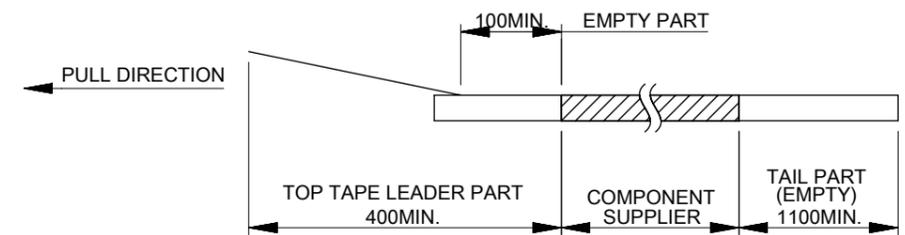
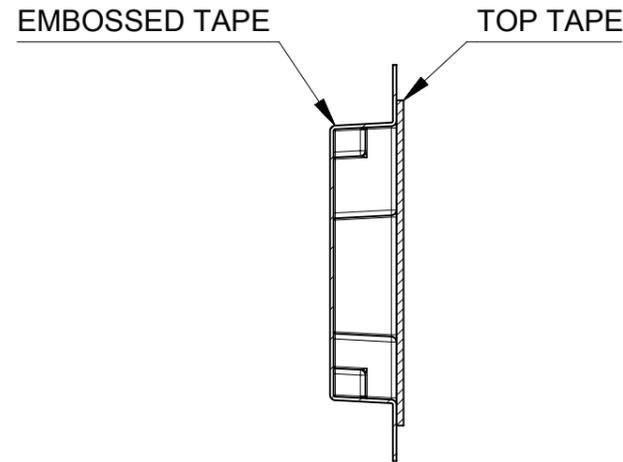


**NOTES**

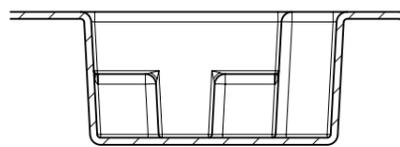
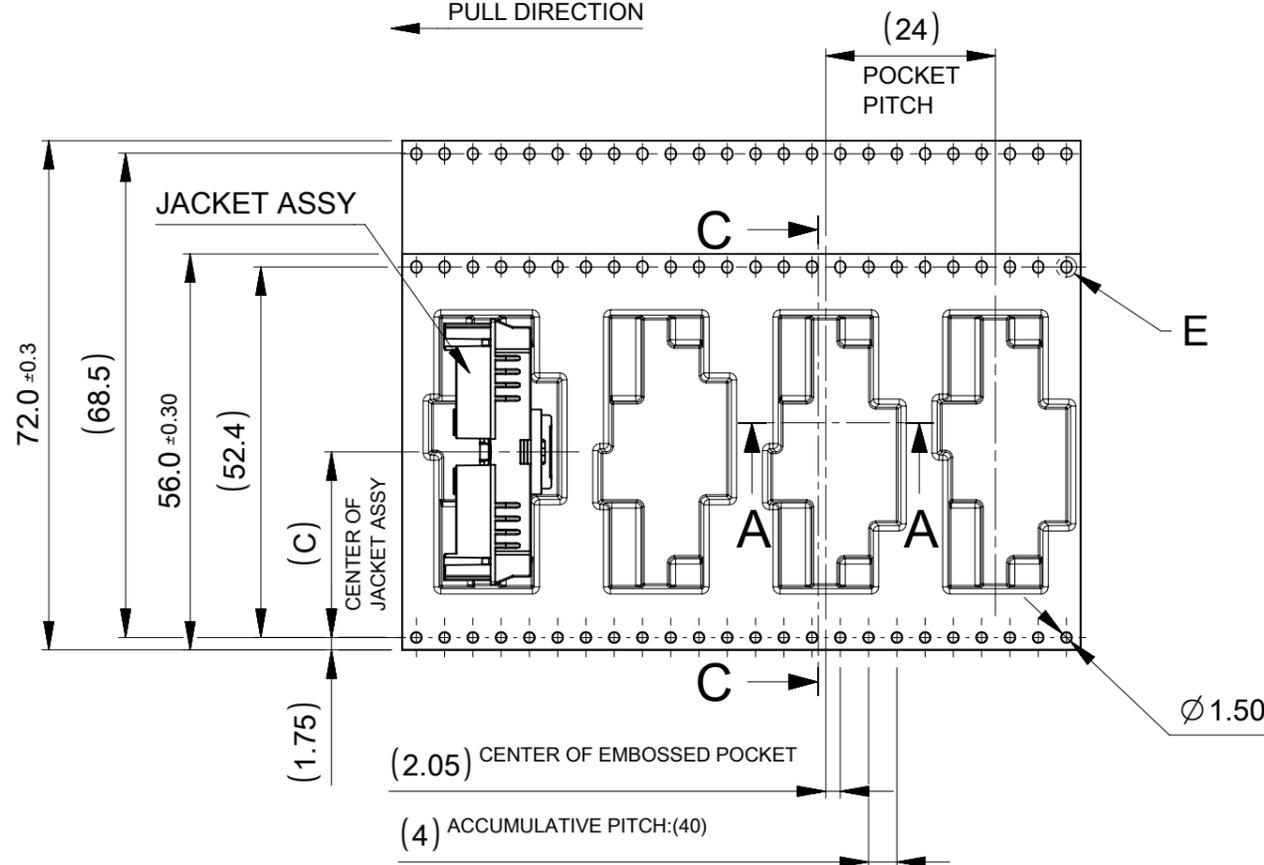
1. NUMBER OF CONNECTORS : SEE CHART.
2. LEAD TAPE LENGTH



