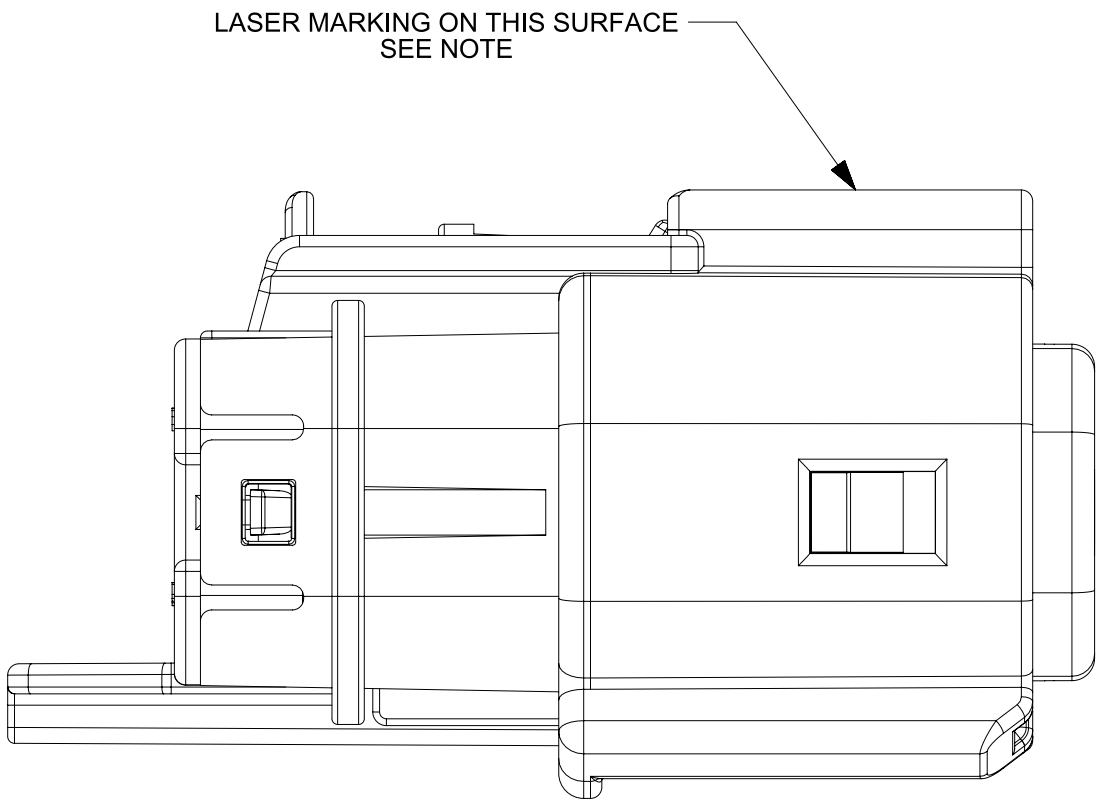


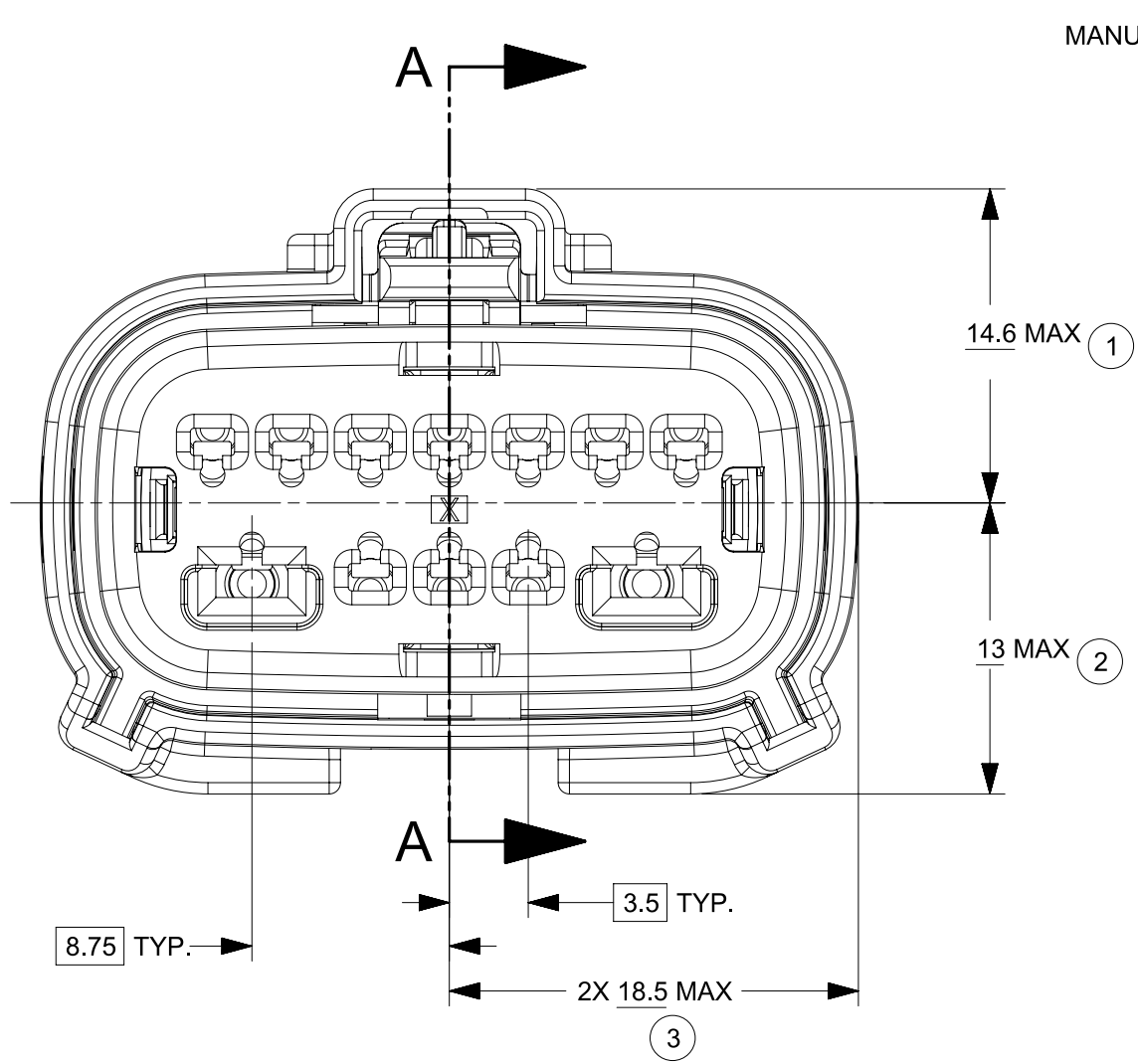
[illegible]

