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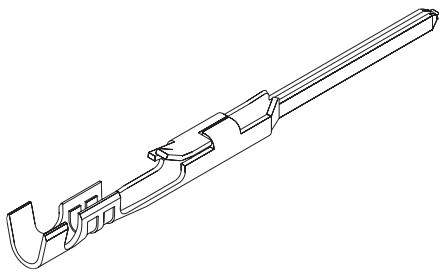
2.54mm (.100") Pitch

SL™

Terminal

70021

Male, Crimp



Not For Use With C-Grid III™ Components

Reel				
Order No.	Plating	Wire Range (AWG) Stranded	Insulation Maximum Outside Diameter	Lead-free
16-02-0116	1	22-24	1.63 (.064)	Yes
16-02-0078		24-30	1.52 (.060)	
16-02-0081	2	22-24	1.63 (.064)	Yes
16-02-0077		24-30	1.52 (.060)	
16-02-0107	3	22-24	1.63 (.064)	Yes
16-02-0105		24-30	1.52 (.060)	

Plating No. 1: 30 μ " min. Gold in select area over 50 μ " min. Nickel overall with 75 μ " Tin in select area

Plating No. 2: 15 μ " min. Gold in select area over 50 μ " min. Nickel overall with 75 μ " min. Tin in select area

Plating No. 3: 150 μ " Tin over 50 μ " Nickel overall

Each reel contains 20,000 terminals

Features and Benefits

- Dual tab strain relief
- Locking tang secures terminal in housing

Reference Information

Product Specification: PS-70021

Packaging: Reel or bag

Mates With: 70058 and 71851 female crimp terminals, and 70400 and 70430 connector assemblies

Use With: 70066D and 70107 housings

Designed In: Inches

Electrical

Voltage: 250V

Current: 3.0A

Contact Resistance: 15 milliohms max.

Insulation Resistance: 10,000 Megohms min.

Mechanical

Wire Pull-Out Force: 17.79N (4.0 lb) min.

Durability: Tin—25 cycles; Gold—50 cycles

Physical

Contact: Copper Alloy

Plating: See Table

Operating Temperature: -40 to +105°C

Wire Gauge: 22 to 24 and 24 to 30 AWG

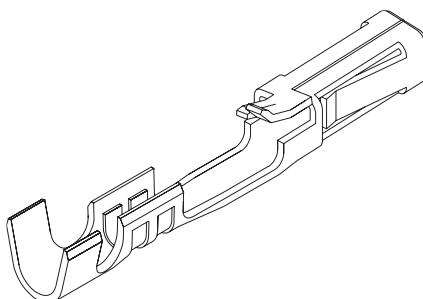
2.54mm (.100") Pitch

SL™

Terminal

70058

Female Box, Crimp



Features and Benefits

- Dual beam, fully-enclosed box contact
- Dual tab strain relief
- Locking tang secures terminal in housing

Reference Information

Product Specification: PS-70058

Packaging: Reel or bag

Mates With: 70021 male crimp terminals and 0.64mm (.025") square pins

Use With: All 70066 and 70450 housings

Designed In: Inches

Electrical

Voltage 250V

Current: 3.0A

Contact Resistance: 15 milliohms max.

Insulation Resistance: 10,000 Megohms min.

Mechanical

Contact Retention to Housing: 17.79N (4.0 lb) min.

Wire Pull-Out Force: 17.79N (4.0 lb) min.

Mating Force: 2.22N (.50 lb) max.

Unmating Force: 0.28N (.06 lb) min.

Normal Force: 0.98N (.22 lb) min.

Durability: Tin—25 cycles; Gold—50 cycles

Physical

Contact: Copper Alloy

Plating: See Table

Operating Temperature: -40 to +105°C

Wire Gauge: 22 to 24 and 24 to 30 AWG

Not For Use With C-Grid III™ Components

Reel				
Order No.	Plating	Wire Range (AWG) Stranded	Insulation Maximum Outside Diameter	Lead-free
16-02-0088	1	22-24	1.63 (.064)	Yes
16-02-0083		24-30	1.52 (.060)	
16-02-0087	2	22-24	1.63 (.064)	Yes
16-02-0082		24-30	1.52 (.060)	
16-02-0086	3	22-24	1.63 (.064)	Yes
16-02-0069		24-30	1.52 (.060)	

Plating No. 1: 30 μ " min. Gold in select area over 50 μ " min. Nickel overall with 75 μ " Tin in select area

Plating No. 2: 15 μ " min. Gold in select area over 50 μ " min. Nickel overall with 75 μ " min. Tin in select area