3. COVER TAPE PEEL FORCE IS DEFINED BY IEC60286-3.
4. DIMENSIONS OF PRODUCT, REFER TO 2190191000-SD.
5. EMBOSSED TAPE : POLYSTYRENE  
TOP TAPE : POLYETHYLENE TEREPHTHALATE, POLYETHYLENE  
REEL : POLYSTYRENE < RECYCLE MATERIAL CONTAINED >

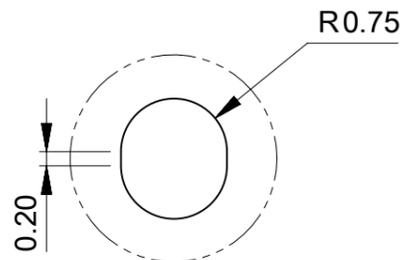


SECTION C-C



CENTER OF EMBOSSED POCKET

SECTION A-A

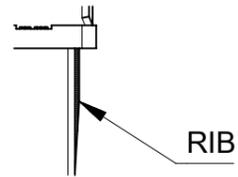
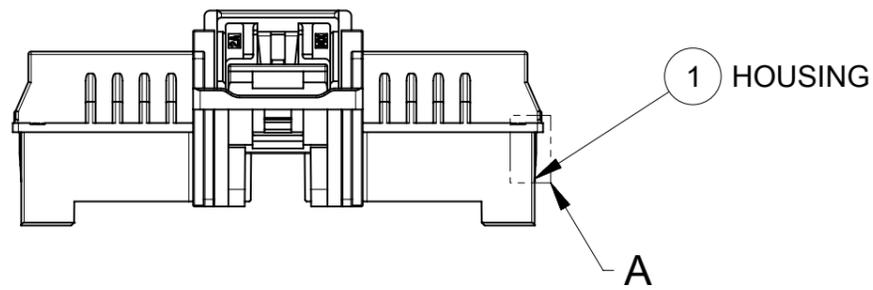


