

PLEASE CHECK WWW.MOLEX.COM FOR LATEST PART INFORMATION

Part Number:

0014600058

Status:

Active

Overview:

cgrid\_sl\_products

Description:

2.54mm (.100") Pitch SL™ Insulation Displacement Connector Assembly, Female, Single Row, Version D, Back Ribs, Wire Size 24, 3.81µm (150µ") Tin/Lead (SnPb), 5 Circuits

Documents:

3D Model

Drawing (PDF)

Product Specification PS-70400 (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)

5

Color - Resin

Black

Durability (mating cycles max)

25

Entry Angle

Vertical

Flammability

94V-0

Lock to Mating Part

None

Material - Metal

Phosphor Bronze

Material - Plating Mating

Tin

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)

150

Plating min: Mating (µm)

3.75

Plating min: Termination (µin)

75

Plating min: Termination (µm)

1.875

Polarized to Mating Part

Yes

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

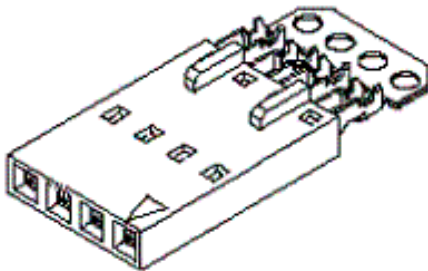


image - Reference only

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](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  
70004 Interim Clip (Single Row), 70013 Interim Clip (Dual Row)

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  
DescriptionProduct #  
Hawk Semi-0011201337  
Automatic Discrete

**Material Info**

Old Part Number 70400-0074

**Reference - Drawing Numbers**

Product Specification PS-70400  
Sales Drawing SDA-70400-0071-0094

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  
Hawk™ Semi- 0623003100  
Automatic Discrete  
Wire Terminator for  
SL

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# OPTION D

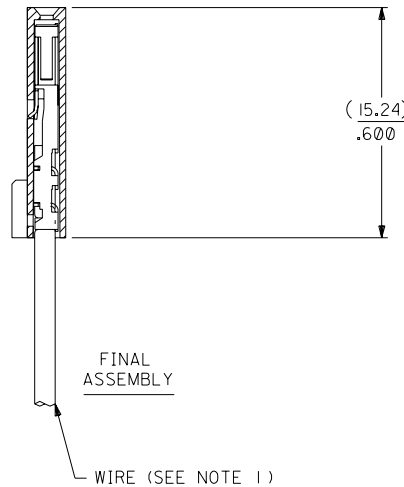
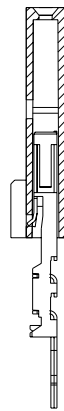
## NOTES:

- 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 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. 3 - 25 CKT'S. HAVE (2) RIBS.
- 8) TO MATE WITH MOLEX PART NO'S.: 70004-\*\*\*\*, 70013-\*\*\*\*

9) 2 CIRCUIT ASSEMBLIES SUPPLIED AS GROUPED PAIRS.



## SECTION C-C

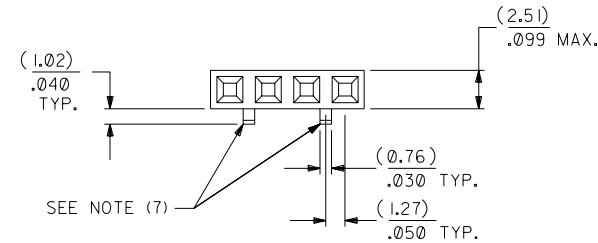


HOUSING PART NO. 70066-\*\*\*\*  
MATERIAL: G.F. POLYESTER, 94V-0

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

TIN - .000150 MIN. TIN OVER  
.000050 MIN. NICKEL PLATE.

CIRCUIT NO. 1  
SLOT OR ARROW



(3.81) .150 TYP.

(1.25) .060 TYP.

