

PLEASE CHECK WWW.MOLEX.COM FOR LATEST PART INFORMATION

Part Number: 0015389162
Status: Active
Overview: cgrid_sl_products
Description: 2.54mm (.100") Pitch SL™ FFC/FPC Connector - Single Row Male Version D, 16 Circuits

Documents:
[3D Model](#)
[Drawing \(PDF\)](#)

[Product Specification PS-70430 \(PDF\)](#)
[RoHS Certificate of Compliance \(PDF\)](#)

Agency Certification

CSA LR19980
UL E29179

General

Product Family FFC/FPC Connectors
Series 70431
Comments Male
Overview cgrid_sl_products
Product Name SL™

Physical

Circuits (Loaded) 16
Color - Resin Black
Contact Position N/A
Durability (mating cycles max) 25
Entry Angle Vertical
Flammability 94V-0
Material - Metal Phosphor Bronze
Material - Plating Mating Tin
Material - Plating Termination Tin
Material - Resin Polyester Alloy
Number of Rows 1
Orientation Vertical
PCB Locator No
PCB Retention None
Packaging Type Tube
Pitch - Mating Interface (in) 0.100 In
Pitch - Mating Interface (mm) 2.54 mm
Plating min: Mating (µin) 150
Plating min: Mating (µm) 3.75
Plating min: Termination (µin) 150
Plating min: Termination (µm) 3.75
Polarized to PCB No
Stackable Yes
Surface Mount Compatible (SMC) N/A
Temperature Range - Operating -40°C to +105°C
Termination Interface: Style IDT or Pierce
Wire/Cable Type FFC/FPC

Electrical

Current - Maximum per Contact 2A
Voltage - Maximum 250V

Material Info

Old Part Number 70431-0085

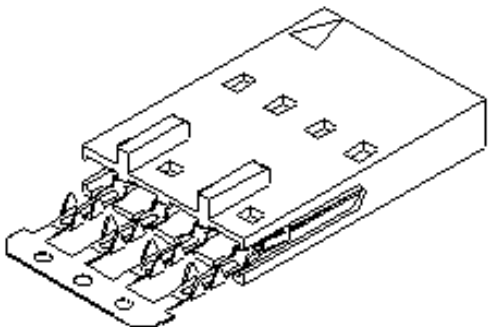


image - Reference only

Series

EU RoHS
ELV and RoHS
Compliant
REACH SVHC
Not Reviewed
Halogen-Free
Status
Not Reviewed

China RoHS



Need more information on product environmental compliance?

Email productcompliance@molex.com
For a multiple part number RoHS Certificate of Compliance, [click here](#)

Please visit the [Contact Us](#) section for any non-product compliance questions.

Search Parts in this Series
70431Series

Application Tooling | FAQ
Tooling specifications and manuals are found by selecting the products below. Crimp Height Specifications are then contained in the Application Tooling Specification document.

Global	
Description	Product #
Tool Kit for Standard	0622007400
Manual Press FFC	
Standard Manual	0622007800
Press for FFC	

