

12/16 CKT RING SEAL	RUST RED	INHERENTLY LUBRICATED SILICON
16 CKT PLR	NATURAL	SPS/NYLON GF20
KT HOUSING KEYING OPTION D	STONE GRAY	SPS/NYLON GF20
KT HOUSING KEYING OPTION C	DARK GRAY	SPS/NYLON GF20
KT HOUSING KEYING OPTION B	LIGHT GRAY	SPS/NYLON GF20
KT HOUSING KEYING OPTION A	BLACK	SPS/NYLON GF20
12 CKT PLR	NATURAL	SPS/NYLON GF20
KT HOUSING KEYING OPTION D	STONE GRAY	SPS/NYLON GF20
KT HOUSING KEYING OPTION C	DARK GRAY	SPS/NYLON GF20
KT HOUSING KEYING OPTION B	LIGHT GRAY	SPS/NYLON GF20
KT HOUSING KEYING OPTION A	BLACK	SPS/NYLON GF20
6/8 CKT RING SEAL	LIGHT BLUE	INHERENTLY LUBRICATED SILICON
8 CKT PLR	NATURAL	SPS/NYLON GF20
KT HOUSING KEYING OPTION D	STONE GRAY	SPS/NYLON GF20
KT HOUSING KEYING OPTION C	DARK GRAY	SPS/NYLON GF20
KT HOUSING KEYING OPTION B	LIGHT GRAY	SPS/NYLON GF20
KT HOUSING KEYING OPTION A	BLACK	SPS/NYLON GF20
6 CKT PLR	NATURAL	SPS/NYLON GF20
KT HOUSING KEYING OPTION D	STONE GRAY	SPS/NYLON GF20
KT HOUSING KEYING OPTION C	DARK GRAY	SPS/NYLON GF20
KT HOUSING KEYING OPTION B	LIGHT GRAY	SPS/NYLON GF20
KT HOUSING KEYING OPTION A	BLACK	SPS/NYLON GF20
DESCRIPTION	COLOR	MATERIAL

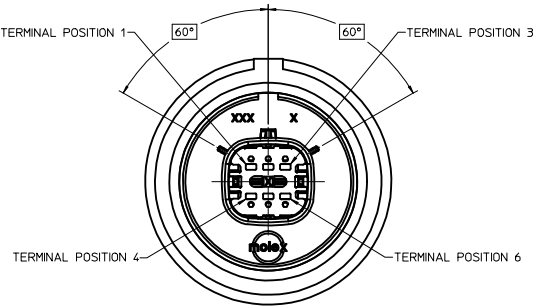
BOM/APPLICABLE COMPONENTS TABLE

SEE REV. COLUMN EC NO: UAUZ2013-0958 DRAWN BY: CHHOK CHKD: APPR: MOSHY 2012/12/10 2012/12/14	QUALITY SYMBOLS	GENERAL TOLERANCES (UNLESS SPECIFIED):		DIMENSION STYLE MM ONLY		SCALE 2:1	DESIGN UNITS METRIC	THIRD ANGLE PROJECTION
	▽=0	mm INCH		DRAWN BY DATE		TITLE		
	▽=0	4 PLACES ± ± ± ±		MDICK 2011/11/22		MX150 DUAL ROW		
	▽=0	3 PLACES ± ± ± ±		CHECKED BY DATE		BULKHEAD TWIST-LOCK		
	▽=0	2 PLACES ± ± 0.10		MYANSLAMBROU 2011/11/22		CONNECTOR ASSEMBLY		
		1 PLACE ± ± 0.20		APPROVED BY DATE		MOLEX INCORPORATED		
		ANGULAR ± 3 °		MATERIAL NO.		DOCUMENT NO.		SHEET NO.
		DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		SEE TABLE		SD-34840-001		2 OF 9
		SIZE D		THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION				

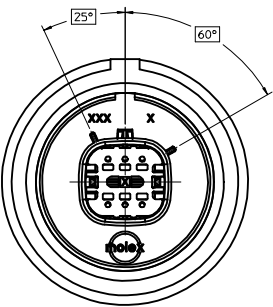
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6 CIRCUIT CONFIGURATIONS