DETAIL E  
SCALE 10:1

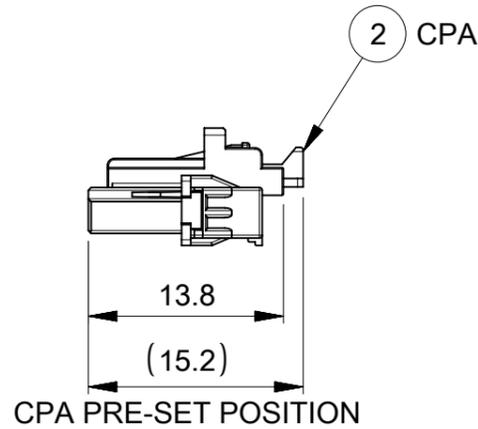
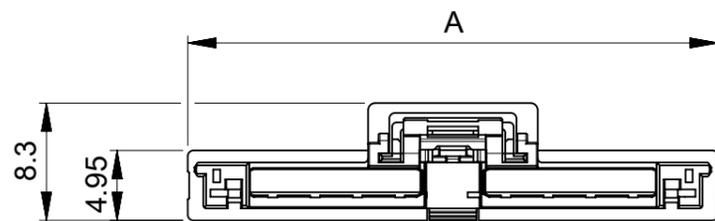
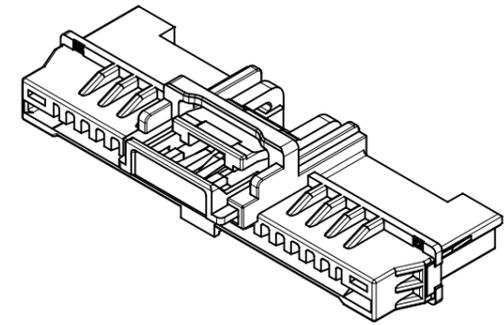
360			61.4	56.4	A	BLACK	219019 0120	12
NUMBER OF CONNECTORS	D	C	B	A	B	GRAY	219019 0121	
	DIMENSION				POL	COLOR	ORDER NO.	CKT

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:					
mm		NTS		<p style="text-align: center;"><b>molex</b></p> <p>1.5 FPC CONN 1ROW JACKET ASSY EMBSTP PKG 12P</p> <p>PRODUCT CUSTOMER DRAWING</p>					
GENERAL TOLERANCES (UNLESS SPECIFIED)									
ANGULAR TOL ± 3.0 °									
4 PLACES ± 0.2									
3 PLACES ± 0.2									
2 PLACES ± 0.2				EC NO: 813063		2025/02/17			
1 PLACE ± 0.25				DRWN: SYKO01		2025/03/04			
0 PLACES ± 0.3				CHK'D: JBJIN		2025/03/04			
DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS				APPR: JBJIN		INITIAL REVISION:		DOCUMENT NUMBER	
THIRD ANGLE PROJECTION		DRAWING		SERIES		MATERIAL NUMBER		CUSTOMER	
A3-SIZE		219019		219019		2190190000-SD		PSD 001 A1	
SEE TABLE		GENERAL		SHEET NUMBER		1 OF 1			

REV.	REV. RECORD	DATE
A1	CAD SYSTEM ERROR	2025/02/17
A	RELEASED	2025/02/05
1	PROPOSED	2025/02/05



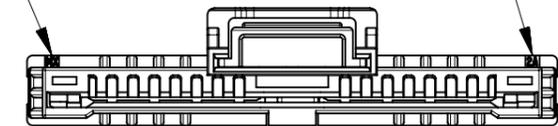
DETAIL A  
(SCALE 5:1)



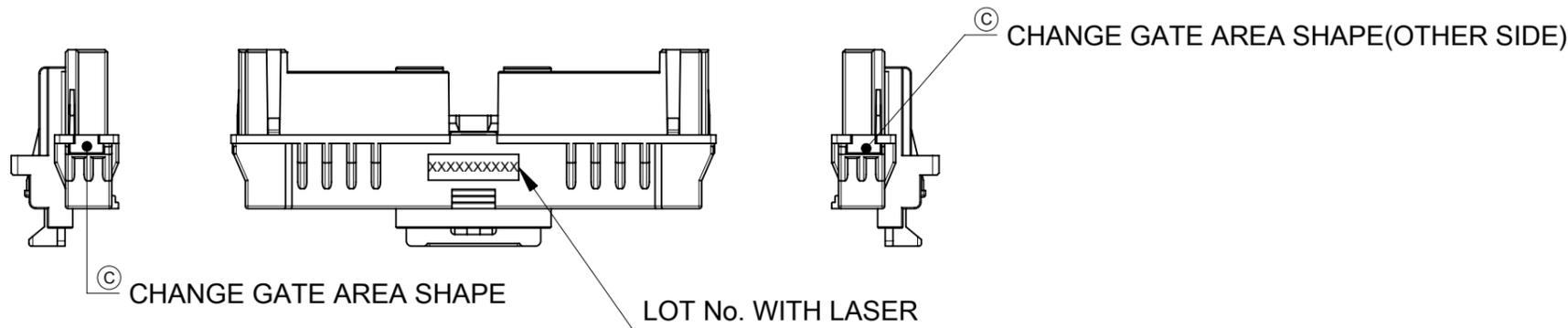
CPA PRE-SET POSITION

TRADE MARK

CAV & MOLD No.



