

PLEASE CHECK WWW.MOLEX.COM FOR LATEST PART INFORMATION

Part Number:

0014451811

Status:

Active

Overview:

cgrid\_sl\_products

Description:

2.54mm (.100") Pitch SL™ Insulation Displacement Connector Assembly, Male, Single Row, Version D, Back Ribs, for Wire Size 28, 3.81µm (150µ") Tin (Sn), 11 Circuits

Documents:

3D Model

Drawing (PDF)

Product Specification PS-70400 (PDF)

RoHS Certificate of Compliance (PDF)

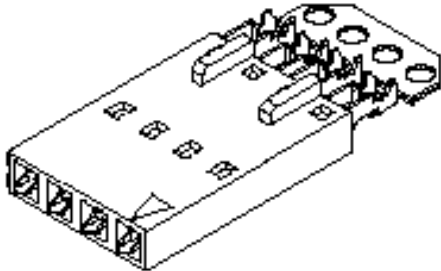
| Agency Certification |                                     |
|----------------------|-------------------------------------|
| CSA                  | LR19980                             |
| UL                   | E29179                              |
| General              |                                     |
| Product Family       | Ribbon Cable / Wire Trap Connectors |
| Series               | 70475                               |
| Comments             | Terminals Preloaded                 |
| Component Type       | Housing                             |
| Glow-Wire Compliant  | No                                  |
| Overview             | cgrid_sl_products                   |
| Product Name         | SL™                                 |

| Physical                       |                             |
|--------------------------------|-----------------------------|
| Circuits (Loaded)              | 11                          |
| Durability (mating cycles max) | 25                          |
| Entry Angle                    | Vertical                    |
| Flammability                   | 94V-0                       |
| Lock to Mating Part            | None                        |
| Number of Rows                 | 1                           |
| PCB Retention                  | None                        |
| Packaging Type                 | Tube                        |
| Pitch - Mating Interface (in)  | 0.100 In                    |
| Pitch - Mating Interface (mm)  | 2.54 mm                     |
| Polarized to Mating Part       | No                          |
| Stackable                      | Yes                         |
| Surface Mount Compatible (SMC) | N/A                         |
| Temperature Range - Operating  | -40°C to +105°C             |
| Wire Insulation Diameter       | 1.35mm (.053") max.         |
| Wire Size AWG                  | 28                          |
| Wire/Cable Type                | Discrete Wire, Ribbon Cable |

| Electrical                    |      |
|-------------------------------|------|
| Current - Maximum per Contact | 1.2A |
| Voltage - Maximum             | 250V |

Material Info

| Reference - Drawing Numbers |          |
|-----------------------------|----------|
| Product Specification       | PS-70400 |



Series  
image - Reference only

EU RoHS

China RoHS

Compliance Status

Not Reviewed

REACH SVHC

Not Reviewed

Halogen-Free

Status

Not Reviewed

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  
70475Series

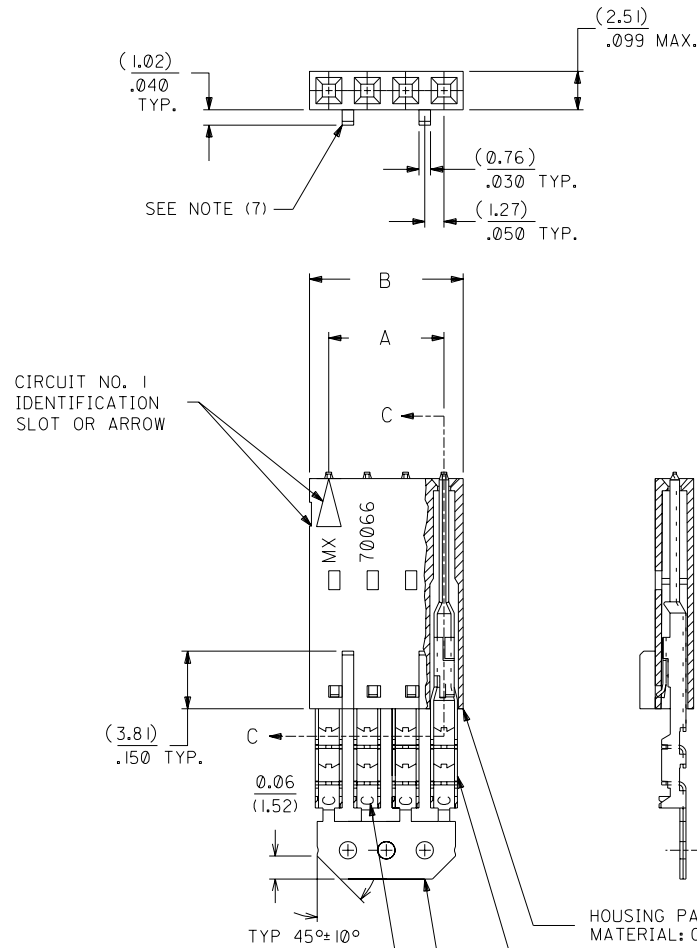
Mates With  
70004 Interim Clip (Single Row), 70013 Interim Clip (Dual Row)

