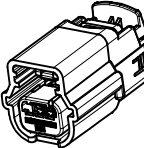
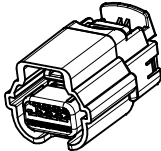


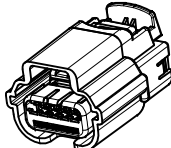
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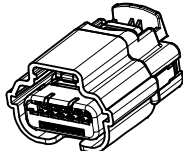
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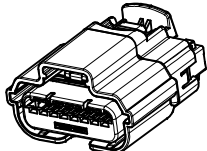
1X4



1X5



1X6



1X8

TABLE OF CONTENTS

SHEET NO.	SHEET DESCRIPTION
1	NOTES AND BOM
2	CONNECTOR ASSEMBLY WITHOUT CLIPSLOT
3	CONNECTOR ASSEMBLY WITH CLIPSLOT
4-5	KEY CONFIGURATIONS
6-8	BOM

NOTES: VALID UNLESS OTHERWISE SPECIFIED

1. GENERAL:

- a. APPLICATION SPECIFICATION SEE: AS-31402-000
- CONTAINS: SEE AS CONTENT
 - DESIGNED TO MATE WITH DEVICE OR CONNECTOR AS SPECIFIED IN THE MATING INTERFACE DRAWINGS CHART.
 - DENOTES DRAWINGS THAT CAN BE ACCESSED AT <<http://ewcap.uscarteams.org/>>.
 - ASSEMBLY SHIPPED WITH PLR IN PRE-LOCK POSITION (SEE PLR PRE-LOCK VIEW ON SHEET 2 SECTION A-A).
- b. PRODUCT RELATED DRAWING REFER TO DRAWING INFORMATION CHART
- c. TPA'S MAY BECOME SEATED DURING TRANSIT, IF THIS OCCURS, TPA'S SHOULD BE MOVED TO THE PRE-LOCKED POSITION PRIOR TO FEMALE TERMINAL INSTALLATION. REFERENCE PRODUCT SPECIFICATION: PS-34646-001
- d. PARTS MUST BE IN COMPLIANCE TO MOLEX CHEMICAL SUBSTANCES FOR PRODUCTS AND PACKAGING SPECIFICATION: QEH5-699000-301
- e. DATA MUST BE SUBMITTED UNDER THE MOLEX PART NUMBER TO IMDS (COMPANY ID#13255)
- f. SYSTEM EXCEPT SERIES 31404 1X8 CIRCUIT TO BE USED WITH OUTSIDE WIRE DIAMETERS RANGING FROM 1.20MM TO 2.06MM WITHIN RANGE OF:
- SAE 22 AWG TO 18 AWG PER ESB-M1L123-A2
 - ISO 0.35MM² TO 0.75MM² PER GMW15626 AND ES-AU5T-1A348-AA
- g. POLARIZATION FEATURE EFFECTIVENESS PER USCAR-2 PARAGRAPH 5.4.4 IS REDUCED WHEN TESTING ALL POLARIZATION OPTIONS: 100N MIN.
- h. SEE SHEET #3 FOR CONNECTOR ASSEMBLY WITH CLIPSLOT
- i. FOR CLIPSLOT CONNECTOR: CLIP OVERHANGS CONNECTOR, PLEASE CHECK APPLICATION (COULD CAUSE WIRE CHAFING)-SHORTER CLIP IS A RECOMMENDATION.