NOTE.  
1. MATE WITH : 219018 SERIES.  
① 2. MATE WITH : 225433 SERIES.(ONLY 12Ckts.)



②	24	39	49.52	A	BLACK	SEE SHEET2	24		
				B	GRAY				
20	33	43.52	A	BLACK	SEE SHEET2		20		
			B	GRAY					
②	12	21	31.52	A			BLACK	SEE SHEET2	12
				B			GRAY		
N	B	A	POL COLOR			ORDER NUMBER	CKT		
			DIMENSION						

C	CHANGE GATE AREA SHAPE	2025/03/05
B1	Coverlay opening dimensions change	2025/02/05
B	ADDED RIB & DELETE POLY BAG PKG	2024/01/25
A2	CHANGED FFC DIM	2023/07/17
A1	UPDATE NEW SERIES	2023/06/19
A	RELEASE	2023/06/02
1	PROPOSED	2022/11/09
REV.	REV. RECORD	DATE

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

CURRENT REV DESC:

EC NO: 832202  
DRWN: SYKO01  
CHK'D: ALIN06  
APPR: ALIN06

2025/03/05  
2025/08/21  
2025/08/21

INITIAL REVISION:  
DRWN: HMIYAMOTO  
APPR: ALIN06

2022/11/09  
2025/08/21

THIRD ANGLE PROJECTION

DRAWING: A3-SIZE  
SERIES: 219019

MATERIAL NUMBER: SEE TABLE  
CUSTOMER: GENERAL

DOCUMENT NUMBER: 2190191000-SD  
DOC TYPE: PSD  
DOC PART: 000  
REVISION: C

SHEET NUMBER: 1 OF 3

**molex**

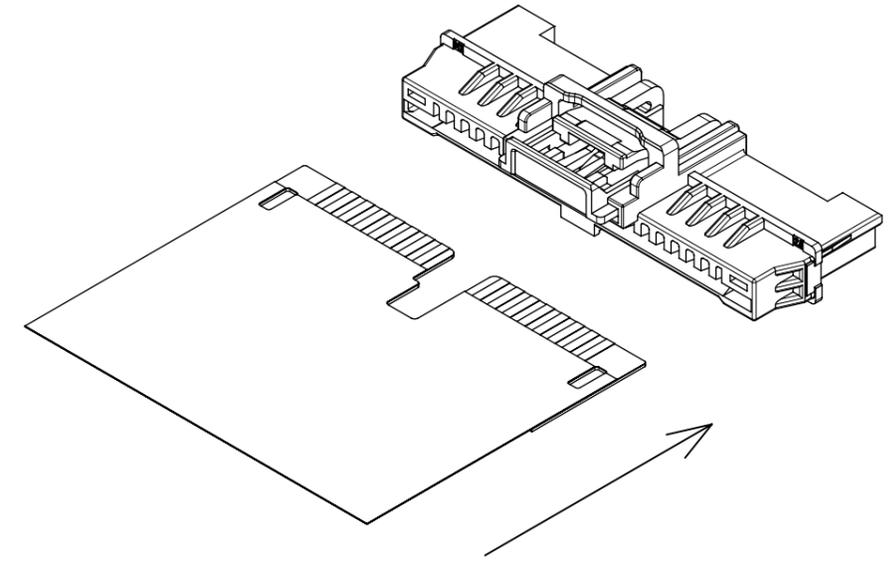
1.5 FPC CONN 1ROW JACKET ASSY

PRODUCT CUSTOMER DRAWING

No.	PART	MATERIAL
①	HOUSING	POLY BUTYLENE TEREPHTHALATE(PBT), GLASS FILLED, UL94V-0, COLOR BLACK/GRAY
②	CPA	POLY BUTYLENE TEREPHTHALATE(PBT), GLASS FILLED, UL94HB, COLOR RED
DOCUMENT STATUS	P1	RELEASE DATE 2025/08/21 05:53:03