[illegible]

SHEET DESCRIPTION
RECEPTACLE CONNECTOR ASSEMBLY

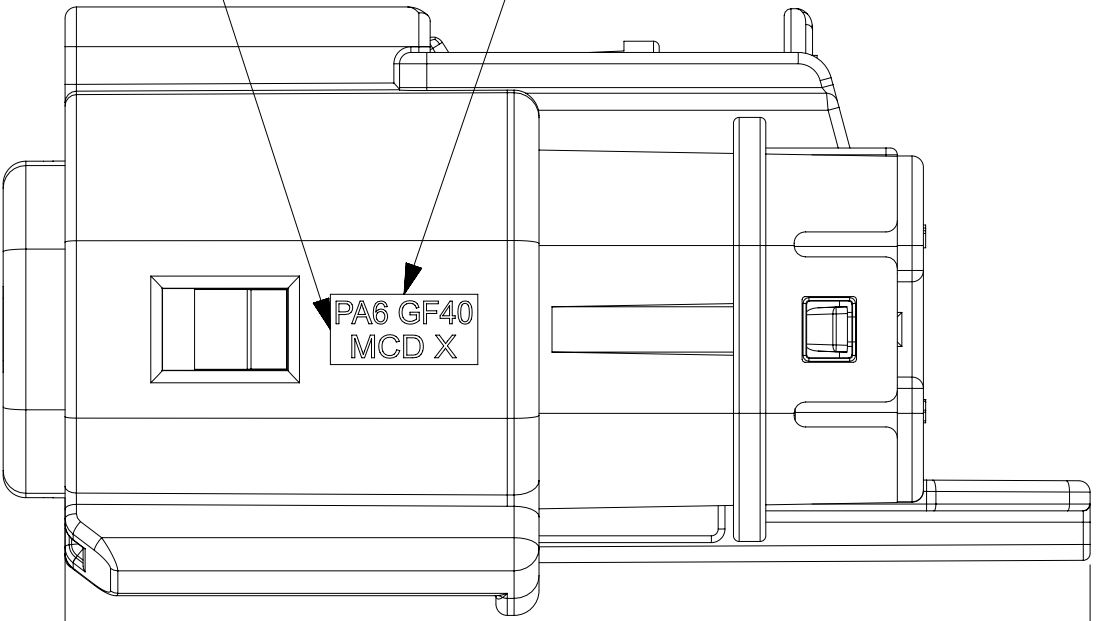


LASER MARKING ON THIS SURFACE
SEE NOTE



MOLD CAVITY I.D. &
MANUFACTURING LOCATION CODE
THIS LOCATION

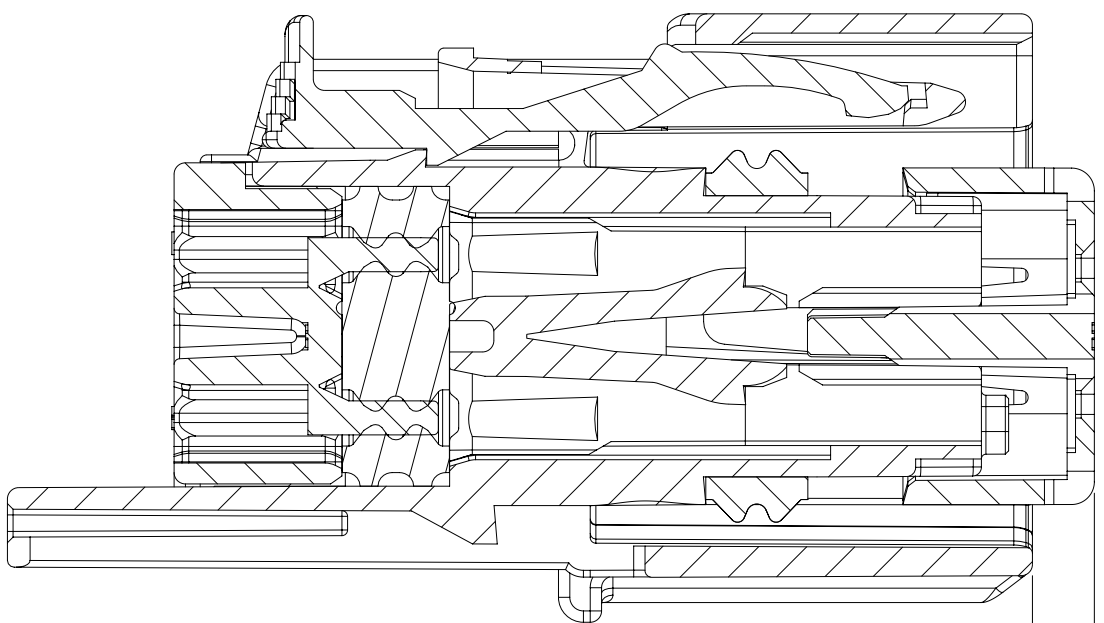
RECYCLE CODE
THIS LOCATION