2. DESIGN - GEOMETRY:

- a. THE 3-D CAD DATA IS BASIC (WITHOUT TOLERANCE) AND MASTER FOR THIS PART WITH THE EXCEPTION OF UNDERLINED DIMENSIONS. DIMENSIONAL INFORMATION NOT SHOWN ON THIS DRAWING IS DEFINED BY THE DATA FILE AT ITS LATEST REVISION.
- b. GEOMETRIC DIMENSIONS AND TOLERANCES PER ASME Y14.5M-2009
- c. EDGES AND UNDIMENSIONED DETAILS PER ISO13715
- d. CORNERS SHOWN AS SHARP TO BE R 0.2 MAX.
- e. 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.
- f. VISUAL DEFECTS SHALL MEET COSMETIC STANDARD PS-45499-002 (Class B).
- g. DATE CODE: FIRST TWO DIGITS ARE THE CALENDAR YEAR (EXAMPLE: 04 = 2004). THIRD THROUGH 5TH DIGIT DAY # OF THE CALENDAR YEAR (EXAMPLE: FEB. 3RD = '034').

DRAWING INFORMATION

DESCRIPTION	DRAWING NO.
PRODUCT SPECIFICATION	PS-31402-000 FOR 31404 1X8 REFER TO PS-31404-001-1X8
PACKAGING	PK-31300-256
SALES DRAWING	SD-31402-211 FOR 31404 1X8 REFER TO SD-31404-811
TEST SUMMARY	FOR 1X2 REFER TO TS-31402-001-1X2 FOR 1X3 REFER TO TS-31402-001-1X3 FOR 1X6 REFER TO TS-31402-001-1X6 FOR 31404 1X8 REFER TO TS-31404-001-1X8

MATING INTERFACE DRAWING

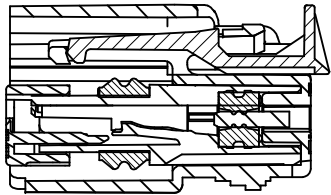
DESCRIPTION	INTERFACE DEFINITION
1X2	#064-S-002-1-Z02
1X3	#064-S-003-1-Z01
1X4	#064-S-004-1-Z02
1X5	#064-S-005-1-Z02
1X6	#064-S-006-1-Z02
1X8	#064-S-008-1-Z02

PART NUMBER LEGEND
CONNECTOR ASSEMBLY

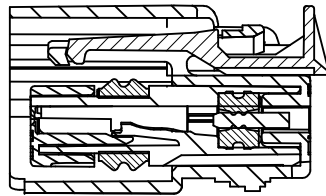
- 3140X-XXXX
- SEAL PLUG CONFIGURATION (AS MOLDED)
 - 0 - ALL CIRCUITS OPEN
 - 1-9 SEE CHART
 - CPA OPTION
 - 0 OR 2 - WITHOUT CPA
 - 1 OR 3 - WITH CPA
 - 4 - WITHOUT CPA, WITH CLIPSLOT
 - 5 - WITH CPA, WITH CLIPSLOT
 - USCAR POLARIZATION OPTION
 - 1 - POLARIZATION OPTION A
 - 2 - POLARIZATION OPTION B
 - 3 - POLARIZATION OPTION C
 - 4 - POLARIZATION OPTION D
 - 5 - POLARIZATION OPTION B, BLACK
 - 6 - POLARIZATION OPTION C, BLACK
 - 7 - POLARIZATION OPTION D, BLACK
 - 8 - POLARIZATION OPTION C, NATURAL
 - 9 - POLARIZATION OPTION D, GRAY
 - CIRCUIT SIZE 2, 3, 4, 5, 6 & 8
 - TERMINAL OPTION
 - 2 - TYCO/MOLEX GET 0.64
 - 3 - MOLEX 0.64
 - ④ 4 - YAZAKI KAIZEN 0.64/TE GEN Y 0.64/JST AIT 0.64

S	ADD P/N: 31402-6131; 31402-6121
R	ADD P/N: 31404-3112; 31404-3102
P	ADD P/N: 31403-3132; 31403-3122
M	ADD P/N: 31402-6118; 31402-6108
L	1. REDRAW SALES DRAWING 2. UPDATE TERMINAL INFORMATION FOR 31404 SERIES 3. ADD P/N: 31403-6212; 31403-6202
REV	REV DESCRIPTION