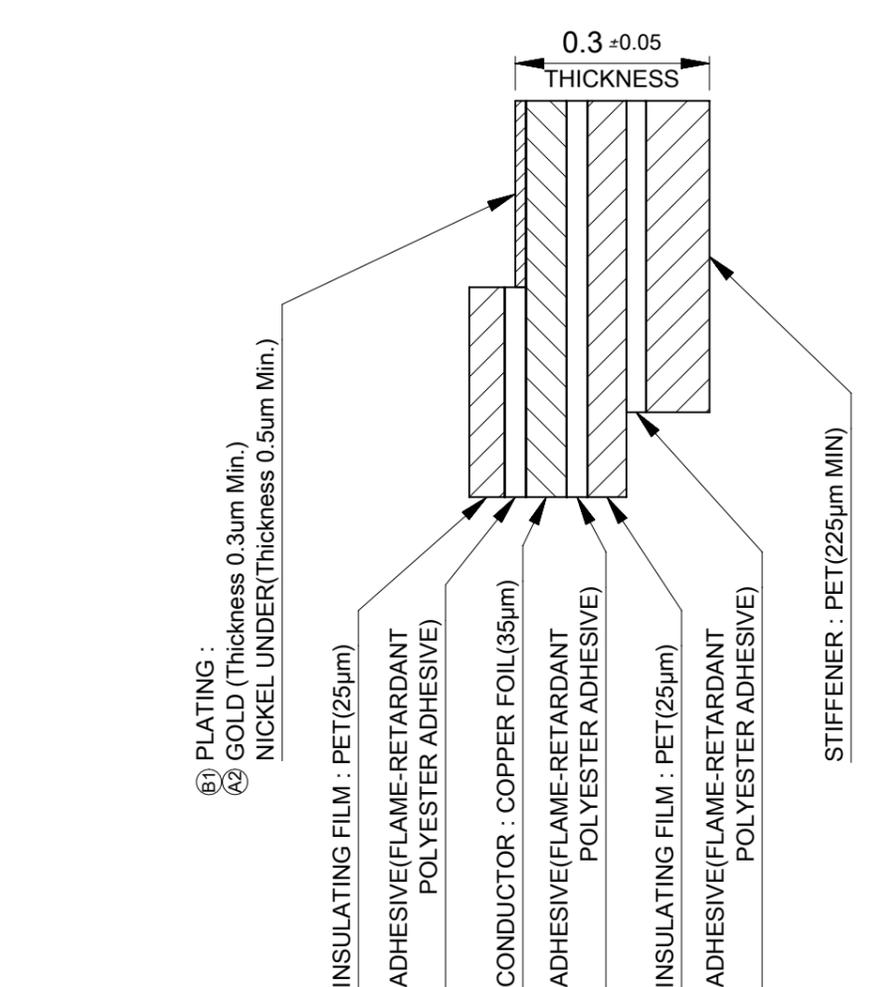
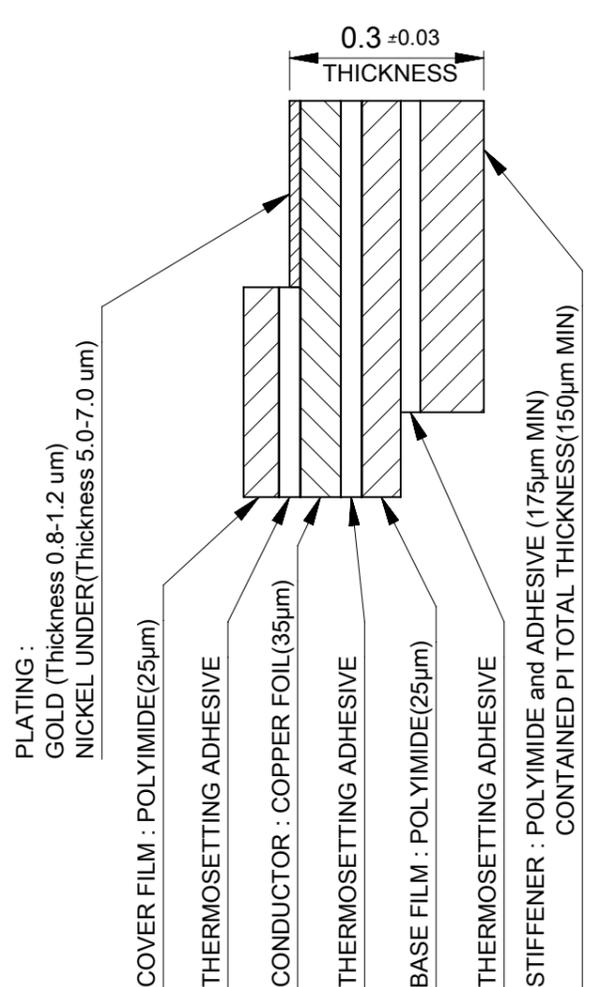
