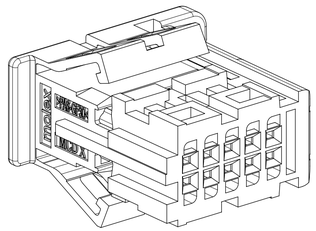
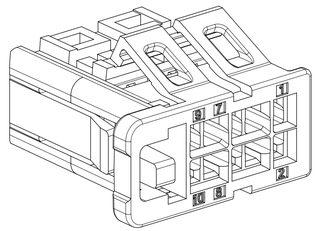
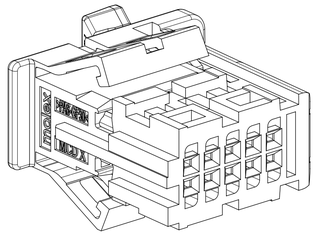
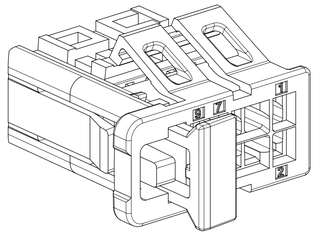
RECEPTACLE ONLY
10CKT SHOWN:



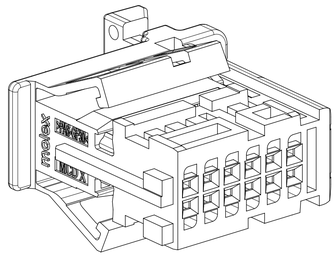


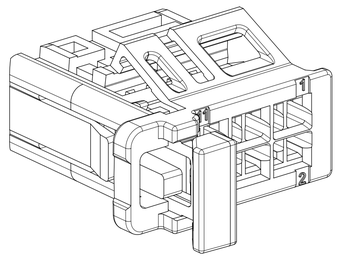
RECEPTACLE WITH LARGE CPA
10CKT SHOWN, 8 USABLE CIRCUITS





RECEPTACLE WITH SMALL CPA
12CKT SHOWN, 12 USABLE CIRCUITS





CIRCUIT SIZE	DIM A	DIM B	DIM C	KEY	COLOR	RECEPTACLE ONLY PART NUMBER	RECEPTACLE ONLY USABLE CIRCUITS	WEIGHT (g)	RECEPTACLE WITH LARGE CPA PART NUMBER	RECEPTACLE WITH LARGE CPA USABLE CIRCUITS	RECEPTACLE WITH LARGE CPA WEIGHT (g)	RECEPTACLE WITH LARGE CPA PART STATUS	RECEPTACLE WITH SMALL CPA PART NUMBER	RECEPTACLE WITH SMALL CPA USABLE CIRCUITS	RECEPTACLE WITH SMALL CPA WEIGHT (g)	RECEPTACLE WITH SMALL CPA PART STATUS
10	15.96	12.88	2.90	A	BLACK	2058252101	10	1.01	2058264081	8	1.12	AVAILABLE	2058262101	10	1.11	AVAILABLE
				B	NATURAL	2058252102	10	1.01	2058264082	8	1.12		2058262102	10	1.11	
				C	BLUE	2058252103	10	1.01	2058264083	8	1.12		2058262103	10	1.11	
				D	VIOLET	2058252104	10	1.01	2058264084	8	1.12		2058262104	10	1.11	
12	17.76	14.68	3.80	A	BLACK	2058252121	12	1.13	N/A				2058262121	12	1.23	AVAILABLE
				B	NATURAL	2058252122	12	1.13					2058262122	12	1.23	
				C	BLUE	2058252123	12	1.13					2058262123	12	1.23	
				D	VIOLET	2058252124	12	1.13					2058262124	12	1.23	
16	21.36	18.28	5.60	A	BLACK	2058252161	16	1.38	N/A				2058262161	16	1.49	AVAILABLE
				B	NATURAL	2058252162	16	1.38					2058262162	16	1.49	
				C	BLUE	2058252163	16	1.38					2058262163	16	1.49	
				D	VIOLET	2058252164	16	1.38					2058262164	16	1.49	
18	23.16	20.08	6.50	A	BLACK	2058252181	18	1.51	N/A				2058262181	18	1.62	AVAILABLE
				B	NATURAL	2058252182	18	1.51					2058262182	18	1.62	
				C	BLUE	2058252183	18	1.51					2058262183	18	1.62	
				D	VIOLET	2058252184	18	1.51					2058262184	18	1.62	
22	26.76	23.68	8.30	A	BLACK	2058252221	22	1.85	2058264201	20	1.96	AVAILABLE	2058262221	22	1.95	AVAILABLE
				B	NATURAL	2058252222	22	1.85	2058264202	20	1.96		2058262222	22	1.95	
				C	BLUE	2058252223	22	1.85	2058264203	20	1.96		2058262223	22	1.95	
				D	VIOLET	2058252224	22	1.85	2058264204	20	1.96		2058262224	22	1.95	