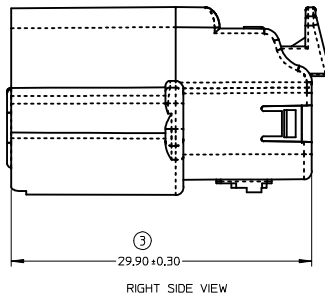
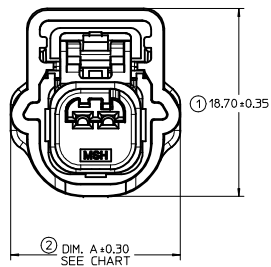
ADD NEW P/N EC NO: UAU2017-0615 DRAWN BY: CHWY CHKD: APPR: JDEG02 REV	QUALITY SYMBOLS ▽=0 ▽=0 ▽=0	GENERAL TOLERANCES (UNLESS SPECIFIED)	DIMENSION STYLE		SCALE	DESIGN UNITS	THIRD ANGLE PROJECTION																			
			MM ONLY		4:1	METRIC																				
			<table><tr><th></th><th>mm</th><th>INCH</th></tr><tr><td>4 PLACES</td><td>± ---</td><td>± ---</td></tr><tr><td>3 PLACES</td><td>± ---</td><td>± ---</td></tr><tr><td>2 PLACES</td><td>± 0.13</td><td>± ---</td></tr><tr><td>1 PLACE</td><td>± 0.3</td><td>± ---</td></tr><tr><td>0 PLACE</td><td>±</td><td>±</td></tr></table>			mm	INCH	4 PLACES	± ---	± ---	3 PLACES	± ---	± ---	2 PLACES	± 0.13	± ---	1 PLACE	± 0.3	± ---	0 PLACE	±	±	DRAWN BY DATE		TITLE	
				mm	INCH																					
			4 PLACES	± ---	± ---																					
3 PLACES	± ---	± ---																								
2 PLACES	± 0.13	± ---																								
1 PLACE	± 0.3	± ---																								
0 PLACE	±	±																								
RCARLSON 2003/09/25		0.64 USCAR CONNECTOR SEALED SINGLE ROW ASSEMBLY																								
CHECKED BY DATE		VKOSHY 2010/11/22		molex		SD-31402-211																				
APPROVED BY DATE		VKOSHY 2010/11/22		DOCUMENT NO.		SHEET NO.																				
MATERIAL NO.		SEE CHART		THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX		1 OF 8																				
DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		SIZE D																								



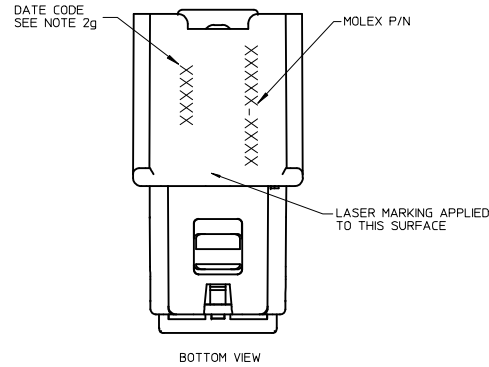
SECTION A-A
TPA SHOWN IN AS-SHIPED
PRE-LOCKED POSITION
SEE NOTE 1c



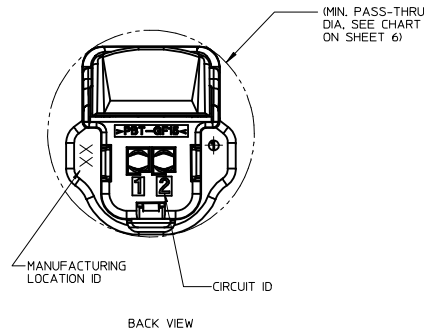
SECTION A-A
TPA SHOWN IN FINAL
LOCKED POSITION



