODE: 2098922
WEIGHT:		RESTRICTED TO:	SHEET 3 OF 5
CUSTOMER DRAWING		SCALE: 1:1	REV: B11

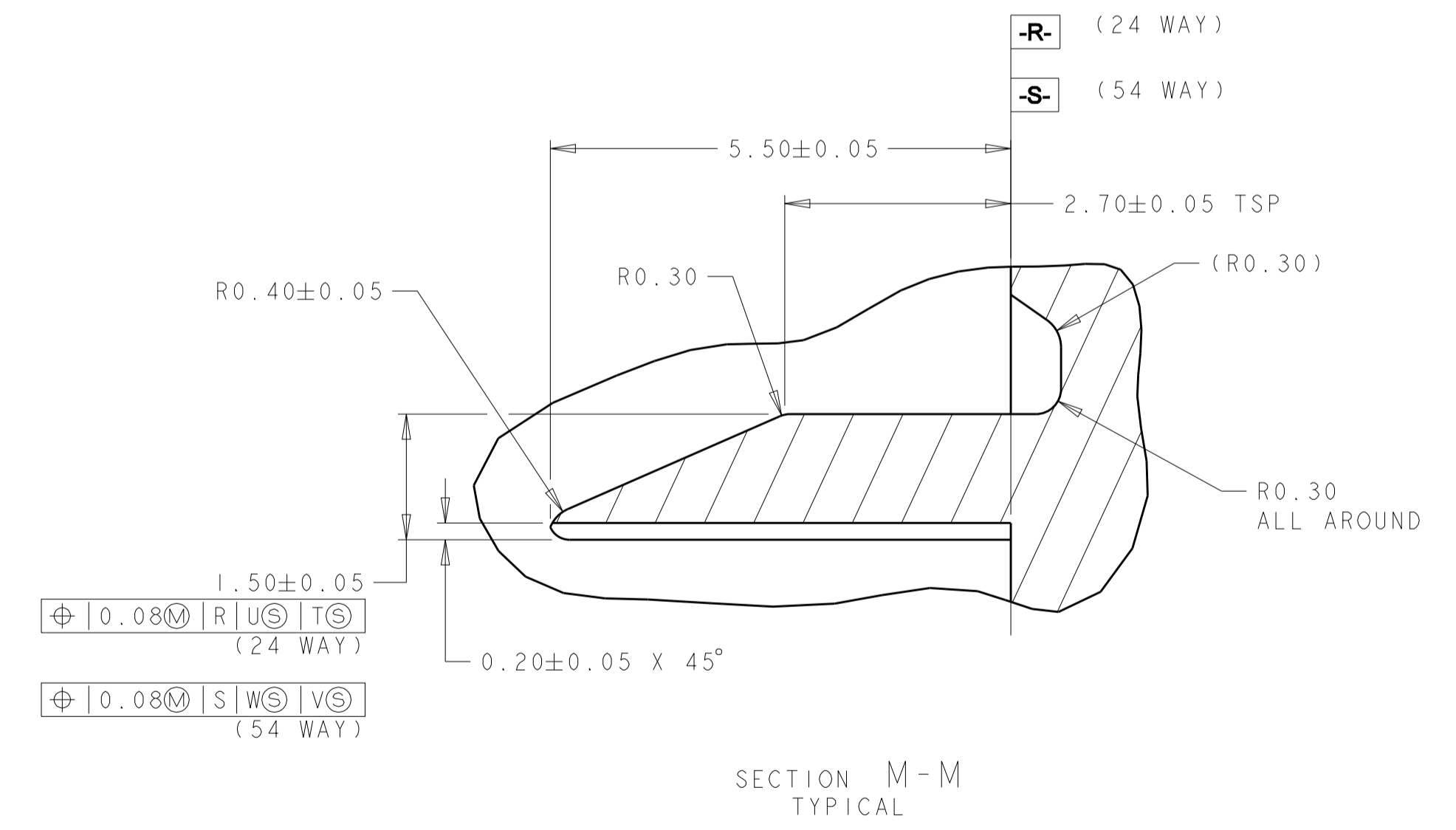
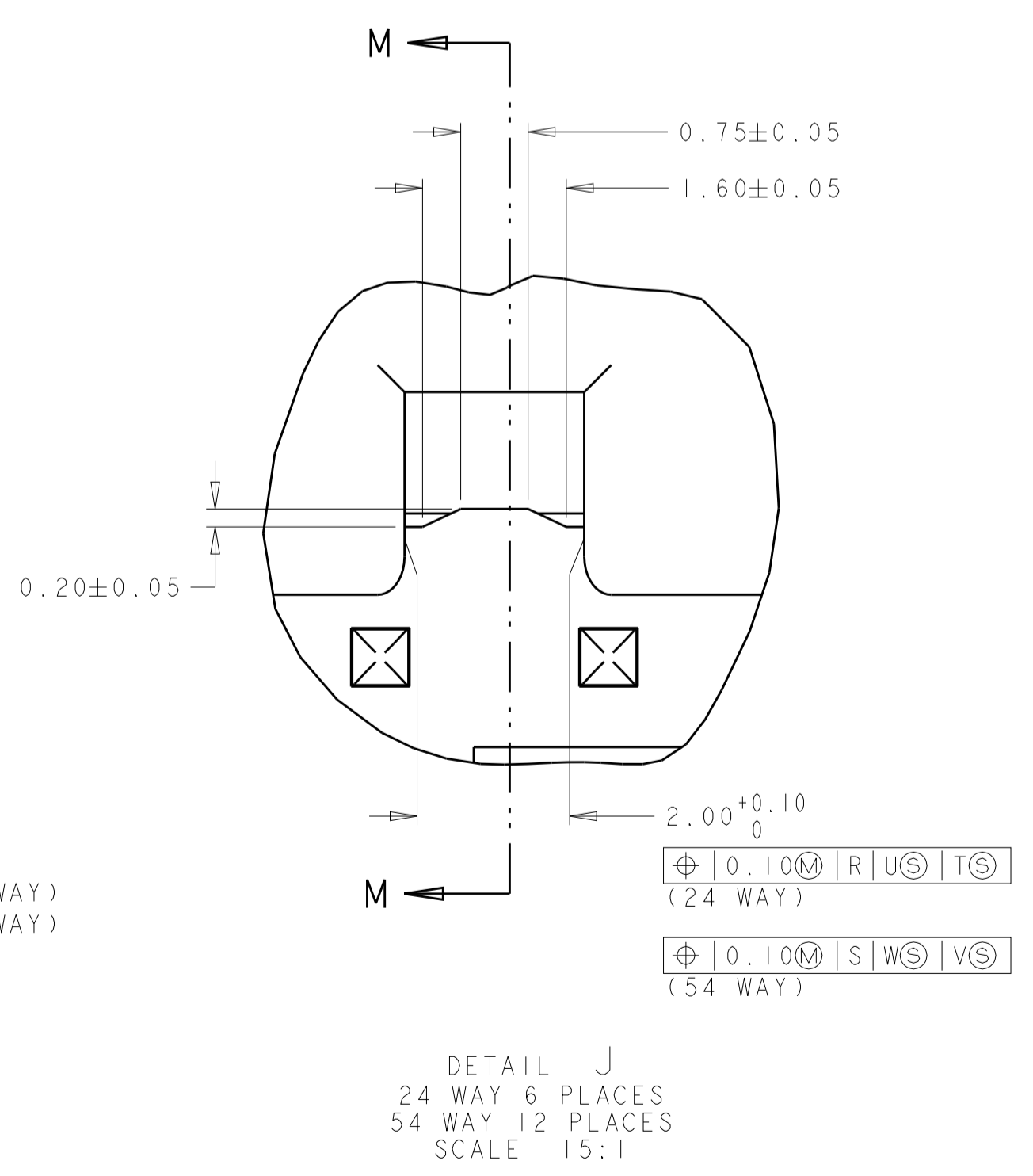
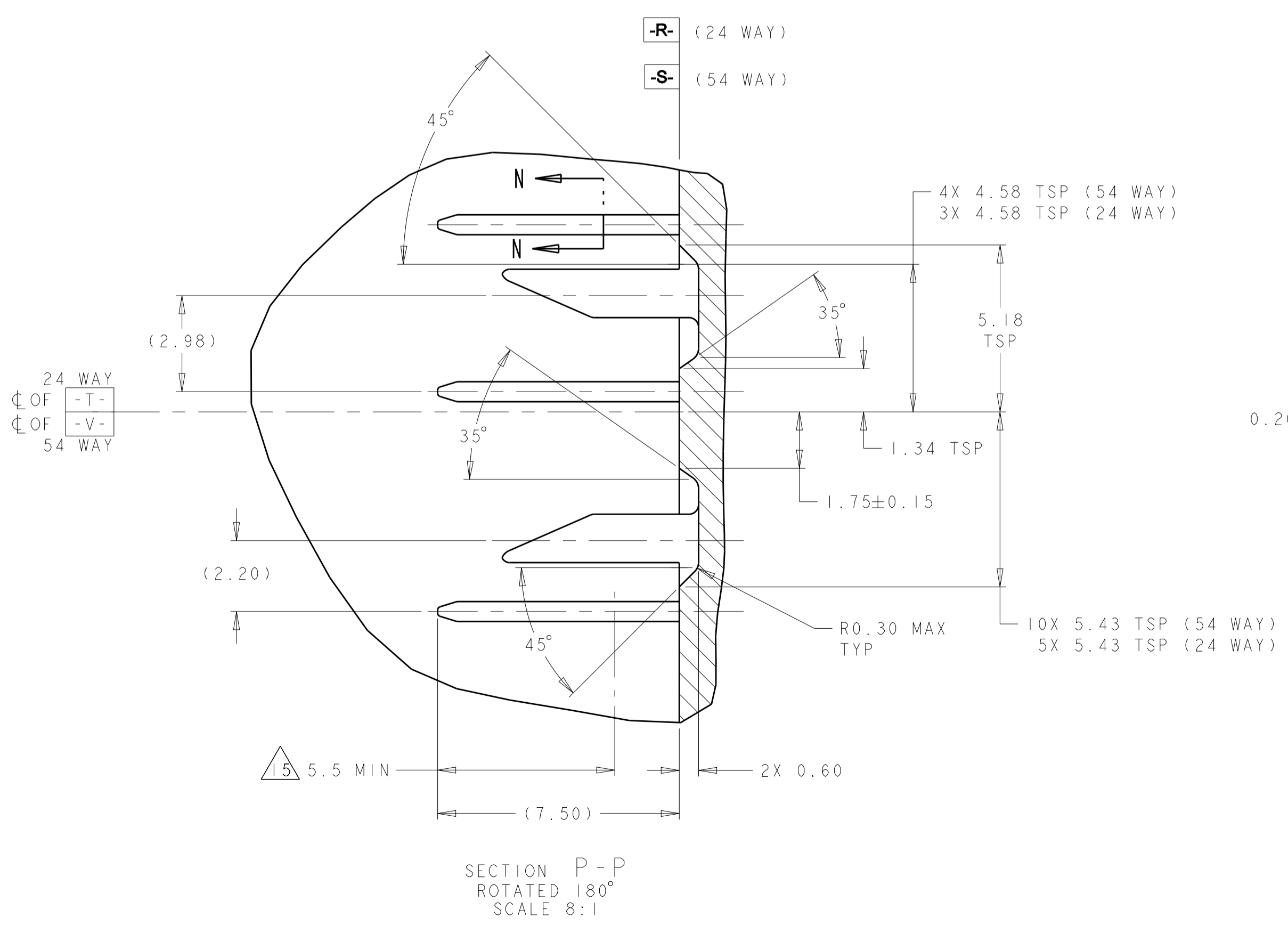
APPLICABLE HEADER INTERFACE SPECIFICATION

REVISIONS				
P.	LTN	DESCRIPTION	DATE	OWN APVD
-	-	SEE SHEET 1	-	-

RECOMMENDED PIN TIP GEOMETRY 0.63 X 0.62



- 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.



THIS DRAWING IS A CONTROLLED DOCUMENT.

DIMENSIONS:	TOLERANCES UNLESS OTHERWISE SPECIFIED:	OWN DL DRUMMOND 14JUN2010	CHK GENE MILLER 14JUN2010	NAME
mm	0 PLC ±0.3	APVD GENE MILLER 14JUN2010	PRODUCT SPEC	PLUG ASSEMBLY, SEALED, 54 POSITION, SDM, RIGHT-HAND LEVER (NO SHUNTS)
	1 PLC ±0.2	APPLICATION SPEC	SIZE	A100779C=2098922
	2 PLC ±0.2	WEIGHT	CAGE CODE	DRAWING NO
	3 PLC ±0.2	CUSTOMER DRAWING	SCALE	3:1
	4 PLC ±0.2		SHEET	5 OF 5
	ANGLES ±0.2°		REV	B11

TE Connectivity