PA6 GF40
MCD X

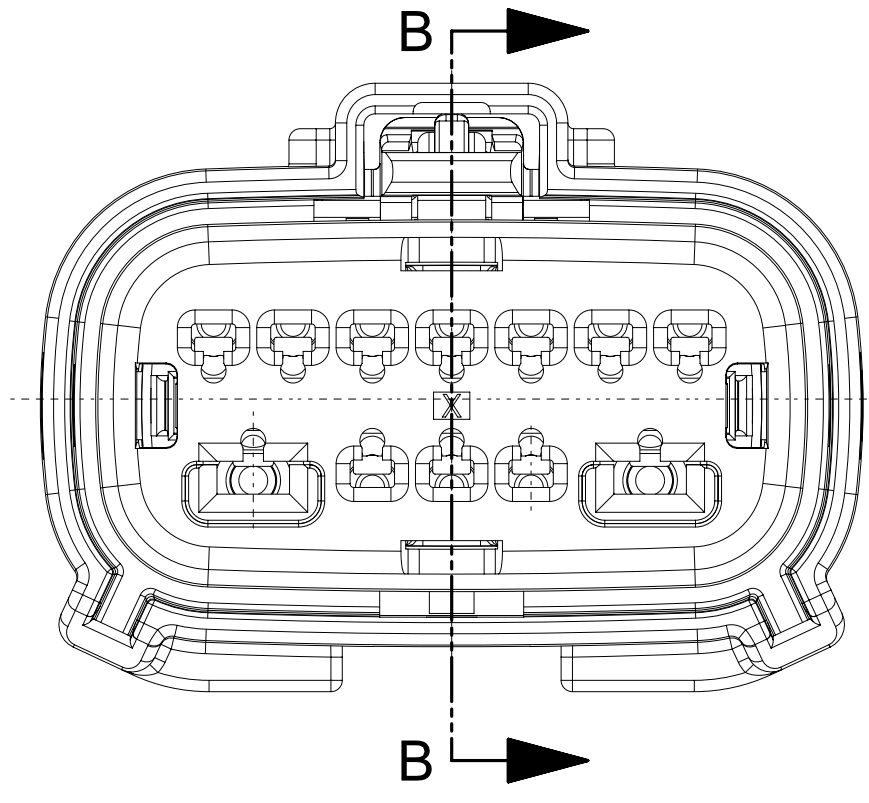
45.2 ±0.3

12W HYBRID W/ EXTENDED CLIPSLOT



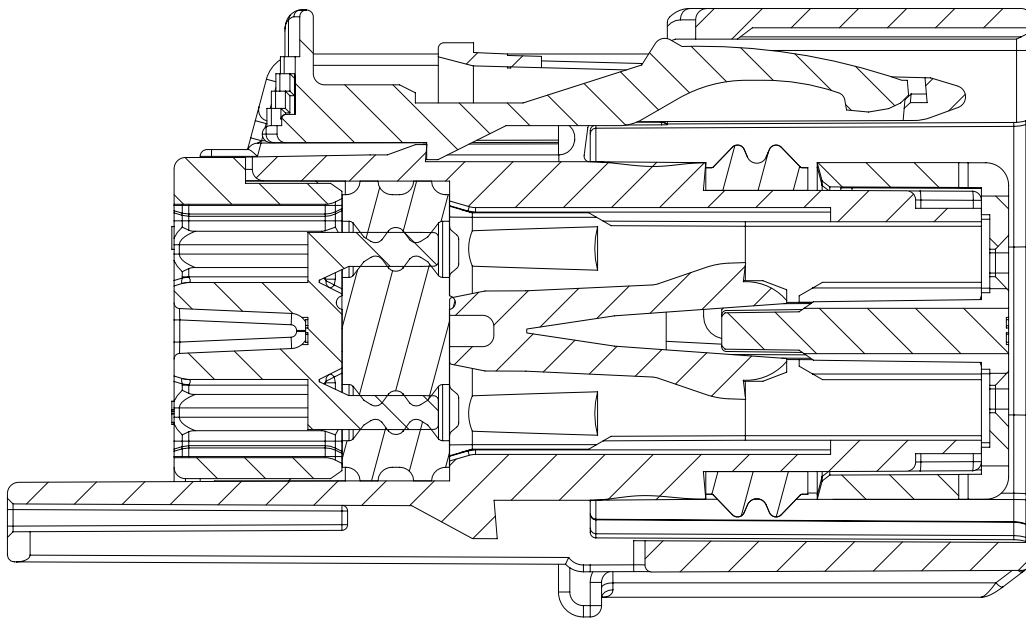
PRIMARY LOCK REINFORCEMENT (PLR) SHOWN
IN PRE-STAGED POSITION

SECTION A-A



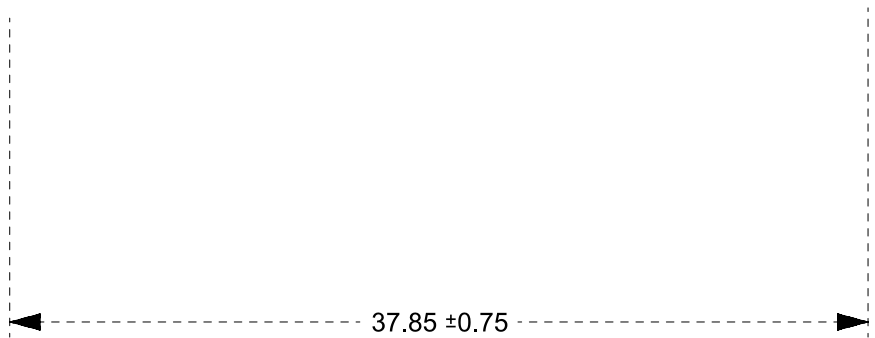
B

B



