



Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of "Quality Parts,Customers Priority,Honest Operation,and Considerate Service",our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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## Flexi-Mate™ 24 AWG cable assemblies maximise design flexibility, simplify wiring production and provide end-to-end space savings for LED panel-lighting applications

The Flexi-Mate™ family meets the Solid State Lighting (SSL) Industry's needs for flexibility and space savings in applications requiring placement of LEDs on interconnecting panels across the width of the display or lighting fixture. The low-profile, 3.00mm mated height, of the connectors does not interfere with the luminescence angle of PCB mounted LEDs, ensuring light uniformity of the finished panel.

Flexi-Mate 24 AWG cable assemblies are supplied pre-crimped in standard cable lengths, meeting the needs of lighting panel manufacturers who typically lack crimping capabilities. The system comprises board-to-board harnesses used to connect LED light panels and driver-to-board harnesses to connect LED panels to the main power board. A wire loop configuration can complete an open-loop signal. The cable assemblies mate with existing Flexi-Mate receptacles.

Key features of the compact, low-profile Flexi-Mate connectors include a dual-contact terminal design for secure electrical contact, space-saving positive side locks and mating guide features. Connectors meet IEC60838-2-2 requirements for LED modules. For additional information visit: [www.molex.com/link/fleximate.html](http://www.molex.com/link/fleximate.html)

### Features and Benefits

24 AWG cable assemblies in white	Cable gauge and colour support lighting market preferences
Flexible board-to-board, wire-to-board and cable-loop options	Meets needs of lighting designs that use interconnecting LED panels
Low-halogen materials	Meets lighting industry environmental regulations
3.00mm mated height and 3.70mm pitch	Compact, low profile system achieves space savings
Positive side latches on crimp housing	Space savings and easy mating/unmating
Dual-contact terminal design	Ensures reliable electrical connection
Headers designed with extended wall to ensure >3mm creepage distance	Meets UL approval requirements
Shrouded contacts	Protects contact area

### Applications

#### Lighting:

- LED panel-lighting applications
  - Downlight modules
  - Linear lights / lighting strips
  - Track lighting
  - Office lighting
  - Industrial lighting



LED office lighting



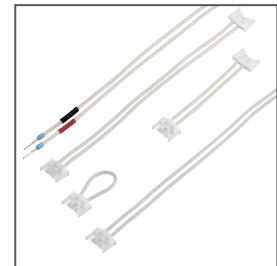
LED panel-lighting applications

## Flexi-Mate™ 24 AWG Cable Assemblies

Board-to-Board  
**68801-4593**  
**68801-4594**  
**68801-4595**

Wire Loop  
**68801-4596**

Driver-to-Board  
**68801-4645**  
**68801-4648**



Flexi-Mate™ 24 AWG Cable Assemblies

## Specifications

### REFERENCE INFORMATION: CABLE ASSEMBLIES

Packaging (cables): Bags  
 UL Approved: Yes  
 Mates With: Receptacle: 503471  
 (For low-halogen mating  
 receptacle – contact GPM)  
 Designed In: mm  
 RoHS: Yes  
 Low Halogen: Yes

### MECHANICAL

Durability (min.): 15 cycles

### PHYSICAL

Housing: PBT, White  
 Terminal: Copper Alloy  
 Plating:  
 Contact Area — Tin (Sn)  
 Operating Temperature:  
 -40 to +85°C

## Flexi-Mate™ 24 AWG Cable Assemblies

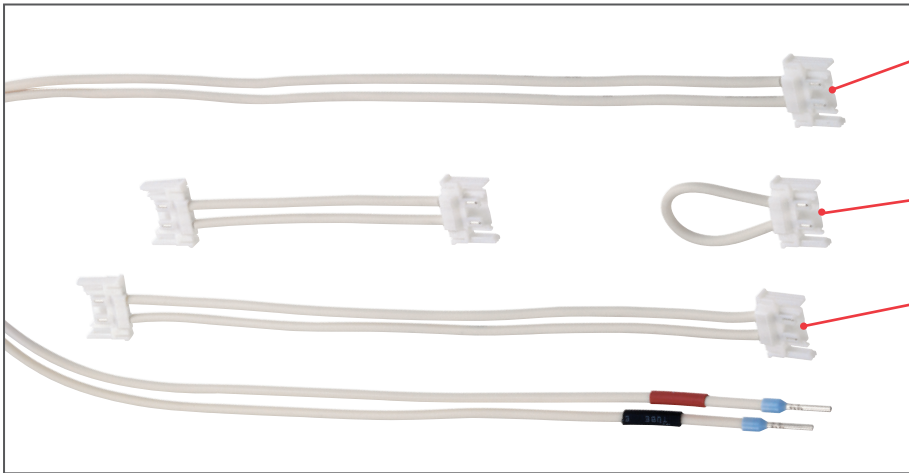
### ELECTRICAL

Voltage (max.): 500V  
 Current (max.): 2.0A  
 Contact Resistance: 40 milliohms max.  
 Dielectric Withstanding Voltage:  
 1500V AC min.  
 Insulation Resistance:  
 1000 Megaohms min.

### CABLE SPECIFICATIONS

AWG: 24  
 Jacket Material: MPPE  
 Conductor material:  
 Tinned Copper wire stranded  
 Colour: White

## Flexi-Mate 24 AWG cable assemblies



Driver-to-board  
 Flexi-Mate cable assemblies  
 68801-4645 / 68801-4648  
 (350 and 600mm lengths)

Flexi-Mate wire loop  
 68801-4596

Board-to-board Flexi-Mate  
 cable assemblies  
 68801-4593 / 68801-4594 /  
 68801-4595  
 (46, 115 and 190mm lengths)

## Ordering Information

Order No.	Configuration		Cable Length
68801-4593	Flexi-Mate to Flexi-Mate	Board-to-board	46mm
68801-4594			115mm
68801-4595			190mm
68801-4596	Flexi-Mate wire loop	-	-
68801-4645	Flexi-Mate to ferrule	Driver-to-board	350mm
68801-4648			600mm