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Jameco Part Number 796521

FEATURES AND SPECIFICATIONS

Features and Benefits

- Sizes 4 to 54 circuits
- End-to-end and side-to-side stackable for dual row connections to a 2.54mm (.100") pitch grid pin field

Physical

Housing: Black glass-filled polyester, UL 94V-0

Operating Temperature: -40 to +105°C

Reference Information

Product Specification: PS-70058 Packaging: Bag UL File No.: E29179 CSA File No.: LR19980 Mates With: 8624, 8723, 8724, 70029, 70203, 70204, 70227, 70260, 70280, 70287, 70567, 70568, 71308 and 71349 Molex dual row headers Use With: 70058 and 71851 crimp terminals **Designed In: Inches**



molex[•] 2.54mm (.100") Pitch SL™ **Crimp Housing**

70450

Dual Row Version A, Nonpolarized



Not For Use With C-Grid III[™] Components

CATALOG DRAWING (FOR REFERENCE ONLY)





ORDERING INFORMATION AND DIMENSIONS

| . | | Dimension | | <i>a</i> | | Dimension | |
|----------|--------------|---------------|---------------|----------|--------------|---------------|---------------|
| Circuits | Order No. | Α | В | Circuits | Urder No. | Α | B |
| 4 | • 22-55-2041 | 5.05 (.199) | 2.54 (.100) | 30 | • 22-55-2301 | 38.07 (1.499) | 35.56 (1.400) |
| 6 | • 22-55-2061 | 7.59 (.299) | 5.08 (.200) | 32 | • 22-55-2321 | 40.61 (1.599) | 38.10 (1.500) |
| 8 | • 22-55-2081 | 10.13 (.399) | 7.62 (.300) | 34 | • 22-55-2341 | 43.15 (1.699) | 40.64 (1.600) |
| 10 | • 22-55-2101 | 12.67 (.499) | 10.16 (.400) | 36 | • 22-55-2361 | 45.69 (1.799) | 43.18 (1.700) |
| 12 | • 22-55-2121 | 15.21 (.599) | 12.70 (.500) | 38 | • 22-55-2381 | 48.23 (1.899) | 45.72 (1.800) |
| 14 | • 22-55-2141 | 17.75 (.699) | 15.24 (.600) | 40 | • 22-55-2401 | 50.77 (1.999) | 48.26 (1.900) |
| 16 | • 22-55-2161 | 20.29 (.799) | 17.78 (.700) | 42 | • 22-55-2421 | 53.31 (2.099) | 50.80 (2.000) |
| 18 | • 22-55-2181 | 22.83 (.899) | 20.32 (.800) | 44 | • 22-55-2441 | 55.85 (2.199) | 53.34 (2.100) |
| 20 | • 22-55-2201 | 25.37 (.999) | 22.86 (.900) | 46 | • 22-55-2461 | 58.39 (2.299) | 55.88 (2.200) |
| 22 | • 22-55-2221 | 27.91 (1.099) | 25.40 (1.000) | 48 | • 22-55-2481 | 60.93 (2.399) | 58.42 (2.300) |
| 24 | • 22-55-2241 | 30.45 (1.199) | 27.94 (1.100) | 50 | • 22-55-2501 | 63.47 (2.499) | 60.96 (2.400) |
| 26 | • 22-55-2261 | 32.99 (1.299) | 30.48 (1.200) | 52 | • 22-55-2521 | 66.01 (2.599) | 63.50 (2.500) |
| 28 | • 22-55-2281 | 35.53 (1.399) | 33.02 (1.300) | 54 | • 22-55-2541 | 68.55 (2.699) | 66.04 (2.600) |

• US Standard Product, available through Molex franchised distributors

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"SL CRIMP TERMINAL"

1.0 SCOPE This specification covers the crimp terminal #70058-**** used with the single row fully stackable connector housing #70066-****, and the dual row fully stackable connector housing #70450-****.