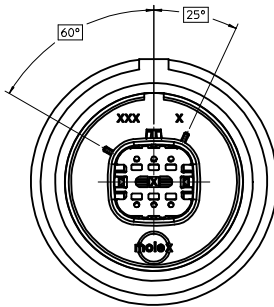
6/8 CKT KEY OPTION CONFIGURATIONS



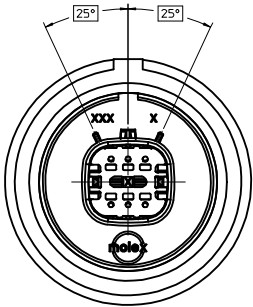
KEY OPTION A



KEY OPTION B

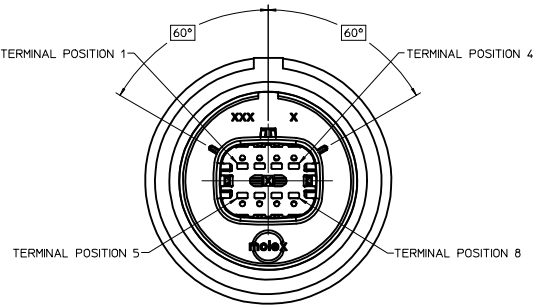


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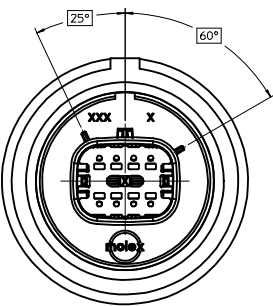


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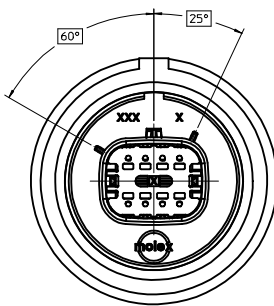
8 CIRCUIT CONFIGURATIONS



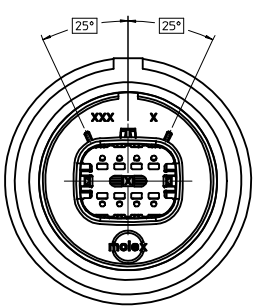
KEY OPTION A



KEY OPTION B



KEY OPTION C



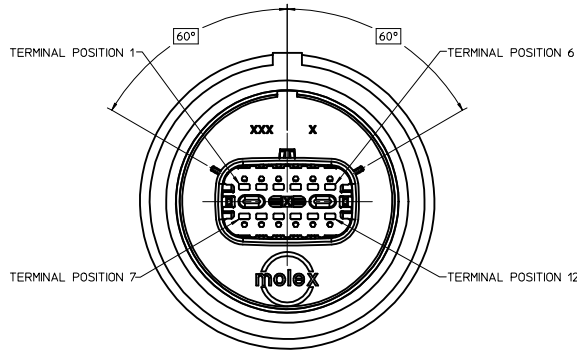
KEY OPTION D

SEE REV. COLUMN EC NO: UAU2013-0858 DRAWN: MDICK CHKD: B3 APPR: WOSHY 2012/12/14	QUALITY SYMBOLS ▽=0 ▽=0 ▽=0	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE MM ONLY		SCALE 2:1	DESIGN UNITS METRIC	 THIRD ANGLE PROJECTION														
		<table><tr><td></td><td>mm</td><td>INCH</td></tr><tr><td>4 PLACES</td><td>± .005</td><td>± .005</td></tr><tr><td>3 PLACES</td><td>± .010</td><td>± .010</td></tr><tr><td>2 PLACES</td><td>± 0.10</td><td></td></tr><tr><td>1 PLACE</td><td>± 0.20</td><td></td></tr></table>			mm	INCH	4 PLACES		± .005	± .005	3 PLACES	± .010	± .010	2 PLACES	± 0.10		1 PLACE	± 0.20		DRAWN BY MDICK	DATE 2011/11/22	TITLE MX150 DUAL ROW BULKHEAD TWIST-LOCK CONNECTOR ASSEMBLY MOLEX INCORPORATED
			mm	INCH																		
		4 PLACES	± .005	± .005																		
		3 PLACES	± .010	± .010																		
		2 PLACES	± 0.10																			
1 PLACE	± 0.20																					
		CHECKED BY MVANSLAMBROU	DATE 2011/11/22																			
		APPROVED BY	DATE																			
ANGULAR ± 3 °																						
DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		MATERIAL NO. SEE TABLE																				
SIZE D	THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION																					
		DOCUMENT NO. SD-34840-001				SHEET NO. 3 OF 9																