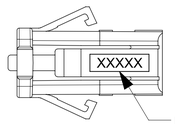
NOTES:

VALID UNLESS OTHERWISE SPECIFIED

1. GENERAL:
   - 1.1 APPLICATION SPECIFICATION SEE: 2046310000-AS
   - 1.2 PRODUCT SPECIFICATION SEE: 2046310000-PS
   - 1.3 PACKAGING SPECIFICATION PER MOLEX DRAWING: PK-31301-695
   - 1.4 COMPATIBLE WITH STANDARD AK INTERFACE DRAWING C-114-94000-20 REV A1
   - 1.5 COMPATIBLE WITH MOLEX AK INTERFACE 2046310002
   - 1.6 TOLERANCES APPLY IN DRY AS MOLDED STATE ONLY

2. DESIGN - MATERIALS:
   - 2.1 RECEPTACLE HOUSING:
     - a. MATERIAL: PA6-GF30%
     - b. COLOR: SEE PART TABLE
   - 2.2 CPA
     - a. MATERIAL: PA6-GF30%
     - b. COLOR: RED

3. DESIGN - GEOMETRY:
   - 3.1 GEOMETRIC DIMENSIONS AND TOLERANCES PER ASME Y14.5-2018
   - 3.2 EDGES AND UNDIMENSIONED DETAILS PER ISO13715
   - 3.3 CORNERS SHOWN AS SHARP TO BE R 0.2 MAX.
   - 3.4 MARKED TEXT TO INCLUDE:
     - a. FOR RECEPTACLE COMPONENT: RECYCLING CODE, CAVITY ID, AND VENDOR IDENTIFICATION.
     - b. FOR ASSEMBLY ONLY: LASER ETCHED DATE CODE
       1ST THROUGH 2ND DIGIT = CALENDAR YEAR
       3RD THROUGH 5TH DIGIT = "DAY #" OF YEAR



B6	UPDATED FOR 10CKT/18CKT/22CKT STATUS WITH AVAILABLE
B5	SHEET 1 ADDED WEIGHTS TO BOM TABLE
B4	UPDATED FOR 10CKT/22CKT WITH SMALL CPA
B3	UPDATED FOR SMALL CPA & 12/16CKT
B2	CHANGED COLOR OF KEY B FROM GREY TO NATURAL IN THE BOM TABLE
B1	ADDED NOTE 1.7; INTERNAL GEOMETRY CHANGES; REMOVED DIM 2
B	RAISED LATCH PAD ADDED; CPA MAX DIMENSIONS ADJUSTED; BALLOON NUMBERS ADDED; NOTES MODIFIED; CPA COLOR CHANGE
A5	NON FUNCTIONAL CHANGES
REV	DESCRIPTION

INSPECTION BALLOON NUMBER LOG
PER DRAWING REVISION: B5
LAST BALLOON USED: 24
ADDED BALLOON NUMBERS: 23, 24
REMOVED BALLOON NUMBERS:

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	SCALE
MM	5:1

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

CURRENT REV DESC: Update 10/18/22w status and part weight

STATUS: Production
DRWN: Kenneth Dai 2025-10-19
CHK'D: Nick Wang 2025-12-02
APPR: Ringo Hu 2025-12-04

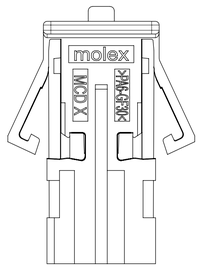
THIRD ANGLE PROJECTION | DRAWING: D-SIZE | SERIES: 205825 | MATERIAL NUMBER: SEE NOTES | CUSTOMER: GENERAL MARKET | SHEET NUMBER: 1 OF 2

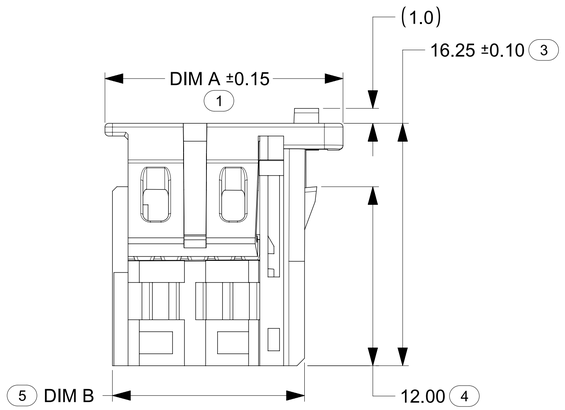
molex

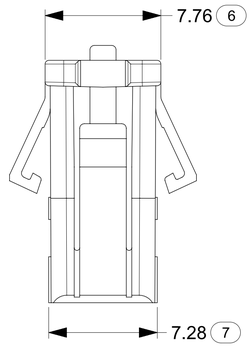
CONNTAK50 DUAL ROW TANG RECEPTACLE RECEPTACLE/CPA ASSEMBLY

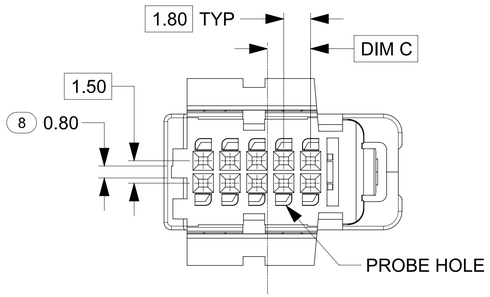
PRODUCT CUSTOMER DRAWING

DOCUMENT NUMBER	DOC TYPE	DOC PART	REVISION
2058250002	PSD	000	B6

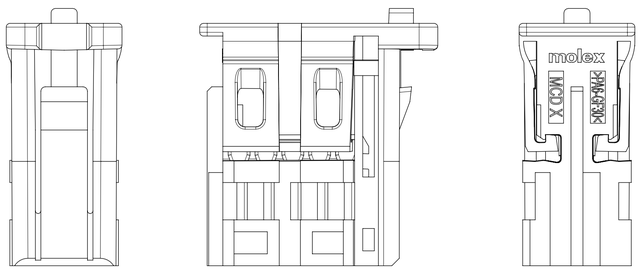






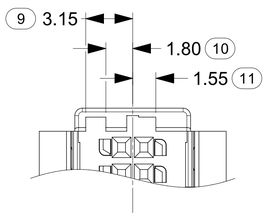


ISL IN FINAL LOCK

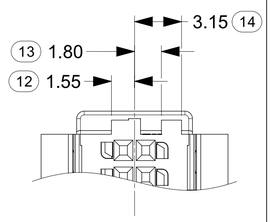