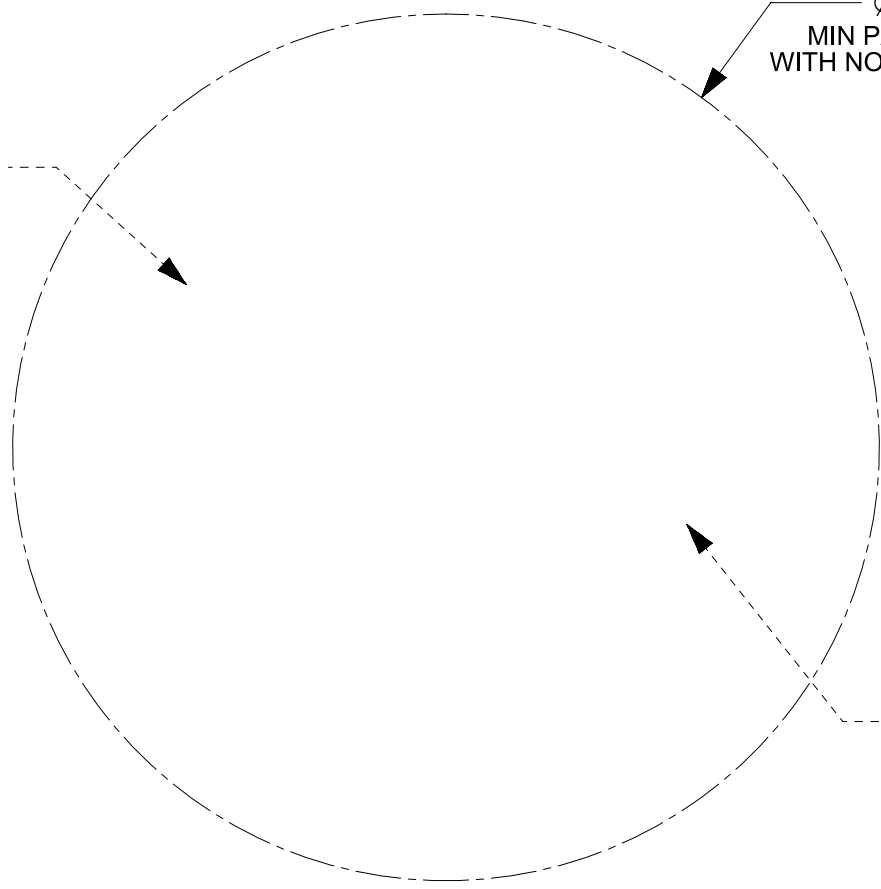
PRIMARY LOCK REINFORCEMENT (PLR) SHOWN
IN FINAL-STAGED POSITION

SECTION B-B



37.85 ±0.75

12W HYBRID NON-CLIPSLOT



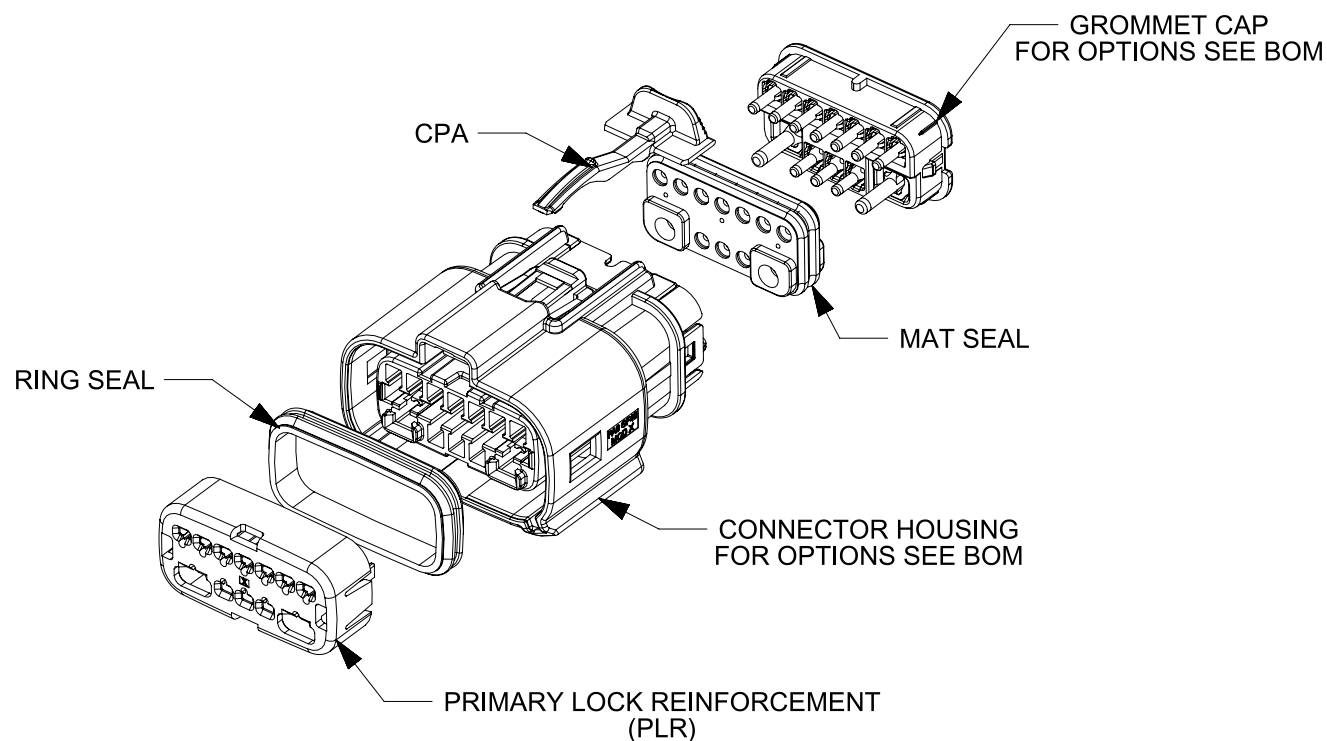
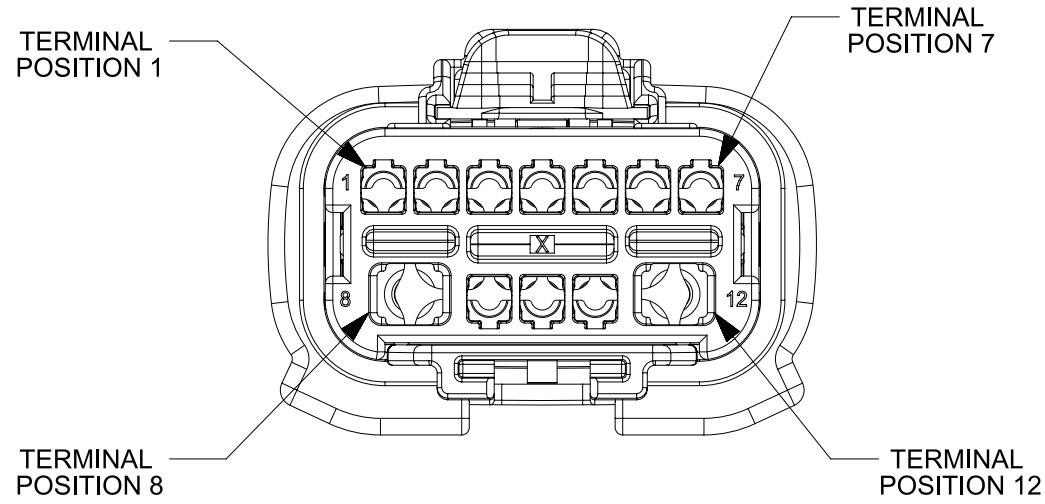
Ø38.9
MIN PASS-THRU
WITH NO CLEARANCE