Reference - Drawing Numbers

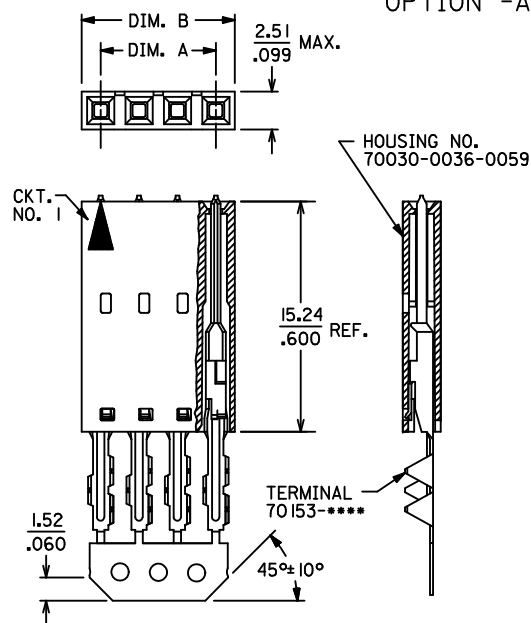
Product Specification
Sales Drawing

PS-70430
SDA-70431-****

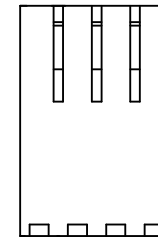
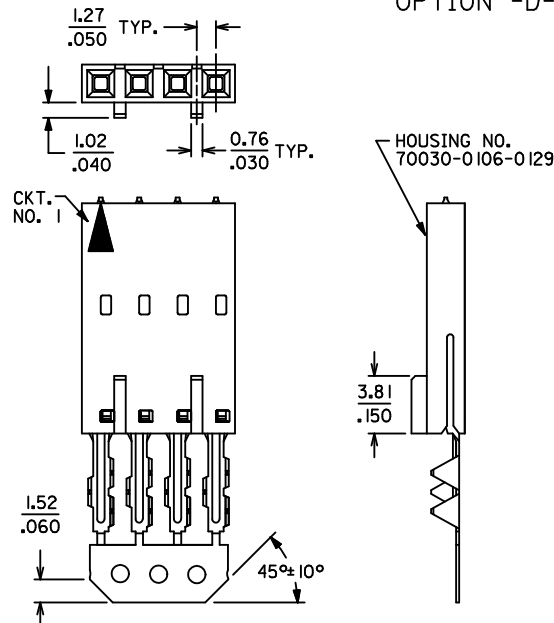
This document was generated on 05/18/2010

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OPTION -A-

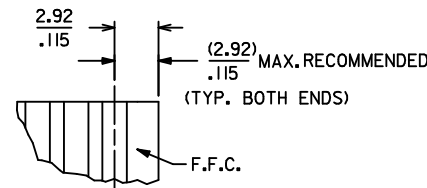
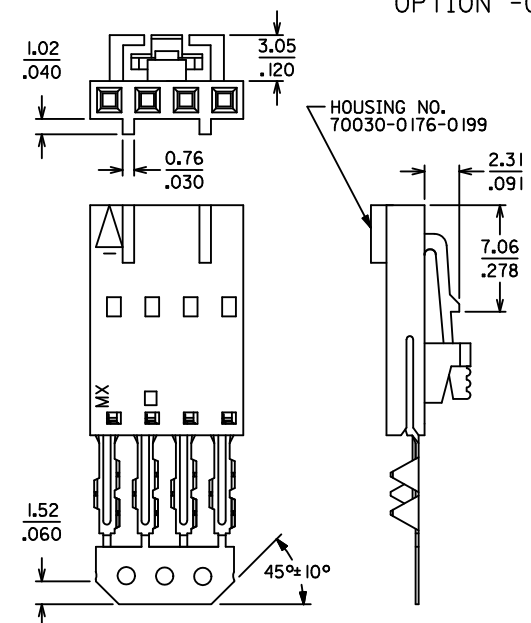


OPTION -D-



OPTIONAL CORE-OUT FOR
HOUSING OPTIONS A & D
CKT. SIZES 2-25
(FOR CONTROL OF BOW)

OPTION -G-



- NOTES:
- HOUSING: POLYESTER (PBT), UL94 V-0
COLOR: BLACK
 - FINISHES:
SEE PAGE 2 FOR PLATING FINISHES
 - PRODUCT SPECIFICATION: PS-70430
 - PACKAGING SPECIFICATION: PK-70873-0001
 - SEE CHART FOR CIRCUIT SIZES
 - TERMINALS ARE SHOWN PRE-LOADED INTO HOUSING
AND LOCKED INTO FIRST ROW OF LOCKING TANG
WINDOWS
 - ALL DIMENSIONS ARE FOR REFERENCE ONLY
 - SEE SHEET 2 FOR PART NUMBERS AND PLATINGS

CKT. SIZE	DIM. A (MAX.)	DIM. B (MAX.)
2	(2.54) .100	(5.05) .199
3	(5.08) .200	(7.59) .299
4	(7.62) .300	(10.13) .399
5	(10.16) .400	(12.67) .499
6	(12.70) .500	(15.21) .599
7	(15.24) .600	(17.75) .699
8	(17.78) .700	(20.29) .799
9	(20.32) .800	(22.83) .899
10	(22.86) .900	(25.37) .999
11	(25.40) 1.000	(27.91) 1.099
12	(27.94) 1.100	(30.45) 1.199
13	(30.48) 1.200	(32.99) 1.299
14	(33.02) 1.300	(35.53) 1.399
15	(35.56) 1.400	(38.07) 1.499
16	(38.10) 1.500	(40.61) 1.599
17	(40.64) 1.600	(43.15) 1.699
18	(43.18) 1.700	(45.69) 1.799
19	(45.72) 1.800	(48.23) 1.899
20	(48.26) 1.900	(50.77) 1.999
21	(50.80) 2.000	(53.31) 2.099
22	(53.34) 2.100	(55.85) 2.199
23	(55.88) 2.200	(58.39) 2.299
24	(58.42) 2.300	(60.93) 2.399
25	(60.96) 2.400	(63.47) 2.499