KEYS / POLARIZATIONS / CODINGS

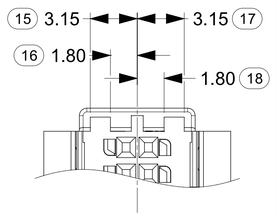
KEY A



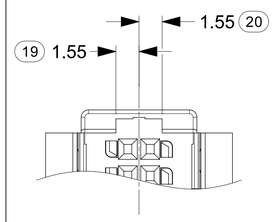
KEY B



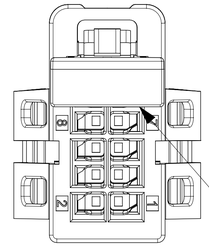
KEY C



KEY D

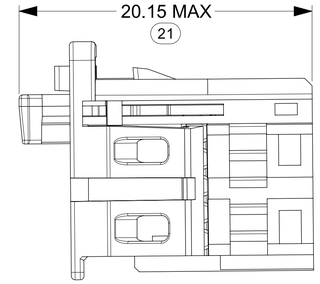


LARGE CPA:

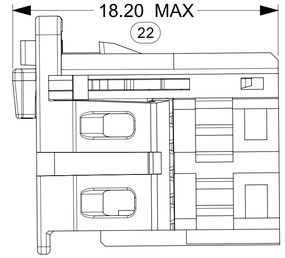


NOTE: 2 CIRCUITS UNAVAILABLE WHEN LARGE CPA IS USED

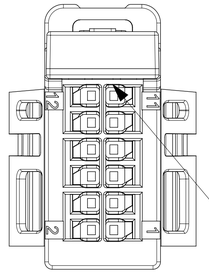
CPA IN PRE-LOCK (AS DELIVERED)



CPA IN FINAL LOCK

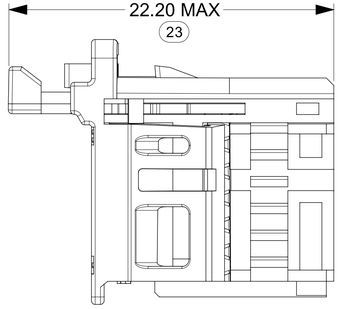


SMALL CPA:

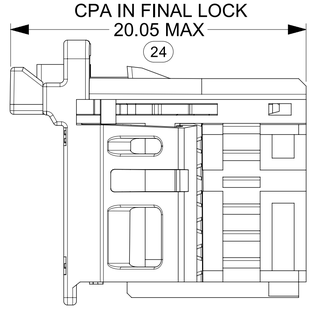


NOTE: ALL CIRCUITS AVAILABLE WHEN SMALL CPA IS USED

CPA IN PRE-LOCK (AS DELIVERED)



CPA IN FINAL LOCK



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: 5:1
FC = 0	GENERAL TOLERANCES (UNLESS SPECIFIED): ANGULAR TOL ± 0.5°; 4 PLACES ±; 3 PLACES ±; 2 PLACES ±; 1 PLACE ±; 0 PLACES ±
FP = 0	DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS
DIVISIONAL SYMBOLS	