2.0 PRODUCT DESCRIPTION



SERIES 70058 TERMINAL

- 2.1 Product is available in single row 2-25 circuits, on (2.54) .100" centers, or dual row 4-50 circuits on (2.54) .100 x (2.54) .100 centers.
- 2.2 Connector assemblies will mate with the following:
 - 2.2.1 (0.64) .025" square or round pins assembled directly into P.C. board on .100 centers.
 - 2.2.2 Shrouded or unshrouded single or dual-row wafers, with (0.64) .025 square or round pins.
- 2.2 Connectors are stackable end to end, side to side on (2.54) .100" center pins with option "A" housing only.
 - 2.2.1 Polarizing ribs available on front of housing for use with headers, or on back for use with interim clip assemblies, housing #70066-**** only.
 - 2.2.2 Active latch with polarizing ribs, for use with headers, housing #70066-**** only.
- 2.3 Maximum mating pin height to be (8.13) .320", minimum pin height to be (5.08) .200". Pin height, measured from top of wafers or P.C. board, to top of pin.

| <u>REVISION:</u> | ECR/ECN INFORMATION: | TITLE: PRODUCT SPECIFICATION | | | SHEET No. |
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| F | EC No:UDT2002-1319 | FOR SL CRIMP TERMINAL | | 1 of 8 | |
| | DATE:2002/04/30 | | 1010 | | |
| DOCUMENT NUMBER: | | CREATED / REVISED BY: CHECKED BY: | | APPRO\ | /ED BY: |
| PS-70058 | | ACHAMMER BRINKMAN | | BRINK | (MAN |
| TEMPLATE FILENAME: PRODUCT SPECISIZE A)(V.1).DOC | | | | | |



"SL CRIMP TERMINAL"

2.4 Connector assembly will accept wire range from 36 to 20 AWG. Refer to the table below for the wire gage, wire requirements, and crimp height.

| CRIMP HEIGHT | WIRE TYPE |
|----------------|--|
| .027" to .029" | Stranded, Stranded |
| | Tinned, Stranded |
| .030" to .032" | Top Coated |
| .031" to .033" | 1.52mm/.060in Maximum Insulation Diameter |
| .033" to .035" | Stranded, Stranded Tinned, Stranded Top |
| .033" to .035" | Coated 1.63mm/.064in Maximum Insulation Diameter |
| .033" to .035" | Stranded 0.5mm ² /.0078in ² Maximum Conductor Area. PVC Insulation, 1.70mm/.067in |
| | CRIMP HEIGHT .027" to .029" .030" to .032" .031" to .033" .033" to .035" .033" to .035" .033" to .035" |

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| DATE: 2002 / 04 / 30 | | SERIES 70058 | | | |
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| m | |) | Ρ | RODUCT SPEC | IFICATION | | | |
|-----|--------|------------------------------------|----------------------------|---|---|-------------------------------------|--|--|
| | | | | "SL CRIMP TERM | MNAL" | | | |
| 3.0 | RECO | DGNIZI | ED AGEN | CY APPROVALS | | | | |
| | 3.1 | Unde | rwriters La | aboratories: UL #E29179. | | | | |
| | 3.2 | Cana | dian Stan | dards Associations: CSA # | LR19980. | | | |
| 4.0 | MECI | HANIC | AL SPEC | FICATIONS | | | | |
| | 4.1 | Mater | rials | | | | | |
| | | 4.1.1 | Housing | #70066-**** and #70450-** | ** is molded of black G | .F. polyester 94V-0. | | |
| | | 4.1.2 | Terminal | erminal 70058-**** is a high strength copper alloy. | | | | |
| | | | 4.1.2.1 | Finish .000200 min. electr overall. | nish .000200 min. electro-tin plate over .000100 min. copper plate erall. | | | |
| | | | 4.1.2.2 | inish .000015 min. gold plate in selected area over .000050 min. hickel overall, with .000075 min. electro-tin lead (90/10) in selected area. | | | | |
| | | | 4.1.2.3 | Finish .000030 min. gold in selected area over .000050 min. nickel plate overall, with .000075 min. electro-tin/lead (90/10) in selected area. | | | | |
| | | | 4.1.2.4 | 4 For special finish requirements, consult Molex marketing as to availability, cost and lead time. | | | | |
| | 4.2 | Termi | inal Pull-O | ut Force, from Housing: | | | | |
| | | Must | withstand | gradual applied force of 4 p | ounds for 15 seconds. | | | |
| | 4.3 | Insula | ating Mate | rials: | | | | |
| | | Temp | erature ra | ting -40°C to +105 | 5°C | | | |
| | | | | | | | | |
| REV | ISION: | ECR/ECN | | | | ON SHEET No. | | |
| | F | <u>EC No:</u> U <u>DATE:</u> 2(| DT2002-13 002 / 04 / 30 | ¹⁹ FOR S | SERIES 70058 | AL 3 of 8 | | |
| DOC | CUMENT | NUMBER PS-700 | <u>R:</u>)58 | CREATED / REVISED BY: ACHAMMER | CHECKED BY: BRINKMAN | APPROVED BY: BRINKMAN | | |
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"SL CRIMP TERMINAL"

