

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 a 6.5A 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 polarized housings

Prevent accidental mis-mating

Fully isolated terminals

Protect against potential damage of terminals during handling and 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
Current (max.): 6.5A
Contact Resistance (max.):
10 milliohms change over life
Dielectric Withstanding Voltage: 1500V
Insulation Resistance (min.): 1000 Megohms

MECHANICAL

Contact Insertion Force: 2.5N
Contact Retention to Housing: 27N
Insertion Force to PCB: 5N
Mating Force: 3N
Unmating Force: 3N
Durability (min.): 20

PHYSICAL

Housing:
Receptacle: Nylon UL 94V-0
Header: LCP UL 94V-0
Contact: High-conductivity copper
Plating:
Contact Area — Tin
Solder Tail Area — Tin
Underplating — Nickel
Overmolding: PVC, Black
Operating Temperature: -40 to +115°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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