CURRENT REV DESC: Update 10/18/22w status and part weight

STATUS: Production

DRWN: Kenneth Dai 2025-10-19

CHK'D: Nick Wang 2025-12-02

APPR: Ringo Hu 2025-12-04

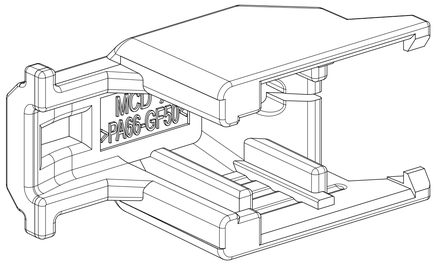
molex

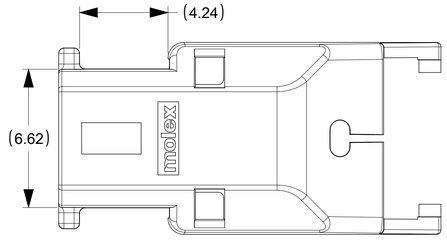
CONNTAK50 DUAL ROW TANG RECEPTACLE RECEPTACLE/CPA ASSEMBLY

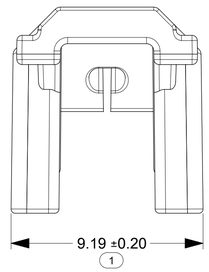
PRODUCT CUSTOMER DRAWING

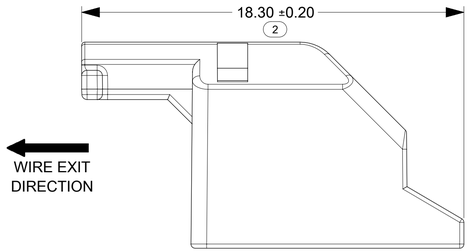
THIRD ANGLE PROJECTION	DRAWING	SERIES	MATERIAL NUMBER	CUSTOMER	SHEET NUMBER
	D-SIZE	205825	SEE NOTES	GENERAL MARKET	2 OF 2

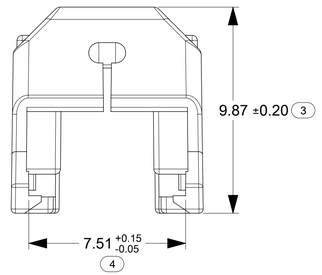
DOCUMENT NUMBER	DOC TYPE	DOC PART	REVISION
2058250002	PSD	000	B6

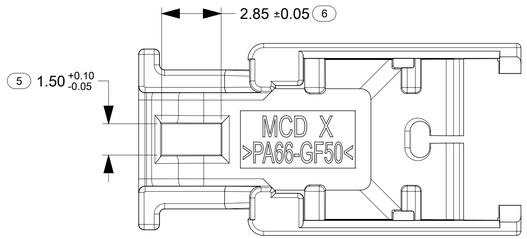












NOTES:

1. GENERAL:
   - 1.1 PRODUCT SPECIFICATION: 2046310000-PS
   - 1.2 TEST SUMMARY: 2046310204-TS
   - 1.3 APPLICATION SPECIFICATION: 2046310000-AS
   - 1.4 PACKAGING SPECIFICATION: PK-31301-898
   - 1.5 COSMETIC SPECIFICATION: PS-45499-002 CLASS B
   - 1.6 GEOMETRIC TOLERANCES: ASME Y14.5-2018
   - 1.7 ATTACHES TO: SEE COMPATIBLE PARTS TABLE
   - 1.8 COVER IS COMPATIBLE WITH AND WITHOUT CPA

2. MATERIALS:
   - 2.1 HOUSING MATERIAL: PA66-GF50

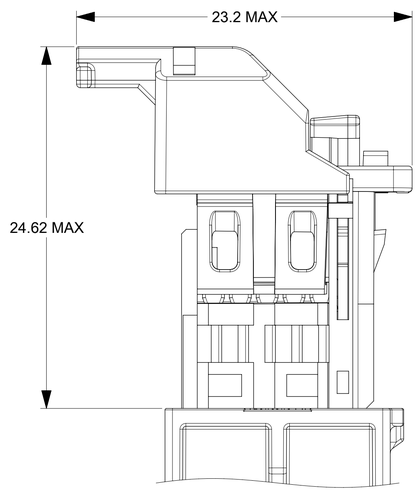
PRODUCT PART NUMBER:

PRODUCT PART NUMBER	DESCRIPTION	COLOR
2058267100	CONNTAK50 DUAL ROW 10CKT INTERFACE (8CKT WITH CPA) WIRE DRESS COVER	BLACK

COMPATIBLE PARTS TABLE:

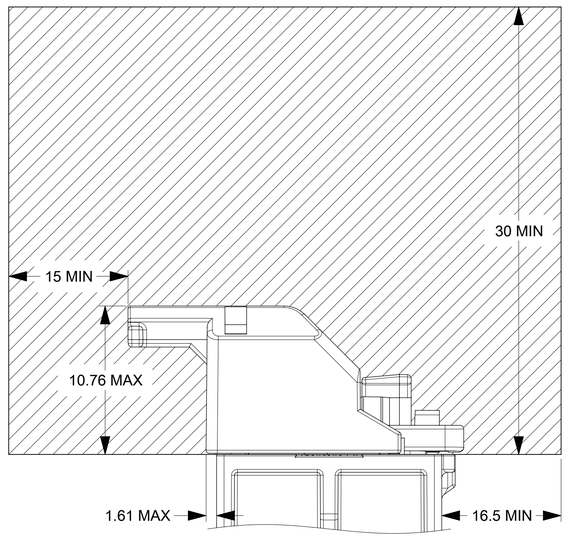
COMPATIBLE PART NUMBER	DESCRIPTION	INTERFACE CKT SIZE
2058252101	CONNTAK50 10CKT RECEPTACLE - KEY A	10 CKTS
2058252102	CONNTAK50 10CKT RECEPTACLE - KEY B	10 CKTS
2058252103	CONNTAK50 10CKT RECEPTACLE - KEY C	10 CKTS
2058252104	CONNTAK50 10CKT RECEPTACLE - KEY D	10 CKTS
2058264081	CONNTAK50 8CKT RECEPTACLE WITH CPA - KEY A	10 CKTS
2058264082	CONNTAK50 8CKT RECEPTACLE WITH CPA - KEY B	10 CKTS
2058264083	CONNTAK50 8CKT RECEPTACLE WITH CPA - KEY C	10 CKTS
2058264084	CONNTAK50 8CKT RECEPTACLE WITH CPA - KEY D	10 CKTS

DIMENSIONS ON HEADER BEFORE MATING

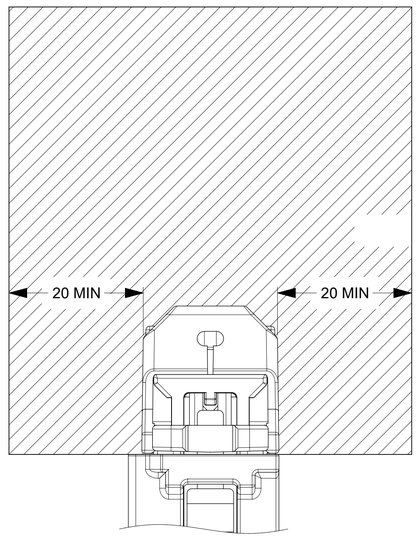


SCALE 5:1

RECOMMENDED MINIMUM CLEARANCES TO UNMATE HARNESS CONNECTOR



SCALE 5:1



SCALE 5:1

DOCUMENT STATUS	P1	RELEASE DATE	2021/04/30 21:05:51

INSPECTION BALLOON LOG		
PER DRAWING REVISION: A1		
TOTAL BALLOONS: 6		
ADDED BALLOONG NUMBERS:	A1	ADDED PRODUCT PART NUMBER TABLE
	A	INITIAL RELEASE
REMOVED BALLOON NUMBERS:	REV	DESCRIPTION

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

DIMENSION UNITS	SCALE
mm	7:1

GENERAL TOLERANCES (UNLESS SPECIFIED)

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

DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS

CURRENT REV DESC:

EC NO: 662598
DRWN: ECOLARUSSO 2021/04/30
CHK'D: KHEWITT 2021/04/30
APPR: JDUNAJ 2021/04/30

INITIAL REVISION:
DRWN: ECOLARUSSO 2021/02/23
APPR: JDUNAJ 2021/02/23

molex

CONNTAK50 8/10CKT WIRE DRESS COVER

PRODUCT CUSTOMER DRAWING

DOCUMENT NUMBER	DOC TYPE	DOC PART	REVISION
2058267100-SD	PSD	000	A1

THIRD ANGLE PROJECTION	DRAWING	SERIES	MATERIAL NUMBER	CUSTOMER	SHEET NUMBER
	D-SIZE	205826	SEE TABLE	GENERAL MARKET	1 OF 1

FORMAT: master-tb-prod-D
TEMPLATE: 000000-01
DATE: 2020/01/14