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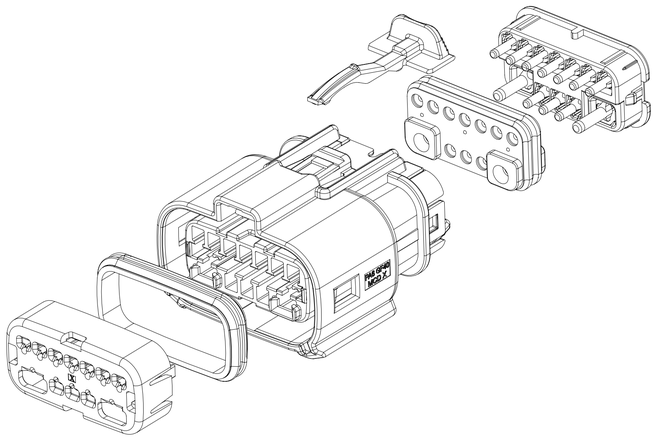
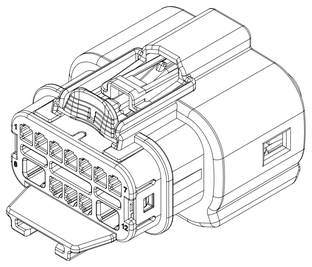
2	CONFIGURATIONS
3	KEY CONFIGURATIONS
4	RECEPTACLE CONNECTOR ASSEMBLY
5	12W HYBRID CONNECTOR BOM
6	12W HYBRID CONNECTOR BOM
7	12W HYBRID INTERFACE DEFINITION

MX150 12W STANDARD HYBRID RECEPTACLE



12W HYBRID W/ EXTENDED CLIPSLOT



12W HYBRID NON-CLIPSLOT

NOTES: VALID UNLESS OTHERWISE SPECIFIED

1. GENERAL:
   - 1.1 APPLICATION SPECIFICATION SEE: 1601110001-AS
     - CONTAINS: PRODUCT INTRODUCTION, PRODUCT SUMMARY, CONNECTOR ASSEMBLY, PACKAGING INFORMATION, CONNECTOR MATING, SERVICE INSTRUCTIONS, ELECTRICAL CONTINUITY CHECKING, CRIMPING, AND TROUBLE SHOOTING.
     - DESIGNED TO MATE WITH DEVICE OR CONNECTOR AS SPECIFIED IN THE MATING INTERFACE/CONNECTOR DRAWINGS CHART.
       *DENOTES DRAWINGS THAT CAN BE ACCESSED AT [http://ewcap.uscarteams.org/]
     - CLIPSLOT DESIGN IS BASED ON USCAR/EWCAP 11MM CLIP SLOT EWCAP-005-11 AND WILL ACCEPT CLIPS DESIGNED TO THAT INTERFACE
     - ASSEMBLY SHIPPED WITH THE FOLLOWING PARTS IN PRE-LOCK POSITION (PLR, CPA, ISL, LEVEL. SEE PRE-LOCK VIEW ON PAGE 4).
   - 1.2 PRODUCT SPECIFICATION SEE: 1601110001-PS
     - CONTAINS: SCOPE, PRODUCT DESCRIPTION, INTEGRAL COMPONENTS AND ACCESSORIES, APPLICABLE DOCUMENTS AND SPECIFICATIONS, RATINGS, PERFORMANCE, PACKAGING, GAUGES AND FIXTURES, AND OTHER INFORMATION.
   - 1.3 PACKAGING SPECIFICATION PER MOLEX DRAWING: SEE PACKAGING CHART
   - 1.4 PARTS MUST BE IN COMPLIANCE TO MOLEX CHEMICAL SUBSTANCES FOR PRODUCTS AND PACKAGING SPECIFICATION: QEHS-699000-300
   - 1.5 DATA MUST BE SUBMITTED UNDER THE MOLEX PART NUMBER TO IMDS (COMPANY ID#13255)

2. DESIGN - MATERIALS:
   - 2.1 SEE BOM TABLE

3. DESIGN - GEOMETRY:
   - 3.1 THE 3-D CAD DATA IS BASIC (WITHOUT TOLERANCE) AND MUST BE TAKEN FROM THE DATA FILE AT ITS LATEST REVISION.
   - 3.2 THE 3-D CAD DATA IS MASTER FOR THIS PART AND IS TO BE USED TO ESTABLISH DIMENSIONAL INFORMATION NOT SHOWN ON THIS DRAWING. ANY DIMENSIONS UNDERLINED INDICATE A CONFLICT WITH THE MODEL.
   - 3.3 PRODUCT DESIGN MODEL NUMBER(S): SEE BOM TABLE
   - 3.4 GEOMETRIC DIMENSIONS AND TOLERANCES PER ASME Y14.5M-2009
   - 3.5 EDGES OF UNDEFINED SHAPE PER ISO 13715
   - 3.6 CORNERS SHOWN AS SHARP TO BE R 0.2 MAX
   - 3.7 LETTERING SHALL BE 0.15 MAX RAISED IN 0.25 MAX RECESS PAD. THIS INCLUDES RECYCLING CODE, CAVITY ID, VENDOR IDENTIFICATION, AND CUSTOMER MATERIAL NUMBER.
   - 3.8 VISUAL DEFECTS SHALL MEET COSMETIC STANDARD PS-45499-002 (CLASS B).
   - 3.9 LASER MARKING
     1. PART NUMBER
     2. DAY OF THE YEAR
     3. SHIFT
     4. YEAR

