

**PLEASE CHECK WWW.MOLEX.COM FOR LATEST PART INFORMATION**

**Part Number:** [0014562027](#)  
**Status:** **Active**  
**Overview:** [cgrid\\_sl\\_products](#)  
**Description:** 2.54mm (.100") Pitch SL™ Insulation Displacement Connector Assembly, Female, Single Row, Version A, Nonpolarized, Wire Size 24, 0.76µm (30µ") Gold (Au), 2 Circuits

**Documents:**

[3D Model](#) [Product Specification PS-70400 \(PDF\)](#)  
[Drawing \(PDF\)](#) [RoHS Certificate of Compliance \(PDF\)](#)

**Agency Certification**

CSA LR19980  
 UL E29179

**General**

Product Family Ribbon Cable / Wire Trap Connectors  
 Series [70400](#)  
 Comments Terminals Preloaded  
 Component Type Housing  
 Glow-Wire Compliant No  
 Overview [cgrid\\_sl\\_products](#)  
 Product Name SL™

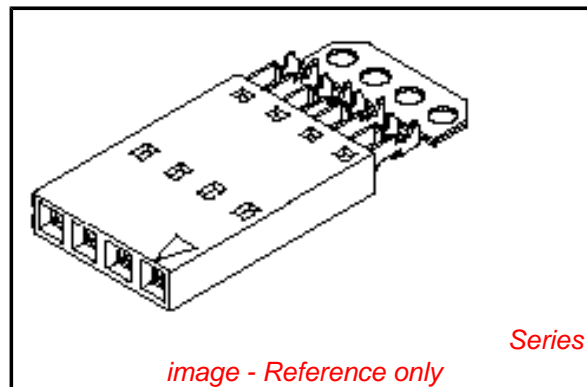
**Physical**

Circuits (Loaded) 2  
 Color - Resin Black  
 Durability (mating cycles max) 50  
 Entry Angle Vertical  
 Flammability 94V-0  
 Lock to Mating Part None  
 Material - Metal Phosphor Bronze  
 Material - Plating Mating Gold  
 Material - Plating Termination Tin  
 Material - Resin Polyester Alloy  
 Number of Rows 1  
 PCB Retention None  
 Packaging Type Tube  
 Pitch - Mating Interface (in) 0.100 In  
 Pitch - Mating Interface (mm) 2.54 mm  
 Plating min: Mating (µin) 30  
 Plating min: Mating (µm) 0.75  
 Plating min: Termination (µin) 75  
 Plating min: Termination (µm) 1.875  
 Polarized to Mating Part No  
 Stackable Yes  
 Surface Mount Compatible (SMC) N/A  
 Temperature Range - Operating -40°C to +105°C  
 Termination Interface: Style IDT or Pierce  
 Wire Insulation Diameter 1.35mm (.053") max.  
 Wire Size AWG 24  
 Wire/Cable Type Discrete Wire, Ribbon Cable

**Electrical**

Current - Maximum per Contact 3A  
 Voltage - Maximum 250V

**Material Info**



**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](mailto: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**

[70400Series](#)

**Mates With**

Single Row headers and housings, [8624](#) , [70203](#) , [42375](#) , [42377](#)

**Use With**

[7307](#) Tinned 28AWG, [7767](#) Topcoat 28AWG, [24241](#) Tinned 26AWG, [8996](#) Topcoat 26AWG, [24226](#) Tinned 24AWG, [8997](#) Topcoat 24AWG, [24369](#) High Flex 26AWG, [24389](#) High Flex 24AWG

**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 #
Hawk Semi-Automatic Discrete	<a href="#">0011201337</a>

Old Part Number

70400-1051

**Reference - Drawing Numbers**

Product Specification

Sales Drawing

PS-70400

SDA-70400-1051-1074

Wire Terminator for  
SL - Rebuilt US\*

Hawk™ Ribbon 0623003000

Cable Terminator for  
SL without Break-off

Hawk™ Semi- 0623004900

Automatic Discrete

Wire Terminator

for SL - Rebuilt CE

Approved\*

Hawk™ Flat Flex 0623005200

Cable Terminator for  
SL with Break-off

Hawk™ Ribbon 0623005300

Cable Terminator

with for SL Break-off

IDT Discrete 0621000700

Handtool Module for

SL™

Hawk™ Semi- 0623003100

Automatic Discrete

Wire Terminator for

SL

This document was generated on 05/20/2010

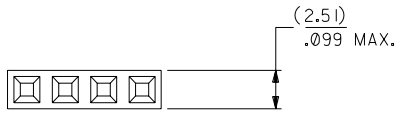
**PLEASE CHECK [WWW.MOLEX.COM](http://WWW.MOLEX.COM) FOR LATEST PART INFORMATION**