TERMINAL POSITION 1

LAST TERMINAL POSITION

THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX ELECTRONIC TECHNOLOGIES, LLC AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION																		
FUNCTIONAL SYMBOLS		DIMENSION UNITS		SCALE		CURRENT REV DESC: SEE REVISION TABLE			molex MX150 HYBRID MAT SEAL RCPT CONN ASM									
A = 0 E = 0 P = 0		mm		4:1														
DIVISIONAL SYMBOLS		GENERAL TOLERANCES (UNLESS SPECIFIED)																
		ANGULAR TOL ± 0.5°																
		4 PLACES		±														
		3 PLACES		±														
		2 PLACES		±														
		1 PLACES		±														
0 PLACES		±		STATUS: Production DRWN: Srikanth CV CHK'D: Chaitra D APPR: Gurunandan GA			2026-02-03 2026-02-11 2026-02-11		PRODUCT CUSTOMER DRAWING									
DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		THIRD ANGLE PROJECTION							DRAWING		SERIES		MATERIAL NUMBER		CUSTOMER		SHEET NUMBER	
		D-SIZE							160111		SEE TABLE				4 OF 7			

SHEET DESCRIPTION	
12W HYBRID CONNECTOR BOM	



ABBREVIATION	DESCRIPTION	COLOR	MATERIAL
A-BLK-ECLIP	HOUSING KEYING OPTION A W/ EXTENDED CLIP	BLACK	PA6 GF40
B-LG-ECLIP	HOUSING KEYING OPTION B W/ EXTENDED CLIP	LIGHT GRAY	PA6 GF40
C-DG-ECLIP	HOUSING KEYING OPTION C W/ EXTENDED CLIP	DARK GRAY	PA6 GF40
D-SG-ECLIP	HOUSING KEYING OPTION D W/ EXTENDED CLIP	STONE GRAY	PA6 GF40
A-Y-ECLIP	HOUSING KEYING OPTION A W/ EXTENDED CLIP	YELLOW	PA6 GF40
A-BLK	HOUSING KEYING OPTION A NON CLIPSLOT	BLACK	PA6 GF40
B-LG	HOUSING KEYING OPTION B NON CLIPSLOT	LIGHT GRAY	PA6 GF40
C-DG	HOUSING KEYING OPTION C NON CLIPSLOT	DARK GRAY	PA6 GF40
D-SG	HOUSING KEYING OPTION D NON CLIPSLOT	STONE GRAY	PA6 GF40
A-Y	HOUSING KEYING OPTION A NON CLIPSLOT	YELLOW	PA6 GF40
GCP-ECLIP	GROMMET CAP (PLUGGED) EXTENDED CLIPSLOT	BLACK	PA6 GF40
GCP	GROMMET CAP (PLUGGED) NON CLIPSLOT	BLACK	PA6 GF40
PLR	PLR	NATURAL	PA6 GF40
CPA	CPA	RED	PBT GF20
M	MAT SEAL	LIGHT BLUE	INHERENTLY LUBRICATED SILICONE
R	RING SEAL	RUST RED	INHERENTLY LUBRICATED SILICONE