FOR ADDTIONAL INFORMATION SEE SECTION 5 UNDER PROCEDURES IN ES-34735-008.

DESCRIPTION	PACKAGING DRAWING NO.	MATING INTERFACE/CONNECTOR DRAWINGS	
		INTERFACE DEFINITION	MOLEX INLINE
12W HYBRID	TBD	SEE PAGE 7	PSD-1601120000

REV	REV DESCRIPTION
F5	ADDED NEW PN 160111-6082 TO 160111-6083
F4	CLIPSLOT NOTE ADDED
F3	ADDED NEW PART NUMBER 160111-6081
F2	"NOT VALIDATED" NOTE ADDED TO INTERFACE DEFINITION SHEET
F1	TYPO CORRECTIONS TO MATCH PDD
F	REMOVED MXDaSH PRODUCTS. REFERENCE 3000910000 PSD FOR ALL MXDaSH RECEPTACLE INFORMATION.
E14	ADDED NEW PN 160111-6080
E13	UPDATED 10+1+1 & 10+2 PN W/O CLIPSLOT TO OBSOLETE 10+2 PN'S 300091-0033 TO 300091-0039 ADDED
E12	UPDATED PN 300091-0001 - 300091-0008 FROM OKAY TO TOOL TO SALEABLE
E11	ADDED NEW PART NUMBER 160111-6079
E10	ADDED NEW PART NUMBER 300158-0038. UPDATED MISSING PN FROM PDD. NEW PN FOR E9 REV 300158-0038 & E10 REV 300158-0039.
E9	ADDED NEW PART NUMBER 300158-0037
E8	ADDED NEW PART NUMBER 160111-6078
E7	ADDED NEW PART NUMBER 160111-6077
E6	10+1+1 PN 300158-0037 REMOVED
E5	MINIMUM PASS THROUGH UPDATED 10+1+1 KEY A COMPONENT'S STATUS UPDATED TO SALEABLE
E4	MXDaSH HFM HYBRID W/ MATERIAL UPDATED FROM PA6-GF40 TO PA66-GF35 10+1+1 KEY A COMPONENT'S STATUS UPDATED TO SALEABLE FOR INTERIM PPAP 300158-0037 UPDATED FROM OKAY TO TOOL TO OBSOLETE SHEET 4 DIM 8 ADDED ZONE D13
E3	UPDATED GC P/NS FOR 10+2 & 10+1+1 HFM HYBRIDS ADDED NEW PART NUMBER 160111-6076 SWITCHED MATERIAL OF 10+2 & 10+1+1 FROM PA6 GF40 TO PA66 GF35
E2	ADD NEW PART NO. 160111-6071 TO -6075
E1	ADD NEW PART NO. 160111-6070, 300158-0037
E	ADDED BOM FOR SERIES 300091 & 300158
D6	ADD NEW PART NO. 160111-6068 160111-6069
D5	ADD NEW PART NO. 160111-6064 160111-6065 160111-6066 160111-6067
D4	ADD 160111-6062 AND 160111-6063
D3	ADD 160111-6061
D2	ADD 160111-6059 AND 6060
D1	ADD 160111-6054 THRU 6058
D	ADD 160111-6050 THRU 6053
C2	UPDATED NOTES
C1	CHANGE DOCUMENT TYPE FROM RSD TO SD
C	ADD 160111-6046 THRU 6049
B	UPDATED INFORMATION TO PRODUCTION LEVEL
A2	ADDED NEW PART NO. 160111-6039 160111-6040 160111-6041 160111-6042 160111-6043 160111-6044 160111-6045
A1	ADDED NEW PART NO. 160111-6021 160111-6022 160111-6023 160111-6024 160111-6025 160111-6026 160111-6027 160111-6028 160111-6029 160111-6030 160111-6031 160111-6032 160111-6033 160111-6034 160111-6035 160111-6036 160111-6037 160111-6038
A	INITIAL RELEASE

INSPECTION NUMBER LOG
LAST NUMBER: 7

THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX ELECTRONIC TECHNOLOGIES, LLC AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION

FUNCTIONAL SYMBOLS
FA = 0
FC = 0
FD = 0

DIVISIONAL SYMBOLS

DIMENSION UNITS	SCALE
mm	2:1

GENERAL TOLERANCES (UNLESS SPECIFIED)

ANGULAR TOL	± 0.5°
4 PLACES	±
3 PLACES	
2 PLACES	±
1 PLACE	±
0 PLACES	±

DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS

SEE NOTES

CURRENT REV DESC: SEE REVISION TABLE

STATUS: Production
DRWN: Srikanth CV 2026-02-03
CHK'D: Chaitra D 2026-02-11
APPR: Gurunandan GA 2026-02-11

THIRD ANGLE PROJECTION | DRAWING: D-SIZE | SERIES: 160111

molex

MX150 HYBRID MAT SEAL RCPT CONN ASM

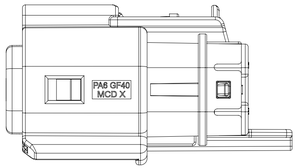
PRODUCT CUSTOMER DRAWING

DOCUMENT NUMBER	DOC TYPE	DOC PART	REVISION
1601110000	PSD	000	F5

MATERIAL NUMBER	CUSTOMER	SHEET NUMBER
SEE TABLE		1 OF 7

SHEET DESCRIPTION

CONFIGURATIONS



12W HYBRID W/ EXTENED CLIPSLOT

12W HYBRID NON-CLIPSLOT

FUNCTIONAL SYMBOLS

FA = 0

FC = 0

FD = 0

DIVISIONAL SYMBOLS

DIMENSION UNITS	SCALE
mm	2:1

GENERAL TOLERANCES (UNLESS SPECIFIED)

ANGULAR TOL	± 0.5°
4 PLACES	±
3 PLACES	
2 PLACES	±
1 PLACE	±
0 PLACES	±

DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS

SEE NOTES

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CURRENT REV DESC: SEE REVISION TABLE

STATUS: Production

DRWN: Srikanth CV 2026-02-03

CHK'D: Chaitra D 2026-02-11

APPR: Gurunandan GA 2026-02-11

molex

MX150 HYBRID MAT SEAL RCPT CONN ASM

PRODUCT CUSTOMER DRAWING

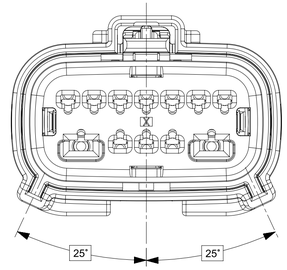
DOCUMENT NUMBER	DOC TYPE	DOC PART	REVISION
1601110000	PSD	000	F5

THIRD ANGLE PROJECTION	DRAWING	SERIES	MATERIAL NUMBER	CUSTOMER	SHEET NUMBER
	D-SIZE	160111	SEE TABLE		2 OF 7

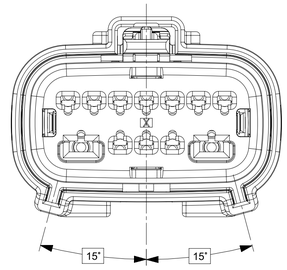
SHEET DESCRIPTION

KEY CONFIGURATIONS

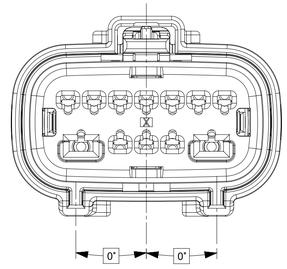
12W HYBRID



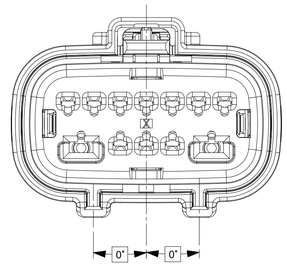
KEY A



KEY B



KEY C



KEY D

THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX ELECTRONIC TECHNOLOGIES, LLC AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION

FUNCTIONAL SYMBOLS	FA = 0, FC = 0, FP = 0
DIVISIONAL SYMBOLS	
DIMENSION UNITS	mm
SCALE	3:1
GENERAL TOLERANCES (UNLESS SPECIFIED)	
ANGULAR TOL	± 0.5°
4 PLACES	±
3 PLACES	
2 PLACES	±
1 PLACE	±
0 PLACES	±
SEE NOTES	
DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS	