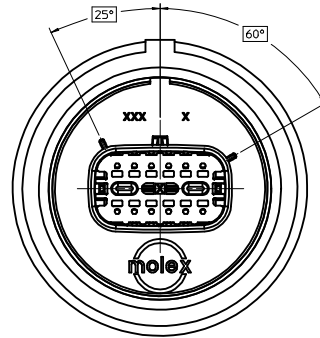
19 18 17 16 15 14 13 12 11 10 9 8 7 6 5 4 3 2 1

12 CIRCUIT CONFIGURATIONS

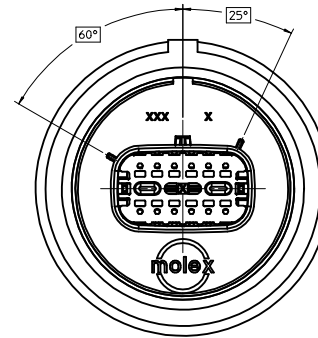
12/16 CKT KEY OPTION CONFIGURATIONS



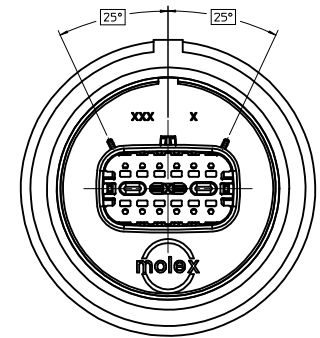
KEY OPTION A



KEY OPTION B

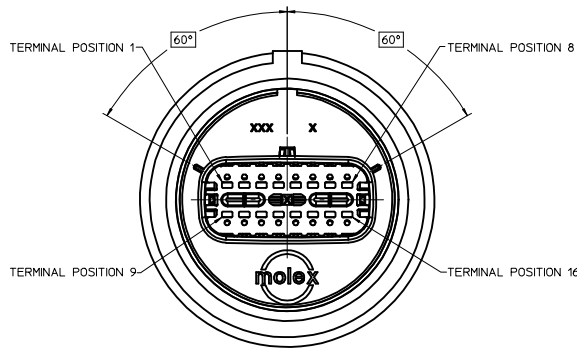


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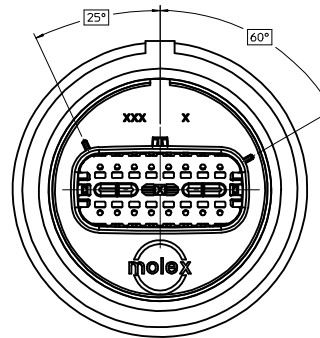


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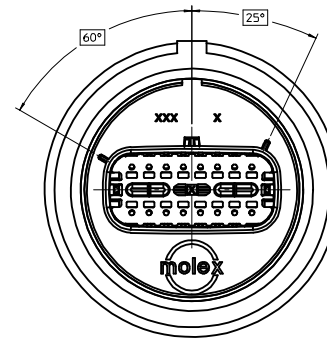
16 CIRCUIT CONFIGURATIONS