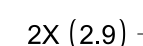
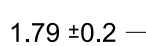
ASSEMBLY DESCRIPTION	ASSEMBLY PART NUMBER	COMPONENT						BLOCKED TERMINALS												STATUS	COMMENTS	OPTIONAL ATTATCHMENTS SOLD SEPERATELY		
		THE PRESENCE OF AN ABBREVIATION INDICATES THE PRESENCE OF THAT COMPONENT.						CAVITY WITH A NUMBER INDICATES BLOCKED TERMINAL POSITION CAVITY WITHOUT A NUMBER INDICATES OPEN TERMINAL POSITION														BACKSHELL WITH RIBS	BACKSHELL WITHOUT RIBS	
		HOUSING KEY/COLOR	GROMMET CAP	PLR	CPA	MAT SEAL	RING SEAL	1	2	3	4	5	6	7	8	9	10	11	12					
KEY A, BLACK, W/O CPA	160111-6001	A-BLK	GCP	PLR		M	R												SALEABLE					
KEY B, LIGHT GRAY, W/O CPA	160111-6002	B-LG	GCP	PLR		M	R												SALEABLE					
KEY C, DARK GRAY, W/O CPA	160111-6003	C-DG	GCP	PLR		M	R												SALEABLE					
KEY D, STONE GRAY, W/O CPA	160111-6004	D-SG	GCP	PLR		M	R												SALEABLE					
KEY A, YELLOW, W/O CPA	160111-6005	A-Y	GCP	PLR		M	R												OK TO TOOL					
KEY A, BLACK, W/ CPA	160111-6006	A-BLK	GCP	PLR	CPA	M	R												SALEABLE					
KEY B, LIGHT GRAY, W/ CPA	160111-6007	B-LG	GCP	PLR	CPA	M	R												SALEABLE					
KEY C, DARK GRAY, W/ CPA	160111-6008	C-DG	GCP	PLR	CPA	M	R												SALEABLE					
KEY D, STONE GRAY, W/ CPA	160111-6009	D-SG	GCP	PLR	CPA	M	R												SALEABLE					
KEY A, YELLOW, W/ CPA	160111-6010	A-Y	GCP	PLR	CPA	M	R												OK TO TOOL					
KEY A, BLACK, W/O CPA, W/ EX. CLIPSLOT	160111-6011	A-BLK-ECLIP	GCP-ECLIP	PLR		M	R												SALEABLE					
KEY B, LIGHT GRAY, W/O CPA, W/ EX. CLIPSLOT	160111-6012	B-LG-ECLIP	GCP-ECLIP	PLR		M	R												SALEABLE					
KEY C, DARK GRAY, W/O CPA, W/ EX. CLIPSLOT	160111-6013	C-DG-ECLIP	GCP-ECLIP	PLR		M	R												SALEABLE					
KEY D, STONE GRAY, W/O CPA, W/ EX. CLIPSLOT	160111-6014	D-SG-ECLIP	GCP-ECLIP	PLR		M	R												SALEABLE					
KEY A, YELLOW, W/O CPA, W/ EX. CLIPSLOT	160111-6015	A-Y-ECLIP	GCP-ECLIP	PLR		M	R												OK TO TOOL					
KEY A, BLACK, W/ CPA, W/ EX. CLIPSLOT	160111-6016	A-BLK-ECLIP	GCP-ECLIP	PLR	CPA	M	R												SALEABLE					
KEY B, LIGHT GRAY, W/ CPA, W/ EX. CLIPSLOT	160111-6017	B-LG-ECLIP	GCP-ECLIP	PLR	CPA	M	R												SALEABLE					
KEY C, DARK GRAY, W/ CPA, W/ EX. CLIPSLOT	160111-6018	C-DG-ECLIP	GCP-ECLIP	PLR	CPA	M	R												SALEABLE					
KEY D, STONE GRAY, W/ CPA, W/ EX. CLIPSLOT	160111-6019	D-SG-ECLIP	GCP-ECLIP	PLR	CPA	M	R												SALEABLE					
KEY A, YELLOW, W/ CPA, W/ EX. CLIPSLOT	160111-6020	A-Y-ECLIP	GCP-ECLIP	PLR	CPA	M	R												OK TO TOOL					
KEY A, BLACK, W/ CPA, W/ EX. CLIPSLOT	160111-6021	A-BLK-ECLIP	GCP-ECLIP	PLR	CPA	M	R				3	4	5	6	7		9	10	11	SALEABLE				
KEY A, BLACK, W/ CPA, W/ EX. CLIPSLOT	160111-6022	A-BLK-ECLIP	GCP-ECLIP	PLR	CPA	M	R	1	2	3	4	5	6	7	8		10			SALEABLE				
KEY A, BLACK, W/ CPA, W/ EX. CLIPSLOT	160111-6023	A-BLK-ECLIP	GCP-ECLIP	PLR	CPA	M	R	1			4	5	6	7	8					SALEABLE				
KEY A, BLACK, W/ CPA, W/ EX. CLIPSLOT	160111-6024	A-BLK-ECLIP	GCP-ECLIP	PLR	CPA	M	R	1	2	3	4	5			8		10			SALEABLE				
KEY A, BLACK, W/ CPA, W/ EX. CLIPSLOT	160111-6025	A-BLK-ECLIP	GCP-ECLIP	PLR	CPA	M	R	1			4	5			8					SALEABLE				
KEY A, BLACK, W/ CPA, W/ EX. CLIPSLOT	160111-6026	A-BLK-ECLIP	GCP-ECLIP	PLR	CPA	M	R	1	2	3							10			SALEABLE				
KEY A, BLACK, W/ CPA, W/ EX. CLIPSLOT	160111-6027	A-BLK-ECLIP	GCP-ECLIP	PLR	CPA	M	R	1												SALEABLE				
KEY A, BLACK, W/ CPA, W/ EX. CLIPSLOT	160111-6028	A-BLK-ECLIP	GCP-ECLIP	PLR	CPA	M	R		2	3	4	5	6	7	8		10			SALEABLE				
KEY A, BLACK, W/ CPA, W/ EX. CLIPSLOT	160111-6029	A-BLK-ECLIP	GCP-ECLIP	PLR	CPA	M	R				4	5	6	7	8					SALEABLE				
KEY A, BLACK, W/ CPA, W/ EX. CLIPSLOT	160111-6030	A-BLK-ECLIP	GCP-ECLIP	PLR	CPA	M	R		2	3	4	5			8		10			SALEABLE				
KEY A, BLACK, W/ CPA, W/ EX. CLIPSLOT	160111-6031	A-BLK-ECLIP	GCP-ECLIP	PLR	CPA	M	R				4	5			8					SALEABLE				
KEY A, BLACK, W/ CPA, W/ EX. CLIPSLOT	160111-6032	A-BLK-ECLIP	GCP-ECLIP	PLR	CPA	M	R		2	3							10			SALEABLE				
KEY A, BLACK, W/ CPA, W/ EX. CLIPSLOT	160111-6033	A-BLK-ECLIP	GCP-ECLIP	PLR	CPA	M	R	1	2	3	4	5	6	7	8		10			SALEABLE				
KEY A, BLACK, W/ CPA, W/ EX. CLIPSLOT	160111-6034	A-BLK-ECLIP	GCP-ECLIP	PLR	CPA	M	R							7	8	9	10	11	12	SALEABLE				
KEY A, BLACK, W/ CPA, W/ EX. CLIPSLOT	160111-6035	A-BLK-ECLIP	GCP-ECLIP	PLR	CPA	M	R							8			10	11	12	SALEABLE				
KEY A, BLACK, W/ CPA, W/ EX. CLIPSLOT	160111-6036	A-BLK-ECLIP	GCP-ECLIP	PLR	CPA	M	R	1	2	3	4	5	6	7		9			12	SALEABLE				
KEY A, BLACK, W/ CPA, W/ EX. CLIPSLOT	160111-6037	A-BLK-ECLIP	GCP-ECLIP	PLR	CPA	M	R							7		9			12	SALEABLE				
KEY A, BLACK, W/ CPA, W/ EX. CLIPSLOT	160111-6038	A-BLK-ECLIP	GCP-ECLIP	PLR	CPA	M	R												12	SALEABLE				
KEY A, BLACK, W/ CPA	160111-6039	A-BLK	GCP	PLR	CPA	M	R				3			7		9	10	11		SALEABLE				
KEY A, BLACK, W/ CPA	160111-6040	A-BLK	GCP	PLR	CPA	M	R							7		9	10			SALEABLE				
KEY A, BLACK, W/ CPA	160111-6041	A-BLK	GCP	PLR	CPA	M	R				4	5	6	7		9	10			SALEABLE				
KEY A, BLACK, W/ CPA	160111-6042	A-BLK	GCP	PLR	CPA	M	R				3	4	5	6	7		9	10	11		SALEABLE			
KEY A, BLACK, W/ CPA	160111-6043	A-BLK	GCP	PLR	CPA	M	R	1	2	3					7	8	9	10	11	12	SALEABLE			
KEY A, BLACK, W/ CPA	160111-6044	A-BLK	GCP	PLR	CPA	M	R	1	2						7	8	9	10		12	SALEABLE			
KEY A, BLACK, W/ CPA	160111-6045	A-BLK	GCP	PLR	CPA	M	R	1	2		4	5	6	7	8	9	10			12	SALEABLE			