# OPTION A

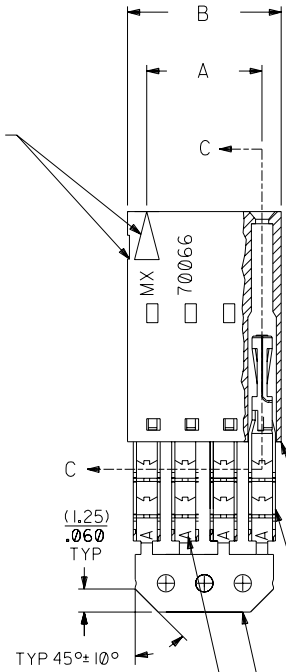
## NOTES:

- 1) TO BE USED WITH (24) AWG. STRANDED WIRE WITH (1.35)/.053 DIA. MAX. INSULATION.
- 2) SEE CHART FOR CIRCUIT SIZES.
- 3) STANDARD PACKAGING PER PK-70400-0001. OPTIONAL PACKAGING MAY BE AVAILABLE, REQUEST DWG. PK-70400
- 4) PARTS STACKABLE END TO END AND SIDE BY SIDE ON (2.54)/.100 CENTERS.
- 5) REFER TO PRODUCT SPECIFICATION: PS-70400.
- 6) SEE DWG. SDA-70400-\*\*\*\* (SHT. 5) FOR OPTIONAL HOUSING DETAILS.
- 7) 4 CIRCUIT SHOWN.
- 8) TO MATE WITH MOLEX (2.54)/.100 CENTERLINE HEADERS.

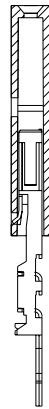
9) 2 CIRCUIT ASSEMBLIES SUPPLIED AS GROUPED PAIRS.



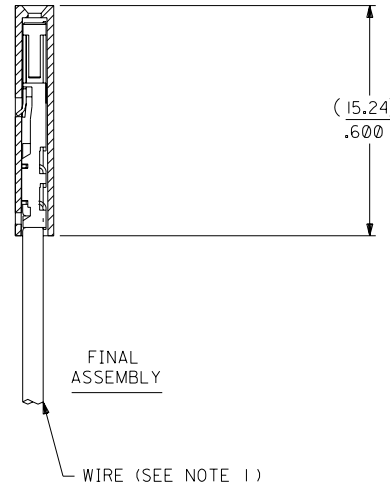
CIRCUIT NO. 1  
SLOT OR ARROW



### SECTION C-C



PRE-LOADED ASSEMBLY



FINAL ASSEMBLY

HOUSING PART NO. 70066-\*\*\*\*  
MATERIAL: G.F. POLYESTER, 94V-0

TERMINAL PART NO. 70028-\*\*\*\*  
MATERIAL: PHOSPHOR BRONZE  
PLATING PER ES-88-\*\*\*

30 GOLD - .000030 MIN. GOLD IN SELECT AREA WITH .000075 MIN. TIN IN SELECT AREA OVER .000050 MIN. NICKEL OVER-ALL.

\*THE PRIMARY SHIPPING CARTON WILL BE LABELED "COMPLIANT TO ROHS DIRECTIVE 2002/95/EC AND ELV ANNEX II OF DIRECTIVE 2000/53/EC". CARTONS WITHOUT THIS LABEL MAY CONTAIN PRODUCT WITH LEAD.

I.D. SLOT CODE TO WIRE GAUGE CHART	
I.D. SLOT CODE	WIRE GAUGE
A	24 AWG.

