

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
245130	Overmolded Nano-Fit Cable Assembly	0.5	2, 4, 6, 8 and 10
		1	
		2	
		3	
		5	

Custom Product	Description
Contact Molex	Customized Nano-Fit Overmolded Cable Assembly

www.molex.com/link/overmolded.html

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