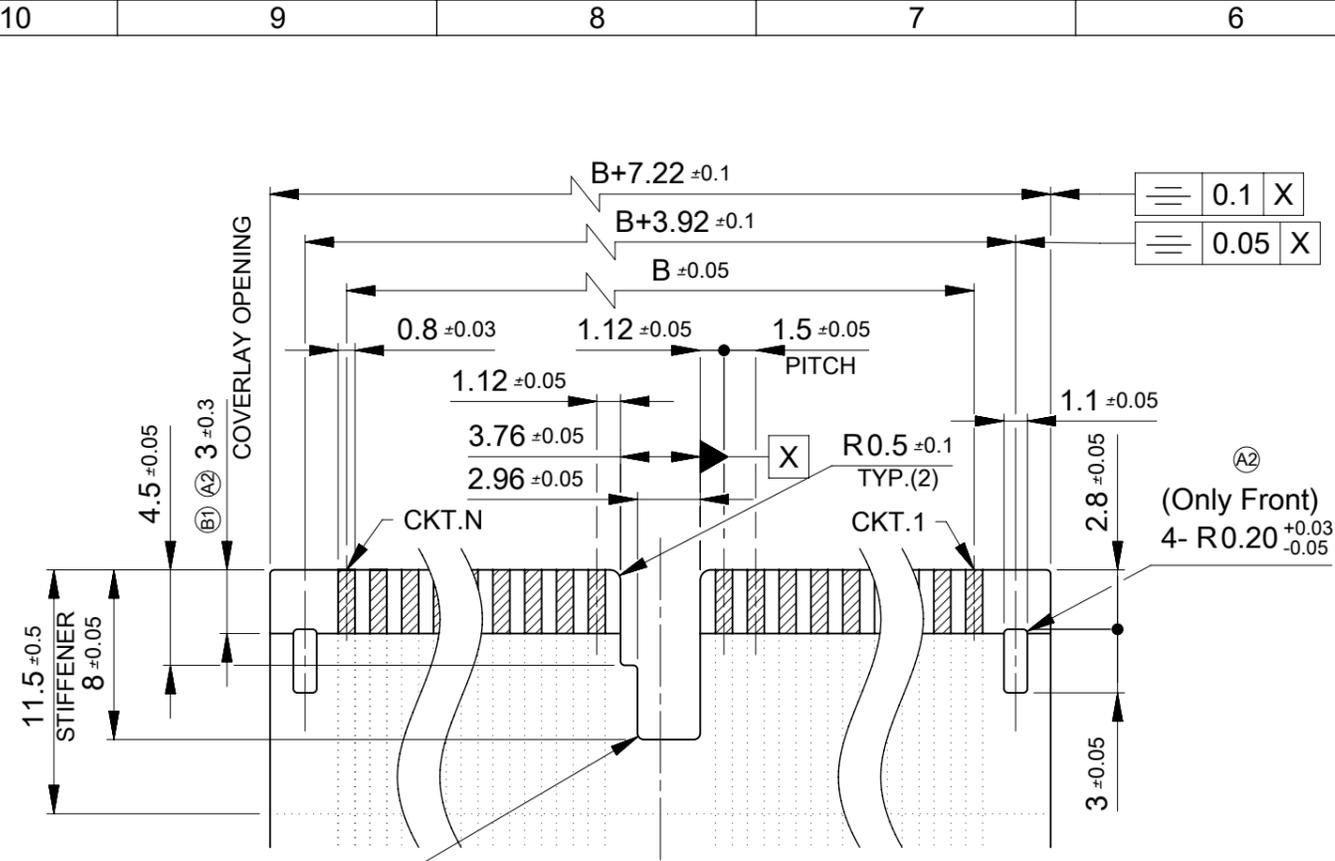
**POLARIZATION KEY OVERVIEW**