RIGHT SIDE VIEW

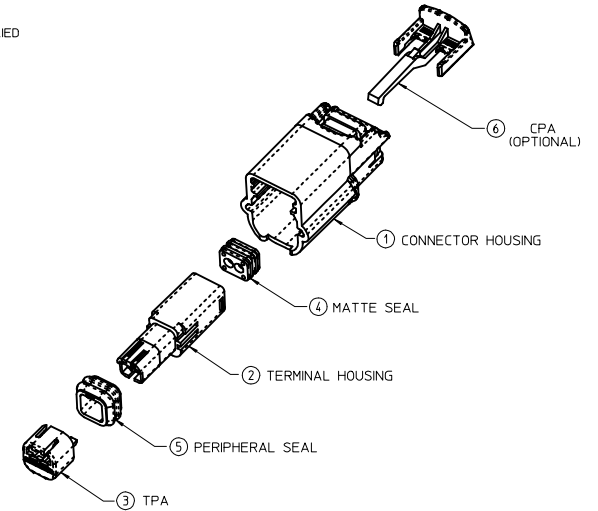


BOTTOM VIEW



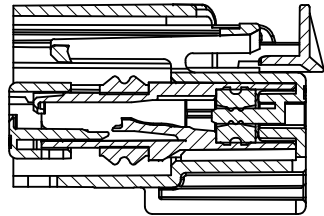
BACK VIEW

CONNECTOR ASSEMBLY WITHOUT CLIPSLOT



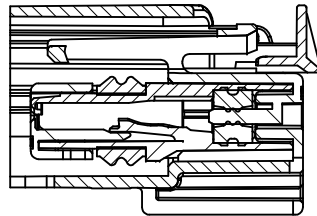
ITEM	DESCRIPTION	COLOR	MATERIAL
1	CONNECTOR HOUSING	SEE CHART	PBT GF15
2	TERMINAL HOUSING	BLACK	SPS/PA66 GF30
3	TPA	NATURAL	SPS/PA66 GF20
4	MATTE SEAL	SEE CHART	SILICONE RUBBER
5	PERIPHERAL SEAL	SEE CHART	SILICONE RUBBER
6	CPA - OPTIONAL	RED	PBT GF30

ADD NEW P/N EC NO: UAU2017-0615 DRAWN BY: 5 CHKD: 5 APPR: IDEN602 REV	QUALITY SYMBOLS ▽=0 ▽=0 ▽=0	DESCRIPTION	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE MM ONLY		SCALE 4:1	DESIGN UNITS METRIC	THIRD ANGLE PROJECTION	TITLE 0.64 USCAR CONNECTOR SEALED SINGLE ROW ASSEMBLY molex DOCUMENT NO. SD-31402-211	SHEET NO. 2 OF 8
			mm	INCH	DRAWN BY	DATE					
			4 PLACES ± ---	± ---	RCARLSON	2003/09/25					
			3 PLACES ± ---	± ---	CHECKED BY	DATE					
			2 PLACES ± 0.13	± ---	RCARLSON	2004/09/28					
			1 PLACE ± 0.3	± ---	APPROVED BY	DATE					
			0 PLACE ±	±	VKOSHY	2010/11/22					
			ANGULAR ± 3°		MATERIAL NO. SEE CHART						
			DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		SIZE A1						
			THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION								