CURRENT REV DESC: SEE REVISION TABLE

STATUS: Production

DRWN: Srikanth CV 2026-02-03

CHK'D: Chaitra D 2026-02-11

APPR: Gurunandan GA 2026-02-11

THIRD ANGLE PROJECTION | DRAWING: D-SIZE | SERIES: 160111

molex

MX150 HYBRID MAT SEAL RCPT CONN ASM

PRODUCT CUSTOMER DRAWING

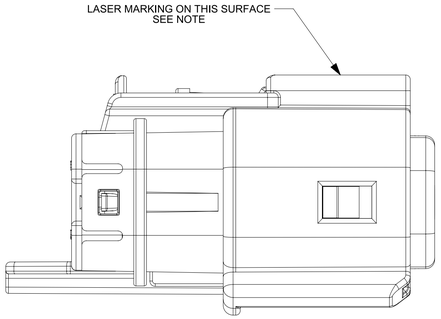
DOCUMENT NUMBER	DOC TYPE	DOC PART	REVISION
1601110000	PSD	000	F5

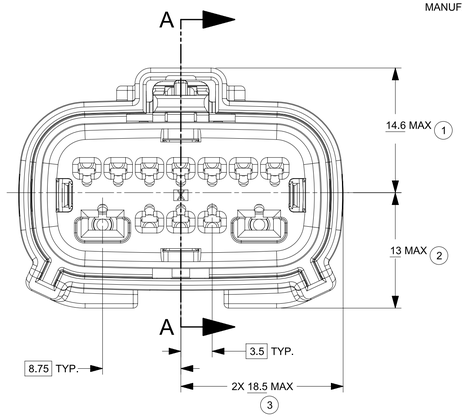
MATERIAL NUMBER	CUSTOMER	SHEET NUMBER
SEE TABLE		3 OF 7

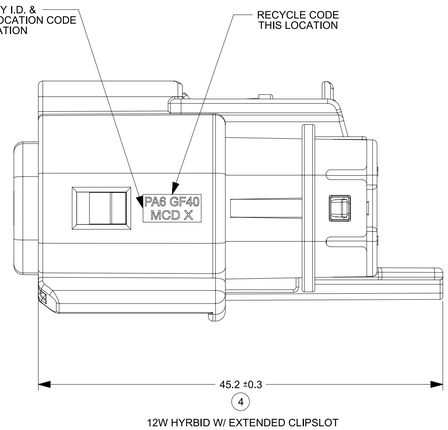
FORMAT TV-Drawing-D
REVISION: B
DATE: 2022/05/20

SHEET DESCRIPTION

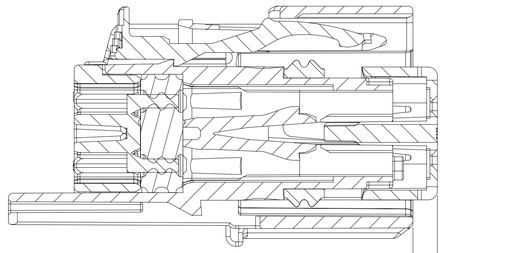
RECEPTACLE CONNECTOR ASSEMBLY



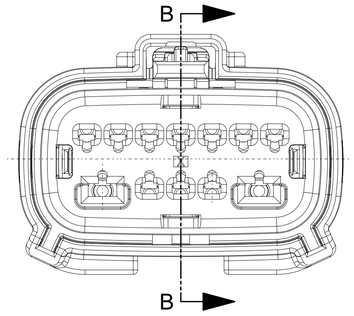


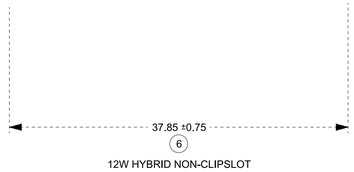


12W HYRBID W/ EXTENDED CLIPSLOT

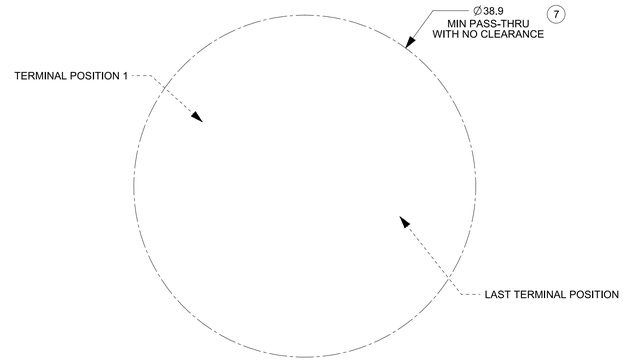


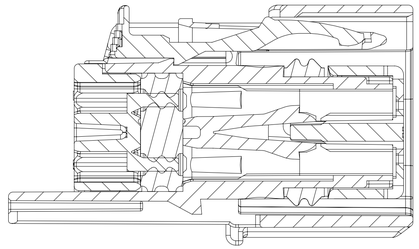
SECTION A-A





12W HYBRID NON-CLIPSLOT





SECTION B-B

FUNCTIONAL SYMBOLS	THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX ELECTRONIC TECHNOLOGIES, LLC AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION		
FA = 0	DIMENSION UNITS: mm	SCALE: 4:1	CURRENT REV DESC: SEE REVISION TABLE
FC = 0	GENERAL TOLERANCES (UNLESS SPECIFIED)		
FP = 0	ANGULAR TOL ± 0.5°		
DIVISIONAL SYMBOLS	4 PLACES ±		
	3 PLACES ±		
	2 PLACES ±		
	1 PLACE ±		
	0 PLACES ±		
	DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		