MODIFY PRODUCT SPEC EC NO: UCP2010-0987 DRWN:MSIBARRA 2009/12/28 CHKD:DMORGAN 2010/01/08 APPR:SMILLER 2010/01/11	DESCRIPTION	QUALITY SYMBOLS ▽=0 ▽=0 ▽=0	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE MM/IN		SCALE 4:1	DESIGN UNITS INCH	 THIRD ANGLE PROJECTION		
				mm	INCH	DRAWN BY MGB	DATE 12/21/88	TITLE ASSY, SL CONNECTOR, FFC MALE, SINGLE ROW 2.54/.100 GRID			
			4 PLACES	± ---	± ---	CHECKED BY	DATE				
			3 PLACES	± ---	± ---	MGB	12/21/88				
			2 PLACES	± ---	± ---	APPROVED BY	DATE				
			1 PLACE	± ---	± ---	WAZ	12/21/88	 MOLEX INCORPORATED			
			ANGULAR ±1/2°		MATERIAL NO.		DOCUMENT NO.			SHEET NO.	
			DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		SEE TABLE		SDA-70431-****			1 OF 2	
					SIZE C	THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION					

		13		12		11		10		9		8		7		6		5		4		3		2		1																																																																					
J	CKT. SIZE	TIN PLATE OPTION -A-		TIN PLATE OPTION -D-		15 GOLD PLATE OPTION -A-		15 GOLD PLATE OPTION -D-		30 GOLD PLATE OPTION -A-		30 GOLD PLATE OPTION -D-		TIN PLATE OPTION -G-																																																																																	
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	2	I5-38-9020	A-70431-0001	I5-38-9022	A-70431-0071	I5-47-4028	A-70431-0176	I5-47-5020	A-70431-0246	I5-47-5022	A-70431-0351	I5-47-5024	A-70431-0421																																																																																		
	3	-9030	-0002	-9032	-0072	-4038	-0177	-5030	-0247	-5032	-0352	-5034	-0422																																																																																		
	4	-9040	-0003	-9042	-0073	-4048	-0178	-5040	-0248	-5042	-0353	-5044	-0423																																																																																		
I	5	-9050	-0004	-9052	-0074	-4058	-0179	-5050	-0249	-5052	-0354	-5054	-0424																																																																																		
	6	-9060	-0005	-9062	-0075	-4068	-0180	-5060	-0250	-5062	-0355	-5064	-0425																																																																																		
	7	-9070	-0006	-9072	-0076	-4078	-0181	-5070	-0251	-5072	-0356	-5074	-0426																																																																																		
	8	-9080	-0007	-9082	-0077	-4088	-0182	-5080	-0252	-5082	-0357	-5084	-0427																																																																																		
	9	-9090	-0008	-9092	-0078	-4098	-0183	-5090	-0253	-5092	-0358	-5094	-0428																																																																																		
	10	-9100	-0009	-9102	-0079	-4108	-0184	-5100	-0254	-5102	-0359	-5104	-0429	I5-38-9103	A-70431-0149																																																																																
	11	-9110	-0010	-9112	-0080	-4118	-0185	-5110	-0255	-5112	-0360	-5114	-0430																																																																																		
H	12	-9120	-0011	-9122	-0081	-4128	-0186	-5120	-0256	-5122	-0361	-5124	-0431																																																																																		
	13	-9130	-0012	-9132	-0082	-4138	-0187	-5130	-0257	-5132	-0362	-5134	-0432																																																																																		
	14	-9140	-0013	-9142	-0083	-4148	-0188	-5140	-0258	-5142	-0363	-5144	-0433																																																																																		
	15	-9150	-0014	-9152	-0084	-4158	-0189	-5150	-0259	-5152	-0364	-5154	-0434																																																																																		
	16	-9160	-0015	-9162	-0085	-4168	-0190	-5160	-0260	-5162	-0365	-5164	-0435																																																																																		
	17	-9170	-0016	-9172	-0086	-4178	-0191	-5170	-0261	-5172	-0366	-5174	-0436																																																																																		
G	18	-9180	-0017	-9182	-0087	-4188	-0192	-5180	-0262	-5182	-0367	-5184	-0437																																																																																		
	19	-9190	-0018	-9192	-0088	-4198	-0193	-5190	-0263	-5192	-0368	-5194	-0438																																																																																		