SECTION C-C

TPA SHOWN IN AS-SHIPED
PRE-LOCKED POSITION
SEE NOTE 1c



SECTION C-C

TPA SHOWN IN FINAL
LOCKED POSITION

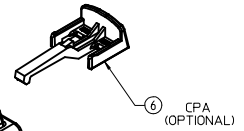
DATE CODE
SEE NOTE 2g

MOLEX P/N

LASER MARKING APPLIED
TO THIS SURFACE

BOTTOM VIEW

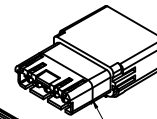
CONNECTOR ASSEMBLY WITH CLIPSLOT



1 CONNECTOR HOUSING



4 MATTE SEAL



2 TERMINAL HOUSING

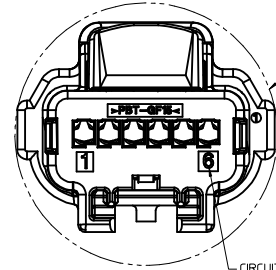


5 PERIPHERAL SEAL



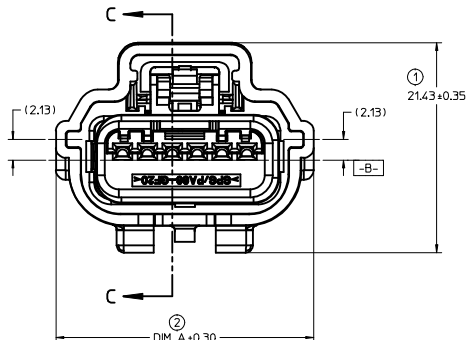
3 TPA

(MIN. PASS-THRU
DIA. SEE CHART
ON SHEET 7)

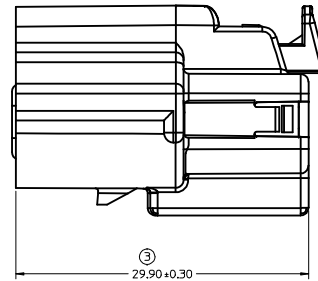


BACK VIEW

CIRCUIT ID



FRONT VIEW
POLARIZATION A

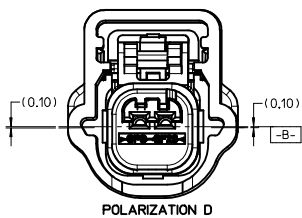
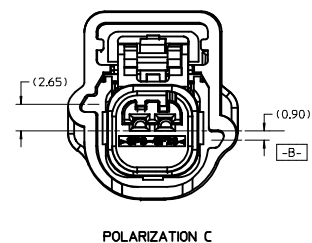
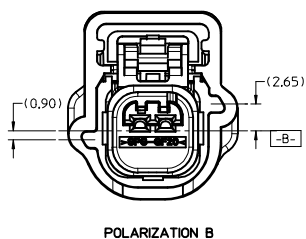
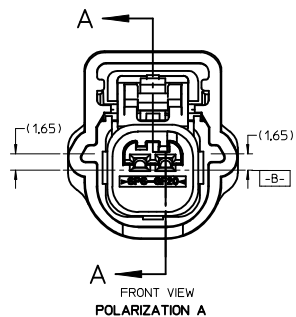


RIGHT SIDE VIEW

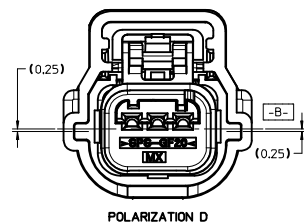
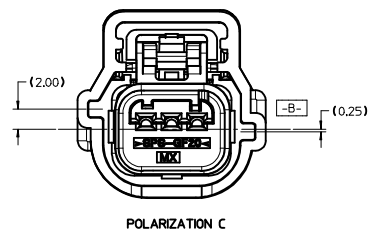
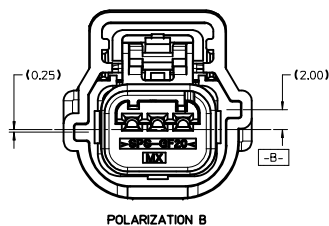
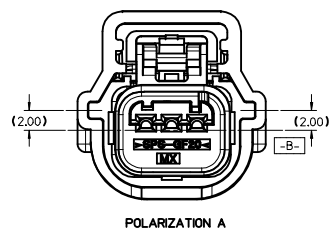
ITEM	DESCRIPTION	COLOR	MATERIAL
1	CONNECTOR HOUSING	SEE CHART	PBT GF15
2	TERMINAL HOUSING	BLACK	SPS/PA66 GF30
3	TPA	NATURAL	SPS/PA66 GF20
4	MATTE SEAL	SEE CHART	SILICONE RUBBER
5	PERIPHERAL SEAL	SEE CHART	SILICONE RUBBER
6	CPA - OPTIONAL	RED	PBT GF30