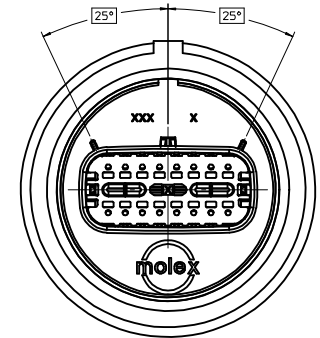
KEY OPTION A



KEY OPTION B



KEY OPTION C

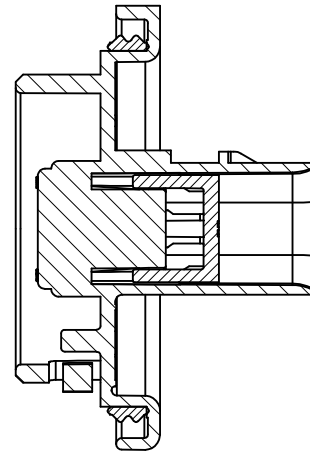
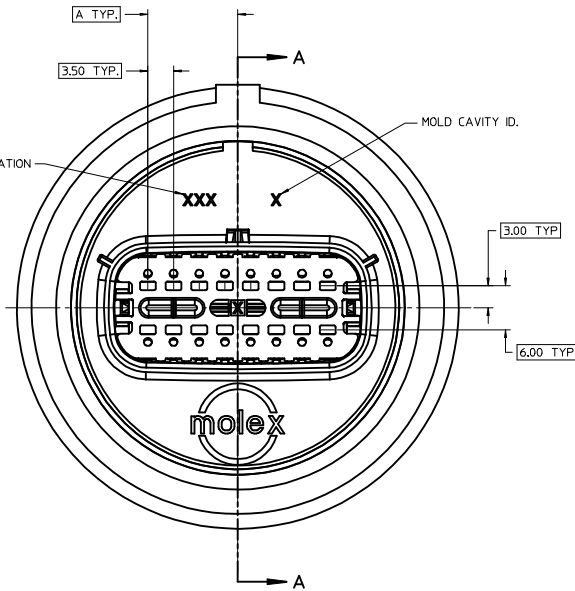
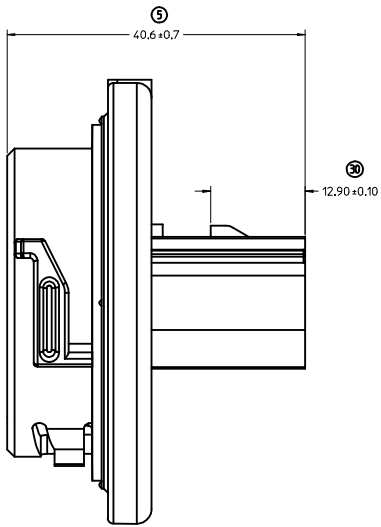


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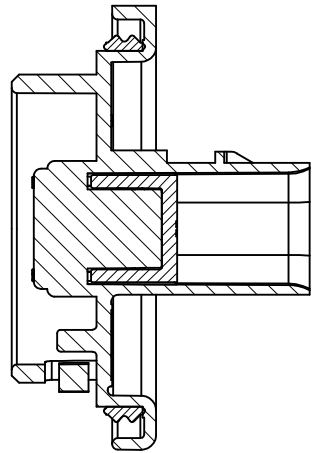
SEE REV. COLUMN EC NO: UAU2013-0858 DRAWN: MDICK CHKD: B3 APPR: WOSHY	2012/12/10 2012/12/14	QUALITY SYMBOLS ▽=0 ▽=0 ▽=0	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE MM ONLY		SCALE 2:1	DESIGN UNITS METRIC	 THIRD ANGLE PROJECTION	
					DRAWN BY DATE		TITLE			
			4 PLACES ± 0		MDICK 2011/11/22		MX150 DUAL ROW BULKHEAD TWIST-LOCK CONNECTOR ASSEMBLY			
			3 PLACES ± 0		CHECKED BY DATE		MOLEX INCORPORATED			
			2 PLACES ± 0.10		MYANSLAMBROU 2011/11/22					
			1 PLACE ± 0.20		APPROVED BY DATE		MOLEX INCORPORATED			
			ANGULAR ± 3 °				MATERIAL NO. DOCUMENT NO.			
			DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		SEE TABLE		SD-34840-001			
					SIZE		SHEET NO. 4 OF 9			
					THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION					