FUNCTIONAL SYMBOLS		THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX ELECTRONIC TECHNOLOGIES, LLC AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION													
DIMENSION UNITS		SCALE		CURRENT REV DESC: SEE REVISION TABLE				molex							
A = 0	mm	1:1													
F = 0	GENERAL TOLERANCES (UNLESS SPECIFIED)														
P = 0	ANGULAR TOL ± 0.5°							MX150 HYBRID MAT SEAL RCPT CONN ASM							
4 PLACES		±													
3 PLACES		±													
2 PLACES		±													
1 PLACE		±													
DIVISIONAL SYMBOLS		0 PLACES		STATUS: Production		2026-02-03		DOCUMENT NUMBER		DOC TYPE		DOC PART		REVISION	
SEE NOTES		DRWN: Srikanth CV		2026-02-11		1601110000		PSD		000		F5			
		CHK'D: Chaitra D		2026-02-11											
		APPR: Gurunandan GA													
DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		THIRD ANGLE PROJECTION		DRAWING		SERIES		MATERIAL NUMBER		CUSTOMER		SHEET NUMBER			
				D-SIZE		160111		SEE TABLE				5 OF 7			

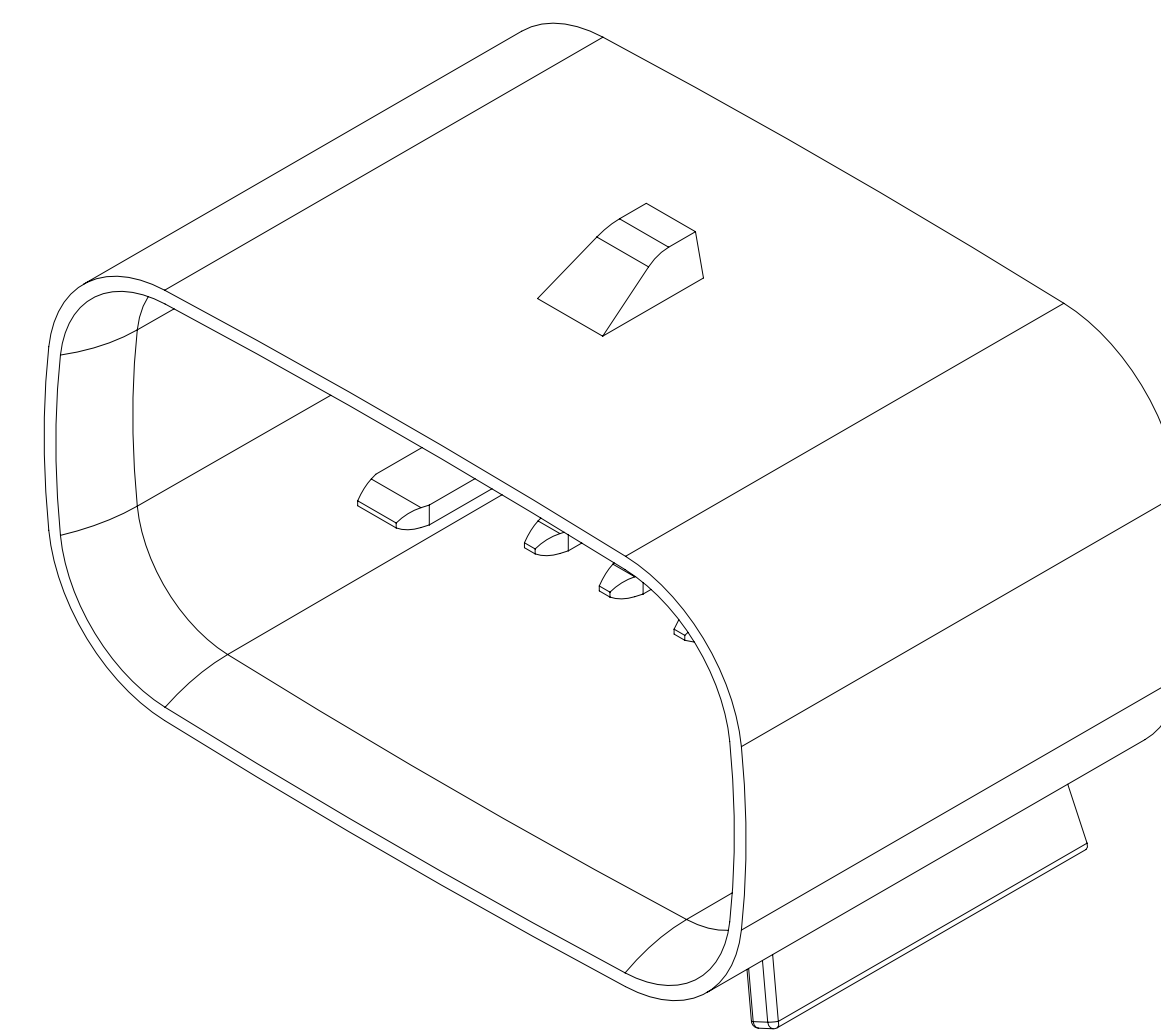
12W HYBRID INTERFACE DEFINITION



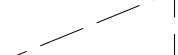
999-S-012-2-D01	D	STONE GRAY
999-S-012-2-C01	C	DARK GRAY
999-S-012-2-B01	B	LIGHT GRAY
999-S-012-2-A01	A	BLACK
EWCAP P/N	OPTION	MATING CONNECT COLOR