ORDER NUMBER	CKT	POL	OVERVIEW	COLOR
EMBOSSED PKG				
2190190120	12	A		BLACK
2190190200	20			
2190190240	24			
2190190121	12	B		GRAY
2190190201	20			
2190190241	24			



**FPC/FFC INSERTION DIRECTION**

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:			<b>molex</b>				
mm	2:1								
GENERAL TOLERANCES (UNLESS SPECIFIED)		EC NO: 832202			1.5 FPC CONN 1ROW JACKET ASSY				
ANGULAR TOL ± 3.0 °		DRWN: SYKO01 2025/03/05							
4 PLACES ± 0.2	CHK'D: ALIN06 2025/08/21			PRODUCT CUSTOMER DRAWING					
3 PLACES ± 0.2	APPR: ALIN06 2025/08/21								
2 PLACES ± 0.2	INITIAL REVISION:			DOCUMENT NUMBER					
1 PLACE ± 0.2	DRWN: HMIYAMOTO 2022/11/09								2190191000-SD
0 PLACES ± 0.2	APPR: ALIN06 2025/08/21			DOC TYPE					
DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		THIRD ANGLE PROJECTION	DRAWING						SERIES
			A3-SIZE	219019	REVISION				
		MATERIAL NUMBER							
		SEE TABLE			GENERAL				
		SHEET NUMBER							

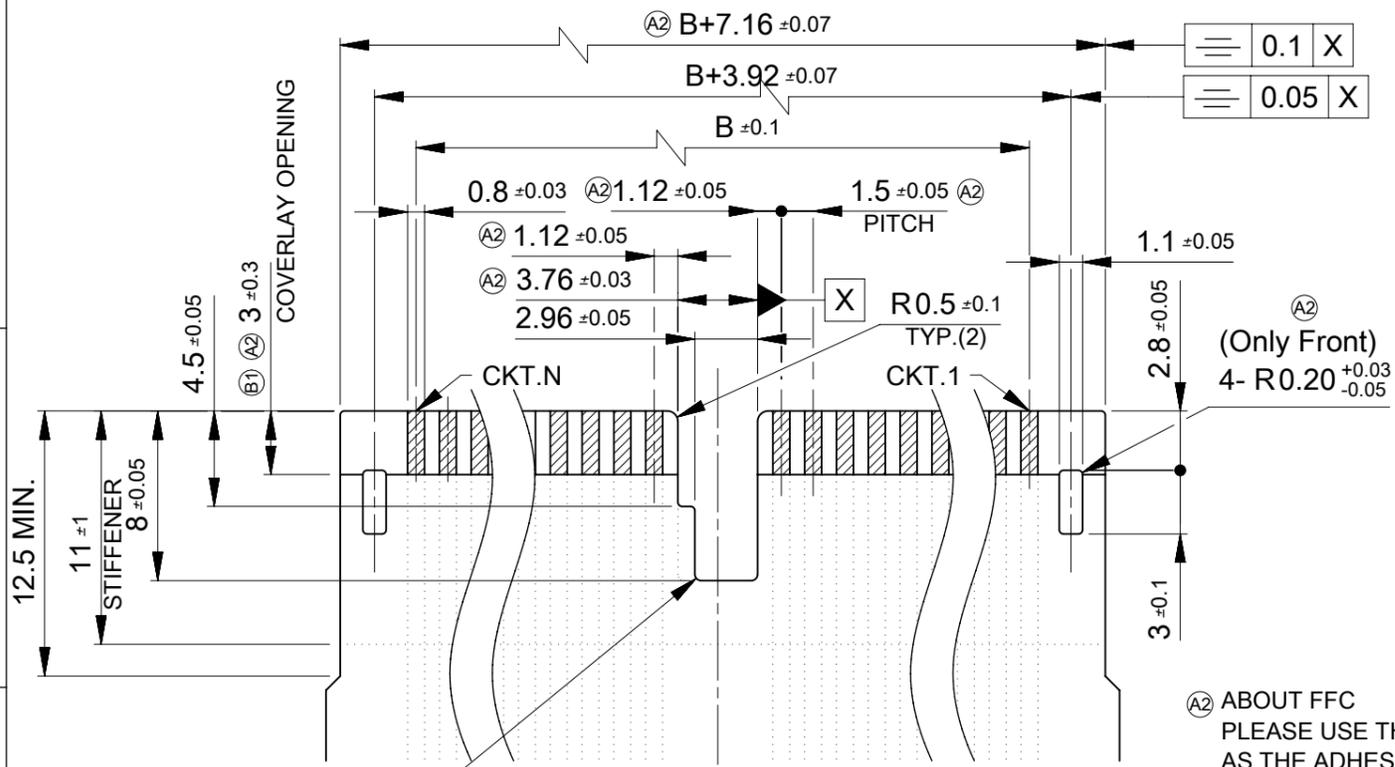


R0.3 ±0.05 TYP.(2) **APPLICABLE FPC RECOMMENDED DIMENSION** UNLESS OTHERWISE SPECIFIED, RADIUS TO BE 0.2±0.05 ON FPC DIMENSION.