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

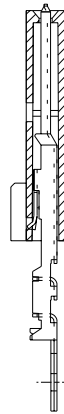
# OPTION D

## NOTES:

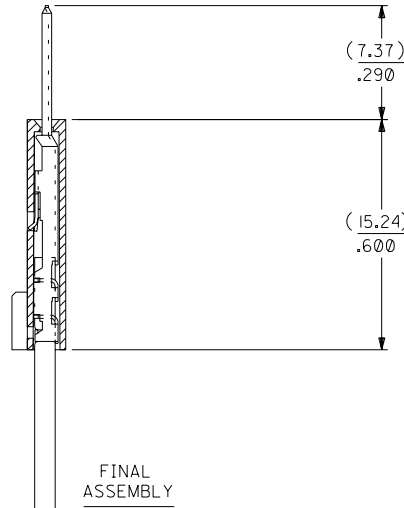
- 1) TO BE USED WITH (28) AWG. STRANDED WIRE WITH (1.35)/.053 DIA. MAX. INSULATION.
- 2) SEE CHART FOR CIRCUIT SIZES.
- 3) STANDARD PACKAGING PER PK-70873-0001. OPTIONAL PACKAGING MAY BE AVAILABLE, REQUEST DWG. PK-70475.
- 4) PARTS STACKABLE END TO END ON (2.54)/.100 CENTERS.
- 5) REFER TO PRODUCT SPECIFICATION: PS-70475.
- 6) SEE DWG. SDA-70475-\*\*\*\*\* (SHT.3) FOR OPTIONAL HOUSING DETAILS.
- 7) 4 CIRCUIT SHOWN. 3 - 25 CKT'S. HAVE (2) RIBS.
- 8) TO MATE WITH MOLEX PART NO'S.: 70018-\*\*\*\*, 70022-\*\*\*\*, 70104-\*\*\*\*.
- 9) 2 CIRCUIT ASSEMBLIES SUPPLIED AS GROUPED PAIRS.



