

# Nano-Fit Off-the-Shelf (OTS) Overmolded Cable Assemblies

**molex**

**Nano-Fit Double-Ended, Overmolded Cable Assemblies with strain relief offer off-the-shelf and customized versions with various circuit sizes and lengths.**

## Features and Advantages



**Nano-Fit Cable Assembly delivers an 8.0A max. current rating and the smallest, fully-isolated headers in the market**

Offers up to 69% space savings

### User-friendly overmolded interface and strain relief

Provides a ruggedized general market connector that is safe and convenient for consumer use. Reduces mechanical stress on wires and terminals.

### Custom assemblies for production also available

Meet design needs after prototyping is complete. Molex's extensive design and manufacturing expertise can meet the unique challenges of the most demanding applications

### Fully isolated terminals

Protect against potential damage of terminals during handling and mating

### Fully polarized housings

Prevent accidental mis-mating



### Positive latching on housings

Ensures secure retention. Delivers an audible click to provide feedback that connector is fully mated

*Nano-Fit 2-Circuit Connector*

## Applications

### Consumer

- Office equipment
- Fan tray assemblies
- Gaming and vending
- Washers and dryers
- Heaters and air conditioners

### Networking

- Hubs and servers
- Power supplies and distributions

### Data/Computing

- Personal computers
- Workstations
- Servers

### Industrial

- Machinery and heavy equipment
- Lighting and automation

### Commercial Vehicle

- Unsealed electronic control modules
- Power converters



Vending Machines



Office Equipment



Industrial Automation

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## Specifications

### ELECTRICAL

Voltage (max.): 250V AC/DC  
Current (max.): 8.0A  
Dielectric Withstanding Voltage: 1500V AC  
Insulation Resistance (min.): 10 Megohms

### MECHANICAL

Insertion Force to PCB (max.): 15N  
Retention Force (min.): 20.0N  
Mating Force (max. per circuit): 7.0N  
Unmating Force (max. per circuit): 2.0N  
Durability (min.): 25 cycles

### PHYSICAL

Flammability: UL 94V-0  
Housing: Nylon, Black  
Terminal: High Conductive Copper  
Plating: Matte Tin  
Wire/Cable: UL2464, Black, 80°C,  
xC\*20AWG, 300V  
Overmolding resin: PVC, Black  
TPA: Yes  
Operating Temperature: -20 to +80°C

## Ordering Information

| Part No.               | Description                        | Length (m) | Number of Circuits |
|------------------------|------------------------------------|------------|--------------------|
| <a href="#">245130</a> | Overmolded Nano-Fit Cable Assembly | 0.5        | 2, 4, 6, 8 and 10  |
|                        |                                    | 1          |                    |
|                        |                                    | 2          |                    |
|                        |                                    | 3          |                    |
|                        |                                    | 5          |                    |

| Custom Product                | Description                                   |
|-------------------------------|-----------------------------------------------|
| <a href="#">Contact Molex</a> | Customized Nano-Fit Overmolded Cable Assembly |

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

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