**RECOMMENDED FPC LAYER STRUCTURE**

**RECOMMENDED FFC LAYER STRUCTURE**

CONNECTOR CONTACT AREA



R0.3 ±0.05 TYP.(2) **APPLICABLE FFC RECOMMENDED DIMENSION** UNLESS OTHERWISE SPECIFIED, RADIUS TO BE 0.2±0.05 ON FFC DIMENSION.

**A2** ABOUT FFC PLEASE USE THE FFC UP TO 90 DEGREE C, AS THE ADHESIVE MAY DETERIORATED AND RELIABILITY CANNOT BE FILLED. BE SURE TO CHECK THE PS SPECIFICATION BEFORE USING THE FFC. (THIS SPECIFICATION IS NOT CONFIRMED, SO IT IS SUBJECT TO CHANGE WITHOUT NOTICE.)

**NOTES.**  
 2. FPC/FFC RECOMMENDATION  
 ABOUT FPC/FFC  
 RECOMMENDED PUNCHING DIRECTION : FROM CONDUCTOR SIDE TO STIFFENER SIDE.  
 RECOMMENDED CONDUCTOR SPEC : ROLLED COPPER FOIL.  
 RECOMMENDED CONDUCTOR THICKNESS : 35 MICROMETER.  
 RECOMMENDED PLATING : Au - Co PLATING ( HARD GOLD ) , BRIGHT Ni PLATING  
 RECOMMENDED TREATMENT : SEALING AFTER Au PLATING  
 NOTE : WHEN ACTUALLY USING IT WITH CONNECTOR, PLEASE DO THE EVALUATION AND THE CONFIRMATION WITH AN ACTUAL EQUIPMENT TO EVADE THE CASE WHERE RELIABILITY CANNOT BE FILLED (THE ADHESIVE LINE OF FFC IS DETERIORATED ETC.)

ABOUT FPC/FFC  
 RECOMMENDED STIFFENER MATERIAL : POLYIMIDE  
 RECOMMENDED BASE FILM THICKNESS : 25 MICROMETER  
 RECOMMENDED ADHESIVE : THERMOSETTING ADHESIVE  
 NOTE : PLEASE PUT APPROPRIATE AMOUNT OF ADHESIVE ON ADHEREND BECAUSE THERE IS A POSSIBILITY THAT THE EXTRA ADHESIVE CAUSES THE DEFECT IN ELECTRICAL CONTINUITY. WHEN ACTUALLY USING IT WITH CONNECTOR, PLEASE DO THE EVALUATION AND THE CONFIRMATION WITH AN ACTUAL EQUIPMENT TO EVADE THE CASE WHERE RELIABILITY CANNOT BE FILLED. (THE ADHESIVE LINE OF FFC IS DETERIORATED ETC.)

THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX ELECTRONIC TECHNOLOGIES, LLC AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION		CURRENT REV DESC:		<b>molex</b>	
DIMENSION UNITS	SCALE				
mm	3:1			1.5 FPC CONN 1ROW JACKET ASSY	
GENERAL TOLERANCES (UNLESS SPECIFIED)				PRODUCT CUSTOMER DRAWING	
ANGULAR TOL	± 3.0 °			DOCUMENT NUMBER	
4 PLACES	± 0.2	EC NO: 832202	2025/03/05	2190191000-SD	
3 PLACES	± 0.2	DRWN: SYKO01	2025/08/21	DOC TYPE	DOC PART
2 PLACES	± 0.2	CHK'D: ALIN06	2025/08/21	PSD	000
1 PLACE	± 0.2	APPR: ALIN06	2025/08/21	REVISION	C
0 PLACES	± 0.2	INITIAL REVISION:		SHEET NUMBER	
DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		THIRD ANGLE PROJECTION	DRAWING	SERIES	MATERIAL NUMBER
			A3-SIZE	219019	SEE TABLE
				CUSTOMER	GENERAL