Plating No. 3: 150 μ " Tin over 50 μ " Nickel overall

Each reel contains 20,000 terminals

Bag				
Order No.	Plating	Wire Range (AWG) Stranded	Insulation Maximum Outside Diameter	Lead-free
16-02-0104	1	22-24	1.63 (.064)	Yes
16-02-0098		24-30	1.52 (.060)	
16-02-0103	2	22-24	1.63 (.064)	Yes
16-02-0097		24-30	1.52 (.060)	
16-02-0102	3	22-24	1.63 (.064)	Yes
16-02-0096		24-30	1.52 (.060)	



**PRODUCT SPECIFICATION
MALE CRIMP CONNECTOR
ASSEMBLY**



LANGUAGE
ENGLISH

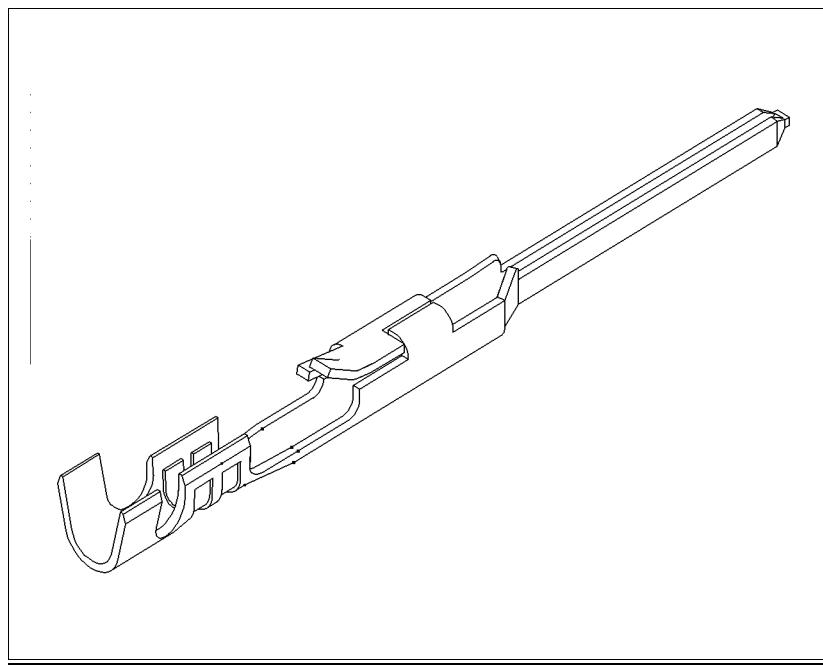


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REV	D			
SHT	1-4			
REVISE ON PC ONLY		TITLE		
D	REVISED & REDRAWN, CHG TO MS WORD FORMAT ECN UDT2002-0519 SCHAFER 01/9/18	MALE CRIMP TERMINAL 70021		
REV	DESCRIPTION	THIS DOCUMENT CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INC. AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION		
DESIGN CONTROL UDT		STATUS	WRITTEN BY: J.SCHAFER	CHECKED BY: D.BRINKMAN
APPROVED BY: D.BRINKMAN		DATE: YR / MO / DAY 01/7/13		
DOCUMENT NO. PS -70021				FILE NAME PS70021.DOC
				SHT NO. 1 OF 4
BORDER TEMPLATE: ES-40000-3996 REV. A SHEET 3 95/MAR/10 EC U5-0926 DCBRD03.LWP				



PRODUCT SPECIFICATION



LANGUAGE

ENGLISH

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/Lead: .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/lead 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/lead plate in selected area.
 - 4.2.4 For special finish requirements, consult with your local Molex sales representative.

REVISE ON PC ONLY		TITLE		
D	SEE SHEET 1		MALE CRIMP TERMINAL 70021	
REV	DESCRIPTION	THIS DOCUMENT CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INC. AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION		
DOCUMENT NO.				FILE NAME
PS - 70021				PS70021.DOC
BORDER TEMPLATE: ES-40000-3996		REV. A	SHEET 3	2
95/MAR/10		EC U5-0926	DCBRD03.LWP	



PRODUCT SPECIFICATION



LANGUAGE

ENGLISH

- 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.

