



**Part Number :** [451300401](#)  
**Product Description :** Nano-Fit-to-Nano-Fit Off-the-Shelf (OTS) Cable Assembly, Dual Row, 150.00mm Length, 4 Circuits, Black  
**Series Number :** 45130  
**Status :** Active  
**Product Category :** Power and Signal Cable Assemblies



## Documents and Resources

### Drawings

[451300401\\_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)7771-DC (04 Feb 2026)                                                          |
| 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

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## 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, 150.00mm Length, 4 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                    | 191128142113                                                                                          |

### Electrical

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

### Physical

|                    |               |
|--------------------|---------------|
| Cable Length       | 150.00mm      |
| Circuits (Loaded)  | 4             |
| Circuits (maximum) | 4             |
| 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                     | 5.800/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                       |

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## Mates With / Use With

### Mates with Part(s)

| Description                                                                                                                                                                       | Part Number                       |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------|
| Nano-Fit Vertical Header,<br>Through Hole, 2.50mm Pitch,<br>Dual Row, 4 Circuits, with Kinked<br>Pins, 0.38µm Gold (Au) Plating,<br>Black, Glow-Wire Capable, Tray                | <a href="#"><u>1053101204</u></a> |
| Nano-Fit Vertical Header,<br>Through Hole, 2.50mm Pitch,<br>Dual Row, 4 Circuits, with Kinked<br>Pins, 0.76µm Gold (Au) Plating,<br>Black, Glow-Wire Capable, Tray                | <a href="#"><u>1053101304</u></a> |
| Nano-Fit Vertical Header,<br>Through Hole, 2.50mm Pitch,<br>Dual Row, 4 Circuits, with Kinked<br>Pins, 0.76µm Gold (Au) Plating,<br>Lubricated, Black, Glow-Wire<br>Capable, Tray | <a href="#"><u>1053101404</u></a> |
| Nano-Fit Vertical Header,                                                                                                                                                         | <a href="#"><u>1053121204</u></a> |

|                                                                                                                                                                                    |                   |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------|
| Through Hole, 2.50mm Pitch,<br>Dual Row, 4 Circuits, with Solder<br>Clips, 0.38µm Gold (Au) Plating,<br>Black, Glow-Wire Capable, Tray                                             |                   |
| Nano-Fit Vertical Header,<br>Through Hole, 2.50mm Pitch,<br>Dual Row, 4 Circuits, with Solder<br>Clips, 0.76µm Gold (Au) Plating,<br>Black, Glow-Wire Capable, Tray                | <u>1053121304</u> |
| Nano-Fit Vertical Header,<br>Through Hole, 2.50mm Pitch,<br>Dual Row, 4 Circuits, with Solder<br>Clips, 0.76µm Gold (Au) Plating,<br>Lubricated, Black, Glow-Wire<br>Capable, Tray | <u>1053121404</u> |
| Nano-Fit Right-Angle Header,<br>Through Hole, 2.50mm Pitch,<br>Dual Row, 4 Circuits, 0.38µm Gold<br>(Au) Plating, Black, Glow-Wire<br>Capable, Tray                                | <u>1053141204</u> |
| Nano-Fit Right-Angle Header,<br>Through Hole, 2.50mm Pitch,<br>Dual Row, 4 Circuits, 0.76µm Gold<br>(Au) Plating, Black, Glow-Wire<br>Capable, Tray                                | <u>1053141304</u> |
| Nano-Fit Right-Angle Header,<br>Through Hole, 2.50mm Pitch,<br>Dual Row, 4 Circuits, 0.76µm Gold<br>(Au) Plating, Lubricated, Black,<br>Glow-Wire Capable, Tray                    | <u>1053141404</u> |
| Nano-Fit Vertical Header, Surface<br>Mount, 2.50mm Pitch, Dual Row,<br>4 Circuits, 0.38µm Gold (Au)<br>Plating, Black, Glow-Wire Capable                                           | <u>1054291204</u> |
| Nano-Fit Vertical Header, Surface<br>Mount, 2.50mm Pitch, Dual Row,<br>4 Circuits, 0.76µm Gold (Au)<br>Plating, Black, Glow-Wire Capable                                           | <u>1054291304</u> |
| Nano-Fit Vertical Header, Surface<br>Mount, 2.50mm Pitch, Dual Row,<br>4 Circuits, 0.76µm Gold (Au)<br>Plating, Lubricated, Black, Glow-<br>Wire Capable                           | <u>1054291404</u> |

|                                                                                                                                    |                   |
|------------------------------------------------------------------------------------------------------------------------------------|-------------------|
| Nano-Fit Right-Angle Header, Surface Mount, 2.50mm Pitch, Dual Row, 4 Circuits, 0.38µm Gold (Au) Plating, Black, Glow-Wire Capable | <u>1054051204</u> |
| Nano-Fit Right-Angle Header, Surface Mount, 2.50mm Pitch, Dual Row, 4 Circuits, 0.76µm Gold (Au) Plating, Black, Glow-Wire Capable | <u>1054051304</u> |
| Nano-Fit Plug Housing, TPA Capable, 2.50mm Pitch, Dual Row, 4 Circuits, Black, Glow-Wire Capable                                   | <u>2014441104</u> |
| Nano-Fit Plug Housing, TPA Capable, 2.50mm Pitch, Dual Row, 4 Circuits, Black, Panel Mount, Glow-Wire Capable                      | <u>2014441204</u> |

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