ADD NEW P/N EC NO: UAU2017-0615 DRAWN BY CHKD: APPR: JENG02 REV	QUALITY SYMBOLS ▽=0 ▽=0 ▽=0	GENERAL TOLERANCES (UNLESS SPECIFIED)	DIMENSION STYLE MM ONLY		SCALE 4:1	DESIGN UNITS METRIC	 THIRD ANGLE PROJECTION	TITLE 0.64 USCAR CONNECTOR SEALED SINGLE ROW ASSEMBLY molex	DOCUMENT NO. SD-31402-211	SHEET NO. 3 OF 8	
			DRAWN BY RCARLSON		DATE 2003/09/25	CHECKED BY RCARLSON					DATE 2004/09/28
			APPROVED BY VKOSHY		DATE 2010/11/22		MATERIAL NO. SEE CHART				
			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				
			ANGULAR ± 3 °								
DESCRIPTION			mm	INCH							
		4 PLACES ±	+	---							
		3 PLACES ±	+	---							
		2 PLACES ±	0.13	---							
		1 PLACE ±	0.3	---							
		0 PLACE ±	±	---							

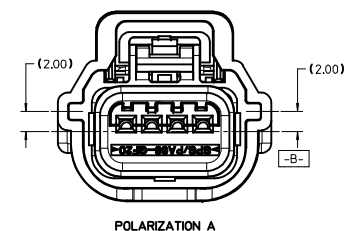
1X2



1X3



1X4



KEY CONFIGURATIONS

ADD NEW P/N

EC NO: UAU2017-0615

DRAWN BY: 2017/01/19

CHKD: 2017/01/23

APPR: JENGO2

DESCRIPTION

QUALITY SYMBOLS

GENERAL TOLERANCES (UNLESS SPECIFIED)

DIMENSION STYLE

SCALE

DESIGN UNITS

THIRD ANGLE PROJECTION

TITLE

DRAWN BY

DATE

CHECKED BY

DATE

APPROVED BY

DATE

MATERIAL NO.

DOCUMENT NO.

SHEET NO.

4 OF 8

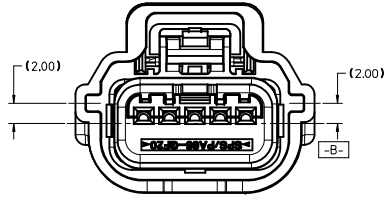
0.64 USCAR CONNECTOR
SEALED SINGLE ROW
ASSEMBLY

molex

SD-31402-211

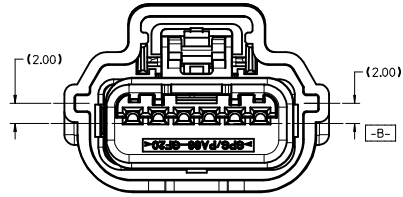
THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX
INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION

1X5

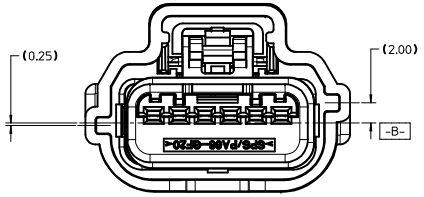


POLARIZATION A

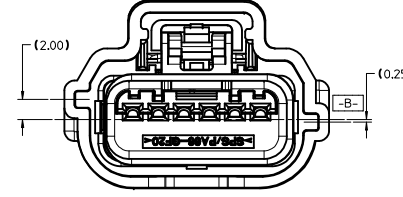
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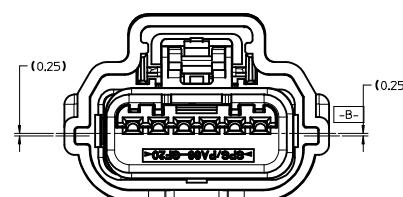
POLARIZATION A