## SECTION C-C



PRE-LOADED ASSEMBLY



FINAL ASSEMBLY

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

TERMINAL PART NO. 70110-\*\*\*\*  
MATERIAL: PHOSPHOR BRONZE  
PLATING PER ES-88-\*\*\*

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

\*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 |
| C                                  | 28 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   | 14-45-1802 | A-70475-0421 |
| 3         | ( 5.08 )<br>.200   | ( 7.59 )<br>.299   | 14-45-1803 | A-70475-0422 |
| 4         | ( 7.62 )<br>.300   | ( 10.13 )<br>.399  | 14-45-1804 | A-70475-0423 |
| 5         | ( 10.16 )<br>.400  | ( 12.67 )<br>.499  | 14-45-1805 | A-70475-0424 |
| 6         | ( 12.70 )<br>.500  | ( 15.21 )<br>.599  | 14-45-1806 | A-70475-0425 |
| 7         | ( 15.24 )<br>.600  | ( 17.75 )<br>.699  | 14-45-1807 | A-70475-0426 |
| 8         | ( 17.78 )<br>.700  | ( 20.29 )<br>.799  | 14-45-1808 | A-70475-0427 |
| 9         | ( 20.32 )<br>.800  | ( 22.83 )<br>.899  | 14-45-1809 | A-70475-0428 |
| 10        | ( 22.86 )<br>.900  | ( 25.37 )<br>.999  | 14-45-1810 | A-70475-0429 |
| 11        | ( 25.54 )<br>1.000 | ( 27.91 )<br>1.099 | 14-45-1811 | A-70475-0430 |
| 12        | ( 27.94 )<br>1.100 | ( 30.45 )<br>1.199 | 14-45-1812 | A-70475-0431 |
| 13        | ( 30.48 )<br>1.200 | ( 32.99 )<br>1.299 | 14-45-1813 | A-70475-0432 |
| 14        | ( 33.02 )<br>1.300 | ( 35.53 )<br>1.399 | 14-45-1814 | A-70475-0433 |
| 15        | ( 35.56 )<br>1.400 | ( 38.07 )<br>1.499 | 14-45-1815 | A-70475-0434 |
| 16        | ( 38.01 )<br>1.500 | ( 40.61 )<br>1.599 | 14-45-1816 | A-70475-0435 |
| 17        | ( 40.64 )<br>1.600 | ( 43.15 )<br>1.699 | 14-45-1817 | A-70475-0436 |
| 18        | ( 43.18 )<br>1.700 | ( 45.69 )<br>1.799 | 14-45-1818 | A-70475-0437 |
| 19        | ( 45.72 )<br>1.800 | ( 48.23 )<br>1.899 | 14-45-1819 | A-70475-0438 |
| 20        | ( 48.26 )<br>1.900 | ( 50.77 )<br>1.999 | 14-45-1820 | A-70475-0439 |
| 21        | ( 50.80 )<br>2.000 | ( 53.31 )<br>2.099 | 14-45-1821 | A-70475-0440 |
| 22        | ( 53.34 )<br>2.100 | ( 55.85 )<br>2.199 | 14-45-1822 | A-70475-0441 |
| 23        | ( 55.88 )<br>2.200 | ( 58.39 )<br>2.299 | 14-45-1823 | A-70475-0442 |
| 24        | ( 58.42 )<br>2.300 | ( 60.93 )<br>2.399 | 14-45-1824 | A-70475-0443 |
| 25        | ( 60.96 )<br>2.400 | ( 63.47 )<br>2.499 | 14-45-1825 | A-70475-0444 |

|      |                                                             |      |                                               |
|------|-------------------------------------------------------------|------|-----------------------------------------------|
| F    | LEAD FREE<br>UCP2004-1769<br>RWHITE 04/03/24                | D    | REVISED PER<br>ECR NO. U82124<br>10-17-88 MGB |
| EI   | ADD CARRIER CHAMF<br>ECN *UDT1998-0280<br>05/20/98 LMCGRATH | C    | REVISE PER<br>ECR *U81370<br>5/20/88 MJM      |
| E    | 164 PLATING WAS<br>102<br>PER ECR * U31149<br>08/09/93 REED | B    | REDRAWN ON CAD<br>ECR* 8842<br>5/9/86 W.Z.    |
| LTR. | REVISIONS                                                   | LTR. | REVISIONS                                     |

| DIMENSIONS SHOWN (METRIC) INCH                           |              |
|----------------------------------------------------------|--------------|
| UNLESS OTHERWISE SPECIFIED<br>TOLERANCES: ANGULAR ± 1/2° |              |
| 3 PLACE                                                  | INCH METRIC  |
| ± .010                                                   | ---          |
| 2 PLACE ± .014                                           | ± 0.25       |
| 1 PLACE ---                                              | ± 0.35       |
| DRAFT WHERE APPLICABLE MUST<br>REMAIN WITHIN DIMENSIONS  |              |
| DRWG. BY WAZ                                             | CHK'D BY WAZ |
| APP'D BY RL                                              | SCALE 4 : 1  |

|                                                |       |                                                                                                                        |
|------------------------------------------------|-------|------------------------------------------------------------------------------------------------------------------------|
| ▽ = 0                                          | ▼ = 0 | REVISE ONLY ON CAD SYSTEM                                                                                              |
| TITLE                                          |       | ASSEMBLY, SL CONNECTOR<br>(SINGLE ROW- (2.54)/.100 GRID)                                                               |
| MOLEX INCORPORATED<br>LITSE, ILL. 60532 U.S.A. |       | SHEET NO. 1<br>DATE 10/13/84                                                                                           |
| PART NO. SEE CHART                             |       | SDA-70475-0421-0444                                                                                                    |
| FILE NAME S704750X3                            |       | THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INC. AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION. |
| DIV.                                           |       | SIZE C                                                                                                                 |