

PRODUCT SPECIFICATION MALE CRIMP CONNECTOR ASSEMBLY



LANGUAGE

ENGLISH

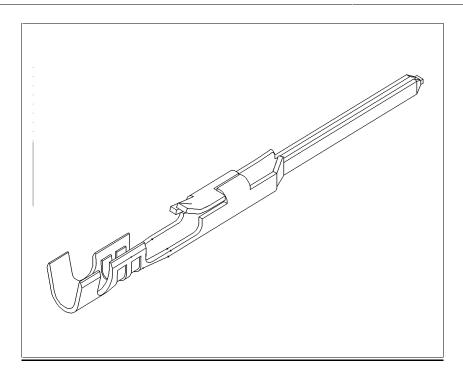


TABLE OF CONTENTS

SECTION	DESCRIPTION	PAGE NUMBER
1.0	SCOPE	2
2.0	PRODUCT DESCRIPTION	2
3.0	RECOGNIZED AGENCY APPROVALS	2
4.0	MECHANICAL SPECFICATIONS	2
5.0	ELECTRICAL SPECIFICATIONS	3
6.0	ENVIRONMENTAL SPECIFICATIONS	4

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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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