SEE NOTES

STATUS: Production

DRWN: Srikanth CV 2026-02-03

CHK'D: Chaitra D 2026-02-11

APPR: Gurunandan GA 2026-02-11

molex

MX150 HYBRID MAT SEAL RCPT CONN ASM

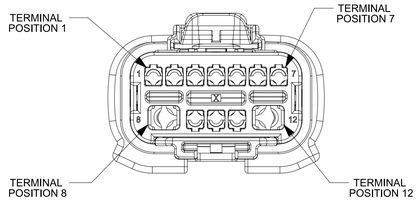
PRODUCT CUSTOMER DRAWING

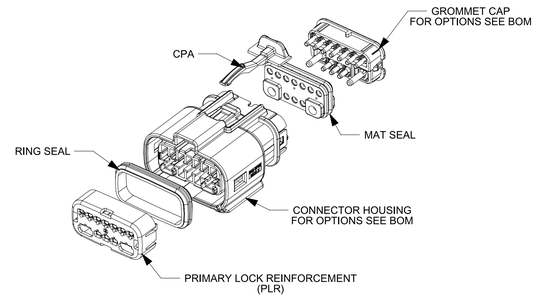
DOCUMENT NUMBER	DOC TYPE	DOC PART	REVISION
1601110000	PSD	000	F5

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														
		HOUSING KEY/COLOR	GROMMET CAP	PLR	CPA	MAT SEAL	RING SEAL	1	2	3	4	5	6	7	8	9	10	11	12		BACKSHELL WITH RIBS	BACKSHELL WITHOUT RIBS
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			

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FUNCTIONAL SYMBOLS
FA = 0
FC = 0
FD = 0
DIVISIONAL SYMBOLS

DIMENSION UNITS: mm
SCALE: 1:1

GENERAL TOLERANCES (UNLESS SPECIFIED)

ANGULAR TOL	± 0.5°
4 PLACES	±
3 PLACES	±
2 PLACES	±
1 PLACES	±
0 PLACES	±

DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS

SEE NOTES

CURRENT REV DESC: SEE REVISION TABLE

STATUS: Production
DRWN: Srikanth CV 2026-02-03
CHK'D: Chaitra D 2026-02-11
APPR: Gurunandan GA 2026-02-11