4.4 Insertion/Withdrawal Forces:

| PLATING TYPE | AFTER | R 1 CYCLE | AFTER | 10 CYCLES | AFTER 2 | 25 CYCLES | AFTER | 50 CYCLES |
|-----------------|-----------|------------|-----------|------------|-----------|------------|-----------|------------|
| | INSERTION | WITHDRAWAL | INSERTION | WITHDRAWAL | INSERTION | WITHDRAWAL | INSERTION | WITHDRAWAL |
| | FORCE | FORCE | FORCE | FORCE | FORCE | FORCE | FORCE | FORCE |
| TIN | .32 lbf | .26 lbf | .23 lbf | .27 lbf | .24 lbf | .25 lbf | No | No |
| 4.4.1 | 1.4 N | 1.2 N | 1.0 N | 1.2 N | 1.1 N | 1.1 N | Data | data |
| GOLD | .34 lbf | .18 lbf | .27 lbf | .15 lbf | No | No | .25 lbf | .14 lbf |
| 4.4.4 | 1.5 N | 0.8 N | 1.2 N | 0.7 N | Data | Data | 1.1 N | 0.6 N |

*Steel gage pins used to perform test: Insertion Gage Pin:

.0260+.0000-.0001 Withdrawal Gage Pin:

.0240+.0001-.0000

- 4.4.1 "Tin" Plating System: .000200 Min. Tin over .000100 Min. copper
- 4.4.2 "Gold" Plating System: .000030 Min. Gold over .000050 Min. nickel
- ELECTRICAL/ENVIRONMENTAL SPECIFICATIONS: 5.0
 - 5.1 The following performance criteria is based on grouped, sequential testing.
 - 5.2 All contact resistance values measured at 20 millivolts max. open circuit voltage and 5-15 milliamperes using the 4 point dry circuit method, with a Hewlett-Packard Milliohmeter, Model #4328A.
 - 5.3 All tin contact systems cycled 1, 5 & 25 times prior to grouped sequential testing, using (0.64) .025" square pins with .000200 min. tin over .000100 min. copper.

All gold contact systems cycled 1, 25 & 50 times prior to grouped sequential testing, using (0.64) .025" square pins with .000030 min. gold over .000050 min. nickel.

| REVISION: | ECR/ECN INFORMATION: EC No: UDT2002-1319 DATE: 2002 / 04 / 30 | TITLE: PRODUCT SPECIFICATION FOR SL CRIMP TERMINAL SERIES 70058 | | | <u>SHEET No.</u> 4 of 8 |
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| TEMPLATE FILENAME: PRODUCT_SPEC[SIZE_A](V.1).DOC | | | | | |



"SL CRIMP TERMINAL"

5.4 Group I Sequence: Mated Environment

| | Test/Specifications | Test Severity/Duration |
|-------|--|--|
| 5.4.1 | Thermal Shock IEC 68-2-14 | -40°C to +105°C 30 minute dwell at each temperature is one cycle. 10 cycles |
| 5.4.2 | Thermal Aging Mil. Std202F, 108A | +105°C for 10 days |
| 5.4.3 | Cyclic Humidity Mil. Std202F, 106D without cold dip | Temperature cycles between +25°C to +65°C at 96% R.H. for 240 hours. |
| 5.4.4 | Flowers of Sulphur | Exposed to sulphur vapors for 24 hours at +65°C. |
| 5.4.5 | Contact Resistance not to exceed 15 milliohms, total | |

| REVISION: | ECR/ECN INFORMATION: | TITLE: PRODUCT SPECIFICATION | | | SHEET No. |
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| PS-70058 | | ACHAMMER BRINKMAN BRINKM | | (MAN | |
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"SL CRIMP TERMINAL"

5.5 Group II Sequence: Un-Mated Environment:

| | Test/Specifications | Test Severity/Duration |
|-------|---|--|
| 5.5.1 | Thermal Shock IEC 68-2-14 | -40°C to +105°C 30 minute dwell at each temperature is one cycle. 10 cycles |
| 5.5.2 | Thermal Aging Mil. Std202F, 108A | +105°C for 10 days |
| 5.5.3 | Steady State Humidity Mil. Std202F, 103B Condition A | +40°C at 96% R.H. for 10 days |
| 5.5.4 | Flowers of Sulphur IEC 69-2-42 | Exposed to sulphur vapors for 24 hours at +65°C |
| 5.5.5 | Mate once, contact resistance not to exceed 15 milliohms, total | |

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"SL CRIMP TERMINAL"