	20	-9200	-0019	-9202	-0089	-4208	-0194	-5200	-0264	-5202	-0369	-5204	-0439																																																																																		
	21	-9210	-0020	-9212	-0090	-4218	-0195	-5210	-0265	-5212	-0370	-5214	-0440																																																																																		
	22	-9220	-0021	-9222	-0091	-4228	-0196	-5220	-0266	-5222	-0371	-5224	-0441																																																																																		
	23	-9230	-0022	-9232	-0092	-4238	-0197	-5230	-0267	-5232	-0372	-5234	-0442																																																																																		
	24	-9240	-0023	-9242	-0093	-4248	-0198	-5240	-0268	-5242	-0373	-5244	-0443																																																																																		
F	25	I5-38-9250	A-70431-0024	I5-38-9252	A-70431-0094	I5-47-4258	A-70431-0199	I5-47-5250	A-70431-0269	I5-47-5252	A-70431-0374	I5-47-5254	A-70431-0444																																																																																		
E	<table><tr><td>PLATING PER ES-88:</td><td>CARRIER STRIP COLOR CODE</td></tr><tr><td>TIN</td><td>NONE</td></tr><tr><td>15 GOLD</td><td>YELLOW</td></tr><tr><td>30 GOLD</td><td>RED</td></tr></table>																											PLATING PER ES-88:	CARRIER STRIP COLOR CODE	TIN	NONE	15 GOLD	YELLOW	30 GOLD	RED																																																												
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TIN: TIN OVERALL THICKNESS: 3.81 MICROMETERS (150 MICROINCHES) MINIMUM ALL OVER A NICKEL UNDERPLATE.																																																																																															
15 GOLD: SELECTIVE GOLD (Au) WITH SELECTIVE TIN THICKNESS: 0.38 MICROMETERS (15 MICROINCHES) MINIMUM GOLD (Au) IN SELECT AREA 1.90 MICROMETERS (75 MICROINCHES) MINIMUM TIN IN SELECT AREA ALL OVER A NICKEL UNDERPLATE.																																																																																															
30 GOLD: SELECTIVE GOLD (Au) WITH SELECTIVE TIN THICKNESS: 0.76 MICROMETERS (30 MICROINCHES) MINIMUM GOLD (Au) IN SELECT AREA 1.90 MICROMETERS (75 MICROINCHES) MINIMUM TIN IN SELECT AREA ALL OVER A NICKEL UNDERPLATE.																																																																																															
B	<table><tr><td rowspan="5">SEE SHEET 1 EC NO: UCP2010-0987 DRAWN:MS BARRA 2009/12/28 CHKD:DMORGAN 2010/01/08 APPR:SMILLER 2010/01/11</td><td rowspan="6">DESCRIPTION</td><td rowspan="6">QUALITY SYMBOLS</td><td colspan="2">GENERAL TOLERANCES (UNLESS SPECIFIED)</td><td colspan="2">DIMENSION STYLE MM/IN</td><td rowspan="6">SCALE 1:1</td><td rowspan="6">DESIGN UNITS INCH</td><td rowspan="6">THIRD ANGLE PROJECTION</td><td colspan="2" rowspan="6">TITLE ASSY, SL CONNECTOR, FFC MALE, SINGLE ROW 2.54/.100 GRID</td><td rowspan="6">MATERIAL NO. SEE TABLE</td><td rowspan="6">DOCUMENT NO. SDA-70431-****</td><td rowspan="6">SHEET NO. 2 OF 2</td></tr><tr><td>mm</td><td>INCH</td><td>DRAWN BY MGB</td><td>DATE 12/21/88</td></tr><tr><td>4 PLACES ± ---</td><td>± ---</td><td>CHECKED BY MGB</td><td>DATE 12/21/88</td></tr><tr><td>3 PLACES ± ---</td><td>± ---</td><td>APPROVED BY WAZ</td><td>DATE 12/21/88</td></tr><tr><td>2 PLACES ± ---</td><td>± ---</td><td colspan="10" rowspan="2">ANGULAR ±1/2°</td></tr><tr><td colspan="3"></td><td colspan="12">DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS</td><td colspan="13">THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION</td><td>A</td></tr></table>																											SEE SHEET 1 EC NO: UCP2010-0987 DRAWN:MS BARRA 2009/12/28 CHKD:DMORGAN 2010/01/08 APPR:SMILLER 2010/01/11	DESCRIPTION	QUALITY SYMBOLS	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE MM/IN		SCALE 1:1	DESIGN UNITS INCH	THIRD ANGLE PROJECTION	TITLE ASSY, SL CONNECTOR, FFC MALE, SINGLE ROW 2.54/.100 GRID		MATERIAL NO. SEE TABLE	DOCUMENT NO. SDA-70431-****	SHEET NO. 2 OF 2	mm	INCH	DRAWN BY MGB	DATE 12/21/88	4 PLACES ± ---	± ---	CHECKED BY MGB	DATE 12/21/88	3 PLACES ± ---	± ---	APPROVED BY WAZ	DATE 12/21/88	2 PLACES ± ---	± ---	ANGULAR ±1/2°													DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS												THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION													A
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