molex

MX150 HYBRID MAT SEAL RCPT CONN ASM

PRODUCT CUSTOMER DRAWING

DOCUMENT NUMBER	DOC TYPE	DOC PART	REVISION
1601110000	PSD	000	F5

THIRD ANGLE PROJECTION	DRAWING	SERIES	MATERIAL NUMBER	CUSTOMER	SHEET NUMBER
	D-SIZE	160111	SEE TABLE		5 OF 7

SHEET DESCRIPTION

12W HYBRID CONNECTOR BOM

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															
		HOUSING KEY/COLOR	GROMMET CAP	PLR	CPA	MAT SEAL	RING SEAL	1	2	3	4	5	6	7	8	9	10	11	12			BACKSHELL WITH RIBS	BACKSHELL WITHOUT RIBS
KEY A, BLACK, W/ CPA, W/ EX. CLIPSLOT	160111-6046	A-BLK-ECLIP	GCP-ECLIP	PLR	CPA	M	R	1	2	3				7						SALEABLE			
KEY A, BLACK, W/ CPA, W/ EX. CLIPSLOT	160111-6047	A-BLK-ECLIP	GCP-ECLIP	PLR	CPA	M	R		2		4	5	6							SALEABLE			
KEY A, BLACK, W/ CPA, W/ EX. CLIPSLOT	160111-6048	A-BLK-ECLIP	GCP-ECLIP	PLR	CPA	M	R	1	2	3	4	5	6	7						SALEABLE			
KEY A, BLACK, W/ CPA, W/ EX. CLIPSLOT	160111-6049	A-BLK-ECLIP	GCP-ECLIP	PLR	CPA	M	R	1	2	3	4	5	6	7				11		SALEABLE			
KEY A, BLACK, W/ CPA, W/ EX. CLIPSLOT	160111-6050	A-BLK-ECLIP	GCP-ECLIP	PLR	CPA	M	R									9	10			SALEABLE			
KEY A, BLACK, W/ CPA, W/ EX. CLIPSLOT	160111-6051	A-BLK-ECLIP	GCP-ECLIP	PLR	CPA	M	R	1		3	4	5	6	7						SALEABLE			
KEY A, BLACK, W/ CPA, W/ EX. CLIPSLOT	160111-6052	A-BLK-ECLIP	GCP-ECLIP	PLR	CPA	M	R				4	5	6							SALEABLE			
KEY A, BLACK, W/ CPA, W/ EX. CLIPSLOT	160111-6053	A-BLK-ECLIP	GCP-ECLIP	PLR	CPA	M	R	1		3				7						SALEABLE			
KEY A, BLACK, W/ CPA	160111-6054	A-BLK	GCP	PLR	CPA	M	R					5		7				11	12	SALEABLE			
KEY A, BLACK, W/ CPA	160111-6055	A-BLK	GCP	PLR	CPA	M	R	1	2					7					12	SALEABLE			
KEY A, BLACK, W/ CPA	160111-6056	A-BLK	GCP	PLR	CPA	M	R							7					12	SALEABLE			
KEY A, BLACK, W/ CPA	160111-6057	A-BLK	GCP	PLR	CPA	M	R	1	2			5		7				11	12	SALEABLE			
KEY A, BLACK, W/ CPA, W/ EX. CLIPSLOT	160111-6058	A-BLK-ECLIP	GCP-ECLIP	PLR	CPA	M	R	1	2	3				7				11		SALEABLE			
KEY A, BLACK, W/O CPA, W/ EX. CLIPSLOT	160111-6059	A-BLK-ECLIP	GCP-ECLIP	PLR		M	R	1	2	3	4	5	6	7	8	9	10	11	12	SALEABLE			
KEY A, BLACK, W/O CPA	160111-6060	A-BLK	GCP	PLR		M	R									9	10			SALEABLE			
KEY A, BLACK, W/ CPA, W/ EX. CLIPSLOT	160111-6061	A-BLK-ECLIP	GCP-ECLIP	PLR	CPA	M	R								8					SALEABLE			
KEY A, BLACK, W/ CPA	160111-6062	A-BLK	GCP	PLR	CPA	M	R	1	2		4	5	6	7						SALEABLE			
KEY A, BLACK, W/ CPA	160111-6063	A-BLK	GCP	PLR	CPA	M	R		2	3	4		6	7		9	10			SALEABLE			
KEY A, BLACK, W/ CPA	160111-6064	A-BLK	GCP	PLR	CPA	M	R	1	2			5		7			10	11	12	SALEABLE			
KEY A, BLACK, W/ CPA	160111-6065	A-BLK	GCP	PLR	CPA	M	R	1	2					7			10		12	SALEABLE			
KEY A, BLACK, W/ CPA	160111-6066	A-BLK	GCP	PLR	CPA	M	R		2			5		7			10	11	12	SALEABLE			
KEY A, BLACK, W/ CPA	160111-6067	A-BLK	GCP	PLR	CPA	M	R		2					7			10		12	SALEABLE			
KEY A, BLACK, W/ CPA, W/ EX. CLIPSLOT	160111-6068	A-BLK-ECLIP	GCP-ECLIP	PLR	CPA	M	R			3	4	5	6					11		SALEABLE			
KEY A, BLACK, W/ CPA, W/ EX. CLIPSLOT	160111-6069	A-BLK-ECLIP	GCP-ECLIP	PLR	CPA	M	R			3	4	5	6	7	8	9	10	11	12	SALEABLE			
KEY A, BLACK, W/ CPA	160111-6070	A-BLK	GCP	PLR	CPA	M	R		2											SALEABLE			
KEY A, BLACK, W/ CPA	160111-6071	A-BLK	GCP	PLR	CPA	M	R		2		4	5	6		8				12	SALEABLE			
KEY A, BLACK, W/ CPA	160111-6072	A-BLK	GCP	PLR	CPA	M	R	1	2	3	4	5	6	7			10	11	12	SALEABLE			
KEY A, BLACK, W/ CPA	160111-6073	A-BLK	GCP	PLR	CPA	M	R	1	2	3	4		6	7			10		12	SALEABLE			
KEY A, BLACK, W/ CPA	160111-6074	A-BLK	GCP	PLR	CPA	M	R		2	3	4	5	6	7			10	11	12	SALEABLE			
KEY A, BLACK, W/ CPA	160111-6075	A-BLK	GCP	PLR	CPA	M	R		2	3	4		6	7			10		12	SALEABLE			
KEY A, BLACK, W/ CPA, W/ EX. CLIPSLOT	160111-6076	A-BLK-ECLIP	GCP-ECLIP	PLR	CPA	M	R											11	12	SALEABLE			
KEY A, BLACK, W/ CPA, W/ EX. CLIPSLOT	160111-6077	A-BLK-ECLIP	GCP-ECLIP	PLR	CPA	M	R	1					6	7					12	SALEABLE			
KEY A, BLACK, W/ CPA, W/ EX. CLIPSLOT	160111-6078	A-BLK-ECLIP	GCP-ECLIP	PLR	CPA	M	R						6	7	8			11		SALEABLE			
KEY A, BLACK, W/ CPA	160111-6079	A-BLK	GCP	PLR	CPA	M	R					5	6	7		9	10	11		SALEABLE			
KEY A, BLACK, W/ CPA	160111-6080	A-BLK	GCP	PLR	CPA	M	R	1	2				6	7		9	10			SALEABLE			
KEY A, BLACK, W/ CPA	160111-6081	A-BLK	GCP	PLR	CPA	M	R							7		9		11		SALEABLE			
KEY A, BLACK, W/ CPA	160111-6082	A-BLK	GCP	PLR	CPA	M	R		2	3				7		9				SALEABLE			
KEY A, BLACK, W/ CPA	160111-6083	A-BLK	GCP	PLR	CPA	M	R			3						9				SALEABLE			