CIRCUIT SIZE	DIMENSIONS	
	A	B
6	3.50	50.3
8	5.25	50.3
12	8.75	60.2
16	12.25	60.2

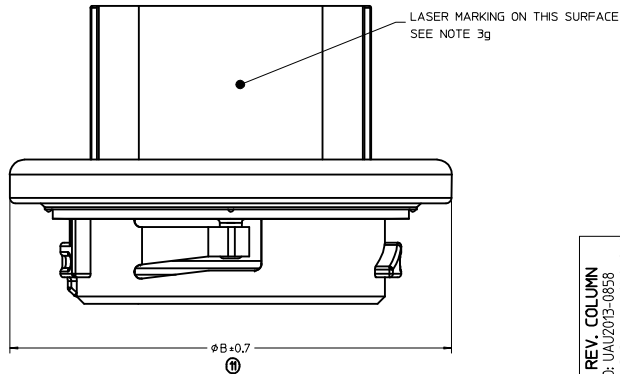
BULKHEAD CONNECTOR



SECTION A-A
PLR SHOWN IN PRE-LOCK POSITION



SECTION A-A
PLR SHOWN IN FINAL-LOCK POSITION



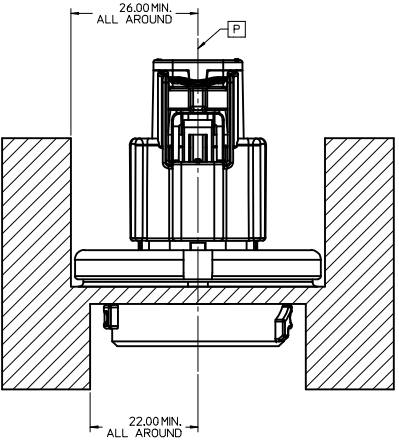
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	▽=0	mm	INCH	DRAWN BY	DATE	TITLE MX150 DUAL ROW BULKHEAD TWIST-LOCK CONNECTOR ASSEMBLY MOLEX INCORPORATED				
	▽=0	4 PLACES ±	---	---	MDICK				2011/11/22	
	▽=0	3 PLACES ±	---	---	CHECKED BY				DATE	
	▽=0	2 PLACES ±	0.10	---	MYANSLAMBROU				2011/11/22	
	▽=0	1 PLACE ±	0.20	---	APPROVED BY				DATE	
	ANGULAR ± 3 °			MATERIAL NO.		DOCUMENT NO.	SHEET NO.			
	DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS			SEE TABLE		SD-34840-001		5 OF 9		
				SIZE D	THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION					

6/8 CKT BULKHEAD CONNECTOR INTERFACE SHEET 1/2

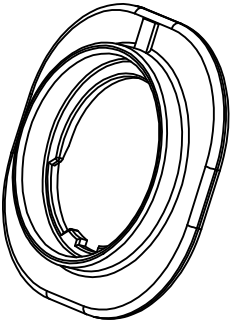
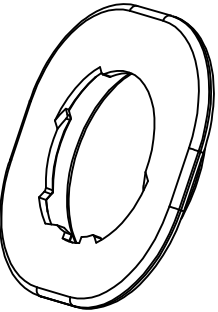
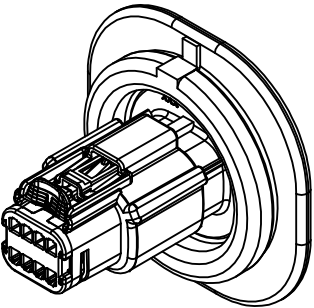
BULKHEAD INTERFACE NOTES: VALID UNLESS OTHERWISE SPECIFIED

1. GENERAL:
- a. DESIGNED TO MATE WITH MOLEX CONNECTOR SERIES # 34840
 - b. ALL DIMENSIONS SHOWN IN MILLIMETERS
2. MATERIALS:
- a. MATERIAL: BLACK TALC FILLED POLYPROPYLENE
PER GMP.PP.030 OR EQUIVALENT
3. GEOMETRY:
- a. THIS IS A 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.
 - b. GEOMETRIC DIMENSIONS AND TOLERANCES PER ASME Y14.5M - 2009
 - c. GENERAL TOLERANCES: SEE TITLE BLOCK
 - d. EDGES AND UNDIMENSIONED DETAILS PER ISO13715
 - e. LOCKED POSITION INDICATOR IS INTENDED TO BE A VISUAL AID TO ENSURE THE BULKHEAD CONNECTOR IS IN THE LOCKED POSITION. THE BULKHEAD CONNECTOR HAS A CORRESPONDING FEATURE THAT WILL ALIGN WITH THE BULKHEAD INTERFACE WHEN FULLY LOCKED
4. MANUFACTURING:
- a. DRAFT TO BE WITHIN TOLERANCE.
PLUS DRAFT - INDICATES DIMENSION REPRESENTS THE SMALLEST SIZE OF A FEATURE. DRAFT WILL ADD MATERIAL.
MINUS DRAFT - INDICATES DIMENSION REPRESENTS THE LARGEST SIZE OF A FEATURE. DRAFT WILL REMOVE MATERIAL.
 - b. ALLOWABLE FLASH MAX 0.20 HIGH BY MAX 0.13 THICK.
 - c. NO PARTING LINES, MISMATCHES OR EJECTOR MARKS PERMISSIBLE WITHIN SEALING SURFACE. SEALING SURFACE TOOLING TO BE PROCESSED TO A SURFACE FINISH OF NTMA #70 (400 PAPER) MINIMUM
 - d. NO EXTERNAL MOLD RELEASE AGENT ALLOWED DURING MANUFACTURING.

IF BULKHEAD INTERFACE IS RECESSED INTO A POCKET, THESE DIMENSIONS REPRESENT THE MINIMUM CLEARANCE REQUIRED FOR THE MATING HARNESS AND BULKHEAD CONNECTOR SHROUDS.

