



**Part Number :** [451301010](#)

**Product Description :** Nano-Fit-to-Nano-Fit Off-the-Shelf (OTS) Cable Assembly, Dual Row, 1.0m Length, 10 Circuits, Black

**Series Number :** 45130

**Status :** Active

**Product Category :** Power and Signal Cable Assemblies



---

## Documents & Resources

### Drawings

[451301010 sd.pdf](#)

### 3D Models and Design Files

[STEP AP242](#)


[SOLIDWORKS](#)

[Creo](#)

---

## Product Environment Compliance

### Compliance

GADSL/IMDS	Not Relevant
China RoHS	per SJ/T 11365-2006 
EU ELV	Not Relevant
Low-Halogen Status	Not Low-Halogen per IEC 61249-2-21
REACH SVHC	Not Contained per D(2025)4165-DC (25 June 2025)
EU RoHS	Compliant per EU 2015/863

### [Compliance Statements](#)

- EU RoHS
- REACH SVHC
- Low-Halogen

### [Industry Documents](#)

- IPC 1752A Class C
- IPC 1752A Class D
- Molex Product Compliance Declaration
- IEC-62474
- chemSHERPA (xml)

#### Substances of Interest

- PFAS

#### EU RoHS Certificate of Compliance

#### Additional Product Compliance Information

---

## Part Details

### General

Status	Active
Category	Power and Signal Cable Assemblies
Series	45130
Description	Nano-Fit-to-Nano-Fit Off-the-Shelf (OTS) Cable Assembly, Dual Row, 1.0m Length, 10 Circuits, Black
Application	Power, Wire-to-Board
Assembly Configuration	Dual Ended Connectors
Connector to Connector	Nano-Fit-to-Nano-Fit
Product Name	Nano-Fit
Type	Discrete Wire Assembly
UPC	191128142007

### Electrical

Current - Maximum per Contact	8.0A
Voltage - Maximum	250V AC (RMS)

### Physical

Cable Length	1.0m
Circuits (Loaded)	10
Circuits (maximum)	10
Color - Resin	Black
Gender	Female-Female
Lock to Mating Part	Yes

Material - Metal	High Conductivity Copper
Material - Plating Mating	Gold
Material - Plating Termination	Tin
Material - Resin	Nylon
Net Weight	68.783/g
Number of Rows	2
Overmolded	No
Packaging Type	Bag
Pitch - Mating Interface	2.50mm
Plating min - Mating	0.381µm
Plating min - Termination	2.540µm
Single Ended	No
Termination Interface Style	Crimp or Compression
Wire/Cable Type	UL 1061
Wire Size (AWG)	20

---

## Mates With / Use With

### Mates with Part(s)

Description	Part Number
Nano-Fit Vertical Header, Through Hole, 2.50mm Pitch, Dual Row, 10 Circuits, with Kinked Pins, 0.38µm Gold (Au) Plating, Black, Glow-Wire Capable, Tray	<u>1053101210</u>
Nano-Fit Vertical Header, Through Hole, 2.50mm Pitch, Dual Row, 10 Circuits, with Kinked Pins, 0.76µm Gold (Au) Plating, Black, Glow-Wire Capable, Tray	<u>1053101310</u>
Nano-Fit Vertical Header, Through Hole, 2.50mm Pitch, Dual Row, 10 Circuits, with Kinked Pins, 0.76µm Gold (Au) Plating, Lubricated, Black, Glow-Wire Capable, Tray	<u>1053101410</u>
Nano-Fit Vertical Header, Through Hole, 2.50mm Pitch, Dual Row, 10 Circuits, with Solder Clips, 0.38µm	<u>1053121210</u>

Gold (Au) Plating, Black, Glow-Wire Capable, Tray	
Nano-Fit Vertical Header, Through Hole, 2.50mm Pitch, Dual Row, 10 Circuits, with Solder Clips, 0.76µm Gold (Au) Plating, Black, Glow-Wire Capable, Tray	<u>1053121310</u>
Nano-Fit Vertical Header, Through Hole, 2.50mm Pitch, Dual Row, 10 Circuits, with Solder Clips, 0.76µm Gold (Au) Plating, Lubricated, Black, Glow-Wire Capable, Tray	<u>1053121410</u>
Nano-Fit Right-Angle Header, Through Hole, 2.50mm Pitch, Dual Row, 10 Circuits, 0.38µm Gold (Au) Plating, Black, Glow-Wire Capable, Tray	<u>1053141210</u>
Nano-Fit Right-Angle Header, Through Hole, 2.50mm Pitch, Dual Row, 10 Circuits, 0.76µm Gold (Au) Plating, Black, Glow-Wire Capable, Tray	<u>1053141310</u>
Nano-Fit Right-Angle Header, Through Hole, 2.50mm Pitch, Dual Row, 10 Circuits, 0.76µm Gold (Au) Plating, Lubricated, Black, Glow-Wire Capable, Tray	<u>1053141410</u>
Nano-Fit Vertical Header, Surface Mount, 2.50mm Pitch, Dual Row, 10 Circuits, 0.38µm Gold (Au) Plating, Black, Glow-Wire Capable	<u>1054291210</u>
Nano-Fit Vertical Header, Surface Mount, 2.50mm Pitch, Dual Row, 10 Circuits, 0.76µm Gold (Au) Plating, Black, Glow-Wire Capable	<u>1054291310</u>
Nano-Fit Vertical Header, Surface Mount, 2.50mm Pitch, Dual Row, 10 Circuits, 0.76µm Gold (Au) Plating, Lubricated, Black, Glow-Wire Capable	<u>1054291410</u>
Nano-Fit Right-Angle Header, Surface Mount, 2.50mm Pitch, Dual Row, 10 Circuits, 0.38µm Gold (Au)	<u>1054051210</u>

Plating, Black, Glow-Wire Capable	
Nano-Fit Right-Angle Header, Surface Mount, 2.50mm Pitch, Dual Row, 10 Circuits, 0.76µm Gold (Au) Plating, Black, Glow-Wire Capable	<u>1054051310</u>
Nano-Fit Plug Housing, TPA Capable, 2.50mm Pitch, Dual Row, 10 Circuits, Black, Glow-Wire Capable	<u>2014441110</u>
Nano-Fit Plug Housing, TPA Capable, 2.50mm Pitch, Dual Row, 10 Circuits, Black, Panel Mount, Glow-Wire Capable	<u>2014441210</u>