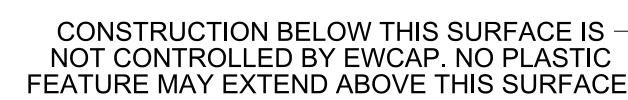


THIS DRAWING OR PORTIONS OF IT, ARE CONTROLLED BY THE ELECTRICAL WIRING COMPONENTS APPLICATION PARTNERSHIP (EWCAP), A SUBGROUP OF THE UNITED STATES CONSORTIUM FOR AUTOMOTIVE RESEARCH LLC (USCAR). USCAR IS A PARTNERSHIP BETWEEN CHRYSLER GROUP LLC, FORD MOTOR COMPANY, AND GENERAL MOTORS CORPORATION. ANY CHANGE TO A EWCAP CONTROLLED PORTION OF THIS DRAWING, INCLUDING A "RECORD CHANGE" MUST BE APPROVED, IN WRITING, BY THE RESPONSIBLE EWCAP MEMBER FROM EACH USCAR COMPANY. EACH EWCAP MEMBER AUTHORIZED TO SIGN FOR HIS OR HER COMPANY IS RESPONSIBLE FOR OBTAINING ALL NECESSARY APPROVALS WITHIN THAT COMPANY PRIOR TO SIGNING FOR APPROVAL OF THE CHANGE. EWCAP EXPRESSLY PROHIBITS ANY PARTY FROM CHANGING EITHER ANY EWCAP CONTROLLED PORTION OF THIS DRAWING OR ANY ASSOCIATED TOOLING BEFORE RECEIVING AN APPROVAL SIGNED BY AN AUTHORIZED REPRESENTATIVE FROM EACH EWCAP PARTNER. REFERENCE TO THE SIGNED APPROVAL FORM MUST BE ENTERED IN THIS DRAWING'S CONTROL COLUMN.



NOTES: UNLESS OTHERWISE SPECIFIED

1. ALL DIMENSIONS SHOWN IN MILLIMETERS.
2. DIMENSIONING AND TOLERANCING PER ASME Y14.5M-1994
3. 0.25 RADII ON ALL CORNERS SHOWN SHARP.
4. UNSPECIFIED RADII: 0.25 EXCEPT AS NOTED.
5. STANDARD COLORS FOR POLARIZATION (SEE CHART).
DEVIATION REQUIRES APPROVAL OF AUTHORIZED PERSON.
6. REFER TO "SAE/USCAR 12 CONNECTOR GUIDELINES"
FOR ADDITIONAL REQUIREMENTS.
7. EXCEPT WHERE NOTED, DRAFT ON OUTSIDE SURFACES IS PERMISSIBLE
WITHIN TOLERANCE.
8.  SYMBOL INDICATES DRAFT DIRECTION.
9. FOR TERMINAL MATERIAL, DIMENSIONAL, AND COATING REQUIREMENTS
AND ANY BLADE TERMINAL DESIGN INFORMATION NOT SHOWN ON THIS
DRAWING SEE EWCAP DRW. NO. EWCAP-001
10. A FULL SHROUD ON THE MATING CONNECTOR IS REQUIRED
TO INSURE THAT THE CONNECTOR-HEADER POLARIZATION
FEATURES (OPTIONS A THRU D) WILL FUNCTION. THE FULL
SHROUD ALSO PREVENT SCOOP DAMAGE TO THE HEADER
PINS. REFER TO "SAE/USCAR-12 CONNECTOR DESIGN
GUIDE LINES" FOR ADDITIONAL INFORMATION.
11. REFER TO USCAR/EWCAP PART LIST AS FOUND ON WEBSITE
<http://www.uscarteams.org>
12. THIS IS 100% CAD GENERATED PART. THE CAD MATHEMATICAL DATA
IS THE MASTER FOR THIS PART. FOR DIMENSIONAL OR ANY INFORMATION
NOT SHOWN ON THIS DRAWING. ANALYZE THE CAD MODEL



	A6	ADDED NOTES AND NOTICE	1/16/17	AD	MV
	A	DESIGN RELEASE	4/18/16	AD	MV
CHANGE SERIAL NUMBER	LET	REVISION RECORD	DATE	DWN	CHK

FUNCTIONAL SYMBOLS		THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX ELECTRONIC TECHNOLOGIES, LLC AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION											
DIMENSION UNITS		SCALE		CURRENT REV DESC: SEE REVISION TABLE				molex MX150 HYBRID MAT SEAL RCPT CONN ASM					
mm		1:1											
GENERAL TOLERANCES (UNLESS SPECIFIED)													
ANGULAR TOL		± 0.5°											
4 PLACES		±											
3 PLACES		±		STATUS: Production DRWN: Srikanth CV 2026-02-03 CHK'D: Chaitra D 2026-02-11 APPR: Gurunandan GA 2026-02-11				PRODUCT CUSTOMER DRAWING DOCUMENT NUMBER 1601110000 DOC TYPE PSD DOC PART 000 REVISION F5					
2 PLACES		±											
1 PLACE		±											
0 PLACES		±											
DIVISIONAL SYMBOLS													
DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		THIRD ANGLE PROJECTION		DRAWING		SERIES		MATERIAL NUMBER		CUSTOMER		SHEET NUMBER	
				E-SIZE		160111		SEE TABLE				7 OF 7	