PLATING CODE (STRIPE ON CARRIER STRIP)	
PLATING	COLOR
30 GOLD	RED

CKT. SIZE	DIMENSIONS (INCH)		EDP. NO.	ENG. NO.
	A	B		
2	( 2.54 ) .100	( 5.05 ) .199	14-56-2027	A-70400-1051
3	( 5.08 ) .200	( 7.59 ) .299	14-56-2037	A-70400-1052
4	( 7.62 ) .300	( 10.13 ) .399	14-56-2047	A-70400-1053
5	( 10.16 ) .400	( 12.67 ) .499	14-56-2057	A-70400-1054
6	( 12.70 ) .500	( 15.21 ) .599	14-56-2067	A-70400-1055
7	( 15.24 ) .600	( 17.75 ) .699	14-56-2077	A-70400-1056
8	( 17.78 ) .700	( 20.29 ) .799	14-56-2087	A-70400-1057
9	( 20.32 ) .800	( 22.83 ) .899	14-56-2097	A-70400-1058
10	( 22.86 ) .900	( 25.37 ) .999	14-56-2107	A-70400-1059
11	( 25.54 ) 1.000	( 27.91 ) 1.099	14-56-2117	A-70400-1060
12	( 27.94 ) 1.100	( 30.45 ) 1.199	14-56-2127	A-70400-1061
13	( 30.48 ) 1.200	( 32.99 ) 1.299	14-56-2137	A-70400-1062
14	( 33.02 ) 1.300	( 35.53 ) 1.399	14-56-2147	A-70400-1063
15	( 35.56 ) 1.400	( 38.07 ) 1.499	14-56-2157	A-70400-1064
16	( 38.01 ) 1.500	( 40.61 ) 1.599	14-56-2167	A-70400-1065
17	( 40.64 ) 1.600	( 43.15 ) 1.699	14-56-2177	A-70400-1066
18	( 43.18 ) 1.700	( 45.69 ) 1.799	14-56-2187	A-70400-1067
19	( 45.72 ) 1.800	( 48.23 ) 1.899	14-56-2197	A-70400-1068
20	( 48.26 ) 1.900	( 50.77 ) 1.999	14-56-2207	A-70400-1069
21	( 50.80 ) 2.000	( 53.31 ) 2.099	14-56-2217	A-70400-1070
22	( 53.34 ) 2.100	( 55.85 ) 2.199	14-56-2227	A-70400-1071
23	( 55.88 ) 2.200	( 58.39 ) 2.299	14-56-2237	A-70400-1072
24	( 58.42 ) 2.300	( 60.93 ) 2.399	14-56-2247	A-70400-1073
25	( 60.96 ) 2.400	( 63.47 ) 2.499	14-56-2257	A-70400-1074

I.D. SLOT CODE TO WIRE GAUGE CHART	
I.D. SLOT CODE	WIRE GAUGE
A	24 AWG.

PLATING CODE (STRIPE ON CARRIER STRIP)	
PLATING	COLOR
30 GOLD	RED

REVISED PER ECR NO.	DATE	BY	REVISIONS
REVISED PER ECR NO. U82110	10-17-88	AAB	E
REVISE PER ECR #U80110	2/3/88	MJM	D
ADD CARRIER CHAMF ECR #UDT1998-0280	05/20/98	LMCGRATH	E1
REDRAWN ON CAD ECR# 8842	5/8/86	W.Z.	C

DIMENSIONS SHOWN (METRIC) INCH	
UNLESS OTHERWISE SPECIFIED TOLERANCES: ANGULAR ± 1/2°	
3 PLACE ± .010	METRIC ---
2 PLACE ± .014	± 0.25
1 PLACE ---	± 0.35

▽ =	▼ =	REVISE ONLY ON CAD SYSTEM
TITLE ASSEMBLY, SL CONNECTOR (SINGLE ROW- (2.54)/.100 GRID)		
MOLEX INCORPORATED LITSE, ILL. 60532 U.S.A.		SHEET NO. 10 / 10 / 84
PART NO. SDA-70400-1051-1074		DRWG. NO. SDA-70400-1051-1074
FILE NAME S70400AX7		DATE 10 / 10 / 84
THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INC. AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION.		

LTR.	REVISIONS	LTR.	REVISIONS

DRWG. BY WAZ	CHK'D BY WAZ
APP'D BY	SCALE 4 : 1

DA	DA	C
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