

PRODUCT SPECIFICATION MALE CRIMP CONNECTOR ASSEMBLY



LANGUAGE

ENGLISH

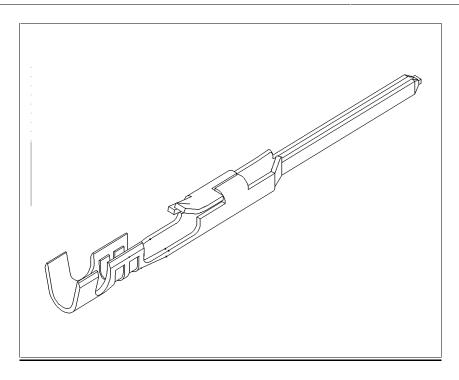


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1.0 SCOPE:

This specification covers the crimp terminal 70021-*** used with housings 70066-*** and 70107-***.

2.0 PRODUCT DESCRIPTION:

- 2.1 Product is available in single row 2-25 circuits, on .100 centers.
- 2.2 Connector housings 70066-*** and 70107-*** are used with terminals 70021-***.
- 2.3 Connector assembly will mate with the following:
 - 2.3.1 Connector assemblies with terminals 70058-*** female crimp and 70028-*** female I.D.T.
- 2.4 Connectors are stackable end to end, or side to side, on .100" center pins when using option "A" housing.
- 2.5 Maximum pin height to be .300", minimum height to be .280", measured from top of housing.
- 2.6 Connector to accept wire range from:
 - 30 to 24 AWG stranded wire with .060" dia. max. insulation,
 - 36 to 32 AWG stranded wire with .025" dia. max. insulation,
 - 22 to 24 AWG stranded wire with .064" dia. max. insulation.

3.0 RECOGNIZED AGENCY APPROVALS:

- 3.1 Underwriters Laboratories: UL #E29179
- 3.2 Canadian Standards Association: CSA #LR19980

4.0 MECHANICAL SPECIFICATIONS:

- 4.1 Housing 70066-**** is molded of black, glass-filled polyester 94V-0.
- 4.2 Terminal 70021-**** is a high strength copper alloy.
 - 4.2.1 Finish, Tin: .000200" min. electrotin plate over .000050" min. nickel plate overall.
 - 4.2.2 Finish, Select Gold: .000015" min. gold plate in selected area over .000050" min. nickel overall, with .000075" min. tin plate in selected area.
 - 4.2.3 Finish, Select Gold: .000030" min. gold in selected area over .000050" min. nickel plate overall, with .000075" min. tin plate in selected area.
 - 4.2.4 For special finish requirements, consult with your local Molex sales representative.

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- 4.3 Strain Relief Strength: E.I.A. RS-186-D, method 6; and Mil. Std. 202E, Method 211A.
- 4.4 Temperature rating of materials: G.F. polyester, 94V-0, black -40°C to +120°C.
- 4.5 Terminal pull-out force from housing must withstand gradually applied force of 4 pounds for 15 seconds.

5.0 ELECTRICAL SPECIFICATIONS:

5.1 Rated voltages, currents:

Dry circuit: Open circuit voltage 20 mV max.

Short circuit current 20 mA max.

5.2 Contact resistance @ rated current, 30°C temperature rise after 25 cycles of engage/disengage. Contact resistance must be less than 15 milliohms.

Rated current: 36 AWG - 0.21A

34 AWG - 0.32A 32 AWG - 0.45A 30 AWG - 0.7A 28 AWG - 1.2A

26 AWG - 1.8A 24 AWG - 3.0A 22 AWG - 3.0A

- 5.3 Dielectric Strength: AC voltage increased until breakdown. Voltage measured to be no less than 600 volts AC R.M.S. for 1 minute at sea level to 5,000 feet.
- 5.4 Insulation Resistance: 1,000 megohms minimum Mil. Std. 202, Method 302, Condition B.

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6.0 ENVIRONMENTAL SPECIFICATIONS:

- 6.1 Thermal Aging: Heat soak @ 105°C for 7 days. Measured contact resistance must be less than 15 milliohms.
- 6.2 Thermal Shock: Mil. Std. 202E, Method 107C, condition A. Measured contact resistance must be less than 15 miliohms.
- 6.3 Shock: Mil. Std. 202, Method 205, Condition A (15G). Measured contact resistance must be less than 15 milliohms.
- 6.4 Humidity: Mil. Std. 202E, Method 103B, Condition A. Measured contact resistance must be less than 15 milliohms.

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Part Number: 0016020077

Status: Active

Overview: SL

Description: SL[™] Crimp Terminal, Series 70021, Male, with 0.38μm (15μ") Selective Gold (Au)

Plated Contact, 24-30 AWG, Reel

Documents:

<u>Drawing (PDF)</u> <u>Related Catalog Page (PDF)</u>

Product Specification PS-70021 (PDF)

General

Product Family Crimp Terminals

Physical

Gender Male

Material - Metal Phosphor Bronze

 $\begin{array}{ccc} \text{Material - Plating Mating} & \text{Gold} \\ \text{Material - Plating Termination} & \text{Tin} \\ \text{Packaging Type} & \text{Reel} \\ \text{Plating min: Mating (μin)} & 15 \\ \text{Plating min: Mating (μm)} & 0.375 \\ \text{Plating min: Termination (μin)} & 75 \\ \text{Plating min: Termination (μm)} & 1.875 \\ \end{array}$

Termination Interface: Style Crimp or Compression Wire Insulation Diameter 1.52mm (.060") max.

 Wire Size AWG
 24

 Wire Size AWG
 26

 Wire Size AWG
 28

 Wire Size AWG
 30

 Wire Size mm²
 N/A

Material Info

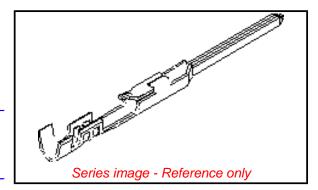
Old Part Number 70021-0006

Reference - Drawing Numbers

Product Specification PS-70021

 Sales Drawing
 SD-70021-0*06_0*23

 Sales Drawing
 SD-70021-0006



EU RoHS
ELV and RoHS
Compliant



Need more information on product environmental compliance?

Email <u>productcompliance@molex.com</u>
Please visit the <u>Contact Us</u> section for any non-product compliance questions.

Search Parts in this Series

70021 Series

Application Tooling

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 #T2 Terminator0639103400Tooling Die0011030036

Insertion Tool 0011020022
Hand Crimp Tool, UL 0638118800

Approved

FineAdjust™ <u>0639003400</u>

Applicator for SL™ Male Crimp Terminal, 24-30

AWG **Japan**

Description Product #

Applicator for M211A <u>0570173000</u>

Bench Press, 22-30 AWG, for 70021 Crimp Terminal

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