POLARIZATION B

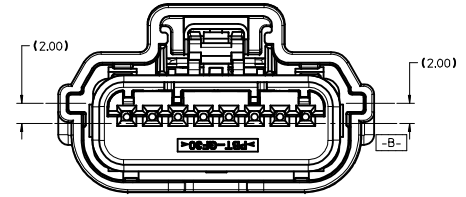


POLARIZATION C

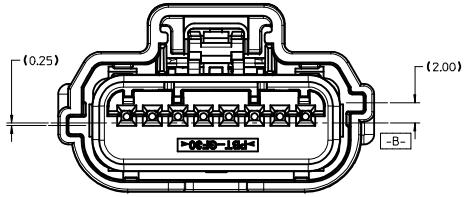


POLARIZATION D

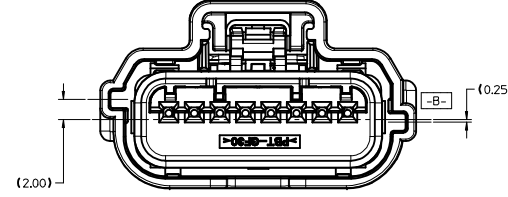
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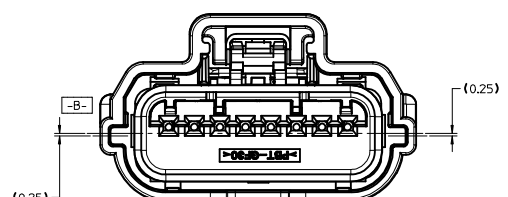
POLARIZATION A



POLARIZATION B



POLARIZATION C



POLARIZATION D

KEY CONFIGURATIONS

ADD NEW P/N EC NO: UAU2017-0615 DRAWN BY: S CHKD: S APPR: JDEG02 REV	QUALITY SYMBOLS ▽=0 ▽=0 ▽=0	DESCRIPTION 2017/01/19 2017/01/23	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE MM ONLY		SCALE 4:1	DESIGN UNITS METRIC	 THIRD ANGLE PROJECTION
							TITLE		
							0.64 USCAR CONNECTOR SEALED SINGLE ROW ASSEMBLY		
							molex		
							DOCUMENT NO. SD-31402-211		
							SHEET NO. 5 OF 8		