REVISE ON PC ONLY		TITLE	
D	SEE SHEET 1	MALE CRIMP TERMINAL 70021	
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DOCUMENT NO.	PS - 70021	FILE NAME	SHEET
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PRODUCT SPECIFICATION



LANGUAGE
ENGLISH

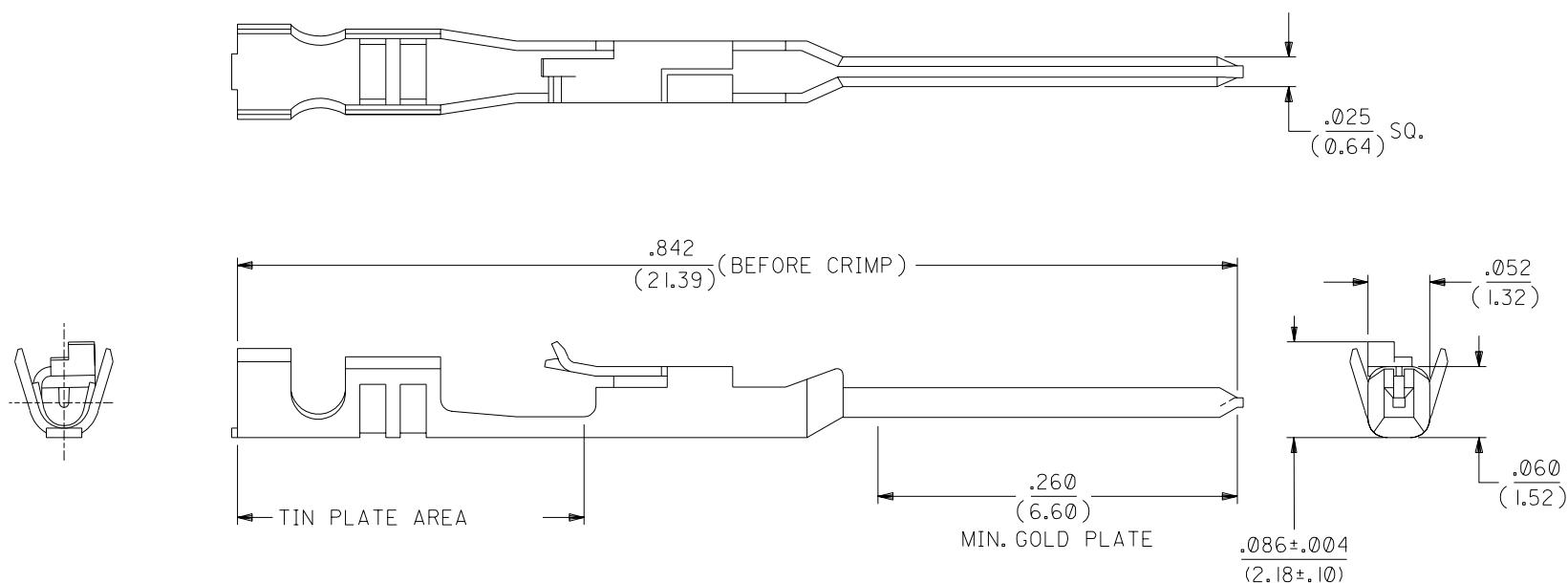
6.0 ENVIRONMENTAL SPECIFICATIONS:

- 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 milliohms.
- 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.
- 6.5 Salt Spray: Mil. Std. 202E, Method 101D, Condition A. Measured contact resistance must be less than 15 milliohms.

	REVISE ON PC ONLY	TITLE	MALE CRIMP TERMINAL 70021	
D	SEE SHEET 1			
REV	DESCRIPTION	THIS DOCUMENT CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INC. AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION		
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NOTES:

1. TERMINAL FOR USE WITH HOUSING PART NO. 70066-**** & 70107-****.
2. MATERIAL: .008/(0.20) THK. PHOSPHOR BRONZE.
3. TERMINAL TO BE USED WITH 22-24 AWG STRANDED WIRE WITH .064 DIA. MAX. INSULATION.
4. REFER TO MOLEX OPERATIONAL AND SERVICE MANUAL FOR DETAILS.
5. REFER TO PRODUCT SPECIFICATION NO. PS-70021.
6. PARTS SUPPLIED LOOSE PER DRAWING PK-70873-0822.

PLATING:

.000030 GOLD PLATE IN SELECT AREA.
 .000075 MIN. TIN PLATE IN SELECT AREA.
 OVER 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.

DIMENSIONS SHOWN (METRIC) INCH		REVISE ONLY ON CAD SYSTEM	
UNLESS OTHERWISE SPECIFIED TOLERANCES: ANGULAR $\pm 1/2^\circ$			
3 PLACE	$\pm .010$	INCH	METRIC
2 PLACE	$\pm .015$	± 0.25	
1 PLACE	---	± 0.35	
DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS			
DRWG. BY	WJF	CHK'D. BY	MMJ
APP'D. BY	WAZ	SCALE	10:1
FILE NAME S70021X26.DGN		THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INC. AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION.	
SHEET NO. 1		DATE 10/30/86	
PART NO. 16-02-0117		DRWG. NO. SD-70021-0225	
DIV. DA		SIZE B	