Mini-Lock Wire-to-Board Connector System

molex

2.50mm pitch Mini-Lock Wire-to-Board system is a longtime best-selling connector system, ideal for a wide range of applications

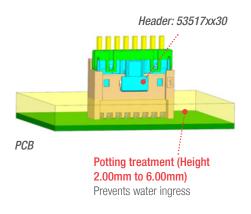
Features and Advantages

Readily available tooling









Applications

Home Appliance

Refrigerators

Washers and dryers

Air conditioners

Industrial

Automation equipment

Vending machines

Consumer

Fitness equipment

Gaming machines

Security systems

Automotive

Interior/exterior lightings

Audio equipment

Navigation systems



Home Appliance



Security System



Automation equipment

Mini-Lock Wire-to-Board Connector System



Specifications

REFERENCE INFORMATION

Packaging:

- Reel 50752 Crimp Terminal

- Bag 51163 Rec HSG, 51164 TPA

- Tray 53517 Header UL File No.: E29179 CSA File No.: LR19980 Mates With: 53517 Use With: 51163, 51164 Terminal Used: 50752

Designed In: Millimeters RoHS: Yes Halogen Free: No Glow Wire Capable: Yes

ELECTRICAL

Voltage (max.): 250V

Current (max.): 3.5A (20 AWG)

Contact Resistance (max.): 20 Milliohms Dielectric Withstanding Voltage: 1000V AC/min

Insulation Resistance (min.): 1000 Megohms

MECHANICAL

Contact Insertion Force (max.): 9.8N Contact Retention to Housing (min.): 14.7N Mating Force (max.): 58.8N (8 circuit) Unmating Force (min.): 7.9N (8 circuit)

Durability (max.): 30 cycles

PHYSICAL

Housing:

- PBTP UL94V-0 (51163, 51164)

- PA66 UL94V-0 (53517)

Contact: Copper Alloy Plating: Pre-Tin

Contact Area (min.): 0.9 micrometer Header Pin: Phosphor Bronze

Plating: Pre-Tin

Contact Area (min.): 1.0 micrometer Operating Temperature: -40 to +105°C

Ordering Information

Series No.	Component	AWG or Circuits	Glow Wire Capable
<u>50752</u>	Crimp Terminal	20 to 22 AWG (*1)	-
<u>51163</u>	Receptacle Housing	2 to 10	Yes
<u>51164</u>	TPA Retainer	2 to 10	
<u>53517</u>	Vertical Header for Potting	2 to 10 (*2)	

^{*1: 24} to 26 AWG under development

^{*2: 11} to 15 under development