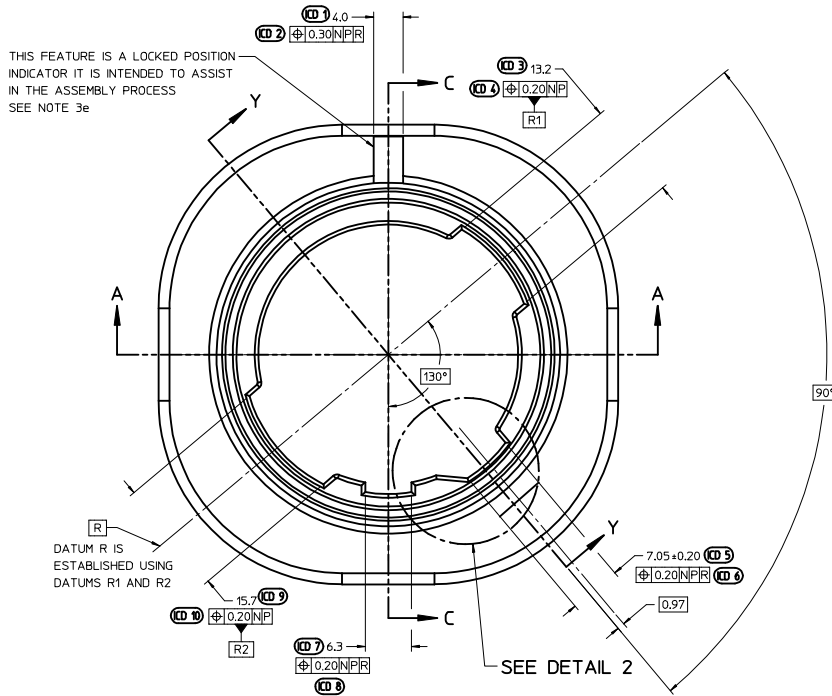


PACKAGING FRAME

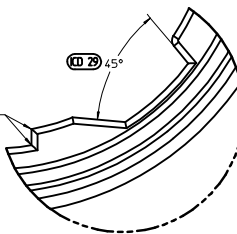


SEE REV. COLUMN EC NO: UAU2013-0858 DRAWN: MDICK CHKD: B3 APPR: VKOSHY DATE: 2012/12/10 DATE: 2012/12/14	QUALITY SYMBOLS	GENERAL TOLERANCES (UNLESS SPECIFIED)	DIMENSION STYLE	SCALE	DESIGN UNITS	THIRD ANGLE PROJECTION
	$\nabla=0$	4 PLACES $\pm$ ---	MM ONLY	2:1	METRIC	
	$\nabla=0$	3 PLACES $\pm$ ---	DRAWN BY DATE			
	$\nabla=0$	2 PLACES ± 0.10	MDICK 2011/11/22			
		1 PLACE ± 0.20	CHECKED BY DATE			
		ANGULAR $\pm 3^\circ$	MVANS LAMBROU 2011/11/22			
			APPROVED BY DATE			
		DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS				
			MATERIAL NO.	SIZE	DOCUMENT NO.	SHEET NO.
			N/A	D	SD-34840-001	6 OF 9
			THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION			

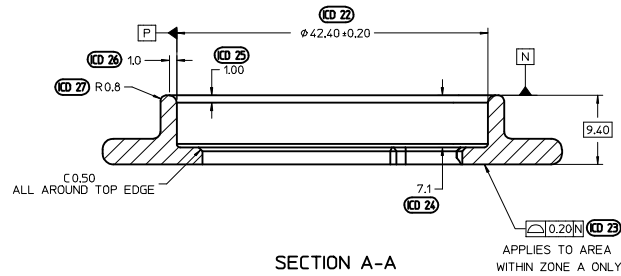
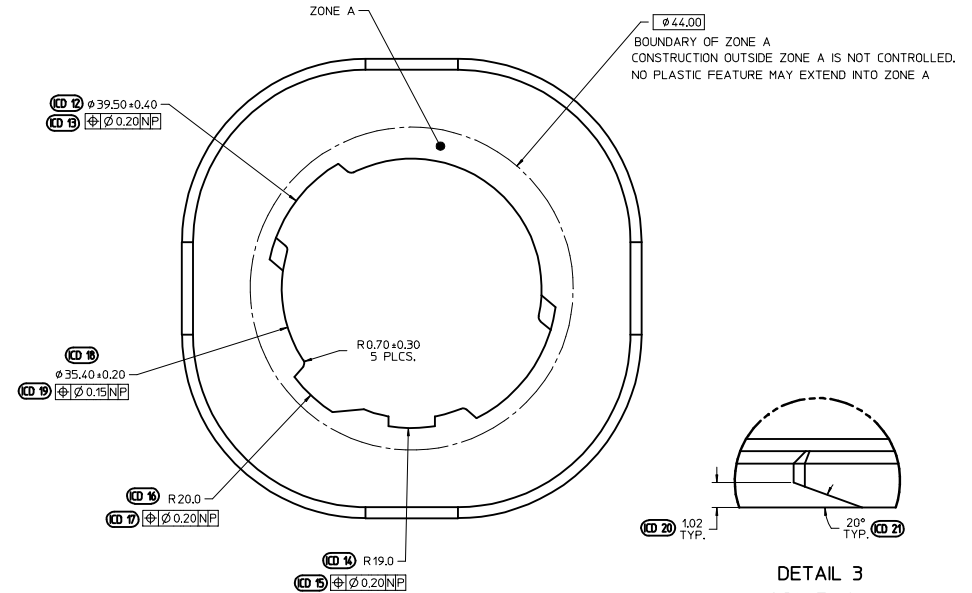
6/8 CKT BULKHEAD CONNECTOR INTERFACE SHEET 2/2



