

# Mini-Fit TPA2 and non-TPA Off-the-Shelf (OTS) Discrete Wire Cable Assemblies



Standard Mini-Fit TPA2 and non-TPA Cable Assemblies deliver an off-the-shelf solution with a variety of cable lengths and a 4.20mm-pitch connector with a 9.0A maximum current rating to facilitate both prototyping and global production

## Features and Advantages

### Multi-color cable configurations with Mini-Fit TPA2 and non-TPA Connectors available off the shelf

Designed to support development and production programs. Multi-color cables ensure correct connection



UL 1007 and UL 1015 discrete wires (dual-row versions); UL 1061 and UL 1015 discrete wires (single-row versions)

Ready to use in electronic appliance applications. Provide ease of design, prototyping and production

### Both custom and off-the-shelf assemblies available

Provides quick availability for development and production programs and customized versions for final designs

### Pin-to-pin mapping from receptacle to PCB header

Meets 2011/65/EU RoHS compliance. Decreases engineering time and resources

### Available in single- and dual-row configurations

Provides design flexibility

### Assembled in ISO/TS16949-certified facilities

Ensures high quality. Meets current automotive industry standards

## Applications

### Consumer

- Fitness equipment
- Home entertainment systems
- Home appliances
- Home office
- Home security systems
- Portable electronic devices
- Gaming consoles
- Mobile devices

### Automotive

- Harness manufacturers
- Non-sealed applications
- Inside devices

### Industrial

- Automation equipment
- Vending machines
- Process controls

### Medical

- Patient monitors



Mini-Fit Non-TPA Dual-Row 4- and 8-Circuit Cable Assembly



Mini-Fit TPA Dual-Row 4-Circuit Cable Assembly



Mini-Fit TPA Single-Row 4-Circuit Cable Assembly



Home Appliance



Home Office



Automotive: Inside Devices

# Mini-Fit TPA2 and non-TPA Off-the-Shelf (OTS) Discrete Wire Cable Assemblies



## Specifications

### REFERENCE INFORMATION

Packaging: See Product Specs  
 UL File No.: E29179  
 CSA File No.: LR19980  
 Mates With: All Mini-Fit  
 Terminal Used: Series 172718 and 172765  
 Designed In: Millimeters  
 RoHS: Yes  
 Halogen-Free: Low  
 V-O: Yes  
 Glow-Wire Compliant: No

### ELECTRICAL

Mini-Fit TPA2 Cable Assemblies  
 Voltage (max.): 300V AC/DC  
 Mini-Fit non-TPA Cable Assemblies  
 Voltage (max.): 600V AC/DC  
 Contact Resistance: 10 milliohm change from initial  
 Dielectric Withstanding Voltage: 2200V  
 Insulation Resistance (min.): 1000 Megohms

### MECHANICAL

Contact Insertion Force: 15N (3.4 lbf)  
 Contact Retention to Housing: 30N (6.74 lbf)  
 Mating Force: 14.7N (3.3lbf)  
 Unmating Force: 1.0N (0.22 lbf)  
 Thumb Latch Yield Strength: 60N (13.5 lbf) MIN (V-0)

### PHYSICAL

Pitch: 4.20mm  
 Wire Gauge: 16 to 24 AWG  
 Housing: Nylon  
 Contact: Brass or Phosphor Bronze  
 Plating: Tin  
 Operating Temperature:  
 Mini-Fit TPA2 Cable Assemblies  
 Up to 80°C  
 Mini-Fit non-TPA Cable Assemblies  
 Up to 105°C

## Ordering Information

| Series                 | Component  | Circuits       | Lengths                          |
|------------------------|--|----------------|----------------------------------|
| <a href="#">45135</a>  | Off-the-Shelf Mini-Fit TPA2 Discrete Wire Cable Assemblies           | 2, 4, 6, 8     | 150.00, 300.00mm and 1.0m        |
| <a href="#">145135</a> | Off-the-Shelf Mini-Fit Single-Row TPA Discrete Wire Cable Assemblies | 2, 3, 4, 5, 6  | 75.00, 150.00, 300.00mm and 1.0m |
| <a href="#">215325</a> | OTS Mini-Fit Jr. DR Discrete Wire Cable Assemblies Gold and Tin      | 2, 4, 6, 8, 10 | 150.00, 300.00 and 600.00mm      |
| <a href="#">215326</a> |  |                |                                  |
| <a href="#">215327</a> |  |                |                                  |
| <a href="#">215328</a> |  |                |                                  |
| <a href="#">215320</a> | OTS Mini-Fit Jr. SR Discrete Wire Cable Assemblies Gold and Tin      | 2, 3, 4, 5, 6  | 150.00, 300.00 and 600.00mm      |
| <a href="#">215321</a> |  |                |                                  |
| <a href="#">215322</a> |  |                |                                  |
| <a href="#">215323</a> |  |                |                                  |

| Custom Product                | Description  |
|-------------------------------|--|
| <a href="#">Contact Molex</a> | Mini-Fit TPA2 Discrete Wire Cable Assembly<br>Custom lengths and other options |

[www.molex.com/link/otscableassemblies.html](http://www.molex.com/link/otscableassemblies.html)

Molex is a registered trademark of Molex, LLC in the United States of America and may be registered in other countries; all other trademarks listed herein belong to their respective owners.