TYP 45°±10°

| 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 |
| TIN                                    | NONE  |

| CKT. SIZE | A                  | B                  | EDP. NO.   | ENG. NO.     |
|-----------|--------------------|--------------------|------------|--------------|
| 2         | ( 2.54 )<br>.100   | ( 5.05 )<br>.199   | 14-60-0028 | A-70400-0071 |
| 3         | ( 5.08 )<br>.200   | ( 7.59 )<br>.299   | 14-60-0038 | A-70400-0072 |
| 4         | ( 7.62 )<br>.300   | ( 10.13 )<br>.399  | 14-60-0048 | A-70400-0073 |
| 5         | ( 10.16 )<br>.400  | ( 12.67 )<br>.499  | 14-60-0058 | A-70400-0074 |
| 6         | ( 12.70 )<br>.500  | ( 15.21 )<br>.599  | 14-60-0068 | A-70400-0075 |
| 7         | ( 15.24 )<br>.600  | ( 17.75 )<br>.699  | 14-60-0078 | A-70400-0076 |
| 8         | ( 17.78 )<br>.700  | ( 20.29 )<br>.799  | 14-60-0088 | A-70400-0077 |
| 9         | ( 20.32 )<br>.800  | ( 22.83 )<br>.899  | 14-60-0098 | A-70400-0078 |
| 10        | ( 22.86 )<br>.900  | ( 25.37 )<br>.999  | 14-60-0108 | A-70400-0079 |
| 11        | ( 25.54 )<br>1.000 | ( 27.91 )<br>1.099 | 14-60-0118 | A-70400-0080 |
| 12        | ( 27.94 )<br>1.100 | ( 30.45 )<br>1.199 | 14-60-0128 | A-70400-0081 |
| 13        | ( 30.48 )<br>1.200 | ( 32.99 )<br>1.299 | 14-60-0138 | A-70400-0082 |
| 14        | ( 33.02 )<br>1.300 | ( 35.53 )<br>1.399 | 14-60-0148 | A-70400-0083 |
| 15        | ( 35.56 )<br>1.400 | ( 38.07 )<br>1.499 | 14-60-0158 | A-70400-0084 |
| 16        | ( 38.01 )<br>1.500 | ( 40.61 )<br>1.599 | 14-60-0168 | A-70400-0085 |
| 17        | ( 40.64 )<br>1.600 | ( 43.15 )<br>1.699 | 14-60-0178 | A-70400-0086 |
| 18        | ( 43.18 )<br>1.700 | ( 45.69 )<br>1.799 | 14-60-0188 | A-70400-0087 |
| 19        | ( 45.72 )<br>1.800 | ( 48.23 )<br>1.899 | 14-60-0198 | A-70400-0088 |
| 20        | ( 48.26 )<br>1.900 | ( 50.77 )<br>1.999 | 14-60-0208 | A-70400-0089 |
| 21        | ( 50.80 )<br>2.000 | ( 53.31 )<br>2.099 | 14-60-0218 | A-70400-0090 |
| 22        | ( 53.34 )<br>2.100 | ( 55.85 )<br>2.199 | 14-60-0228 | A-70400-0091 |
| 23        | ( 55.88 )<br>2.200 | ( 58.39 )<br>2.299 | 14-60-0238 | A-70400-0092 |
| 24        | ( 58.42 )<br>2.300 | ( 60.93 )<br>2.399 | 14-60-0248 | A-70400-0093 |
| 25        | ( 60.96 )<br>2.400 | ( 63.47 )<br>2.499 | 14-60-0258 | A-70400-0094 |

\*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.