Ib_frame_D_P_AM_T
Rev. G 2012/01/11

20 19 18 17 16 15 14 13 12 11 10 9 8 7 6 5 4 3 2 1

PART NUMBER WITHOUT CPA	PART NUMBER WITH CPA	CLIPSLOT OPTION	ROW/ CIRCUITS	KEY*	MATTE SEAL COLOR	PERMETER SEAL COLOR	CONNECTOR COLOR	WIDTH DIM (A)	MIN. PASS THRU DIA.	FEMALE TERMINAL SUPPLIER	USCAR FOOTPRINT DRAWING NO.	STATUS
31402-5100	31402-5110	NO	1 X 5	A	TBD	TBD	BLACK	23.80	(24.28)	TYCO OR MOLEX GET 0.64	064-S-005-1-Z02	NOT TOOLED
31402-5200	31402-5210			B			GRAY					NOT TOOLED
31402-5300	31402-5310			C			BROWN					NOT TOOLED
31402-5400	31402-5410			D			GREEN					NOT TOOLED
31402-5500	31402-5510			B			BLACK					NOT TOOLED
31402-5600	31402-5610			C			BLACK					NOT TOOLED
31402-5700	31402-5710			D			BLACK					NOT TOOLED
31403-5100	31403-5110			A			BLACK			MOLEX 0.64		NOT TOOLED
31403-5200	31403-5210			B			GRAY					NOT TOOLED
31403-5300	31403-5310			C			BROWN					NOT TOOLED
31403-5400	31403-5410			D			GREEN					NOT TOOLED
31403-5500	31403-5510			B			BLACK					NOT TOOLED
31403-5600	31403-5610			C			BLACK					NOT TOOLED
31403-5700	31403-5710			D			BLACK					NOT TOOLED
31404-5100	31404-5110			A			BLACK			YAZAKI KAIZEN 0.64 TE GEN Y 0.64 JST AIT 0.64		NOT TOOLED
31404-5200	31404-5210			B			GRAY					NOT TOOLED
31404-5300	31404-5310			C			BROWN					NOT TOOLED
31404-5400	31404-5410			D			GREEN					NOT TOOLED
31404-5500	31404-5510			B			BLACK					NOT TOOLED
31404-5600	31404-5610			C			BLACK					NOT TOOLED
31404-5700	31404-5710			D			BLACK					NOT TOOLED
31402-6100	31402-6110	NO	1 X 6	A	ROYAL BLUE	LIGHT BLUE	BLACK	26.33	(26.82)	TYCO OR MOLEX GET 0.64	064-S-006-1-Z02	TOOLED
31402-6200	31402-6210			B			GRAY					TOOLED, COLOR UNAVAILABLE
31402-6300	31402-6310			C			BROWN					TOOLED, COLOR UNAVAILABLE
31402-6400	31402-6410			D			GREEN					TOOLED
31402-6500	31402-6510			B			BLACK					TOOLED
31402-6600	31402-6610			C			BLACK					TOOLED
31402-6700	31402-6710			D			BLACK					TOOLED
31403-6100	31403-6110			A			BLACK			MOLEX 0.64		TOOLED
31403-6200	31403-6210			B			GRAY					TOOLED
31403-6300	31403-6310			C			BROWN					TOOLED, COLOR UNAVAILABLE
31403-6400	31403-6410			D			GREEN					TOOLED, COLOR UNAVAILABLE
31403-6500	31403-6510			B			BLACK					TOOLED
31403-6600	31403-6610			C			BLACK					TOOLED
31403-6700	31403-6710			D			BLACK					TOOLED
31404-6100	31404-6110			A			BLACK			YAZAKI KAIZEN 0.64 TE GEN Y 0.64 JST AIT 0.64		TOOLED
31404-6200	31404-6210			B			GRAY					TOOLED
31404-6300	31404-6310			C			BROWN					TOOLED, COLOR UNAVAILABLE
31404-6400	31404-6410			D			GREEN					TOOLED, COLOR UNAVAILABLE
31404-6500	31404-6510			B			BLACK					TOOLED
31404-6600	31404-6610			C			BLACK					TOOLED
31404-6700	31404-6710			D			BLACK					TOOLED
31404-6800	31404-6810	C	NATURAL	TOOLED								

ADD NEW P/N EC NO. UAU2017-0615 2017/01/19 DRAWN BY CHKO CHKD: APPR: JDENG02 2017/01/23 REV DESCRIPTION	QUALITY SYMBOLS	GENERAL TOLERANCES (UNLESS SPECIFIED)	DIMENSION STYLE MM ONLY	SCALE 4:1	DESIGN UNITS METRIC	THIRD ANGLE PROJECTION
	▽=0	4 PLACES ± ---	mm	DRAWN BY RCARLSON	DATE 2003/09/25	TITLE 0.64 USCAR CONNECTOR SEALED SINGLE ROW ASSEMBLY molex
	▽=0	3 PLACES ± ---	INCH	CHECKED BY RCARLSON	DATE 2004/09/28	
	▽=0	2 PLACES ± 0.13	± ---	APPROVED BY VKOSHY	DATE 2010/11/22	
ANGULAR ± 3 °		MATERIAL NO.		DOCUMENT NO.		SHEET NO.
DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		SEE CHART		SD-31402-211		7 OF 8
THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION						

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