SECTION C-C

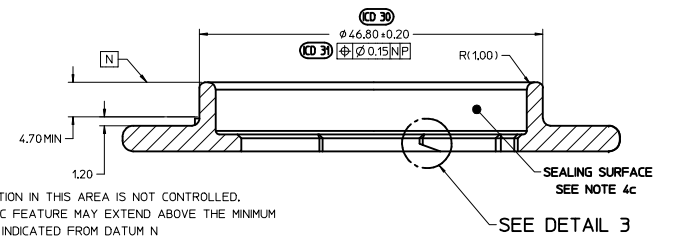


DETAIL 2
SCALE 5:1



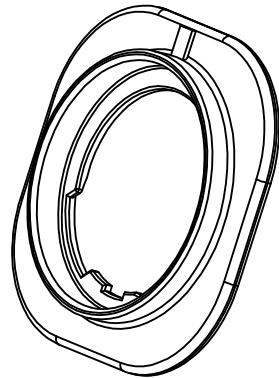
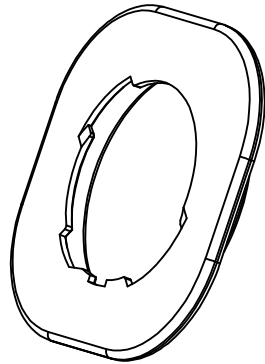
SECTION A-A

CONSTRUCTION IN THIS AREA IS NOT CONTROLLED. NO PLASTIC FEATURE MAY EXTEND ABOVE THE MINIMUM DIMENSION INDICATED FROM DATUM N

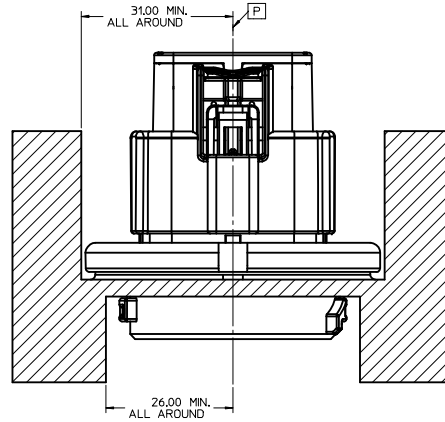


SECTION Y-Y

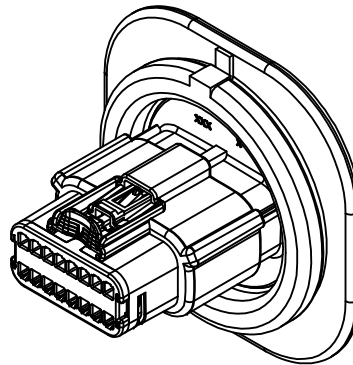
SEE REV. COLUMN EC NO: UAU2013-0858 DRAWN BY: MDICK CHKD: MYANSLAMBROU APPR: WOSHY	2012/12/10	2012/12/14	QUALITY SYMBOLS	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE MM ONLY		SCALE 3:1	DESIGN UNITS METRIC	 THIRD ANGLE PROJECTION
			▽=0	mm INCH		DRAWN BY DATE MDICK 2011/11/22		TITLE MX150 DUAL ROW BULKHEAD TWIST-LOCK CONNECTOR ASSEMBLY		
			▽=0	4 PLACES ± ± ± ±		CHECKED BY DATE MYANSLAMBROU 2011/11/22		MOLEX MOLEX INCORPORATED		
			▽=0	3 PLACES ± ± ± ±		APPROVED BY DATE				
			▽=0	2 PLACES ± 0.10						
				1 PLACE ± 0.20				SD-34840-001		
				ANGULAR ± 3 °						
				DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS						
							MATERIAL NO. N/A		DOCUMENT NO.	
						SIZE D		THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION		