5.6 Group III Sequence: Mated Environment Gold Contact System

| | Test/Specifications | Test Severity/Duration |
|-------|---|--|
| 5.6.1 | Steady State Humidity, Mil. Std202F, 103B Condition A | +40°C at 96% R.H. for 10 days. |
| 5.6.2 | Salt Spray Mil. Std202F 101D, Condition A | 96 hours at +35°C, 5% sodium chloride |
| 5.6.3 | Physical Shock Mil. Std202F 213B | ¹ / ₂ Sine Wave, 50G, 11MS pulse 3 shocks per axis for 240 hours. |
| 5.6.4 | Vibration Mil. Std. -202F, 201A | 10-55-10 HZ, 1 minute cycles for 2 hours in each axis. .03 inch excursion, 10G. |
| 5.6.5 | Contact resistance not to exceed 15 milliohms, total | |

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"SL CRIMP TERMINAL"

5.7 Group IV Sequence: Mated Electrical

| | Test/Specifications | Test Severity/Duration | | | | |
|-------|---|--|--|--|--|--|
| 5.7.1 | Steady State Humidity, Mil. Std202F, 103B Condition A | +40°C at 96% R.H. for 10 days. | | | | |
| 5.7.2 | Temperature Rise | Increase current to achieve 30°C rise above ambient. Dwell for 48 hours at that current. | | | | |
| 5.7.3 | Current Ratings: | 30 Awg - 0.7A 36 Awg - 0.21A 28 Awg - 1.2A 34 Awg - 0.32A 26 Awg - 1.8A 32 Awg045A 24 Awg - 3.0A 22 Awg - 3.0A | | | | |

- 5.8 Insulation Resistance: Per Mil. Std. 202, Method 302, Condition B. Resistance measured after sequence 5.5.1 thru 5.5.5 to be no less than 10K megohms.
- 5.9 Dielectric Strength: AC voltage increased until breakdown.

Voltage measured after sequence 5.5.1 thru 5.5.5 to be no less than 600 volts AC R.M.S. for 1 minute at sea level to 5,000 feet.