FUNCTIONAL SYMBOLS
FA = 0
FC = 0
FP = 0

DIVISIONAL SYMBOLS

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DIMENSION UNITS	SCALE
mm	1:1

GENERAL TOLERANCES (UNLESS SPECIFIED)

ANGULAR TOL	± 0.5°
4 PLACES	±
3 PLACES	
2 PLACES	±
1 PLACE	±
0 PLACES	±

SEE NOTES

DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS

CURRENT REV DESC: SEE REVISION TABLE

STATUS: Production
DRWN: Srikanth CV 2026-02-03
CHK'D: Chaitra D 2026-02-11
APPR: Gurunandan GA 2026-02-11

THIRD ANGLE PROJECTION | DRAWING: D-SIZE | SERIES: 160111

molex

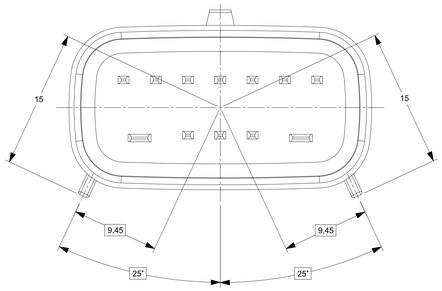
MX150 HYBRID MAT SEAL RCPT CONN ASM

PRODUCT CUSTOMER DRAWING

DOCUMENT NUMBER	DOC TYPE	DOC PART	REVISION
1601110000	PSD	000	F5

MATERIAL NUMBER	CUSTOMER	SHEET NUMBER
SEE TABLE		6 OF 7

SHEET DESCRIPTION
12W HYBRID INTERFACE DEFINITION



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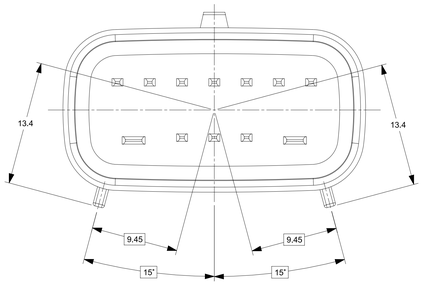

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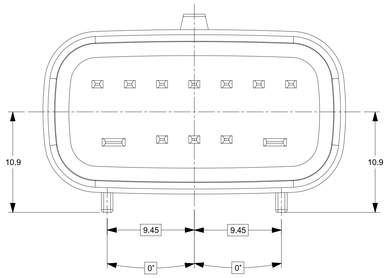

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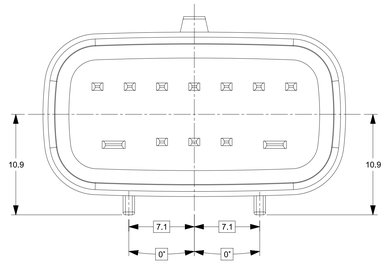

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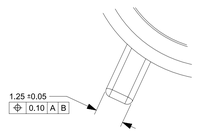
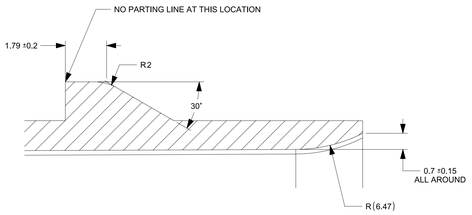
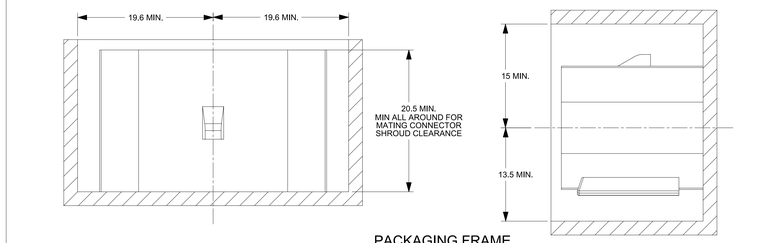