IF BULKHEAD INTERFACE IS RECESSED INTO A POCKET, THESE DIMENSIONS REPRESENT THE MINIMUM CLEARANCE REQUIRED FOR THE MATING HARNESS AND BULKHEAD CONNECTOR SHROUDS.



PACKAGING FRAME



12/16 CKT BULKHEAD CONNECTOR INTERFACE SHEET 1/2

BULKHEAD INTERFACE NOTES: VALID UNLESS OTHERWISE SPECIFIED

1. GENERAL:

- a. DESIGNED TO MATE WITH MOLEX CONNECTOR SERIES # 34840
- b. ALL DIMENSIONS SHOWN IN MILLIMETERS

2. MATERIALS:

- a. MATERIAL: BLACK TALC FILLED POLYPROPYLENE
PER GMP.PP.030 OR EQUIVALENT

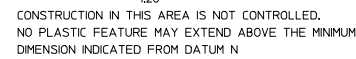
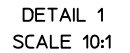
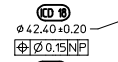
3. GEOMETRY:

- a. THIS IS A 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.
- b. GEOMETRIC DIMENSIONS AND TOLERANCES PER ASME Y14.5M - 2009
- c. GENERAL TOLERANCES: SEE TITLE BLOCK
- d. EDGES AND UNDIMENSIONED DETAILS PER ISO13715
- e. LOCKED POSITION INDICATOR IS INTENDED TO BE A VISUAL AID TO ENSURE THE BULKHEAD CONNECTOR IS IN THE LOCKED POSITION. THE BULKHEAD CONNECTOR HAS A CORRESPONDING FEATURE THAT WILL ALIGN WITH THE BULKHEAD INTERFACE WHEN FULLY LOCKED

4. MANUFACTURING:

- a. DRAFT TO BE WITHIN TOLERANCE.
PLUS DRAFT - INDICATES DIMENSION REPRESENTS THE SMALLEST SIZE OF A FEATURE. DRAFT WILL ADD MATERIAL.
MINUS DRAFT - INDICATES DIMENSION REPRESENTS THE LARGEST SIZE OF A FEATURE. DRAFT WILL REMOVE MATERIAL.
- b. ALLOWABLE FLASH MAX 0.20 HIGH BY MAX 0.13 THICK.
- c. NO PARTING LINES, MISMATCHES OR EJECTOR MARKS PERMISSIBLE WITHIN SEALING SURFACE. SEALING SURFACE TOOLING TO BE PROCESSED TO A SURFACE FINISH OF NTMA #70 (400 PAPER) MINIMUM
- d. NO EXTERNAL MOLD RELEASE AGENT ALLOWED DURING MANUFACTURING.

SEE REV. COLUMN EC NO: UAU2013-0858 DRAWN BY: MDICK CHKD: B3 APPR: WOSHY DATE: 2012/12/10 DATE: 2012/12/14	QUALITY SYMBOLS	GENERAL TOLERANCES (UNLESS SPECIFIED)	DIMENSION STYLE	SCALE	DESIGN UNITS	THIRD ANGLE PROJECTION
	$\nabla=0$	4 PLACES $\pm$ ---	MM ONLY	2:1	METRIC	
	$\nabla=0$	3 PLACES $\pm$ ---	DRAWN BY: MDICK	DATE: 2011/11/22	TITLE: MX150 DUAL ROW BULKHEAD TWIST-LOCK CONNECTOR ASSEMBLY	
	$\nabla=0$	2 PLACES ± 0.10	CHECKED BY: MVANSLAMBROU	DATE: 2011/11/22	MOLEX INCORPORATED	
		1 PLACE ± 0.20	APPROVED BY:	DATE:		
		ANGULAR $\pm 3^\circ$	MATERIAL NO: N/A	DOCUMENT NO: SD-34840-001	SHEET NO: 8 OF 9	
		DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS	SIZE: D	THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION		



tb_frame_D_P_AM_T
Rev. F 2009/06/17