Nano-Fit TPA Discrete Wire Cable Assemblies

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

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



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



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



Nano-Fit TPA Standard Discrete Cable Assemblies

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

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

Nano-Fit TPA Cable Assembly has up to a 8.0A 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 equipment
- Home security systems
- Portable electronic devices
- Gaming consoles
- Mobile devices

Commercial Vehicle

Industrial
- Process controls

Medical
- Patient monitors



Gaming Machines



Office Equipment



Industrial Automation

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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.): 8.0A
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 381µ (15µ") Gold or 762µ

Ordering Information

Series No.	Component	Type	Circuits	Length
45130	Off-the-Shelf Nano-Fit TPA Discrete Wire Cable Assemblies	Dual Row	2, 4, 6 and 8	150.00mm, 300.00mm and 1.0m
145130	Off-the-Shelf Nano-Fit-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
Contact Molex	Nano-Fit Discrete Wire Cable Assemblies, Custom Lengths and Other Options

www.molex.com/link/otscableassemblies.html

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