

# Nano-Fit TPA Discrete Wire Cable Assemblies



Nano-Fit TPA Discrete Wire Cable Assemblies deliver off-the-shelf (OTS) solutions with a broad offering of Molex connectors and a variety of cable lengths to facilitate both prototyping and global production

## Features and Advantages

### UL 1061 discrete wires

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

Available in single- and dual-row configurations  
Provides design flexibility



Nano-Fit TPA Standard Discrete Cable Assemblies



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

Pin-to-pin mapping from receptacle to PCB header  
Provides ready-to-use, plug-and-play connections



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

Assembled in ISO/TS16949-certified facilities  
Ensures high quality. Meets current automotive industry standards

Nano-Fit TPA Cable Assembly has up to a 6.5A current rating in a small package  
Brings space savings for design flexibility

Meets 2011/65/EU RoHS Compliance  
Decreases engineering time and resources

## Applications

### Consumer

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



Gaming Machines



Office Equipment



Industrial Automation

### Commercial Vehicle

### Industrial

- Process controls

### Medical

- Patient monitors

# Nano-Fit TPA Discrete Wire Cable Assemblies



## Specifications

### REFERENCE INFORMATION

Connector UL File No.: E29179  
CSA File No.: LR19980  
IEC File No.: Pending  
Mates With: Nano-Fit Connectors and Receptacles only — no competitive cross  
Terminal Used: Nano-Fit  
Designed In: Millimeters  
RoHS: Yes  
Halogen Free: Yes  
Glow-Wire Compliant: No

### ELECTRICAL

Voltage (max.): 300V  
Current (max.): 6.5A  
Contact Resistance (max.): 10 milliohms change over life  
Dielectric Withstanding Voltage: 1600V  
Insulation Resistance (min.): 1000 Megohms

### MECHANICAL

Mating Force: 3N  
Unmating Force: 3N  
Durability (min.): 20 tin, 50 gold

### PHYSICAL

Housing:  
Receptacle: Nylon UL 94V-0  
Header: LCP UL 94V-0  
Contact: Brass  
Plating:  
Contact Area — Tin or 381 $\mu$  Gold or 762 $\mu$

## Ordering Information

Series No.	Component	Type	Circuits	Length
<a href="#">45130</a>	Off-the-Shelf Nano-Fit TPA Discrete Wire Cable Assemblies	Dual Row	2, 4, 6 and 8	150.00mm, 300.00mm and 1.0m
<a href="#">145130</a>	Off-the-Shelf Nano-Fit TPA Discrete Wire Cable Assemblies	Single Row	3, 4, 5, 6, 7, 8	75.00mm, 150.00mm, 300.00mm, 1.0m

Custom Product	Description
<a href="#">Contact Molex</a>	Nano-Fit Discrete Wire Cable Assemblies, Custom Lengths and Other Options

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

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