|         |     |                                                             |        |      |  |                                               |  |                                                                                                                                                                                                        |  |  |  |                                                                                                                           |   |                            |     |                                 |   |           |        |         |     |   |      |                                                                   |  |  |  |
|---------|-----|-------------------------------------------------------------|--------|------|--|-----------------------------------------------|--|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|--|--|---------------------------------------------------------------------------------------------------------------------------|---|----------------------------|-----|---------------------------------|---|-----------|--------|---------|-----|---|------|-------------------------------------------------------------------|--|--|--|
| F       |     | LEAD FREE<br>UCP2004-1769<br>RWHITE 04/03/17                |        | D    |  | REVISED PER<br>ECR NO. U82110<br>10-17-88 AAB |  | DIMENSIONS SHOWN (METRIC) INCH<br>UNLESS OTHERWISE SPECIFIED<br>TOLERANCES: ANGULAR ± 1/2°                                                                                                             |  |  |  | ▽ = 0 ▼ = 0                                                                                                               |   | REVISE ONLY ON CAD SYSTEM  |     |                                 |   |           |        |         |     |   |      |                                                                   |  |  |  |
| E I     |     | ADD CARRIER CHAMF<br>ECN #UDT1998-0280<br>05/20/98 LMCGRATH |        | C    |  | REVISE PER<br>ECR #U80110<br>2/3/88 MJM       |  | <table><tr><td>3 PLACE</td><td>±</td><td>.010</td><td>---</td></tr><tr><td>2 PLACE</td><td>±</td><td>.014</td><td>± 0.25</td></tr><tr><td>1 PLACE</td><td>---</td><td>±</td><td>0.35</td></tr></table> |  |  |  | 3 PLACE                                                                                                                   | ± | .010                       | --- | 2 PLACE                         | ± | .014      | ± 0.25 | 1 PLACE | --- | ± | 0.35 | TITLE<br>ASSEMBLY, SL CONNECTOR<br>(SINGLE ROW- (2.54)/.100 GRID) |  |  |  |
| 3 PLACE | ±   | .010                                                        | ---    |      |  |                                               |  |                                                                                                                                                                                                        |  |  |  |                                                                                                                           |   |                            |     |                                 |   |           |        |         |     |   |      |                                                                   |  |  |  |
| 2 PLACE | ±   | .014                                                        | ± 0.25 |      |  |                                               |  |                                                                                                                                                                                                        |  |  |  |                                                                                                                           |   |                            |     |                                 |   |           |        |         |     |   |      |                                                                   |  |  |  |
| 1 PLACE | --- | ±                                                           | 0.35   |      |  |                                               |  |                                                                                                                                                                                                        |  |  |  |                                                                                                                           |   |                            |     |                                 |   |           |        |         |     |   |      |                                                                   |  |  |  |
| E       |     | 164 PLATING WAS<br>102<br>PER ECR # U30941<br>07/13/93 REED |        | B    |  | REDRAWN ON CAD<br>ECR# 8842<br>5/7/86 W.Z.    |  | DRAFT WHERE APPLICABLE MUST<br>REMAIN WITHIN DIMENSIONS                                                                                                                                                |  |  |  | MOLEX INCORPORATED<br>LITSE,ILL. 60532 U.S.A.                                                                             |   | SHEET NO.<br>DATE 10/09/84 |     |                                 |   |           |        |         |     |   |      |                                                                   |  |  |  |
|         |     |                                                             |        |      |  |                                               |  | DRWG. BY<br>WAZ                                                                                                                                                                                        |  |  |  | CHK'D. BY<br>WAZ                                                                                                          |   |                            |     |                                 |   |           |        |         |     |   |      |                                                                   |  |  |  |
|         |     |                                                             |        |      |  |                                               |  | APPR'D. BY<br>SCALE 4:1                                                                                                                                                                                |  |  |  | PART NO.<br>SEE CHART                                                                                                     |   |                            |     | DRG. NO.<br>SDA-70400-0071-0094 |   |           |        |         |     |   |      |                                                                   |  |  |  |
| LTR.    |     | REVISIONS                                                   |        | LTR. |  | REVISIONS                                     |  | FILE NAME<br>S70400DX1                                                                                                                                                                                 |  |  |  | THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO<br>MOLEX INC. AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION. |   |                            |     | DIV.<br>C                       |   | SIZE<br>C |        |         |     |   |      |                                                                   |  |  |  |