5.10 Capacitance: Less than 1.2 pico-farads.

| <u>REVISION:</u> | ECR/ECN INFORMATION: | TITLE: PRODI | <u>SHEET No.</u> | | | | | |
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|-----------------|----|------------|--------------------|-----------------------------|---------|------------------------------|---------------------------------|--|--------|--------------------------------------|--|---------------------------------------|---|--|-------------------------|-----------------|
| Γ | | | | • | | | | | • | | CKT. SIZE | EDP. NO. | ENG. NO. | Α | В | |
| . | | | | | | NOTES: | | | | | 4 | 022-55-2041 | 70450-0001 | <u>(2.54)</u> .100 | <u>(5.05)</u> .199 | |
| 3 | | | | | | I) MATERI | IAL: G.F. POLY | ESTER | | | 6 | 022-55-2061 | 70450-0002 | (5.08) | .299 | J |
| | | | | | | 2) HOUSIN PT. N | NG TO BE USED 10. 70058-**** | WITH TERMINA & 70028-**** | LS | | 8 | 022-55-2081 | 70450-0003 | <u>(7.62)</u> .300 | <u>(10.13)</u> .399 | |
| | | | -OPTION | "A"- | | 3) SEE CH 4) TO BE | HART FOR CIRC USED WITH (0) | UIT SIZES. 64)/025 SO O | R RD | PINS | 10 | 022-55-2101 | 70450-0004 | <u>(10.16)</u> .400 | (12.67) .499 | |
| | | | | | | 5) PARTS | STACKABLE EN | ND TO END AND | SIDE | BY | 12 | 022-55-2121 | 70450-0005 | (12.70) .500 | (15.21) .599 | |
| 1 | | | | | | 6) REFER | TO PRODUCT | SPECIFICATION | PS-700 | 058. | 14 | 022-55-2141 | 70450-0006 | (15.24) | <u>(17.75)</u> .699 | 1 |
| | | | ► B - | | | 7) PACKA | .GE PER PK-704 | 150-100. | | | 16 | 022-55-2161 | 70450-0007 | (17.78) .700 | (20.29) .799 | |
| | | | − A → | - | | | | | | | 18 | 022-55-2181 | 70450-0008 | (20.32) .800 | (22.83) .899 | |
| | | | | | | | | | | | 20 | 022-55-2201 | 70450-0009 | (22.86) .900 | <u>(25.37)</u> .999 | |
| н | | | | | | | | | | | 22 | 022-55-2221 | 70450-0010 | (25.40) 1.000 | (27.91) 1.099 | н |
| | | | | MA (<u>5.05)</u> 199 MA | X. REF. | | | | | | 24 | 022-55-2241 | 70450-0011 | (27.94) 1.100 | (30.45) 1.199 | |
| | | | | | | | | | | | 26 | Ø22-55-226I | 70450-0012 | (30.48) 1.200 | (32.99) 1.299 | |
| ~ | | | | | | | | | | | 28 | 022-55-2281 | 70450-0013 | (<u>33.02)</u> 1.300 | <u>(35.53)</u> 1.399 | ~ |
| G | | | | | | | | | | | 30 | 022-55-2301 | 70450-0014 | (35.56) 1.400 | (38.07) 1.499 | 6 |
| | | | | | | | | | | | 32 | 022-55-2321 | 70450-0015 | (38.10) 1.500 | (40.6 l) 1,599 | |
| | | | | | | | | | | | 34 | 022-55-2341 | 70450-0016 | (40.64) 1.600 | <u>(43.15)</u> 1.699 | |
| _ | | | | | | | | | | 36 | Ø22-55-236I | 70450-0017 | (43.18) 1.700 | (45.69) 1.799 | - | |
| F | | | C 🔫 | 1 | | | | | | | 38 | Ø22-55-238I | 70450-0018 | (45.72) 1.800 | (48.23) 1.899 | F |
| | | CKT. NO. I | | | | E (] I | | | | | 40 | 022-55-2401 | 70450-0019 | (48.26) 1.900 | (50.77) 1.999 | |
| | | | | | | | | | | | 42 | 022-55-2421 | 70450-0020 | (50.80) 2.000 | <u>(53.31)</u> 2.099 | _ |
| _ | | | | | | | | | | | 44 | 022-55-2441 | 70450-0021 | <u>(53.34)</u> 2.100 | <u>(55.85)</u> 2.199 | |
| C | | | | 46 | | (<u>15.24</u>) .600 REF | | | | | 46 | 022-55-246I | 70450-0022 | <u>(55.88)</u> 2.200 | <u>(58.39)</u> 2.299 | 7045 |
| | | | = | | | | | | | | 48 | 022-55-2481 | 70450-0023 | <u>(58.42)</u> 2.300 | <u>(60.93)</u> 2.399 | 9 |
| | | | ×Ψ | | | | | | | | 50 | 022-55-2501 | 70450-0024 | (60.96) 2.400 | <u>(63.47)</u> 2.499 | |
| п | | | | <u>+</u> B | | | | | | | 52 | 022-55-2521 | 70450-0025 | (63.50) 2.500 | <u>(66.01)</u> 2.599 | п |
| U | | | C 🔫 | | | | | | | | 54 | 022-55-2541 | 70450-0026 | (66.04) 2.600 | <u>(68.55)</u> 2.699 | U |
| | | | | | SECTIO | N C-C | | | | | | | | | _ | |
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| | | | | | | | | | D | PER ECR # U00293 07-13-90 MGB/DJK | UNLESS OTHERWISE TOLERANCES: ANGULA | R + 1/2° | | NINECTOR | LAD SYSTEM | |
| | | | | | | | | ADD PKG NOTE | | ADD NOTE 6 | | METRIC + 0.25 | HUUSING - CO DUAL RO | NNELIUR W | _ | |
| Δ | | | | | | | | PER UDT2000-0468 SCHAFER 99/12/1 REVISED PER | | PER ECR #10059 05/01/87 MJM/JAS | 1 PLACE | ± 0.35 | EX INCORPORAT | | DATE 10 /22 /86 | Α |
| | | | | | | | E | ECN UDT 1999-0722 R.S.FOX 99/03/09 | в | REDRAWN ON CAD PER ECR #9296 | DRAFT WHERE APPLIC REMAIN WITHIN DI | ABLE MUST IENSIONS PART NO. SEE | | 70450-00 | 01-0026 | |
| ļ | | | | | 1 | 1 | LTR. | REVISIONS | LTR. | REVISIONS AF | PP'D. WAZ SCALE | 4: 570450X1 DGN | THIS DRAWING CONTAINS INFORMAT NOLEX INC. AND SHOULD NOT BE USED | ION THAT IS PROPRIETARI WITHOUT WRITTEN PERMI | SSION DA C | 、 、 |
| | 13 | 12 | 11 | 10 | 9 | 8 | 7 | 6 | | 5 | 4 | 3 | 2 | | I | $\overline{\ }$ |