DETAIL L
SCALE 10:1





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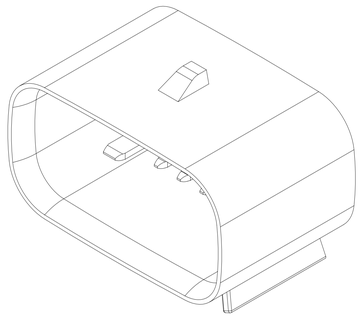
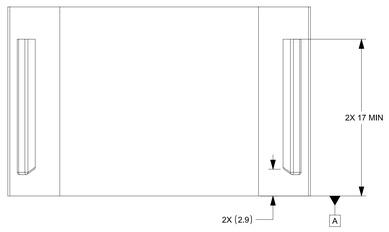
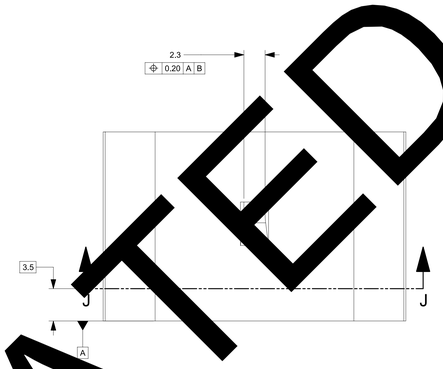
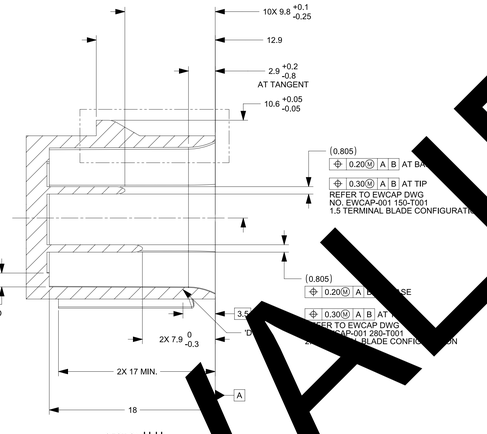
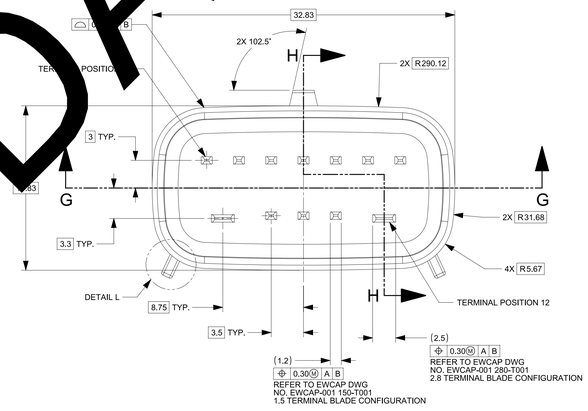


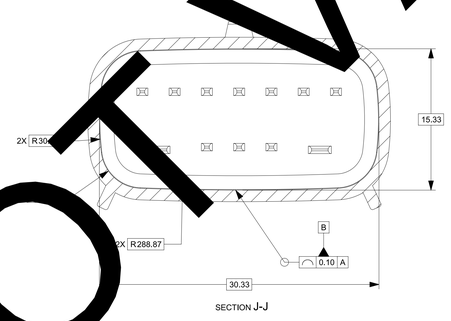




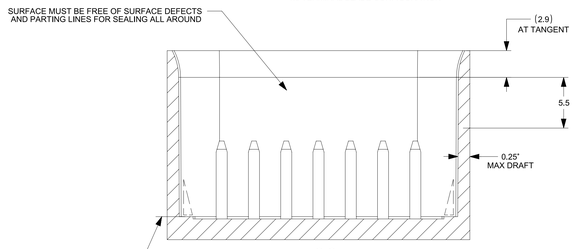


SECTION H-H





SECTION J-J



SECTION G-G

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 ADDTIONAL 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

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 CONNECTOR COLOR

NOTICE

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NOT VALIDATED

FUNCTIONAL SYMBOLS
FA = 0
FC = 0
FP = 0
DIVISIONAL SYMBOLS

DIMENSION UNITS	SCALE
mm	1:1

GENERAL TOLERANCES (UNLESS SPECIFIED)

ANGULAR TOL	± 0.5'
4 PLACES	±
3 PLACES	±
2 PLACES	±
1 PLACE	±
0 PLACES	±

DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS

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STATUS: Production
DRWN: Srikanth CV 2026-02-03
CHK'D: Chaitra D 2026-02-11
APPR: Gurunandan GA 2026-02-11

THIRD ANGLE PROJECTION | DRAWING: E-SIZE | SERIES: 160111 | MATERIAL NUMBER: SEE TABLE | CUSTOMER:

molex

MX150 HYBRID MAT SEAL RCPT CONN ASM

PRODUCT CUSTOMER DRAWING

DOCUMENT NUMBER	DOC TYPE	DOC PART	REVISION
1601110000	PSD	000	F5

SHEET NUMBER: 7 OF 7