

Achieve the greatest durability and current per circuit available today for mid-range power applications with Mini-Fit® Plus HMC terminals without increasing design dimensions

Mini-Fit Plus HMC female crimp terminals are produced from a proprietary, high-current alloy, providing the capability of increased mating cycles and enhanced high-performance current-carrying capability. Mini-Fit Plus HMC female crimp terminals can handle 1500 mating cycles and 13.0A per circuit when using 16 AWG wire.

The female contacts feature a unique manufacturing process and patented, elongated dimple design to provide more contact area and a longer contact wipe over standard Mini-Fit terminals. Mini-Fit Plus HMC terminals can be used with all existing Mini-Fit plug and receptacle housings. In addition, all standard Mini-Fit right-angle headers (Series 5569, 42404, 43810, 46991) are inherently compatible with Mini-Fit Plus HMC terminals, as they feature a solid-pin construction which is designed to handle high current. For more information on Mini-Fit Plus HMC terminals, visit [www.molex.com/product/minifitplushtmc.html](http://www.molex.com/product/minifitplushtmc.html).

For more information on Molex's extensive Mini-Fit product offering, visit [www.molex.com/link/minifit.html](http://www.molex.com/link/minifit.html).

## FEATURES AND BENEFITS

- Crimp terminals produced from a proprietary, high-current alloy and unique manufacturing process are rated up to 1500 mating cycles and 13.0A per circuit and are ideal for applications requiring a high number of mating cycles
- Terminals feature a patented, elongated dimple design providing longer wipe lengths and increased contact area over standard Mini-Fit® terminals
- Available in wire-to-wire and wire-to-board configurations and three wire gauge sizes (16, 18 to 20, 22 to 24 AWG) for use in multiple applications
- Mini-Fit Plus HMC female crimp terminals are used with existing Mini-Fit® receptacle and plug housings and can be used with existing Mini-Fit and Mini-Fit® Plus headers; additional crimp housings and headers are not required
- Crimp terminals are compatible with existing Molex crimp tooling so no new tooling is required

## SPECIFICATIONS

### Reference Information

Packaging: Reel Only  
UL File No.: E29179  
CSA File No.: 1068385

### Mechanical

Durability:  
Tin (Sn) — 1500 cycles

### Physical

Contact:  
High-Current Copper (Cu) Alloy  
Plating:  
Contact Area – 100 $\mu$ " Tin (Sn)  
Underplating – 50 $\mu$ " Nickel (Ni)  
Wire Range: 16, 18-20, 22-24 AWG  
Insulation Range: 3.10mm max.  
Strip Length: 2.99 to 3.51mm  
Operating Temperature:  
-40 to +105° C

### Electrical

Voltage: 600V  
Current: See "Current Chart" below  
Current Interruption: 8.0A max. at 24V

### Current Chart

Wire Size (AWG)	Single-Row Circuit Size			Dual-Row Circuit Size				
	3	4	5	2	4, 6	8, 10, 12	14, 16, 18	20, 22, 24
16	13.0A	12.5A	12.0A	13.0A	12.0A	10.5A	10.0A	9.5A
18	11.0A	10.5A	10.0A	11.0A	10.0A	8.0A	8.0A	8.0A
20	9.5A	9.0A	8.5A	9.5A	8.0A	7.5A	7.0A	7.0A

**molex®**

## Mini-Fit® Plus HMC (High Mating Cycle) Crimp Terminals

### 46018 Female Crimp Terminal



Mini-Fit® Plus HMC  
Female Crimp Terminal  
(allows for 1500 mating cycles and  
13.0A per circuit)

## APPLICATIONS

- Medical
  - Patient monitors
  - Diagnostic imaging
  - Therapeutic devices
  - Patient handling equipment
- Appliance/white goods
- Desktop/tower computer
- Power supplies
- Networking/ telecommunications
  - Hubs
  - Servers
  - Routers
- Industrial
- Marine and recreational
- Military Commercial Off-the-Shelf (COTS)
- Mid-range power applications
- Vending and gaming



Magnetic Resonance



Defibrillator (external)



Ultrasound

## Mini-Fit® Plus HMC (High Mating Cycle) Crimp Terminals

46018 Female Crimp Terminal



Medical Equipment



Laundry Equipment (washers and dryers)

## ORDERING INFORMATION

Order No.	Wire Gauge
46018-2541	22 - 24
46018-1541	18 - 20
46018-3541	16